

# **ANNUAL & AUDIT REPORT (2015-2016)**



**Chairman  
Board of Governors  
Shri Rajiv Mehrotra**

**(Shyam Telecommunication Group and Vihan Networks Ltd.  
21-B, Sector-18, Udyog Vihar, Gurgaon, Haryana-122015)**

**Director  
Professor I K Bhat**

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## 1.0 INTRODUCTION

National Institute of Technology Jalandhar was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology by the Government of India under the control of Ministry of Human Resource Development, New Delhi on October 17, 2002. As National Institute of Technology, the institute has a responsibility of providing high quality education in Engineering and Technology to produce competent technical manpower for the country. The institute offers B Tech program in twelve disciplines of Engineering and Technology along with research programs leading to M.Sc, M Tech and Ph D. The institute acquires a national character having 50% student intake from the State of Punjab and the rest from other states/union territories of the country.

### 1.1 Mission Statement

To become a leading and unique institution of higher learning, offering state-of-the-art education, research and training in engineering and technology to students who are able and eager to become change agents for the industrial and economic progress of the nation. To nurture and sustain an academic ambience conducive to the development and growth of committed professionals for sustainable development of the nation and to accomplish its integration into the global economy.

### 1.2 Objectives

To build a rich intellectual potential embedded with interdisciplinary knowledge, human values and professional ethics among the youth, aspirant of becoming engineers and technologists, so that they contribute to society and create a niche for a successful career

### 1.3 Education System

- To develop technical human resource of excellence suitable for global requirements.
- To ensure good quality academic and industrial research programmes in different areas of engineering, technology and sciences.
- To generate industry-institute synergy for shaping technical education to meet the requirement of industry.

### 1.4 New Initiatives

The Institute is actively involved in collaborative programmes with national and international organizations for its overall development. Memoranda of Understanding (MOUs) have been signed with the following Organizations:

- |   |   |
|---|---|
| • Amdocs Software, Cyprus                       | • IIP Dehradun                          |
| • Confederation of Indian Industries, New Delhi | • IHBT Palampur                         |
| • Central Leather Research Institute, Madras    | • IBM India Limited, Gurgaon            |
| • Central Institute of Hand Tools, Jalandhar    | • Jayashree Textiles, Rishra            |
| • CSIO Chandigarh                               | • QUARK                                 |
| • DRDO, Delhi                                   | • SUN Microsystems India Ltd.           |
| • Forest Research Institute, Dehradun           | • TCS, Mumbai                           |
| • Hewlett Packard (HP)                          | • University of Dundee, Scotland (U.K.) |
| • InfoSys                                       | • École Centrale de Lille (France)      |

## 2.0 AN OVERVIEW

### 2.1 Historical Background

National Institute of Technology Jalandhar was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed to be University) by the Government of India under the control of Ministry of Human Resource Development, New Delhi on October 17, 2002. Since its attaining the status of National Institute of Technology in October 2002, the institute is marching ahead and building on its strengths like modernizing the institutes laboratories, upgrading the faculty sponsoring them for higher studies & short terms training programmes, strengthening interface with industries leading to more and more jobs offers for our students, modernization of the institute library, planning the new institute buildings and so on.

### 2.2 Location

Jalandhar is an important railway station on Delhi- Amritsar sections of Northern Railways and is situated at about 370 kms north of Delhi. It is also well connected through road route (situated at NH-1). It is renowned industrial centre for sports goods, leather goods and hand tools. The institute is located on GT road, Bye-Pass (leading towards, Amritsar). It is situated at a distance of about 12 kms from Jalandhar Bus Stand, 10 kms from Jalandhar city Railway station and 15 kms from Jalandhar cantt. Railway station and is well accessible through local buses and auto-rikshaw.

### 2.3 Campus

The institute campus is spread over an area of 154 acres on picturesque land scape. It is a harmonious mix of natural beauty with state of art architecture. The campus is fully residential and having sufficient number of residents for faculty and staff and hostels for students. There are eight numbers of boy's hostels and three number of girls hostels. Besides this the campus is also having a cricket field, a football ground, volley ball & tennis court, badminton hall, track, table tennis tables and ancillary arrangements for sports activity. In addition to that one Table Tennis table is provided in each hostel. The campus is self contained having shopping complex, computerized Banks, Post office, Faculty Club, Students Activity Center, Guest House, Dispensary and other facilities essential for community living.

### 2.4 Administration

Dr B R Ambedkar National Institute of Technology, Jalandhar is an autonomous institution under the aegis of Central Government. The institute functions under the overall control and guidance of the Board of Governors, the other authorities of the institute are the Finance Committee, Building and Works Committee and the Senate. The constitutions of the Board of Governors, Finance Committee, Building Works and other Committees are given at **Annexure 11.2, 11.3 respectively**. The administration of various departments /centers in the institute is looked after by respective head of the departments/Prof-in-charge.

### 2.5 Academic Programs

In addition to Bachelor's programmes in Engineering, institute also offers Master's and Doctorate programmes in Engineering, Humanities & Management and Sciences. The academic programs offered by the institute are listed below:-

1. Bachelor of Technology(BTech)
2. Master of Technology (MTech)
3. Master of Technology (Part-time)
4. Master of Science(MSc)
5. Doctorate of Philosophy(PhD)
6. Doctorate of Philosophy(Part-Time)

#### Academic session

Odd semester 20<sup>th</sup> July, 2015 to 15<sup>th</sup> December, 2015

Even semester 4<sup>th</sup> January 2016 to 2<sup>nd</sup> June, 2016

#### Working hours

During the period under review the institute observed the working hours as under:

Working hours    8.30 a m                      to                      5.30 p m

(Monday to Friday)

Lunch break        12.30 p m                      to                      1.30 p m

## 2.6 Courses Offered

There are twelve engineering departments three Sciences Departments and a Humanities & Management department. The courses offered are given at the section 4.1.

## 2.7 Admission Procedure

### Under Graduate Programme

The admission to undergraduate programmes is provided on the basis of the merit of AIEEE conducted by CBSE through the Central Counselling Board Constituted by MHRD, Government of India. The reservation policy is as per the decision of the MHRD. The eligibility for admission under the home state quota is 10+2 pass in the discipline approved by AICTE from an institution located in Punjab.

### Post Graduate Programme

### Ph D Programme

#### Ph D Programmes for Regular Candidates

Master's degree in Engineering/Technology in relevant areas with first class or minimum 60% marks (CGPA 6.5) with valid GATE score, or Master's degree in appropriate branch of Science/Humanities/Social Sciences with first class or minimum 60% marks (CGPA 6.5) with valid GATE score or UGC/CSIR/NET qualified.

#### Ph D Programmes for Internal Candidates

Faculty/Technical/Scientific staff of NITJ having teaching/industrial experience of more than two years and possessing the same academic qualifications as that for PhD full time scheme is eligible to apply for PhD Programmes. A valid GATE score of UGC/CSIR fellowship is not required.

#### Ph D Programmes for External Candidates

External candidates specified by Industry/Institute having R & D facility recognized by DST or equivalent/NITJ with industrial experience of two years or more and having same academic qualifications as that for "Ph D programmes for regular candidates" are eligible to apply for PhD Programmes. The valid GATE score of UGC/CSIR fellowship is not required.

#### Ph D Programmes for Staff under Projects

The project staff working under the projects sponsored by MHRD/DST/UGC or some other government agency and coordinated by the institute's faculty as certified by the Principal Investigator/Coordinator and having the same academic qualifications as that for Ph D Full Time programme are eligible to apply for admission to Ph D Programme provided an adequate financial support for the period of Ph D degree is ensured from project employment or other sources. A valid GATE score of UGC/CSIR fellowship is not required.

## 2.8 Students

Detail of student's admitted during 2015-16, at section 4.3

## 2.9 Examination and Evaluation

The academic system at NIT, Jalandhar is framed on a credit based semester examination system. The credit system envisages a continuous evaluation of student's performance, and provides flexibility for academic progress at an optimum pace based on individual ability and convenience, subject to the constraint of the minimum requirements for continuation in the academic programme. (Details are provided under section 4.8)

## 2.10 Placement

Placement of final year students (2012-2016 batch)

Campus Interviews were arranged for the final year B. Tech students. A large number of reputed Industrial houses in the country visited the Institution and selected/short listed the final year students as Engineers/Management Trainees. Some of the Companies invited the students to their Corporate Offices for the interviews. (Details are provided under section 4.9)

## 2.11 Games and Sports

The students entering in the Institute are required to undergo the following non-credit mandatory requirements towards completion of their degree:-

1. N.S.O. (National Sports Organization)
2. N.S.S. (National Service Scheme)

The students have to opt for one of these activities based on the enrolment procedure and their choice. A total of 100 hours of prescribed activities are to be completed after registration in the first year. In case the requirements are not met in the first year, the same shall be completed in the second year i.e. end of the 4<sup>th</sup> Semester. If a student does not obtain a satisfactory grade in the respective registered course within the first two years of his/her stay at the Institute, he/she will not be registered for the higher semester after second year.

The students will be satisfactorily allowed to register in sports activities of the institute for completing their National Sports Organization requirement in the first year. (Details are provided under section 4.6)

**2.12 Staff Position****List of Faculty as on 31.03.2016**

Sr. No	Name (s) of the faculty	Designation	Department
<b>Chemistry</b>			
1.	Dr N. C.Kothiyal	Professor	Chemistry
2.	Dr Balbir Singh Kaith	Professor	Chemistry
3.	Dr Rajiv Jindal	Associate Professor	Chemistry
4.	Dr Harsh Kumar	Associate Professor	Chemistry
5.	Dr Jaspreet Kaur	Associate Professor	Chemistry
6.	Dr Sangeeta Obrai	Associate Professor	Chemistry
7.	Dr Virender Singh	Asstt. Professor	Chemistry
8.	Dr Uma Shankar	Asstt. Professor	Chemistry
<b>Mathematics</b>			
9.	Dr. Sheo Kumar	Professor	Mathematics
10.	Dr. Jaspal Singh	Professor	Mathematics
11.	Dr Damanjit Kaur	Associate Professor	Mathematics
12.	Dr Geeta Partap	Associate Professor	Mathematics
13.	Dr Raghaw Raman Sinha	Asstt Professor	Mathematics
14.	Mrs Alka Bhalla	Associate Professor	Mathematics
<b>Physics</b>			
15.	Dr Arvinder Singh	Professor	Physics
16.	Dr H. M. Mittal	Associate Professor	Physics
17.	Dr Jyoti Bharaj	Associate Professor	Physics
18.	Dr Rohit Mehra	Associate Professor	Physics
19.	Dr Harleen Dahiya	Asstt Professor	Physics
20.	Dr Praveen Malik	Asstt Professor	Physics
21.	Dr Abhinav Pratap Singh	Asstt. Professor	Physics
22.	Dr Arvind Kumar	Asstt. Professor	Physics
<b>Bio Tech</b>			
23.	Dr A. K. Jana	Professor	Bio tech
24.	Dr Nitai Basak	Associate Professor	Bio tech
<b>Chemical</b>			
25.	Dr M. K. Jha	Professor	Chemical
26.	Dr Ajay Bansal	Associate Professor	Chemical
27.	Dr Renu Gupta	Associate Professor	Chemical
28.	Dr Sangeeta Garg	Associate Professor	Chemical
29.	Dr Poonam Gera	Associate Professor	Chemical
30.	Dr N. K. Srivastva	Associate Professor	Chemical

31.	Dr S. Bajpai	Associate Professor	Chemical
32.	Dr Jitender Kumar	Asstt Professor	Chemical
33.	Mrs Rubal Preet	Asstt. Professor	Chemical
34.	Dr. Neetu Divya	Asstt. Professor	Chemical
<b>Civil Engg</b>			
35.	Dr. A.P.Singh	Professor	Civil Engg.
36.	Dr. S.P.Singh	Professor	Civil Engg.
37.	Dr A.K.Agnihotri	Professor	Civil Engg.
38.	Mr Davinder Singh	Asstt Professor	Civil Engg.
39.	Mrs Shailja Bawa	Asstt Professor	Civil Engg.
40.	Dr. Rizwan Ahmad Khan	Asstt Professor	Civil Engg.
<b>Computer Sci &amp; Engg</b>			
41.	Dr. Ajay K.Sharma	Professor	Computer Sci & Engg
42.	Dr. A. L. Sangal	Professor	Computer Sci & Engg
43.	Mr D. K. Gupta	Associate Professor	Computer Sci & Engg
44.	Dr Harsh Verma	Associate Professor	Computer Sci & Engg
45.	Dr. Renu Dhir	Associate Professor	Computer Sci & Engg
46.	Dr. Geeta Sikka	Associate Professor	Computer Sci & Engg
47.	Mr Rahul Aggarwal	Asstt. Professor	Computer Sci & Engg
48.	Dr. Rajneesh Rani	Asstt. Professor	Computer Sci & Engg
49.	Dr. Pramvir Singh	Asstt. Professor	Computer Sci & Engg
<b>Electronics &amp; Comm Engg</b>			
50.	Dr. R. K. Sarin	Professor	Electronics & Comm
51.	Dr Arun Khosla	Associate Professor	Electronics & Comm
52.	Dr Mamta Khosla	Associate Professor	Electronics & Comm
53.	Dr B. S. Saini	Associate Professor	Electronics & Comm
54.	Dr Ramesh Sunkaria	Asstt Professor	Electronics & Comm
55.	Dr Indu Saini	Asstt Professor	Electronics & Comm
56.	Dr Neetu Sood	Asstt Professor	Electronics & Comm
57.	Dr Deepti Kakkar	Asstt Professor	Electronics & Comm
58.	Dr Ashish Raman	Asstt Professor	Electronics & Comm
59.	Dr Balwinder Raj	Asstt Professor	Electronics & Comm
<b>Humanities &amp; Management</b>			
60.	Dr. S. S. Bedi	Associate Professor	Humanities & Mgt
61.	Dr Jagwinder Singh	Asstt Professor	Humanities & Mgt
62.	Dr Aditya Prakash	Asstt Professor	Humanities & Mgt
63.	Dr Kumar Parag	Asstt Professor	Humanities & Mgt



<b>Industrial &amp; Production Engg</b>			
64.	Dr R. K. Garg	Professor	Industrial & Prod.
65.	Dr Arvind Bhardwaj	Professor	Industrial & Prod.
66.	Sh R. K. Bansal	Associate Professor	Industrial & Prod.
67.	Dr Ajay Gupta	Associate Professor	Industrial & Prod.
68.	Dr Vishal S. Sharma	Associate Professor	Industrial & Prod.
69.	Dr Sarabjit Singh Bal	Associate Professor	Industrial & Prod.
70.	Dr Anish Sachdeva	Associate Professor	Industrial & Prod.
71.	Dr Lakhwinder Pal Singh	Asstt Professor	Industrial & Prod.
72.	Dr Shailendra Singh Bhaduria	Asstt. Professor	Industrial & Prod.
<b>Instrumentation &amp; Control Engg</b>			
73.	Dr A. K. Jain	Professor	Instrumentation & Cont
74.	Sh Narinder Singh	Associate Professor	Instrumentation & Cont
75.	Dr Dilbag Singh	Associate Professor	Instrumentation & Cont
76.	Mrs Roop Pahuja	Associate Professor	Instrumentation & Cont
77.	Dr S. K. Pahuja	Associate Professor	Instrumentation & Cont
78.	Dr Sheela Tiwari	Associate Professor	Instrumentation & Cont
79.	Dr Rajesh Singla	Associate Professor	Instrumentation & Cont
80.	Dr Kuldeep Singh Nagla	Associate Professor	Instrumentation & Cont
<b>Mechanical Engg</b>			
81.	Dr Joseph Anand Vaz	Professor	Mechanical Engg
82.	Dr Rajiv Kukreja	Associate Professor	Mechanical Engg
83.	Dr Pramod Kumar	Associate Professor	Mechanical Engg
84.	Dr Subash Chander	Associate Professor	Mechanical Engg
85.	Dr R. S. Bharij	Associate Professor	Mechanical Engg
86.	Dr D. K. Shukla	Associate Professor	Mechanical Engg
87.	Sh Ajay Trehan	Associate Professor	Mechanical Engg
88.	Dr Raman Bedi	Associate Professor	Mechanical Engg
89.	Dr S. K. Tiwari	Associate Professor	Mechanical Engg
90.	Dr Sarbjot Singh Sandhu	Asstt. Professor	Mechanical Engg
<b>Textile Technology</b>			
91.	Dr. S. Ghosh	Professor	Textile Technology
92.	Dr. J. N. Chakraborty	Professor	Textile Technology
93.	Dr. S. K. Sinha	Professor	Textile Technology
94.	Dr. A. Mukhopadhyay	Professor	Textile Technology
95.	Dr. N. Bhowmick	Associate Professor	Textile Technology

96.	Dr. A. Chatterjee	Associate Professor	Textile Technology
97.	Dr. Vinay Midha	Associate Professor	Textile Technology
98.	Sh.M. D. Roy	Associate Professor	Textile Technology
99.	Dr A. K. Chowdhary	Associate Professor	Textile Technology
100.	Dr. K.V.P. Singh	Asstt Professor	Textile Technology
101.	Dr Monika Sikka	Associate Professor	Textile Technology
<b>Training &amp; Placement</b>			
102.	Dr Rajiv Trehan	Asstt Professor	T & P
<b>Physical Education</b>			
103.	Dr Gurmej Singh	Associate Professor	Physical Edu.

**Sanctioned & Filled:-**FACULTY POSITION-2015-16 as on **31.03.2016**

Sr No	Name of the post	Total No of Posts	Post Filled	Vacant	Remarks
1	Professor	41	21	20	
2	Associate Professor	82	52	30	
3	Assistant Professor	165	30	135	
Total		288	103	185	

**Non Teaching Staff:  
Administrative Staff (31.03.2016)**

Sr. No	Name	Designation	Department
1.	Dr Sarbrinder Kaur	Librarian	Central Library
2.	Ms Daljeet Kaur	System Analyst	Computer Centre
3.	Sh S K Syal	SAS Assistant (SG-II)	Physical & Sports
4.	Sh Jaswant Singh	Technical Assistant SG-I	Mech Engg.
5.	Sh. Subash Yadav	Technical Assistant SG-I	<b>On Deputation at NIT, Delhi</b>
6.	Sh Ashwani Kumar	Technical Assistant SG-I	Computer Centre
7.	Sh Hemant Thapar	Technical Assistant SG-I	Computer Centre
8.	Sh Manjit Singh -I	Technical Assistant SG-II	Textile
9.	Mr Navneet Sharma	Technical Assistant SG-II	Textile
10.	Sh Kamoj Kumar	Technical Assistant SG-II	Chemical
11.	Sh Vijay Kumar Takhi	Technical Assistant SG-II	Instrumentation & Control Engg
12.	Sh Mahesh Kumar	Technical Assistant SG-II	Instrumentation & Control Engg
13.	Sh Amit Kumar	Technical Assistant SG-II	Estate Office
14.	Sh R K Shukla	Technical Assistant SG-II	Workshop
15.	Sh Sukhwinder Singh-II	Technical Assistant SG-II	Workshop
16.	Sh Bahadur Chand	Technical Assistant SG-II	Workshop
17.	Sh Gurbachan Singh	Technical Assistant SG-II	Industrial and Production Engg
18.	Sh Sukhwinder Singh-I	Technical Assistant SG-II	Workshop
19.	Sh Rachhpal Singh	Technical Assistant SG-II	Workshop
20.	Sh Ramesh Kumar	Senior Technical Assistant	Physics
21.	Mr Sukhminder Singh-I	Senior Technical Assistant	Estate Office
22.	Sh Gurpreet Singh	Senior Technical Assistant	Instrumentation & Control Engg
23.	Sh Hardial Singh	Senior Technical Assistant	Civil
24.	Sh Sunil Joshi	Senior Technical Assistant	Estate Office
25.	Sh Surinder Singh - I	Senior Technical Assistant	Chemistry
26.	Mr Ish Kumar	Senior Technical Assistant	Mechanical
27.	Sh Ravinder Singh	Senior Technical Assistant	Mechanical
28.	Sh Ravi Kumar	Senior Technical Assistant	Industrial & Production
29.	Sh Surinder Singh-II	Senior Technical Assistant	Civil
30.	Sh Gian Chand	Senior Technical Assistant	Electronics
31.	Sh Malkiat Singh - I	Senior Technical Assistant	Bio Technology

32.	Sh Jagir Singh	Senior Technical Assistant	Mechanical
33.	Sh Darshan Ram	Senior Technical Assistant	Computer Science
34.	Sh Nachhattar Singh	Technical Assistant	Chemistry
35.	Sh Paramjit Singh	Technical Assistant	Physics
36.	Sh Ajay Kumar	Technical Assistant	Instrumentation & Control Engg
37.	Mr Sukhminder Singh-II	Technical Assistant	Instrumentation & Control Engg
38.	Mr V N Khanna	Technical Assistant	ECE
39.	Sh Tirlok Kumar	Technical Assistant	Computer Centre
40.	Sh Pardeep Kumar	Technical Assistant	Computer Science
41.	Sh Gurnam Singh	Technical Assistant	Dispensary
42.	Mr Sudhir Kumar	Laboratory Assistant SG-I	Bio-Technology
43.	Mr Tarsem Lal	Laboratory Assistant SG-I	Chemical
44.	Sh Mohinder Pal	Laboratory Assistant SG-I	Industrial & Prod. Engg
45.	Sh Harendra Ram	Laboratory Assistant SG-I	Accounts
46.	Sh Kuldeep Singh	Laboratory Assistant SG-I	Electronics & Communication Engg
47.	Ms Manjeet Kaur	Laboratory Assistant SG-I	Computer Centre
48.	Sh Khushpal Singh	Laboratory Assistant SG-I	Civil Engg
49.	Sh Malkit Singh - II	Laboratory Assistant SG-I	Industrial & Prod. Engg
50.	Sh Gurmail Singh	Laboratory Assistant SG-I	Physics
51.	Sh Swinder Singh	Laboratory Assistant SG-I	Electronics & Communication Engg
52.	Ms Aruna Rani	Laboratory Assistant SG-I	Chemical
53.	Sh Rajinder Kumar	Laboratory Assistant SG-I	Electronics & Communication Engg
54.	Sh Harvinder Singh.	Laboratory Assistant SG-I	Bio-Technology
55.	Sh Sher Singh	Laboratory Assistant (SG-I)	Mathematics
56.	Sh Bikram Chand	Library Information Assistant	Computer Science & Engg
57.	Sh Davinder Kumar	Library Information Assistant	Library
58.	Sh Mani Ram Yadav	Library Information Assistant	Library
59.	Ms Jeevan Lata	Library Information Assistant	Library
60.	Sh Kulwinder Singh	Work Assistant, SG-I	Library
61.	Sh Rajinder Pathak	Technician SG-I	EPBAX
62.	Sh Manjit Singh - II	Technician SG-I	Estate Office
63.	Sh Joga Singh	Work Assistant (SG-I)	Estate Office
64.	Sh Balkar Singh	Technician SG-II	Estate Office
65.	Sh Shinder Pal Singh	Work Assistant Carpenter SG-I	Workshop

66.	Sh Avtar Chand	Work Asstt(Driver) SG - 1	Store
67.	Sh Satish Walia	Work Asstt(Driver) SG - 1	Store
68.	Sh Gurdeep Singh	Work Asstt(Driver) SG - 1	Store
69.	Sh Sant Singh	Work Asstt(Driver) SG - 1	Store
70.	Sh Rajbir Singh	Work Assistant –Guest House	Guest House
71.	Ms Shakuntla	Work Assistant/Technician-II	Accounts
72.	Sh R K Mishra	Work Assistant/Technician-II	Library
73.	Sh Vijay Kumar-II	Work Assistant/Technician-II	Estate Office
74.	Sh Dev Dutt	Work Assistant/Technician-II	Workshop
75.	Sh Bikram Singh	Work Assistant/Technician-II	Mechanical Engg
76.	Sh Daljit Singh	Work Assistant/Technician-II	Workshop
77.	Sh Ram Kirpal	Work Assistant/Technician-II	Academic
78.	Sh Sunil Kumar	Work Assistant SG-II	Electronics & Communication Engg
79.	Sh Jaswant Singh	Work Assistant SG-II	Library
80.	Sh Madan Lal	Work Assistant (SG-II)	Controller of Examination
81.	Sh Ramesh Chand	Work Assistant (SG-II)	Registrar Office
82.	Sh Ganesh Parsad	Work Assistant (SG-II)	Registrar Office
83.	Ms Soma	Work Assistant (SG-II)	Library
84.	Sh Ranbir Singh	Work Assistant (SG-II)	Central Workshop
85.	Sh Kulwant Rai	Laboratory Assistant (SG-II)	Computer Science
86.	Sh Arun Ram	Laboratory Assistant (SG-II)	Accounts
87.	Sh Mohd Alim	Laboratory Assistant (SG-II)	Electrical Engg
88.	Sh Shiv Kumar	Lab Assistant SG-II	Chemical Engg
89.	Ms Chhinderpal Kaur	Sr. Lab Assistant	Electronics & Communication Engg
90.	Sh Talwinder Singh	Technician SG-II	Computer Centre
91.	Sh Tejinder Singh	Senior Work Assistant	Store Section
92.	Sh J. S. Rana	Senior Work Assistant	Mathematics
93.	Sh Surinder Kumar	Work Assistant	Estate Office
94.	Sh Udhay Bhan	Senior Attendant (Sports)	Physical & Sports
95.	Ms Sunita Rani	Laboratory Assistant	Computer Science
96.	Sh Satish Kumar	Work Assistant	Estate Office
97.	Ms Sukhjit Kaur	Work Assistant (Nursing)	Dispensary
98.	Mr.Vijay Kumar – I	Laboratory Assistant SG-I	Humanity and Management
99.	Ms.Baljeet Kaur	Dresser	Dispensary

**DETAIL OF NON-TEACHING STAFF**

Sr No	Name of the post	Total No of Posts	Post Filled	Vacant	Remarks
1	Officer	29	3	26	
2	Ministerial Higher	45	43	2	
3	Ministerial Lower	30	10	20	
4	Technical Higher	86	39	47	
5	Technical Lower	83	58	25	
6	Supporting Staff	44	16	28	
Total		317	169	148	

**2.13 Notable Achievements**

(Details at sections 10)

**3.0 THE STAFF****3.1 Academic Staff (Teaching)**

(Details at sections 2.12)

**Faculty and staff** (Details at sections 2.12)**CENTRES and Other Facility** (Details at sections 9.0)**Hostel Administration**

There are 8 boys and 3 girls' hostels which are looked after by respective wardens. However, the overall administration rests with the chief warden. The hostel administration is looked after by the faculty as under:

Sr. No.	Name	Designation
1.	Dr. Anish Sachdeva,	Chief Warden
2.	Dr. Rizwan Khan	Deputy Chief Warden and Warden Hostel no. 7
3.	Dr. Sarbrinder Kaur	Deputy Chief Warden and Warden Girls Hostel No.-2
4.	Dr. Uma Shankar	Warden Hostel No. 1
5.	Dr. Shailendra Badhuria	Warden Hostel No.2
6.	Dr. Aditiya Parkash	Warden Hostel No.3
7.	Dr. Abhinav Partap Singh	Warden Hostel No. 4
8.	Dr. Kumar Parag	Warden Hostel No. 5
9.	Dr Harsh Manchanda	Warden Hostel no. 6
10.	Dr. Ashish Raman	Warden Mega Boys Hostel Block 'A'
11.	Dr. Parveen Malik	Warden Mega Boys Hostel Block 'B'
12.	Dr. Virender Singh	Warden Mega Boys Hostel Block 'F'
13.	Dr. Jaspreet Kaur	Warden Girls Hostel No.1
14.	Dr. Sangeeta Garg	Warden Mega Girls Hostel

**Dispensary**

The institute health needs were looked after by the medical staff as under:

Sr. No.	Designation	Actual
1	Medical Officer	01
2	Dresser	01
3	Lab Technician Health	01

**Estate office**

Sr. No.	Name	Designation
1	Dr Rizwan A Khan	Estate office Incharge

**3.2 Non-Academic Staff (Non-teaching)**

Detail at Section 2.12

**3.3 Training Status****3.4 Placement of staff for Academics excellence**

No provision for long leave but they are allowed for short duration courses.

**4.0 TEACHING PROGRAMMES****4.1 Courses Offered****Undergraduate Programmes****Four year Bachelor of Technology (B Tech) Programmes:**

- Bio Technology
- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Industrial and Production Engineering
- Instrumentation and Control Engineering
- Mechanical Engineering
- Textile Technology

**Post Graduate and Research Programmes:****Two year regular M Tech Programmes**

- Chemical Engineering
- Computer Science and Engineering
- Information Security
- Control and Instrumentation Engineering
- Electronics and Communication Engineering
- Manufacturing Technology
- Mechanical Engineering
- Structural and Construction Engineering
- Textile Engineering and Management
- VLSI

**Three and half year Part-time M Tech Programmes**

- Chemical Engineering
- Computer Science & Engineering
- Control and Instrumentation Engineering
- Industrial & Production Engineering
- Mechanical Engineering
- Structural and Construction Engineering
- Textile Technology

**Two-year regular M Sc Programmes**

- Chemistry
- Physics
- Mathematics

**Ph D Programmes**

The Institute offers Ph D programmes (Part Time and Full time) in all the departments in various disciplines.

**4.2 Degrees awarded**

Total Degree awarded	
B Tech	717
M Tech (full time)	186
M Tech (part time)	24
M.Sc	45
MBA	17
Ph.D	24

**Overall topper of B Tech 2011-2015**

S.No	Roll No	Name of student	CGPA	Branch
1.	11112011	Mr Anuj Gupta	9.12	ME

**LIST OF TOPPER 2011 -2015 BATCH**

S.No	Roll No	Name of student	CGPA	Branch
1.	11112011	Mr Anuj Gupta	9.12	ME
2.	11103024	Mr Himesh Kumar	9.06	CSE
3.	11113052	Mr Nitish Kumar	9.02	IPE
4.	11112010	Ms Anmol Gupta	8.95	CH
5.	11106053	Ramit Saluja	8.93	ICE
6.	11102066	Mr Ramesh Kumar	8.77	CE
7.	11111010	Ms Ishu Saini	8.68	BT
8.	11110073	Ms Shaivya	8.47	TT
9.	11104080	Mr Sparsh Jain	9.09	ECE

**LIST OF TOPPER 2013 -2015 BATCH- M Tech**

S.No	Roll No	Name of student	CGPA	Branch
1	13204018	Shafi M N	9.35	EC
2	13219004	Deep Shekhar	9.35	VLSI
3	13212017	Aanchal Mittal	9.02	CH
4	13217028	Gagan	9.00	SCE
5	13209023	Davinder Singh Bhogal	8.92	ME
6	13214005	Sneha Gupta	8.88	CI
7	13216021	Surinder Pal	8.86	MT
8	13203021	Shallu Sarvari	8.83	CS
9	13218008	Arpita Kothari	8.80	TT
10	13223004	Vikas Singh	8.77	IS

**LIST OF TOPPER 2013 -2015 BATCH- M.Sc**

S.No	Roll No	Name of student	CGPA	Branch
1	13320017	Alisha	9.12	Chemistry
2	13322003	Sarabjot Kaur	8.97	Physics
3	13321008	Preeti	8.93	Mathematics

**LIST OF TOPPER 2013 -2015 BATCH- MBA**

S.No	Roll No	Name of student	CGPA	Branch
1	13733010	Japneet Kaur	8.28	Master of Business Administration

**4.3 Admission Statistics – UG/PG Programmes, Course wise with sex, caste break up**

Students Intake- 2015-16										
Total Sanctioned intake of Students at UG & PG level*(category-wise)						Total Actual Admission at UG & PG level (category-wise)**				
Course / Category	Gen.	SC	ST	OBC	Total	Gen.	SC	ST	OBC	Total
PG	185	54	29	99	367	124	49	11	76	260
UG	397	118	59	212	786	333	111	49	202	695
Grand Total	582	172	88	311	1153	457	160	59	278	954



B.Tech Total Students Erolled During 2015-16 Batch																	
S. No	Branch	Intake	OP			OBC			SC			ST			TOTAL		
			B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
1	BT		07	5	12	7	4	11	4	2	06	1	00	01	19	11	30
2	CE		32	3	35	24	3	27	14	1	15	7	00	07	77	07	84
3	CSE		38	9	47	16	8	24	10	3	13	06	01	07	70	21	91
4	EC		33	15	48	18	7	25	11	3	14	06	01	07	68	26	94
5	IC		30	12	42	22	01	23	8	5	13	05	00	05	65	18	83
6	ME		46	1	47	22	2	24	12	00	12	07	00	07	87	03	90
7	TT		18	9	27	17	2	19	10	1	11	02	02	04	47	14	61
8	CH		25	13	38	19	05	24	10	4	14	04	01	05	58	23	81
9	IP		30	7	37	24	1	25	12	1	13	5	01	06	71	10	81
			259	74	333	169	33	202	91	20	111	43	6	49	562	133	695

M. Tech (Full-Time) Total Students Erolled During 2015-16 Batch																	
S. No:	Branch	Intake	OP			OBC			SC			ST			TOTAL		
			B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
1	CH		02	03	05	00	01	01	03	01	04	00	00	00	05	05	10
2	SCE		13	01	14	06	01	07	04	00	04	01	00	01	24	02	26
3	CSE		04	05	09	05	02	07	04	00	04	01	01	02	14	08	22
4	IS		01	03	04	00	00	00	01	00	01	01	00	01	03	03	06
5	EC		06	04	10	05	04	09	02	01	03	00	00	00	13	09	22
6	VLSI		02	03	05	01	01	02	02	00	02	01	00	01	06	04	10
7	MT		10	02	12	09	00	09	04	00	04	02	00	02	25	02	27
8	CI		05	03	08	07	00	07	02	02	04	01	00	01	15	05	20
9	ME		09	00	09	07	00	07	04	00	04	01	01	02	21	01	22
10	TT		05	02	07	01	04	05	03	02	05	01	00	01	10	08	18
			57	26	83	41	13	54	29	6	35	9	2	11	136	47	183

MBA Total Students Erolled During 2015-16 Batch																	
S. No:	Branch	Intake	OP			OBC			SC			ST			TOTAL		
			B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
1	MBA		06	04	10	02	01	03	02	00	02	00	00	00	10	05	15
Total			06	04	10	02	01	03	02	00	02	00	00	00	10	05	15

MSc Total Students Eroled During 2015-16 Batch																	
S. No:	Branch	Intake	OP			OBC			SC			ST			TOTAL		
			B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
1	CY		06	04	10	04	04	08	04	00	04	0	0	0	14	08	22
2	PHY		07	03	10	04	01	05	03	00	03	0	0	0	14	04	18
3	MA		08	03	11	06	00	06	03	02	05	0	0	0	17	05	22
Total			21	10	31	14	5	19	10	2	12	00	0	0	45	17	62

PhD (Full-Time) Total Students Eroled During 2015-16 Batch																	
S. No:	Branch	Intake	OP			OBC			SC			ST			TOTAL		
			B	G	T	B	G	T	B	G	T	B	G	T	B	G	T
1	CH		01	02	03	01	02	03	01	00	01	00	00	00	03	04	07
2	CE		00	01	00	00	00	00	00	00	00	00	00	00	00	01	01
3	CSE		00	01	00	00	00	00	00	00	00	00	00	00	00	01	01
4	EC		01	02	03	03	00	03	00	01	01	00	00	00	04	03	07
5	IP		00	00	00	01	00	01	02	00	02	00	00	00	03	00	03
6	IC		04	01	05	00	00	00	01	00	01	00	00	00	05	01	06
7	ME		07	00	07	00	00	00	02	00	02	00	00	00	09	00	09
8	CI		03	02	05	02	00	02	00	01	01	01	00	01	06	03	09
9	CY		01	04	05	00	00	00	00	01	01	00	00	00	01	05	06
10	PH		02	02	04	00	00	00	00	01	01	00	00	00	02	03	05
11	BT		00	01	01	01	00	01	00	00	00	00	00	00	01	01	02
12	HUM		00	04	04	01	00	01	00	00	00	00	00	00	01	04	05
Total			19	20	37	9	2	11	6	4	10	1	0	1	35	26	61

#### 4.4 The Hostels

There are 8 boys and 3 girls' hostels which are looked after by respective wardens. However, the overall administration rests with the chief warden.

#### 4.5 Scholarships/Assistance-ship

(Refer Annexure 11.9)

#### 4.6 Games and Sports

#### Faculty & Staff Faculty & Staff

Name	Designation	Qualification	E-Mail
Dr. G. S. Dhaliwal	Associate Professor & Head	B.A, D.P.Ed, M.P.Ed, N.I.S (Athletics) & Ph.D (GNDU)	dhaliwalgs@nitj.ac.in
Sh. S. K. Syal	Physical Training Officer	(D. P. Ed.)	Syal_59@yahoo.com

#### 1. SPECIAL REQUIREMENT FOR DEGREE

The students entering in the Institute are required to undergo the following non-credit mandatory requirements towards completion of their degree:-

1. **N.S.O. (National Sports Organization)**
2. **N.S.S. (National Service Scheme)**

**The students have to opt for one of these activities based on the enrolment procedure and their choice. A total of 100 hours of prescribed activities are to be completed after registration in the first year. In case the requirements are not met in the first year, the same shall be completed in the second year i.e. end of the 4<sup>th</sup> Semester. If a**

***student does not obtain a satisfactory grade in the respective registered course within the first two years of his/her stay at the Institute, he/she will not be registered for the higher semester after second year.***

The students will be satisfactorily allowed to register in sports activities of the institute for completing their National Sports Organization requirement in the first year.

Sports are an important activity for overall development of the students. It has to be carried out in order to promote spirit of Sportsmanship amongst the students and is essentially an activity, which encourages sense of healthy competition feeling of love and to work in unison. Further the sports calendar crowded with sporting games/events is promoting enthusiasm in the day-to-day campus life of the students. The Department of Physical Education and Sports is geared to achieve the following motives

- a) ***Healthy mind in a healthy body***
- b) ***Fit people Fit Nation***
- c) ***Make-sports a way of life***
- d) ***Fitness : " A Way of Positive Life "***
- e) ***Every human being has a fundamental right to access to physical education and sport, which are essential for the full development of his personality. The freedom to develop physical, intellectual and moral powers through physical education and sport must be guaranteed both within the educational system and in other aspects of social life.***

*By :- The UNESCO*

- f) ***Health and physical education and sports should be an integral part of the learning process and be included in the evaluation performance.***

*By :- The National Policy on Education*

The institute at present is providing facilities in number of outdoor and indoor games to be the budding engineering students.

## **2. OUTDOORS GAMES FACILITIES (BOYS & GIRLS)**

<b>SR. NO.</b>	<b>OUTDOOR GAMES</b>	<b>FACILITIES AVAILABLE</b>
1	Athletics	400 meter Standard Track & Field
2	Cricket	Standard Cricket ground
3	Football	Standard Football ground
4	Basket ball	Two Basket Ball Standard Cemented Courts with Full Flood Lights & Sitting Arrangement
5	Volley ball	Three Volleyball standard grounds with Full Flood Lights & Sitting Arrangement
6	Lawn Tennis	Two Lawn Tennis Cemented courts With Full Flood Lights

## **3. INDOOR GAMES FACILITIES (BOYS & GIRLS)**

<b>SR. NO.</b>	<b>INDOOR GAMES</b>	<b>FACILITIES AVAILABLE</b>
1	Badminton	Four Wooden Badminton Courts With Light, Sitting Arrangement and Specific Gym Equipments in Badminton Indoor Hall
2	Table Tennis	T.T. Table is available in each hostel in addition to that Six tables are available in the Indoor Badminton hall with Lights.
3	Carom	Covered space is available in each hostel in addition to that Carom Boards are available in the Indoor Badminton Hall with Lights.
4	Chess	Covered space is available in each hostel in addition to that Chess Boxes are available in the Indoor Badminton Hall with Lights.

## **4. WEIGHT TRAINING GYM. FACILITY**

1	Multipurpose Modern Weight Training facilities	Weight training gymnasium is available in the students Activity Centre, <b>fully equipped with Modern Weight Training equipments.</b>
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**5. UPCOMING GAME FACILITIES :-**

1. Synthetic Lawn Tennis Courts – Two
  2. Synthetic Basketball Courts – Two
  3. Synthetic (Y. Y. Yonex) Badminton Courts - Two
  4. Sports Stadium with Two Squash Courts, Shooting Range, Gymnasium Hall, Room's for Stay of outside teams and Office of Physical Education & Sports Deptt.
  5. Addition of Cricket & Football Play Grounds
  6. New Weight Training Gym with Modern Equipments
  7. Flood Lights for Athletics Track & Football Ground.
- 6. RESEARCH AND DEVELOPMENT**

The Faculty member of the deptt. are actively engaged in guiding research in the areas of Olympics games, Asian Games, Commonwealth Games, National Games, State Games, Inter-University Games, Inter-College Games (Men and Women) in the topic of comparative study, Analytical study, variables study, Low and High Performance Study, Kinanthropometric Study, Psychology Study, Physiology Study, Kingalogy Study, Heart Rate Variability Study, Measurement Study, Height Weight and Strength Study and Physical Fitness etc. in different games. Details of research contribution are as under :-

**(i) Research Paper Presentation in International Conference**

Name of the author (s)	Title of the Paper	Name of the Conference & Venue	Pages (from- to)	Date & Year
Dr. Gurmej Singh Dhaliwal	An Exploration of Speed Ability of Punjab and Haryana Boxers	International Conference on Scientific Culture in Physical Education & Sports Guru Nanak Dev University, Amritsar	57-59	Feb, 18-20 2016
Dr. Gurmej Singh Dhaliwal Dr. Amarjit Singh Gill Dr. Ranjeet Singh Sandhu	Evaluation of Physical Fitness Components Cricketers at different level of Competition	International Conference on Scientific Culture in Physical Education & Sports Guru Nanak Dev University, Amritsar	1401-1405	Feb, 18-20 2016
Dr. Ranjeet Singh Sandhu Dr. Amarjit Singh Gill Dr. Gurmej Singh Dhaliwal	Comparative Analysis of Selected Physical Fitness Components Among Inter College and Inter University Football Players	International Conference on Scientific Culture in Physical Education & Sports Guru Nanak Dev University, Amritsar	1431-1434	Feb, 18-20 2016

**7. SPORTS ACHIEVEMENTS AT INTER - NIT's , IIT's & UNIVERSITIES LEVEL**

Sr. No.	Name of Tournament	Game	Date	Position
1	Inter – Technology University Badminton (Boys) tournament held at PEC, Chandigarh	Badminton (Boys)	06/09/15 to 07/09/15	First Runner Up
2	Inter – Technology University Badminton (Girls) tournament held at PEC, Chandigarh	Badminton (Girls)	06/09/15 to 07/09/15	Winner
3	Inter – Technology University Chess (Boys) tournament held at NIT, Kurukshetra	Chess (Boys)	06/09/15 to 07/09/15	Third
4	Inter – Technology University Chess (Girls) tournament held at NIT, Kurukshetra	Chess (Girls)	06/09/15 to 07/09/15	Third
5	Inter – Technology University Volleyball (Boys) tournament held at NIT, Kurukshetra	Volleyball (Boys)	06/09/15 to 07/09/15	Winner
6	Inter – Technology University Volleyball (Girls) tournament held at NIT, Kurukshetra	Volleyball (Girls)	06/09/15 to 07/09/15	Third
7	Inter – Technology University Table Tennis (Boys) tournament held at PEC, Chandigarh	Table Tennis (Boys)	11/09/15 to 12/09/15	Third
8	Inter – Technology University Table Tennis (Girls) tournament held at PEC, Chandigarh	Table Tennis (Girls)	11/09/15 to 12/09/15	Third
9	National Level Sports Fest 'UDGHOSH 15' Basketball (Boys) Tournament held at IIT Kanpur	Basketball (Boys)	01/10/15 to 04/10/15	Third
10	National Level Sports Fest 'UDGHOSH 15' Basketball (Girls) Tournament held at IIT Kanpur	Basketball (Girls)	01/10/15 to 04/10/15	Fourth
11	Inter – Technology University Lawn Tennis (Boys) tournament held at Thapar University, Patiala	Lawn Tennis (Boys)	25/10/15 to 26/10/15	Third

12	Inter – Technology University Lawn Tennis (Girls) tournament held at Thapar University, Patiala	Lawn Tennis (Girls)	25/10/15 to 26/10/15	Third
13	Inter – Technology University Cricket (Boys) tournament held at Thapar University, Patiala	Cricket (Boys)	25/10/15 to 27/10/15	First Runner Up
14	Inter – Technology University Football (Boys) tournament held at NIT Kurukshetra	Football (Boys)	31/01/16 to 01/02/16	First Runner Up
15	Inter – Technology University Basketball (Boys) tournament held at NIT Kurukshetra	Basketball (Boys)	09/04/16 to 10/04/16	First Runner Up
16	Inter – Technology University Basketball (Girls) tournament held at NIT Kurukshetra	Basketball (Girls)	09/04/16 to 10/04/16	First Runner Up
17	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	Discuss Throw	15/04/16 to 16/04/16	Gold Medal
18	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	Javelin Throw	15/04/16 to 16/04/16	Gold Medal
19	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	Athletics 400 m	15/04/16 to 16/04/16	Silver Medal
20	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	Long Jump	15/04/16 to 16/04/16	Silver Medal
21	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	Javelin Throw	15/04/16 to 16/04/16	Silver Medal
22	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	High Jump	15/04/16 to 16/04/16	Silver Medal
23	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	4 x 400 m Relay Race	15/04/16 to 16/04/16	Silver Medal
24	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	Discuss Throw	15/04/16 to 16/04/16	Silver Medal
25	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	4 x 100 m Relay Race	15/04/16 to 16/04/16	Silver Medal
26	Inter Technology Athletics Meet (Boys) held at Thapar University, Patiala	4 x 100 m Relay Race	15/04/16 to 16/04/16	Bronze Medal
27	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	Athletics 400 m	15/04/16 to 16/04/16	Bronze Medal
28	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	Athletics 800 m	15/04/16 to 16/04/16	Bronze Medal
29	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	Discuss Throw	15/04/16 to 16/04/16	Bronze Medal
30	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	Shot Put	15/04/16 to 16/04/16	Bronze Medal
31	Inter Technology Athletics Meet (Girls) held at Thapar University, Patiala	4 x 400 m Relay Race	15/04/16 to 16/04/16	Bronze Medal

#### 8. INTER – YEAR TOURNAMENTS

Sr. No.	Name of Game	Date	Year	Position
1	Inter Year Badminton (Boys) Tournament	22/09/2015 to 24/09/2015	Second Year Third Year Final Year	Winner Runner-up Third
2	Inter Year Volleyball (Boys) Tournament	22/09/2015 to 24/09/2015	Final Year First Year Second Year	Winner Runner-up Third
3	Inter Year Volleyball (Girls) Tournament	22/09/2015 to 24/09/2015	Third Year Final Year Second Year	Winner Runner-up Third
4	Inter Year Table Tennis (Boys) Tournament	06/10/2015 to 08/10/2015	First Year Second Year Third Year	Winner Runner-up Third
5	Inter Year Table Tennis (Girls) Tournament	06/10/2015 to 08/10/2015	Third Year First Year Final Year	Winner Runner-up Third
6	Inter Year Chess (Boys) Tournament	06/10/2015 to 08/10/2015	Second Year Final Year First Year	Winner Runner-up Third
7	Inter Year Lawn Tennis (Boys) Tournament	03/11/2015 to 05/11/2015	Third Year Final Year Second Year	Winner Runner-up Third

8	Inter Year Lawn Tennis (Girls) Tournament	03/11/2015 to 05/11/2015	Third Year First Year Final Year	Winner Runner-up Third
9	Inter Year Basketball (Boys) Tournament	18/04/2016 to 20/04/16	Third Year Final Year First Year	Winner Runner-up Third

**9. INTER – BRANCH TOURNAMENTS**

Sr. No.	Name of Game	Date	Branch	Position
1	Badminton (Boys) Tournament	18/08/2015 to 20/08/2015	IPE ME CHE	Winner Runner-up Third
2	Badminton (Girls) Tournament	18/08/2015 to 20/08/2015	ICE TXT CSE	Winner Runner-up Third
3	Volleyball (Boys) Tournament	18/08/2015 to 20/08/2015	ICE EE IPE	Winner Runner-up Third
4	Volleyball (Girls) Tournament	18/08/2015 to 20/08/2015	CHE ICE Bio-Tech	Winner Runner-up Third
5	Table Tennis (Boys) Tournament	25/08/2015 to 27/08/2015	ME CHE Civil	Winner Runner-up Third
6	Table Tennis (Girls) Tournament	25/08/2015 to 27/08/2015	Civil IPE CSE	Winner Runner-up Third
7	Chess (Boys & Girls, Mix) Tournament	25/08/2015 to 27/08/2015	Civil ME CHE	Winner Runner-up Third
8	Cricket (Boys) Tournament	08/09/2015 to 10/09/2015	Civil CSE IPE	Winner Runner-up Third
9	Lawn Tennis (Boys) Tournament	08/09/2015 to 10/09/2015	Elec CHE CSE	Winner Runner-up Third
10	Lawn Tennis (Girls) Tournament	08/09/2015 to 10/09/2015	CHE BIO ICE	Winner Runner-up Third
11	Basketball (Boys) Tournament	15/09/2015 to 17/09/2015	ECE ME CSE+CHE	Winner Runner-up Third
12	Football (Boys) Tournament	15/09/2015 to 17/09/2015	CSE+TT+IT BIO+ICE+ECE ME+IPE+Mining	Winner Runner-up Third

**10. ANNUAL TOURNAMENTS**

Sr. No.	Name of Game	Date	Name of Team	Position
1	Super 9 Cricket Tournament (Boys)	23-24 Jan, 2016 & 26 Jan, 2016	Thunderbirds Herculians Sharifs	Winner Runner- up Third
2	Futsal '5'	26/02/2016 To 28/02/2016	Wallcott VIII Nikhil the Manager Northeast United	Winner Runner- up Third
3	Basketball Super '7'	12/03/2016 To 15/03/2016	Arun Rana Team Monal Team Jasmine Team	Winner Runner- up Third
4	Badminton League NITJ	11/04/2016 To 13/04/2016	Aditya Team Prince Team Prabhnoor Team	Winner Runner- up Third
5	Mix Volleyball Tournament	19/04/2016 To 21/04/2016	Team Kavin Team Gaurav Team Manjinder	Winner Runner- up Third

## 11. ATHLETICS FEST 2015-16

The Athletics Fest of the Institute was organized from 04-05 March, 2016. In all, 12 formal events for Boys, 10 events for Girls and Special Events for Boys & Girls were held. **Dr. Arvind Agnihotri**, Acting Director of the Institute as a Chief Guest inaugurated the fest on 04 March, 2016.

**Mr. Vinay Singh Rana** 2<sup>nd</sup> year student, Department of Chemical Engineering and **Ms. Sukeerat Kaur** Final year student Department of Industrial and Production Engineering were adjudged the Best Athletes. *At the time of closing ceremony Director NITJ, Dr. Arvind Agnihotri was chief guest. Medals and Trophies were given by Worthy Director to the winners.*

### Overall Team Championship Result's of Annual Athletics Fest :

<b>1<sup>st</sup> Place</b>	:	<b>Third year with 78 Points</b>	----	<b>Champion</b>
<b>2<sup>nd</sup> Place</b>	:	<b>First year with 71 Points</b>	----	<b>Runner-up</b>
<b>3<sup>rd</sup> Place</b>	:	<b>Second year with 36 Points</b>	----	<b>Third Position</b>

### 4.7 Awards

One Chairperson's Gold Medal and nine institute silver medals were given at the Convocations to the topper students.

### 4.8 Examination Details

The academic system at NIT, Jalandhar is framed on a credit based semester examination system. The credit system envisages a continuous evaluation of student's performance, and provides flexibility for academic progress at an optimum pace based on individual ability and convenience, subject to the constraint of the minimum requirements for continuation in the academic programme.

The student is awarded a letter grade from the prescribed grading system in each course registered by him. For each pass grade, the students accumulate the course credits as earned credits. The academic performance of the student is indicated in terms of the number of credits that he/she earns and the weighted grade point average. A specified minimum number of credits should be acquired on semester or session basis in order to qualify for continuation in the academic programme and the award of degree.

### Credits

Each lecture/tutorial hour per week per semester is assigned one credit. Each laboratory hour per week per semester is assigned half credit. However, some courses are preparatory in nature and have half the credit weightage of a normal course. The courses without credit are termed as noncredit (NC) courses.

### Grades

In grading system, the evaluation in terms of marks is replaced by the award of letter grades. The structure and guidelines for award of grades is given.

Grade	Points	Description of Performance	Recommended Cut Off marks *
S	10	Outstanding	90
A	09	Excellent	80
B	08	Very Good	70
C	07	Good	60
D	06	Average	50
E	05	Marginal	40
U	-	Unsuccessful	-
I	-	Incomplete	-
W	-	Withheld due to shortage of attendance or withdraw	-
NP	-	Audit Pass	-
NF	-	Audit Fail	-

Subject to confirmation based on standard deviation, if the sample size is greater than 20, and is flexible to the recommendation of the individual course coordinators with proper justification.

The grades will be awarded to a student in each registered course including a laboratory course, based on his/her performance evaluated through a prescribed scheme of evaluation. In theory courses the evaluation is weighted on class tests, tutorial work, home assignment and semester examinations in prescribed proportions. The recommended weightage for class tests is 30%-40%, assignments/tutorial work is 10%-20% and End Semester Exam is 50%. In the laboratory and practical classes, it would be weighted equally on the basis of regular practical work and an examination conducted for the purpose. The credits for the courses in which a student has obtained "E" (minimum passing grade for a course) or a higher grade will be considered as credits earned by him/her. In addition, courses up to a maximum of 8 credits in case of B Tech students in which a student has got "NP" grade will also count towards his/her earned credits. Any course in which a student obtained "W" or "NF" grade will not be counted towards his/her earned credits.

For the other (elective) courses in which "U" or "W" grade have been obtained, the student may take the same course or any other course from the same category when it is offered next. Further, "U" grades secured in any course stay permanently on the grade card. The weightage of these grades is not counted in the calculation of the SGPA and CGPA.

An "I" grade denotes incomplete performance in any course due to absence at the end of semester. Upon completion of all course requirements, the "I" grade is converted to a regular grade.

These grades (NP and NF) are awarded in a course that the student opts to audit. Audit applications are allowed during the first four weeks of a semester. The audit pass (NP) grade is awarded if a minimum "E" grade is obtained in the course and attendance is above 75% in the classes. If either of these requirements is not fulfilled, the audit fail (NF) grade is awarded. In courses, where NP grade is obtained, the corresponding course credits are counted towards earned credits. The grades obtained in an audit course are not considered in the calculation of SGPA or CGPA.

A "W" grade is awarded in a course where the student has opted to withdraw from the course. Withdrawal from a course is permitted until one week after the class test-I.

### Grade Point Averages

The performance of a student will be evaluated in terms of two indices, viz. the Semester Grade Point Average (SGPA) which is the Grade Point Average for a semester and Cumulative Grade Point Average (CGPA) which is the Grade Point Average for all the completed semesters at any point of time. The SGPA is calculated on the basis of grades obtained in all courses, except audit courses, registered for in the semester.

$$\text{SGPA} = \frac{(\text{Course credits} \times \text{Grade point}) \text{ except audit courses}}{(\text{Course credits}) \text{ except audit courses Sem.}}$$

The CGPA is calculated on the basis of all pass grades, except audit courses obtained in all completed semesters.

$$\text{CGPA} = \frac{(\text{Course credits} \times \text{Grade point}) \text{ for courses with pass grade except audit Sem. courses}}{(\text{Course credits}) \text{ of courses with pass grade except audit courses Sem.}}$$

### Degree Requirements

For obtaining a degree in a 4 year B Tech programme, the following requirements are to be satisfied:-

1. Earn required 200 credits in all
2. Obtain a minimum Cumulative Grade Point Average (CGPA) of 5.0
3. Complete the requirements of all courses under different categories as prescribed in the Syllabi.
4. Complete the prescribed practical training satisfactorily.
5. Complete the requirement of attending NCC/NSS/NSO activities in their first year or at best by the end of 2<sup>nd</sup> year (4<sup>th</sup> semester) satisfactorily.
6. Must have earned the pass grade in discipline courses.

### Rules and Regulations for B. Tech Programmes

#### Registration

Registration is an important procedural part of the academic system which ensure the willingness of the student to continue in the course of study in the institute. No credit is given to the student who attends a course without a formal registration. The name of the registered student only appears on the roll list of the courses registered. Pre-registration for each semester will be done according to a specified schedule prior to the end of the previous semester and paying the requisite tuition fee to the institute. In absentia registration will be allowed only in rare cases at the discretion of Dean (Academic Programme). In case of illness or absence during registration, the student should intimate the same to the Dean (Academic Programme). Each student will be given a Registration Record which will be an official record of courses registered. Add, Drop, Withdrawal and Audit will be marked on



this sheet itself by the Academic Section. The Registration Record should be retained by the student until he/she gets the Semester Grade Card for the corresponding semester.

### **Advice on Courses**

At the time of completing the Registration Form, each student should consult his/her HOD concerned to finalize the academic programme, keeping in view minimum/maximum numbers of total and lecture credits, past performance, backlog of courses, SGPA/CGPA, workload and students interests. Special provisions exist for academically weak students.

### **Limits on Registered Credits**

A student must register for a minimum of 15 credits and a maximum of 30 credits in a semester wherein theory credits registered by a student should not be less than 9 credits. There is a minimum number of student registration required to run an elective course and will be decided by the department concerned from time to time.

### **Late Registration**

1. For those students who were not on campus during the period of registration in the previous semester, registration procedure will be completed on a later date with permission of the Dean, Academic Programmes.
2. For reasons beyond his/her control, if a student is not able to register or send an authorized representative with a medical certificate, he/she may apply to the Dean (Academic Arrairs) for late registration. The Dean will consider and may approve late registration in genuine cases on payment of an extra fee of Rs.500/-. Late registration is allowed until one week after the start of the semester.

### **Addition, Deletion, Audit and Withdrawl from Courses**

1. Add and Drop: A student has the option to add or delete courses from his/her registration during the first week of the semester.
2. Audit: A student may also apply for changing a credit course to an audit one within one week of the end of the first class test.
3. Withdrawal: A student who wants to withdraw from a course should apply on a prescribed form within one week of the end of the first class test. A withdrawal grade (W) will be awarded in such cases.

### **Attendance Requirement**

1. All students must attend every lecture, tutorial and practical class. However, to account for late registration, sickness or other such contingencies, the attendance requirement will be a minimum of 75% of the scheduled classes.
2. A student with less than 75% attendance in a course during a semester, will be awarded a W grade in that course irrespective of his/her performance in the tests. The Course Coordinator, while awarding the grades, will take into account the consolidated attendance record for the whole semester. Students who are deficient in attendance shall be awarded W grade, by the course coordinator.
3. In order to maintain the attendance record of a particular course, a roll call will be taken in every scheduled lecture, tutorial and practical class.
4. For the purposes of attendance, every scheduled practical class will count as one unit irrespective of the number of contact hours
5. The Course Coordinator will consolidate the attendance record for the course from the beginning of the semester up to class test-I to class test-II and to the end of the semester. The teacher offering the course shall notify the students having less than 75% attendance with an intimation of the same to the concerned Head of the Department and Dean (Academic Programmes).
6. Every faculty offering a course will take attendance till three calendar days before the last instruction day in the semester. The percentage of attendance, calculated up to this instruction, will be indicated in a code number/letter as follows: Attendance rounded to Code No/letter 95% and above H 85% to 94% 9 75% to 84 % 8 Below 75% L A student who has attendance code letter L will not be allowed to sit for end semester examination in the course in which the short fall exists.

### **Absence during the Semester**

1. A student must inform the Dean (Academic Affairs) immediately of any instance of continuous absence from classes.
2. A student who is absent due to illness or any other emergency, up to a maximum of two weeks, should approach the Course Coordinator for make-up in quizzes, assignments and laboratory work.
3. A student who has been absent from a class test due to illness should approach the Course Coordinator for a make-up test on return to class. This request should be supported with a Medical Certificate from the Institute Medical Officer. A Certificate issued by a registered medical practitioner will also be

acceptable in those cases where a student is normally residing off-campus; in such cases the registration number of medical practitioner should explicitly appear in the medical certificate. Prior to approaching the Course Coordinator, the student must file a copy of the medical certificate with the Academic Section.

4. In case of absence on Medical grounds or other special circumstances, before or during the end semester examination, the student can apply for I-grade. 75% attendance in a course is necessary for being eligible for request of I-grade in that course. An application requesting an I-grade should be made at the earliest, but not later than the last day of the end semester examination. This application should be made to the concerned Head of Department, depending on the merits of the case, will grant the approval. The Head of the concerned Department will inform all the concerned Course Coordinators and Dean (Academic Programmes). The student should, subsequently, complete all course requirements according to the prescribed schedule.
5. In special situations arising due to the student's inability to be present at the institute during the stipulated period, the period for conversion of I grade can be extended to the beginning of the next semester. Approval for this extension is granted by Dean (Academic Programmes), on the recommendations of the concerned Head of the Department of the student, the Course Coordinator(s), and the Chief Warden in case of a boarder. A request to this effect should be included in the application for I-grade.
6. In case the period of absence on Medical grounds is more than 20 working days during the semester, a student may apply for withdrawal from the semester i.e. withdrawal from all courses registered in that semester. Such an application must be made as early as possible and latest before the start of the end semester examinations. No application for semester withdrawal will be considered after the end semester exams have commenced. Each application for semester withdrawal will be examined by the Dean (Academic Programmes) and depending on the merit of the case an appropriate recommendation will be made. Partial withdrawal from courses registered in a semester is not allowed.

#### 4.9 Training and Placement

(Annual Report: Year 2015-16)

The Centre of Training & Placement of Dr.B.R.Ambedkar National Institute of Technology, Jalandhar, which started its activities in Dec., 1990 serves as a Central facility for all the Departments.

##### FACULTY

S.No.	Name	Designation	Qualifications
1.	Dr. Arvind Bhardhwaj	Professor & Head	Ph.D.
2.	Dr. Rajeev Trehan	Asstt. Professor	Ph.D.

\*Dr Arvind Bhardwaj is a Professor in Department of Industrial & Production Engineering.

##### A. PLACEMENT OF FINAL YEAR STUDENTS (2015-2016 Batch)

Campus Interviews were arranged for the final year B.Tech. students. A large number of reputed Industrial houses in the country visited the Institution and selected the final year students as Engineers/Management Trainees. Some of the Companies invited the students to their Corporate Offices for the interviews.

Discipline	No. of Eligible Students	No. of Job Offers	No. of Double Job offers	No. of Students Placed	Minimum Package	Maximum Package	Average Package
ECE	75	78	17	61	3.2 Lac (Way2capital)	27 Lac (Amazon.in)	5.52 Lac
CSE	74	73	7	66	3.2 Lac (Way2capital)	35 Lac (Works Applications)	9.1 Lac
CHE	72	48	3	45	3 Lac (Atotech)	15 Lac (Trident Group)	4.93 Lac
ICE	64	54	8	46	3.2 Lac (Way2capital)	9.2 Lac (Future First)	4.2 Lac
CIVIL	75	59	13	46	3.2 Lac (Way2capital)	9.2 Lac (Future First)	4.48 Lac
IPE	65	36	2	34	3.15 Lac (TCS)	15 Lac (Trident Group)	5.14 Lac
ME	69	62	13	49	3.18 Lac (Infosys)	7.20 Lac (Vedanta)	5.01 Lac
BT	26	17	1	16	3.2 Lac (Way2capital)	5.5 Lac (Aqinsights)	3.38 Lac
TT	48	18	1	17	3.2 Lac (Way2Capital)	15 Lac (Trident Group)	5.78 Lac
Total	568	439	64	375			

Highest Pay package = Lacs by Amazon.in.

**The following Industrial houses have visited the Institute for 2015-2016 batch**

- |                                       |   |                                 |
|---------------------------------------|---|---------------------------------|
| • Amazon.com                          | • Saint Gobain                              | • Gurudatta                     |
| • Practo Technologies                 | • Roots Analysis Pvt. Ltd.,                 | • Samtel Group                  |
| • Future First Info Services Pvt. Ltd | • virtusa                                   | • Pradan                        |
| • EXL Services                        | • Bombardier Transportation India Pvt. Ltd. | • Jubilant                      |
| • ITC Limited                         | • Play Buff Studios Pvt. Ltd.               | • Reliance                      |
| • Power2SME                           | • Avanti                                    | • Way2Capital                   |
| • Maruti Suzuki                       | • IVP                                       | • Info objects                  |
| • Directi                             | • Technip                                   | • Reliance chemicals            |
| • Drishti Soft                        | • Hero Moto Corp.                           | • Lafarge                       |
| • Axtia                               | • Sap labs                                  | • Sterlite                      |
| • Ericsson                            | • Lava                                      | • DM Consulting                 |
| • Infodege India Limited              | • Anglo Eastern Ship Management Ltd.        | • Smart Prix                    |
| • Mu-sigma                            | • Jaya Shree Textiles                       | • HALDIA                        |
| • Jugnoo                              | • Hero Moto Corp                            | • GASL                          |
| • Aqinsights                          | • Vedanta                                   | • Capitalvia                    |
| • Intellect design Polaris Group      | • Ashok Leyland                             | • Shopclues                     |
| • Grofers                             | • Resonance                                 | • C-Dot                         |
| • Nagarro                             | • Schneider-electric                        | • Atotech Pool                  |
| • Alstom                              | • Ais Glass                                 | • Shapoorji Pallonji            |
| • Tata Consultancy Services           | • A.K Vidyamandir                           | • Newgen                        |
| • Infosys                             | • Honda Car                                 | • Cadence                       |
| • Capgemini                           | • Wels pun                                  | • IGL (Inderprasth Gas Limited) |
| • Sapient Netro                       | • Kota Experts                              | • Code Brow labs                |
| • Indian Navy                         | • IOLCP                                     | • Indiamart                     |
| • Tata Motors                         | • DS Group                                  | • Aagaz Education               |
| • Oxigen                              | • Varun Beverages                           | • ITDC                          |
| • Trident                             | • KEC International                         | • Afcons                        |
| • SML (Swaraj Mazada Ltd.)            | • Amdocs                                    | • Sokrati                       |
| • L&T ECC Construction                | • Aakash Institute                          | • Edynamics                     |
| • Siemens                             | • Sun pharma                                | • Edelweiss                     |
| • Steel Strips Wheels Ltd.            | • Mahindra & Mahindra                       | •                               |

**B. INDUSTRIAL SUMMER TRAINING OF STUDENTS**

In the year 2017, 850 students in the various disciplines have been sent to various Industries of repute in different parts of the country for two months practical training from May to July 2017. Arranging the training involved close interaction with the concerned Industry, the preparation for which started much in advance. After the completion of training, each student will be evaluated on the basis of various evaluation components – Seminar, Group discussion, Daily diary, viva voce examination (Internal & External).

**Prominent Industries and Research Centers for Industrial Practical Training:**

The list of prominent industries and research centers where students have undergone Practical training during last couple of years are the following:

- ❖ Aarti International Ltd.
- ❖ Accenture Services Pvt. Ltd
- ❖ Advance Technology Pvt. Ltd.
- ❖ Afcons Infrastructure Limited
- ❖ Airports Authority of India
- ❖ AKS IT Services Pvt. Ltd.,
- ❖ Alcatel India
- ❖ All India Institute of Medical Science
- ❖ Alok Industries
- ❖ Alstoms Projects India Pvt. Ltd.
- ❖ Ambuja Cement
- ❖ Anest Iwata Mortherson Ltd.
- ❖ Arikav Fab Pvt. Ltd.
- ❖ Arvind Mills Ltd.
- ❖ Asea Brown Boweri
- ❖ Ashok Leyland
- ❖ Asian Paints
- ❖ Associated Cement Companies Ltd.
- ❖ Auro Dyeing
- ❖ Auro Spinning Mills
- ❖ Avake Technology (I) Pvt. Ltd.
- ❖ Avents Pharma Ltd.
- ❖ AVP Construction
- ❖ Bajaj Tempo
- ❖ Ballarpur Industries Limited
- ❖ Bawa Skin Company
- ❖ BFL, Bharat Heavy Electricals
- ❖ Bhabha Atomic Research Centre
- ❖ Bharat Electronics Limited
- ❖ Bharat Heavy Electricals Ltd.
- ❖ Bharat Petro Chemical Ltd.
- ❖ Bharat Sanchar Nigam Ltd.
- ❖ Bharti Systels
- ❖ Bharti Airtel Ltd.
- ❖ Bharti Teletech Limited
- ❖ Bhilai Steel Plant,
- ❖ Birla Technical Services
- ❖ BL Kashyap Construction Limited
- ❖ British Oxygen Company Ltd.
- ❖ Cadence Design Systems
- ❖ C-DOT
- ❖ CE Info Systems (P) Ltd.
- ❖ Central Electronics Engg. Research Institute
- ❖ Central Leather Research Institute
- ❖ Central Public Works Department
- ❖ Central Public Works Department
- ❖ Central Scientific Instruments Organisation
- ❖ Centre for Electronics Designing Technology of India
- ❖ Centre for Artificial Intelligence & Robotics
- ❖ Chawla Tanneries Pvt. Limited
- ❖ Clariant (I) Ltd.
- ❖ CMC Ltd.
- ❖ Compro Technologies Pvt. Ltd.
- ❖ Continental Device India
- ❖ Converge Labs Corporation
- ❖ Cummins India Ltd.
- ❖ Daffodil Software Ltd.
- ❖ Daurala Organics Ltd.
- ❖ Defence Research & Development Organization
- ❖ Diac Spaa Technologies Pvt. Ltd.
- ❖ DLF Limited
- ❖ Dr.Reddys Labs Ltd.
- ❖ Durgapur Steel Plant
- ❖ Eicher Motors Ltd.
- ❖ Eicher Tractors
- ❖ EKO India Financial Services Pvt. Ltd.
- ❖ Engineers India Ltd.
- ❖ Escom Consultants Pvt. Limited
- ❖ Escorts Mahle
- ❖ Eveready Industries
- ❖ Forms & Gears
- ❖ Fortel Jain Projects Pvt. Limited
- ❖ Freescale Semiconductor India Pvt. Ltd.
- ❖ Gammon India Ltd.
- ❖ Garg Acrylics Ltd.
- ❖ Global Mobile Infrastructure Pvt. Limited
- ❖ Goetze (India) Ltd.
- ❖ Grasim Industries
- ❖ Grauer & Well India Ltd.
- ❖ Grindwell Norton
- ❖ Gujarat State Electricity Corporation Ltd
- ❖ Gupta Construction Pvt. Ltd.
- ❖ Hankel Teroson India Ltd.
- ❖ Havells India Pvt. Ltd.
- ❖ HCL Comnet
- ❖ HCL Infosystems
- ❖ HCL Technologies Ltd.
- ❖ Heavy Engg. Corporation Ltd.
- ❖ Hero Honda Motors
- ❖ Hewlett Packard
- ❖ Hindustan Aeronautics Ltd.
- ❖ Hindustan Machine Tools
- ❖ Hindustan Motors Ltd.
- ❖ HLS Asia Ltd.
- ❖ Honda Siel Cars India Ltd.
- ❖ Hutch Essar South Ltd.
- ❖ i2 Technologies India Pvt. Ltd.
- ❖ India Sugar and General Engg. Corporation
- ❖ Indian Airlines
- ❖ Indian Institute of Petroleum
- ❖ Indian Oil Corporation Ltd.
- ❖ Indian Petrochemicals Corporation Ltd.
- ❖ Indian Telephone Industries Ltd.
- ❖ Infinite Computer Solutions (I) Ltd.
- ❖ Interra Systems India Pvt. Ltd.
- ❖ ITC Ltd
- ❖ J C T , Phagwara
- ❖ J.K. Industries
- ❖ Jagatjit Industries Ltd.
- ❖ Jaiprakash Associates Limited
- ❖ JAIV Technologies Pvt. Ltd.
- ❖ Jayshree Textiles
- ❖ K.K. Tanner's
- ❖ Khanna Paper Mills
- ❖ Kollace
- ❖ Kota Thermal Power Corporation
- ❖ Krebs Biochemicals
- ❖ Kwaliti Photonics Pvt. Ltd.
- ❖ Larsen & Toubro Ltd.
- ❖ Leader Valves Ltd.
- ❖ LG Electronics India Pvt. Ltd.
- ❖ Madura Garments Exports Ltd.
- ❖ Mahindra & Mahindra Ltd
- ❖ Maruti Suzuki India Ltd.
- ❖ Maruti Udyog Ltd.
- ❖ MECON India Ltd.
- ❖ Metro Railway
- ❖ MICO
- ❖ Microsoft IT Ltd.

- ❖ Millennium Construction Pvt. Limited
- ❖ Mind Q Systems Pvt. Ltd.
- ❖ Mindarika Pvt. Ltd.
- ❖ MoMagic Technologies Pvt. Ltd Steel Authority of India Limited
- ❖ Subros Ltd.
- ❖ Syngenta India Ltd.
- ❖ Tata Consultancy Services Ltd.
- ❖ Tata Honeywell
- ❖ Tata Infotech Ltd.
- ❖ Tata Institute of Fundamental Research
- ❖ Tata International Ltd.
- ❖ Tata Motors Ltd.
- ❖ Tata Teleservices Ltd.
- ❖ Telecommunications Consultants India Ltd.
- ❖ Telemune Software Solutions Pvt. Ltd.
- ❖ Tellabs Communication
- ❖ Texas Instruments
- ❖
- ❖ Morpen Laboratories
- ❖ Motherson Sumi
- ❖ Motorola India Pvt. Ltd.
- ❖ N.S. Associates Pvt. Ltd.
- ❖ Nagarro Software Ltd.
- ❖ Nahar Industrial Enterprises Ltd.
- ❖ National Aviation Company of India Ltd.
- ❖ National Engg. Industries.
- ❖ National Fertilizers Ltd.
- ❖ National Highway Authority of India
- ❖ National Informatics Centre
- ❖ National Productivity Council
- ❖ Nestle India Ltd.
- ❖ Netweb Technologies
- ❖ New Holland Tractors
- ❖ NIIT Technologies Ltd.
- ❖ Nirma
- ❖ NISTADS
- ❖ Nokia Siemens Networks Private Ltd
- ❖ OCM India Ltd
- ❖ Oil and Natural Gas Corporation Ltd.
- ❖ Okaya Industries
- ❖ Oracle Financial Services Software Ltd
- ❖ Orient Craft Ltd
- ❖ Orion Holiday Resorts Ltd.
- ❖ Paharpur Cooling Towers Limited
- ❖ Patni Computers
- ❖ PFIZER
- ❖ Polaris Software Labs Ltd.
- ❖ Power Grid Corporation of India Ltd.
- ❖ Precision Tech Enterprises
- ❖ Punj Lloyd Ltd.
- ❖ Punjab Communications Ltd.
- ❖ Punjab Remote Sensing Centre
- ❖ Punjab Tractors Ltd.
- ❖ Purolator India
- ❖ Quick Logic Controls
- ❖ Rail Coach Factory
- ❖ Ranbaxy Laboratories Ltd.
- ❖ Raymond Ltd.
- ❖ Reliance Engg. Associates Pvt. Ltd.
- ❖ Reliance Industries
- ❖ Reliance Infocomm Ltd.
- ❖ Rieter LMW
- ❖ RITES Ltd.
- ❖ Rockwell Automation India Ltd.
- ❖ Royal Sales Corporation
- ❖ Ruchi Soya Industries Limited
- ❖ Safaltek Software Pvt. Ltd
- ❖ Saha Institute of Nuclear Physics
- ❖ Sarup Tanneries Ltd.
- ❖ SEL Manufacturing Co. Ltd
- ❖ Semiconductor Complex Ltd.
- ❖ Shriram Group
- ❖ Siemens Public Communications Networks Pvt. Ltd.
- ❖ Simon Carves India Ltd.
- ❖ Solid State Physics Laboratory
- ❖ Sona Koya Steering Systems
- ❖ Southern Railways
- ❖ SPANN Ltd.
- ❖ Spice Net Ltd.
- ❖ SPL Industries Ltd.
- ❖ Sporting India Ltd.
- ❖ ST Microelectronics
- ❖ TriCAD Design Consultants Pvt. Ltd.
- ❖ Trident
- ❖ TVS Infotech
- ❖ TVS Suzuki
- ❖ U.P. State Bridge Corporation Ltd.
- ❖ Vardhman Textiles Ltd.
- ❖ Virtual Solutions Ltd.
- ❖ Volvo India Ltd.
- ❖ Walchemist Pvt. Ltd.
- ❖ Wep Peripherals Ltd.
- ❖ Whirlpool
- ❖ Winsome Textile
- ❖ Winsome Yarns Limited
- ❖ Wipro Infotech Ltd.
- ❖ Xansa
- ❖ Yamaha Motor India Pvt. Ltd.

## 5.0 RESEARCH AND DEVELOPMENT ACTIVITIES

### 5.1 Ph.D Programmes- Existing and Proposed

Existing Ph.D Programmes
Bio Technology
Chemistry
Mathematics
Physics
Chemical and Bio Engineering
Civil Engineering
Computer Science and Engineering
Electronics and Communication Engineering
Industrial Engineering
Instrumentation and Control Engineering
Textile Technology
Management

5.2 Details of Ph. D done so far: 107

### 5.3 Proposed Plan for research

Interdisciplinary Research and Development Centre is being set up for which space and finance is has been sanctioned.

5.4 Institute- Industry Collaboration NIL

### 5.5 Innovations and Technology transfer

Department is planning to tie up with other institutes and renowned industries under TIFAC for new innovative ideas and technology transfer.

## 6.0 THE COUNCIL, BOG AND OTHER COMMITTEES

6.1 Institute's Council  
(Refr Annexure 11.1)

6.2 Board of Governors  
(Refr Annexure 11.2)

6.3 Finance Committee  
(Refr Annexure 11.3)

6.4 Building & Works Committee  
(Refr Annexure 11.3)

6.5 SENATE  
(Refr Annexure 11.3)

6.6 OTHER COMMITTEES  
(Refr Annexure 11.3)

## 7.0 CONCESSIONS FOR SC's, ST's HANDICAPPED STUDENTS

### 7.1 Concessions Provided for Students

As per government norms

7.2 Concessions Provided for Staff Nil

## 8.0 FINANCIAL STATUS

### 8.1 Analysis of Plan and Non-Plan Grants

#### Plan Grant

Plan grant is meant for capital nature expenditure. The expenditure on construction of buildings, purchase of equipments and other facilities. The other facilities include the following subheads:-

- Furniture and fixture
- Library (Books and equipment)
- Transport
- Office equipment
- Providing AC in the Lab
- Medical equipment
- Telephone exchange
- Audio and visual teaching aids
- Sports amenities
- Up gradation of classroom
- Internet facilities
- Faculty up gradation:
- Membership/registration fee for presenting paper
- Reimbursement of cost of books for teachers
- Equipment for HRD/Hindi cell

#### Non Plan Grant

The expenditure of revenue nature i.e. salary and allowances, TA/DA, medical reimbursement, training cost, campus maintenance, library expenses and other contingent expenditure are met from the Non Plan Grant.

Normally the whole grant is being utilized for the purpose for which it is sanctioned and the utilization certificate is sent to the ministry accordingly.

### 8.2 Sources of Funds

The whole Plan and Non plan grants are being received from the Ministry of Human Resource Development (MHRD), New Delhi.

During the year under report a sum of Rs 998.00 Lac & Rs 2000.00 Lac were received as Plan grant & Non Plan grant respectively.

The expenditure for the year 2015-16 is Rs 2748.86 Lacs and Rs 5653.04 Lacs under Plan and Non Plan respectively.

### 8.3 Expenditure position for last three years

S. No.	Description	Year 2013-14	Year 2014-15	Year 2015-16
1.	Plan	5364.05	1329.01	2748.86
2.	Non Plan	4132.38	4342.78	5653.04

**9.0 CENTRAL FACILITIES AND SERVICES****9.1 Annual Report 2015-2016****Computer Centre****Faculty & Staff**

<b>Sr. No.</b>	<b>Name</b>	<b>Position</b>	<b>Qualifications</b>
1.	Dr Harsh Verma	Head	PhD
2.	Ms Daljeet Kaur	System Analyst	MCA(GNDU)
3.	Mr Ashwani Sharma	Computer Operator	MCA
4.	Mr Subash Yadav (On Deputation to NIT, Delhi since Jan 2014)	Computer Operator	MCA, MCSE
5.	Mr Hemant Thapar	Computer Operator	MCA

**9.2 WORKSHOPS****Faculty**

Faculty Positions (Assistant Professors): 03

Faculty positions Filled: 1 (on contract)

Faculty Positions Vacant: 2

**Staff**

Assistant Instructors : 05

Carpenter : 01

Workshop : 02

Technicians : 03 (on contract)

**9.3 LIBRARY****Introduction:**

Digital revolution and flood of print literature on our academic scene has enhanced the value and responsibilities of our libraries. This scenario on the one hand has enhanced the responsibilities of the Library officers and on the other hand has given liberty to the users to use the library from remote locations as well. A library exists to support teaching and research programs of an educational Institute, to provide facilities for general reading and to disseminate information according to the requirements of its users. Keeping in view all these things Central Library, Dr. B. R. Ambedkar National Institute of Technology was established in 1987 (the same year this institute was established). Since then this center of learning has been functioning with the aim of encouraging self-learning and to supplement academics, boost research and development activities and to promote consultancy activities. The Institute possesses a growing Library. At present central library is housed in a multistoried air-conditioned building situated in the midst of all departments and hostels and is easily accessible to all. For smooth functioning of the library it has been divided into different sections and readers have been allowed open access to the library holdings.

**Librarian's Profile:**

<b>Name</b>	<b>Academic/Professional qualifications</b>	<b>Post held</b>	<b>Specialization</b>
Dr. Sarbrinder Kaur	Ph.D ( Library and Information Science)	Librarian	Reference/ Information service



### Library Hours

The Library remains open throughout the year except on Gazetted holidays and any other holidays declared as a special holiday. It remains open from 9.00 A.M. to 9.00 P.M. from Monday through Saturday and during Minor and Major examinations up to 12.00 mid-night.

**Library Resources:** The Institute had a well-equipped library with a collection of more than 1, 29,500 volumes comprising of Books, Standards, theses, CD ROM, bound volumes of Journals and video cassettes pertaining to various disciplines of Science, Engineering and Technology. Library holds a balanced collection of both print and electronic/digital media. During the year ending library provided access to E- books and e-journals from the major publishers like- Elsevier, IEEE, IET, ASME- American Society of Mechanical Engineers, ASCE- American Society of Civil Engineers, ACM- American society of Computing Machinery, ASTM- Journals and standards, EBSCO host. Library is having a rich Book bank and is lending text books to SC/ST and General Category student for the whole session. Library is using LibSys Software for automation of in-house activities of Library and OPAC services to its users. For overall supervision and surveillance whole of the library building is under 24 hour surveillance of CCTV cameras.

### ESTATE OFFICE

#### Works Completed During 2015-16

The following 16 Nos. of Works / Buildings amount to Rs. 9699.78lacs have been completed during the year 2015-16:

S.No	Name of Work	Expenditure as per CPWD form 65 -08/2016 ( in Rs. in Lacs)	Status
1.	Mega Hostel (Boys) for 1600 Students (G+7) (Phase -I)	6401.61	Possession Taken
2.	Construction Of New Block of 14 Lecture Theatre with a Capacity Of 120 Students Each (G+3) & one with 200 Capacity	3248.87	Possession Taken
3.	Office of Head of Department of Civil Engineering	49.30	Possession Taken
	TOTAL	<b>9699.78</b>	

#### On Going works

The following 7 Nos. of Works / Buildings amount to Rs. **11355.50** (in lacs) have started during the year 2015-16:

S.No	Name of Work	Estimated Cost	Status as on 31.3.2016
1.	C/O New block of Msc Programme at Nit Jalandhar	3200.00	Structure Complete, Electrical work in progress
2.	C/O 32 Nos Type-V Quarters at Nit Jalandhar SH: (Stilt+8 Storeys)	2500.00	Structure Complete, Finishing work in progress
3.	Horizontal Extension to Instt. Workshop I/C, W/S, S/I & E/I at Nit Jalandhar.	2403.00	Structure Complete, Finishing work in progress
4.	Vertical Extension of New Building for Deptt of Electronics & Communication at Nit Jalandhar.	2908.00	Structure Complete, Finishing work in progress
5.	Provision of Extra Toilet Cum Bathroom in old Type- V Quarters at NIT Jalandhar.	28.50	Near Completion
6.	C/O One additional over Head Tank of 6.5 Lac litre capacity at Nit Jalandhar	170.00	Connection work in progress
7.	C/O one additional room Type-I & Type-II Qtrs at Nit Jalandhar	225.00	Work in progress
	TOTAL	<b>13934.50</b>	

**Works Under Planning**

The following Works / Buildings amount to Rs. 41508.00 lacs are have been planned

S.No	Name of Work	Estimated Cost
1.	Const. Mega Hostel for Girls 2 <sup>nd</sup> phase at Nit Jalandhar.	6900.00
2.	Const. Mega Hostel for Boys 2 <sup>nd</sup> phase at Nit Jalandhar.	9821.00
3.	Providing & Fixing tile floorings in Type-I to Type-V Qtrs.	255.00
4.	Upgradation of Kitchen in Type-I to Type-V Qtrs.	280.00
5.	Provision of Barrier free environment for persons with disabilities in the building.	250.00
6.	Renovation of Existing toilets in Boys Hostel No. I to V	250.00
7.	Renovation of Guest House at NIT Jalandhar	400.00
8.	Provision of lift shaft for providing lift in Administrative and faculty block at NIT Jalandhar	44.00
9.	Replacement of Entrance Doors with MS Doors and replacement of Jali doors in all types of Houses.	32.00
10.	Additional Bore Well Near Pump No. 2	23.00
11.	One Dormitory with wash rooms in Girls Hostel No. 2	34.00
12.	Sports Office & Stadium	4800.00
13.	Construction of Research & Development Centre	4400.00
14.	Extension of Industrial Engineering Block	2000.00
15.	Vertical Extension Textile Technology Block	200.00
16.	Type II and Type III Houses	200.00
17.	Senate Hall & Guest House	6000.00
18.	A/R & M/o of Nit Campus, Jalandhar (Civil 2,32,21,553+ Elect 3,29,75,213= 5,61,96,766)	5619.00
<b>TOTAL</b>		<b>41508.00</b>

**9.4 Laboratories (Further details at 11.11)****Department of Biotechnology**

- Biochemistry Laboratory
- Bioprocess Engineering Laboratory
- Molecular Biology and Genetic Engineering Laboratory
- Immunology Laboratory
- Cell and Tissue Culture Laboratory
- Separation Process in Biotechnology Laboratory
- Bioinformatics Laboratory
- Bioprocess Modelling and Simulation Laboratory
- Environmental Biotechnology Laboratory

**Department of Chemical Engineering**

- Biochemical Laboratory
- Pollution Abatement Laboratory
- Fluid Mechanics Laboratory
- Fuel Technology Laboratory
- Mass Transfer Laboratory
- Unit Operation Laboratory
- Chemical Reaction Engineering Laboratory
- Heat Transfer Laboratory

**Department of Chemistry**

- Atomic Absorption spectrophotometer
- Double beam uv-visible spectrometer
- Gas-chromatograph
- Millipore Distillation setup
- Digital Melting –point Apparatus
- Photochemical reactor
- Top pan balances
- Stainless steel Modular Fume Hood
- Glasswares & Chemicals.

**Department of Civil Engineering**

- CAD
- Environmental Engineering
- Geotechnical Engineering
- Structures Testing
- Survey
- Structural Analysis
- Transportation Engineering

**Department of Computer Science and Engineering**

- Computer Centre
- Computer Programming Laboratory
- Information Security Lab
- Microprocessor Lab
- Computer Networks Laboratory
- Software Development Laboratory
- RDBMS Laboratory
- Natural Language and Pattern Recognition Laboratory
- Wireless Data Communication Laboratory

**Department of Electronics and Communication Engineering**

- Digital Electronics lab
- T.V. and Microwave Lab
- Power Electronics Lab
- Communication Systems Lab.
- PCB Lab
- Basic Electronics Lab
- DSP Lab

**Department of Humanities and Management**

- Communication lab (being established)
- High Tech Lab for computing facilities (being established)

**Department of Industrial Engineering**

- Metrology
- Work Study Lab
- Ergonomics Lab
- Computer Lab
- Modern Tool Room
- Statistical quality and control Laboratory
- CAM & Automation laboratory (CAMAL)

**Department of Instrumentation and control Engineering**

- Fabrication Unit Laboratory
- Analytical Instrumentation Laboratory
- Electrical Instrumentation and Circuit Laboratory
- Control System Engineering Laboratory

- Process Control and Instrumentation Laboratory
- Electrical Machines laboratory
- Instrumentation System Design Laboratory ISD
- Microprocessor Based Control Laboratory
- Biomedical Instrumentation Laboratory

#### Department of Mathematics

#### Department of Mechanical Engineering

- Fluid Machinery
- Heat Engines
- Vibrations
- Refrigeration and Air Conditioning
- Theory of Machines
- Mechanical Measurement
- Automation and Mechatronics
- Experimental Stress Analysis
- Automobile Engineering

#### Department of Physics

- Applied Physics
- Material Science
- Fiber Optics
- Polymeric Material Testing

#### Department of Textile Technology

- Yarn Manufacture Laboratory
- Fabric Manufacture Laboratory
- Textile Chemical Processing Laboratory
- Textile Testing Laboratory

### 9.5 Dispensary, Post Office, Shopping Centre

The campus is self contained having shopping complex, computerized Banks, Post office, Dispensary and other facilities essential for community living.

### 9.6 Physical Facilities

Faculty Club, Students Activity Center, Guest House

### 9.7 Games and Sports Facilities

#### Outdoors Games Facilities

SR. NO.	OUTDOOR GAMES	FACILITIES AVAILABLE
1	Athletics	400 meter Standard Track & Field
2	Cricket	Standard Cricket ground
3	Football	Standard Football ground
4	Basket ball	Two Basket Ball Standard Cemented Courts with Full Flood Lights & Sitting Arrangement
5	Volley ball	Three Volleyball standard grounds with Full Flood Lights & Sitting Arrangement
6	Lawn Tennis	Two Lawn Tennis Cemented courts With Full Flood Lights

#### Indoor Games Facilities

SR. NO.	INDOOR GAMES	FACILITIES AVAILABLE
1	Badminton	Four Wooden Badminton Courts With Light, Sitting Arrangement and Specific Gym Equipments in Badminton Indoor Hall.
2	Table Tennis	T.T. Table is available in each hostel in addition to that Six tables are available in the Indoor Badminton hall with Lights, Sitting Arrangement and Specific Gym Equipments.

3	Carom	Covered space is available in each hostel in addition to that Carom Boards are available in the Indoor Badminton Hall with Lights Sitting Arrangement and Specific Gym Equipments in Badminton Indoor Hall.
4	Chess	Covered space is available in each hostel in addition to that Chess Boxes are available in the Indoor Badminton Hall with Lights Sitting Arrangement and Specific Gym Equipments in Badminton Indoor Hall.

#### Weight Training Gymnasium Facility

1	Multipurpose Modern Weight facilities	Weight training gymnasium is available in the students Activity Center, <b>fully equipped with Modern Weight Training equipments.</b>
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#### 9.8 Other Facilities like Hostels, Messes, Staff Quarters and Administration etc

- Guest House
- Community Centre
- Hostels: 8 Boys, 3 Girls
- Messes:9
- Staff Quarters

### 10 NOTABLE ACHIEVEMENTS

The department's wise achievements have been shown in annexure – 11.11

### 11 ANNEXURES

#### 11.1 Insitute's Council

##### The Council

- (1) With effect from such dated as the Central Government may, by notification, specify in this behalf, there shall be established for all the Institutes specified in column (3) of the Schedule, a central body to be called the Council.
- (2) The Council shall consist of the following members, namely:-
  - (a) The minister in charge of the Ministry or Department of the Central a Government having administrative control of the technical education, ex officio, as Chairman;
  - (b) The Secretary to the Government of India in charge of the Ministry or Department of the Central Government having administrative control of the technical education, ex officio, as Vice-Chairman;
  - (c) The Chairperson of every Board, ex officio;
  - (d) The Director of every Institute, ex officio;
  - (e) The Chairman, University Grants Commission, ex officio;
  - (f) The Director General, Council of Scientific and Industrial Research, ex officio;
  - (g) Four Secretaries to the Government of India to represent the Ministries or Departments of the Central Government dealing with biotechnology, automic energy, information technology and space, ex officio;
  - (h) The Chairman All India Council for Technical Education, ex officio;
  - (i) Not less than three, but not more than five persons to be nominated by the Visitor, at lease one of whom shall be a woman, having special knowledge or practical experience in respect of education, industry, science or technology;
  - (j) Three members of Parliament, of whom two shall be chosen by the House of the People and one by the Council of States;
  - (k) Two Secretaries to the State Government, from amongst the Ministries or Departments of that Government dealing with technical education where the Institutes are located, ex officio;
  - (l) Financial Advisor, dealing with the Human Resource Development Ministry or Department of the Central Government, ex officio;
  - (m) One offer not below the rank of Joint Secretary to the Government of India in the Ministry or Department of Central Government having administrative control of the Technical Education, ex officio, as Member-Secretary.

## 11.2 Board of Governors

## CONSTITUTION OF BOARD OF GOVERNORS

Sr. No	To whom Represented	Name of the Hon'ble Member
1.	<b>The Chairperson to be nominated by the Visitor</b>	Mr. Rajiv Mehrotra, Founder & Chairman, Shyam Telecom Group & Vihaan Networks Limited, 21-B, Sector-18, Udyog Vihar, Gurgaon, Haryana-122015
2.	<b>Director of the Institute</b>	Dr Lalit Kumar Awasthi, Director, Dr B R Ambedkar NIT, Jalandhar
3.	<b>Director of Indian Institute of Technology to be nominated by the Central Government.</b>	Prof. Sarit K. Das, Director, Indian Institute of Technology Ropar Nangal Road, Rupnagar, Punjab-140001
4.	<b>Nominee of the MHRD, Govt. of India.</b>	Sh S P Goyal, JS (TEL), Ministry of Human Resource Development, Department of Higher Education, Government of India, 122 B-C, Shastri Bhawan, New Delhi-110001.
5.	<b>Nominee of the MHRD, Govt. of India.</b>	Ms. Darshana M Dabral, Joint Secretary and Financial Advisor, Integrated Finance Bureau, Ministry of Human Resource Development, Government of India, 120-C, Shastri Bhawan, New Delhi-110001.
6.	<b>To be nominated by the State Government</b>	Sh Rajinder Gupta, Chief Executive Officer, Trident Group, E-212, Kitchlu Nagar, Ludhiana-141001 (Punjab)
7.	<b>To be nominated by the State Government</b>	Sh Akhil Malhotra, Chairman, Shiva Group of Companies, 8-L, Model Town, Ludhiana-141002 (Punjab)
8.	<b>To be Nominated by the Council</b>	Prof. Archana Bhattacharyya Indian Institute of Geomagnetism Room No: 205, New Panvel Campus Navi Mumbai, Maharashtra – 410 218
9.	<b>To be Nominated by the Council</b>	Ms. J Manjula, DS & DG (ECS) O/o DG (ECS) Ministry of Defence DARE Campus CV Raman Nagar PO Bengaluru 560093
10.	<b>Nominee of the Institute' Senate</b>	Professor S P Singh, Head Department of Civil Engineering, Dr B R Ambedkar NIT, Jalandhar.
11.	<b>Nominee of the Institute' Senate</b>	Dr Harleen Dahiya, Assistant Professor, Department of Physics, Dr B R Ambedkar NIT, Jalandhar
12.	<b>Section 18 Clause (2)</b>	Dr Rohit Mehra, Registrar & Secretary (Board of Governors), Dr B R Ambedkar NIT, Jalandhar.

**CONSTITUTION OF FINANCE COMMITTEE**

<b>Sr. No</b>	<b>To whom Represented</b>	<b>Name of the Hon'ble Member</b>
1.	<b>The Chairperson to be nominated by the Visitor</b>	Mr. Rajiv Mehrotra, Founder & Chairman, Shyam Telecom Group & Vihaan Networks Limited, 21-B, Sector-18, Udyog Vihar, Gurgaon, Haryana-122015
2.	<b>Director of the Institute</b>	Dr Lalit Kumar Awasthi, Director, Dr B R Ambedkar NIT, Jalandhar
3.	<b>Director of Indian Institute of Technology to be nominated by the Central Government.</b>	Prof. Sarit K. Das, Director, Indian Institute of Technology Ropar Nangal Road, Rupnagar, Punjab-140001
4.	<b>Nominee of the MHRD, Govt. of India.</b>	Sh S P Goyal, JS (TEL), Ministry of Human Resource Development, Department of Higher Education, Government of India, 122 B-C, Shastri Bhawan, New Delhi-110001.
5.	<b>Nominee of the MHRD, Govt. of India.</b>	Ms. Darshana M Dabral, Joint Secretary and Financial Advisor, Integrated Finance Bureau, Ministry of Human Resource Development, Government of India, 120-C, Shastri Bhawan, New Delhi-110001.
6.	<b>To be nominated by the State Government</b>	Sh Akhil Malhotra, Chairman, Shiva Group of Companies, 8-L, Model Town, Ludhiana-141002 (Punjab)
7.	<b>Section 18 Clause (2)</b>	Dr Rohit Mehra, Registrar & Secretary (Board of Governors), Dr B R Ambedkar NIT, Jalandhar.

**CONSTITUTION OF SENATE**

<b>Sr.No</b>	<b>To whom Represented</b>	<b>Name of the Hon'ble Member</b>
1.	Ex-officio, Chairman of the Senate	Professor Lalit Kumar Awasthi, Director, Dr B R Ambedkar NIT, Jalandhar
2.	Representing the field of Science	Prof. P. K. Raina, Professor & Dean (Academics), Department of Physics, Indian Institute of Technology Ropar Nangal Road, Rupnagar-140 001, Punjab, India
3.	Representing the field of Engineering	Professor (Dr) Surendra Kumar Kaushik, House No.R-273, Dera Baba Jaimal Singh, Radha Soami Satsang Beas, Beas-143 204 (Punjab)
4.	Representing the field of Humanities	Dr Jap Preet Kaur Bhangu, Professor, Department of Management & Humanities, Sant Longowal Institute of Engineering and Technology, Longowal-148106, Distt. Sangrur.
5.	The Professors appointed or recognized as such by the institute for the purpose of imparting instructions in the institute	All Professors of NIT, Jalandhar.
6.	Member Secretary	Dr Rohit Mehra, Registrar & Secretary (Board of Governors), Dr B R Ambedkar NIT, Jalandhar.

**CONSTITUTION OF BUILDING & WORKS COMMITTEE**

<b>Sr. No.</b>	<b>To whom Represented</b>	<b>Name of the Hon'ble Member</b>
1.	Ex-officio, who shall be the Chairman of the Committee	Professor Lalit Kumar Awasthi, Director & Chairman, BWC Dr B R Ambedkar National Institute of Technology, Jalandhar.
2.	Nominated by the Central Government not below the rank of Director or Deputy Secretary	The Director, (NITs) Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi.
3.	Nominated by the Board of Governors amongst its members	
4.	Dean, Planning and Development	Dr A K Jana Dean, Planning & Development, Dr B R Ambedkar National Institute of Technology, Jalandhar-144011
5.	Nominee of the CPWD of the PWD (Civil Wing)	Er. Nand Lal Chauhan Superintending Engineer (Civil) Jalandhar Central Circle, CPWD, 448, Guru Teg Bahadur Nagar, Jalandhar
6.	Nominee of the CPWD of the PWD (Electrical Wing)	Er. Rajesh Jain Superintending Engineer (Electrical), Jammu Central Electrical Circle, CPWD, Landoi Bridge, Satwari Cantt., Jammu
7.	Ex-Officio Member Secretary	Dr Rohit Mehra, Registrar & Secretary (Board of Governors), Dr B R Ambedkar NIT, Jalandhar.

**11.3 OTHER COMMITTEES**

<b>S No</b>	<b>Name of the Committee</b>	<b>Chairman</b>
1.	Dean (Academic)	Dr S P Singh
2.	Dean (Planning and Development)	Dr A K Agnihotri
3.	Dean (Students Welfare)	Dr Jaspal Singh
4.	Dean (Research and Consultancy)	Dr Arun Khosla
5.	Dean( Faculty Welfare)	Dr N C Kothiyal
6.	Associate Dean (Academic-PG)	Dr N Bhowmick
7.	Associate Dean (Academic-UG)	Dr Raman Bedi
8.	Associate Dean (Planning and Development)	Dr S K Pahuja
9.	Associate Dean (Students Welfare)	Dr Subhash Chander
10.	Associate Dean (Research and Consultancy)	Dr Ajay Bansal
11.	Associate Dean (Faculty Welfare)	Dr Renu Gupta
12.	Registrar	Dr Sarabjit Singh
13.	Dean (Planning & Development)	Dr A K Agnihotri
14.	Associate Dean (P&D)	Dr S K Pahuja
15.	Guest House	Dr Harsh Manchanda
16.	Coordinator, Institute Newsletter/Brochure	Dr Vishal Sharma
17.	Coordinator, Institute Amenities	Dr S S Bhaduria
18.	Coordinator, Transportation	Mr S K Tiwari
19.	Coordinator, Water Management and Waste Disposal and Horticulture	Dr Vinay Midha
20.	Associate Dean (PG)	Dr N Bhowmick



21.	Associate Dean (UG)	Dr Raman Bedi
22.	Coordinator, Time Table and Class Room Infrastructure Management	Dr R R Sinha
23.	Coordinator, Convocation	Dr Sarabjeet Singh Bal
24.	Coordinator, UG Scholarships	Dr R K Sankaria
25.	Coordinator, PG Scholarships	Dr Jatinder Kumar
26.	Dean (Students Welfare)	Dr Jaspal Singh
27.	Associate Dean (SW)	Dr Subhash Chander
28.	Coordinator, Cultural Activities and Creative Arts	Dr Mamta Khosla
29.	Coordinator, Medical Facilities	Mr. N Basak
30.	Coordinator, Sports	Dr G S Dhaliwal
31.	Coordinator, NCC	Dr D K Shukla
32.	Coordinator, NSS	Dr Rizwan A Khan
33.	Dean (Faculty Welfare)	Dr N C Kothiyal
34.	Associate Dean (FW)	Dr Renu Gupta
35.	Coordinator, SC/ST/OBC/Persons with Disability (PWD) Development and Liaison Officer	Dr K S Nagla
36.	Coordinator, Faculty Development and Continuing Education (CEP Cell)	Dr Sangeeta Garg
37.	Coordinator, Raj Bhasha	Dr A K Chaudhary
38.	Dean (Research and Consultancy)	Dr Arun Khosla
39.	Associate Dean (R&C)	Dr Ajay Bansal
40.	Coordinator, Video Conferencing and E-classrooms	Dr Balwinder Raj
41.	Coordinator, Communication	Dr Paramvir Singh
42.	Coordinator, Community Development Program	Prof B S Kaith
43.	Coordinator, Industry Institute Interaction and Sponsored Projects	Dr Ajay Gupta
44.	Coordinator, Technical events	Prof A K Jain
45.	Professor, Training and Placement	Prof Partap Singh
46.	Chairman E-Governance	Dr Arvinder Singh
47.	Coordinator, National International Institute Collaborations and Networking	Dr. Joseph Anand Vaz
48.	Coordinator TEQIP	Dr Joseph Anand Vaz
49.	Chairman, Central Workshop	Dr Rakesh Chandra
50.	Coordinator, Institute Annual Report	Registrar
51.	Chairman Institute Library	Prof R K Sarin
52.	Coordinator, Security	Registrar Co- coordinator Dr A Chatterjee
53.	Chief Warden	Dr Anish Sachdeva
54.	Head, Central Computer Centre	Dr Harsh Verma
55.	Students Counselor	Dr R K Garg
56.	Institute Purchase Committee	1. Dr J N Chakarborti-Chairman 2. Registrar-Member Secretary 3. Concerned Head of Deptt. Section/Center-Member
57.	House Allotment Committee	1. Registrar- Chairman 2. Estate Officer (P&D)-Member Secretary

#### 11.4 Research Projects and Consultation Jobs Memorandum of Understanding (MoU)

##### Students Participation in Co-curricular Activities

- **Fellowship/Awards**
  - One INSPIRE fellowship
- **e-Yantra Robotics Competition**
  - Two teams participated in January 2016
- **Technical Event (techNiti-2016)**

Student of NIT Jalandhar organized Technical Event (techNiti-2016) from 5<sup>th</sup> -8<sup>th</sup> November 2015. The events in techNiti15 were mainly aimed at improving the technical skills of students and prove to be the ultimate test of grit, knowledge and skill and also provide a perfect platform for the best brains to interact and compete with each other. 'techNiti15' has a rich mixture of technical as well as non-technical events, so there is always something for anyone. The major technical events constitute a paper presentation competition (Spardha), Business plan presentation competition (B plan), Fashion Show (Esthetique), Science Extravaganza cum exhibition, Auto Expo, Khaamosh, Workshops, Guest lecture, Go Karting, Battleship, Pro shows, Lan gaming, Robotics events, Quizzes, Programming contest, attracting several participants from all over the country.

- **Cultural Event (Utkansh) Technical Event (techNiti-2016)**

Student of NIT Jalandhar organized Cultural Event (Utkansh) in 11 to 13 March 2016. Utkansh16 is the annual cultural fest of NIT Jalandhar. The major events were organized by the various societies and clubs namely Music and Dramatic Society (MADS), Literary and Debating Society (LADS), Fine arts society, Raj Bhasha Samiti, Photography club, and Movie club. Some of the main events were Panachie the fashion parade, Megasonic, Reform games and scam games "Neta ji ki jawani", La persona, Quizes, Cryptic cross word, Super sketch, Razzmatazz the choreography camp.

**Expert Lectures organized/delivered (2015-2016) available at Sr. NO. 11.11**

**11.5 Faculty Positions available at Sr. No. 2.12**

**11.6 Administrative position available at Sr. No. 2.12**

**11.7 Staff Members deputed/Sponsored for Workshop/training, learning**

#### (A) Members sponsored for International Conferences Abroad (2015-2016)

Sr. No	Name of Faculty	Designation	Deptt.	Title of the Event	Date
1	Dr. Harsh Kumar Manchanda	Associate Professor	CY	International Conference on "Green Chemistry : Catalysis Energy & Environment" held at Goa University, Goa	22-01-2015 to 24-01-2015
2	Dr. A. Mukhopadhyay	Professor	TT	International Conference of FITECH-2015 held at Cologne, Germany	22-02-2015 to 29-02-2015
3	Dr. A.K Choudhary	Associate Professor	TT	International Conference of FITECH-2015 held at Cologne, Germany	22-02-2015 to 29-02-2015
4	Dr Jaspal Singh	Professor	MA	Senior Association Awards for six years at ICPT, ITLAY	23-06-2015 to 14-07-2015
5.	Dr Jaspal Singh	Professor	MA	International Workshop on Mathematics at ICPT, ITLAY	06-07-2015 to 10-07-2015
6.	Mr. Vinay Midha	Associate Professor	TT	<b>International Conference on manufacturing and textile Engineering (ICMTE'15)" to be held at Dubai.</b>	20-05-2015 to 21-05-2015
7.	Dr Sarbjot Singh Sandhu	Associate Professor	ME	<b>International Conference of "IJAS" (Technology &amp; Science) Int'l Conference for Academic Disciplines to be held at Italy</b>	16-06-2015 to 19-06-2015
8.	Dr Shailendra Singh Bhaduria,	Assistant Professor	IPE	<b>International Conference of "IJAS" (Technology &amp; Science) Int'l Conference for Academic Disciplines to be held at Italy</b>	16-06-2015 to 19-06-2015
9.	Dr KVP Singh	Assistant Professor	TT	<b>"International Conference of "ICNF-2015 2<sup>nd</sup> International Conference on natural fibers" to be held at Azores, Portugal</b>	27-04-2015 to 29-04-2015

10.	Dr H M Mittal	Associate Professor	PH	<b>International Conference on European Radioactive Ion Beam Conference 2015 (EURORIB 15)</b> to be held at Hohenroda (Hessen) Germany	07-06-2015 to 12-06-2015
13.	Dr Kuldeep Singh Nagla	Associate Professor	IC	Exchange visit under the Indo Korean Joint R & D Project entitled <b>“Real time shared autonomy system for field mobile robot”</b> to be held at Korean	25-08-2015 to 3-1-08-2015
14.	Dr Harleen Dahiya	Assistant Professor	Phy	<b>International conference on “Spin densities and Chiral Odd Generation Parton Distributions”</b> to be held at Newport News, Virginia, USA	14-09-2015 to 18-09-2015
15.	Dr Jatinder Kumar	Assistant Professor,	CE	<b>International conference on “Simulation of Annular Reactor used for Photocatalytic Degradation”</b> to be held at Chicago, USA	08-10-2015 to 09-10-2015

**(B) Faculty Members sponsored for International Conferences India (2015-2016)**

Sr. No	Name of Faculty	Designation	Deptt.	Title of the Event	Date
1	Dr. Raghaw Raman Sinha	Assistant Professor	MA	“Modeling , Simulation and Optimizing Techniques (ICMSOT-2015) held at DAV College, Jalandhar	12-02-2015 to 14-02-2015
2	Dr. Geeta Partap	Associate Professor	MA	“Modelling , Simulation and Optimizing Techniques (ICMSOT-2015) held at DAV College, Jalandhar	12-02-2015 to 14-02-2015
3.	Dr Ajay Bansal	Associate Professor	CE	Recent Advances in Bio Energy Research held at NIRE Kapurthala	16-03-2015
4.	Dr. Rizwan A Khan	Assistant Professor	CE	International Conference on “Fatigue Durability and Fracture Mechanics” held at Tata Auditorium, Indian Institute of Science, Bangalore, India	28-05-2015 to 30-05-2015
5.	Dr Rohit Mehra	Associate Professor	PH	“Radiation Awareness and Detection in Natural Environment (RADNET-I)” held at Garwal University, Tehri Campus	15-06-2015 to 17-06-2015
6.	Dr. Uma Shankar	Assistant Professor	CY	International Conference on “Recent Advances in Nano-Science and Technology (RAINSAT-2015)” held at Sathyabama University, Chennai, India	08-07-2015 to 10-07-2015
7.	Dr Nitai Basak	Associate Professor	BT	Recent Advances in Bio Energy Research (ICRABR-2016) held at NIBE Kapurthala	25-02-2016 to 27-02-2016(03 days)
8	Dr Praveen Malik	Assistant Professor	PY	Materials Science & Technology held at University of Delhi, Delhi	01-03-2016 to 04-03-2016(04 days)

**(C) Faculty Members sponsored for National Conferences (2015-2016)**

Sr. No	Name of Faculty	Designation	Deptt.	Title of the Event	Date
1.	Dr. Harsh Kumar Manchanda	Associate Professor	CY	National Conference on "17 <sup>th</sup> CSRI National Conference held at NCL Pune	06-02-2015 to 08-02-2015
2.	Dr. Balwinder Raj	Assistant Professor	EC	"18 <sup>th</sup> Punjab Science Congress" held at Desh Bhagat University , Mandi Gobindgarh	07-02-2015 to 09-02-2015
3.	Dr. Uma Shanker	Assistant Professor	CY	Symposium on Innovations in Chemical Sciences at Department of Chemistry Punjab University, Chandigarh	20 March-21 March 15 (02 days)
4.	Dr. Sangeeta Garg	Associate Professor	CH	Symposium on Sustainability of Engineering Education at NIT Jalandhar	26 March - 27 March 2015 (02 days)
5.	Dr. Uma Shanker	Assistant Professor	CY	Frontiers at the Chemistry-Allied Science Interface (FCASI-2015) University of Rajasthan, Jaipur <b>Cancelled at own request</b>	13 March-14 March 15 (02 days)
6	Dr Praveen Malik	Assistant Professor	PH	Liquid Crystals NCLC-22 DIT University, Dehradun	21 December - 23 December 15(03 days)
7	Dr R K Garg	Professor	IP	National Convention on Quality Circles (NCQC-2015) Chennai	18 Dec-20 Dec.15(03 days)

**(D) Faculty Members sponsored for Seminar/ Training Programmes/ Workshops/ Short Term Courses (2015-2016)**

Sr. No	Name of Faculty	Designation	Deptt.	Title of the Event	Date
1.	Dr Harleen Dahiya	Assistant Professor	Phy	Workshop on Recent Advances in HEP being held at University of Hyderabad, School of Physics	26 Feb-28 Feb 15 (03 days)
2.	Dr. Uma Shankar	Assistant Professor	CY	Symposium on nnovation in Chemical Sciences" at Dept. of Chemistry, Punjab University, Chandigarh.	20-03-2015 to 21-03-2015
3.	Dr Rajeev Kukreja	Associate Professor	ME	National Workshop on Research Perspective in Solar PV Systems at PSG College of Technology, Coimbatore	26 Mar-29 Mar 15 (04 days)
4.	Dr Sheela Tiwari	Associate Professor	IC	Workshop on Grid Integration of Renewable Enterogy Source at IIT Delhi	18 Apr-19 Apr 15 (02 days)
5.	Dr S K Pahuja	Associate Professor	IC	Tutorial on Advanced Distribution Automation System and Common Information Model (CIM) at Central Power Research Institute, Bengaluru	19 Mar-20 Mar 15 (02 days)
6.	Dr Rajeev Kukreja	Associate Professor	ME	Short Term Course on Advances in Computational Head Transfer held at IIT Delhi	21 May-23 May 2015 (03 days)
7.	Dr Subhash Chander	Associate Professor	ME	Short Term Course on Advances in Computational Head Transfer held at IIT Delhi	21 May-23 May 2015 (03 days)
8.	Dr Uma Shankar	Assistant Professor	CY	Short Term Course on Nanotechnology, Basic and Applications in Chemical Engineering held at IIT Roorkee	22 Jun – 26 Jun 2015 (05 days)

9.	Dr Rajeev Jindal	Associate Professor	CY	Short Term Course on “Nanotechnology : Development & Challenges” held at NITTR Chandigarh	18 May-22 May 2015 (05 days)
10.	Dr AK Choudhary	Associate Professor	TT	Summer School Programme on “Petroleum Refining & Petrochemicals” held at Indian Oil Institute of Petroleum Management (IIPM), 83 Institutional Area, Sector 18 Gurgaon.	01 Jun -05 Jun 2015 (05 days)
11.	Dr Rajeev Kukreja	Associate Professor	ME	Short Term Course on “Two Phase Flow, Boiling and Condensation in Conventional and Miniature systems” held at IIT Roorkee	01 Jun-05 Jun 15 (05 days)
12.	Dr Vishal S Sharma	Associate Professor	I & PE	Short Term Course on “Integrated Automation Technologies” held at IIT Delhi	01 Jun-06 Jun 15 (06 days)
13.	Dr Kuldeep Singh Nagla	Associate Professor	IC	Short Term Course on “Integrated Automation Technologies” held at IIT Delhi	01 Jun-06 Jun 15 (06 days)
14.	Dr S K Pahuja	Associate Professor	IC	Short Term Course on “Advanced Data Analytics in Management (ADAM)” held at IIT Delhi	26 Jun-28 Jun 15 (03 days)
15	Dr Jagwinder Singh	Assistant Professor	HUM	Short Term Course on Green Operations Management Concepts and Decision Models held at SLIET Longowal	21 Dec – 25 Dec.15(05 days)
16	Dr Neetu Divya	Assistant Professor	CH	STC on Advance Wastewater Treatment Technology held at NIT Raipur	15-02-2016 to 19-02-2016
17	Dr. Harsh Kumar Manchanda	Associate Professor	CY	Symposium on 18 <sup>th</sup> CRSI National Symposium in Chemistry, Punjab University, Chandigarh.	05-02-2016 to 07-02-2016
18	Dr Jyoti Bharj	Associate Professor	PH	Seminar on Advances in Nano Mechanical Surface Characterization held at CSIR-CSIO Chandigarh	12-02-2016
19	Dr R S Bharj	Associate Professor	ME	Seminar on Advances in Nano Mechanical Surface Characterization held at CSIR-CSIO Chandigarh	12-02-2016
20	Dr Dinesh Kumar Shukla	Associate Professor	ME	Seminar on Advances in Nano Mechanical Surface Characterization held at CSIR-CSIO Chandigarh	12-02-2016

#### Faculty Members permitted to present paper

Sr. No	Name of Faculty, Designation and Deptt	Title of the Event	Date
1.	Dr KVP Singh Assistant Professor, TT	Present research paper titled “ <b>Improving Friction yarn Qualities for its use in Foundation Garments</b> ” in “ <b>International Conference of “ICNF-2015 2<sup>nd</sup> International Conference on natural fibers</b> ” to be held at Azores, Portugal	27-04-2015 to 29-04-2015
2.	Mr. Vinay Midha Associate Professor TT	Present paper titled “ <b>Effect of process Parameters on Tensile Properties of Threads during High Speed Lockstitch Sewing</b> ” for oral presentation in “ <b>The International Conference on manufacturing and textile Engineering (ICMTE'15)</b> ” to be held at Dubai.	20-05-2015 to 21-05-2015
3.	Dr Sarbjot Singh Sandhu Associate Professor ME	Present paper titled “ <b>Fuel Induction Techniques for a Hydrogen Fuelled Engine</b> ” for oral presentation in “ <b>International Conference of “IJAS” (Technology &amp; Science) Int’l Conference for Academic Disciplines</b> to be held at Italy	16-06-2015 to 19-06-2015
4.	Dr Shailendra Singh Bhadoria, Assistant Professor, IPE	Present paper titled “ <b>Mathematical Modeling for CTOD based M-Criterion for the Determination for the Triaxiality under Mixed Mode (I/II) Fracture</b> ” for oral presentation in “ <b>International Conference of “IJAS” (Technology &amp; Science) Int’l Conference for Academic Disciplines</b> to be held at Italy	16-06-2015 to 19-06-2015

5.	Dr H M Mittal Associate Professor, PH	Present paper titled <b>"Test of Rigid Triaxiality in in 126-132 Ce nuclei"</b> in <b>"International Conference on European Radioactive Ion Beam Conference 2015 (EURORIB 15)"</b> to be held at Hohenroda (Hessen) Germany	07-06-2015 to 12-06-2015
6.	Dr Balwinder Raj Assistant Professor, ECE	Present paper titled <b>"Design and Simulation of Low Power Stacked SRAM Cell"</b> in <b>"International Conference on Research in Technology and Engineering Science"</b> to be held at Singapore	18-07-2015 to 19-07-2015
7.	Dr Rajeev Kukreja Associate Professor, ME	Present paper titled <b>"Two Phase Heat Transfer and Flow Regimes of R134 and R410 during condensation in Horizontal Micro-Fin Tubes"</b> in <b>"International Congress of Refrigeration"</b> to be held at Yokohama, Japan	16-08-2015 to 22-08-2015
8.	Dr BS Kaith Professor CY	Present paper titled <b>"Preparation of IPNs and Effect of Swift Heavy Ions Irradiation on their Physico-Chemical Properties"</b> in <b>"17<sup>th</sup> International Conference on Chemistry and Materials Science"</b> to be held at Zurich, Switzerland <b>Cancelled at his own request</b>	29-07-2015 to 30-07-2015
9.	Dr Jatinder Kumar Assistant Professor, CE	Present paper titled <b>"Simulation of Photocatalytic Degradation of Rhodamine B in Annular Photocatalytic Reactor "</b> in <b>"International Conference on Chemical and Biochemical Engineering"</b> to be held at Toronto, Canada <b>Cancelled at his own request</b>	15-06-2015 to 16-06-2015

**D. Conferences/Workshops/Training Programmes Attended/Organized under TEQIP-II (2015-2016)**  
**NATIONAL VISIT**

S.No	Name of faculty	Dept.	Title of training	Place	Date
1	Dr R K Garg	IPE	CII IQ Lean Expert and six sigma black belt certification program	Bangalore	15.06.2015 to 19.06.2015
2	Dr Anish Sachdeva	IPE	CII IQ Lean Expert and six sigma black belt certification program	Bangalore	15.06.2015 to 19.06.2015
3	Dr Sarbjit Singh	IPE	FDP on Multi Variate Data Analysis	IIM Kozhikade, Kerela	15.06.2015 to 19.06.2015
4	Dr L P Singh	IPE	FDP on Multi Variate Data Analysis	IIM Kozhikade, Kerela	15.06.2015 to 19.06.2015
5	Dr Pramod Kumar	ME	International Conference on Recent innovation in Electrical, Electronics, computers and Mechanical Engineering	Kolkata	27.06.2015
6	Sh Ajit Singh	Registrar	4th Batch of training on Management Capacity Enhancement for Administrators	IIM Udaipur	08.06.2015 to 13.06.2015
7	Dr Balwinder Raj	ECE	8th Int. Confrence on contemporary computing (IC3-2015)	JAYPEE Inst. of IT, Noida	20.08.2015 to 22.08.2012
8	Dr Dilbag Singh	ICE	Workshop on IEEE SMART TECH 2015	Bangalore	25.09.2015 to 26.09.2015
9	Dr S K Pahuja	ICE	Workshop on IEEE SMART TECH 2015	Bangalore	25.09.2015 to 26.09.2015
10	Dr D K Shukla	ME	workshop on Hands on Training cum workshop on Electorn Microscopy-why, how and what	IIT Roorkee	19.10.2015 to 23.10.2015
11	Dr M K Jha	CH	15th batch of Training on Management Capacity Enhancement Programme	IIM Indore	05.10.2015 to 11.10.2015
12	Dr A Chatterjee	TT	Int. Conference on Advanced Material for power engineering (ICAMPE 2015)	Kerela	11.12.2015 to 13.12.2015
13	Dr S K Sinha	TT	Meeting to expore the possibilty of MOU for joint research on natural fibre	ICAR Lab, Kolkata	17.11.2015 to 20.11.2015
14	Dr S K Pahuja	ICE	Smart grid Communication and Cyber Security System	Central Power Division System	19.11.2015.to 20.11.2015
15	Dr Virender Singh	CY	International Conference on "Current Challenges in Drug Discovery Research - (CCDDR-2015)"	MNIT Jaipur	23.11.2015 to 25.11.2015
16	Dr Lakhwindr Pal Singh	IPE	Humanizing Work and Work Environment 2015	IIT , Bangalore	06.12.2015 to 09.12.2015

17	Dr Sarabjit Singh	IPE	Humanizing Work and Work Environment 2015	IIT , Bangalore	06.12.2015 to 09.12.2015
18	Dr Mukhopadhyay <sup>A</sup>	TT	Medical Textiles Conclave 2015 - An Interface between Medical & Textile Fraternity	PHD Chambers of Commerce & Industry, New Delhi	06.12.2015
19	Dr Vinay Midha	TT	Medical Textiles Conclave 2015 - An Interface between Medical & Textile Fraternity PHD Chambers of Commerce & Industry, New Delhi	PHD Chambers of Commerce & Industry, New Delhi	06.12.2015
20	Dr Subhash Chander	ME	International Combustion Institute Winter School (ICIWSIndia2015) IIT Madras, Chennai	IIT Madras, Chennai	12.12.2015 to 23.12.2015
21	Dr Davinder Singh	CE	Role of ICT In Driving Government Performance	National Productivity Council, Goa	14.12.2015 to 18.12.2015
22	Dr Rizwan A Khan	CE	Role of ICT In Driving Government Performance	National Productivity Council, Goa	14.12.2015 to 18.12.2015
23	Dr Vishal Sharma	IPE	Training Programme on XLTURN Training	MATB Engineering Pvt Ltd. Chennai	04.01.2016 to 08.01.2016
24	Dr Ajay Gupta	IPE	Training Programme on XLTURN Training	MATB Engineering Pvt Ltd. Chennai	04.01.2016 to 08.01.2016
25	Dr N C Kothiyal	CY	4th Batch of training on Management Capacity Enhancement	IIM Bangalore	18.01.2016 to 22.01.2016
26	Dr S K Pahuja	ICE	Two days workshops on grounding practices	Central Power Research Institute, Bangalore	28.01.2016 to 29.01.2016
27	Dr Dilbag Singh	ICE	GIAN Course on Comprehensive Electrocardiography	IIT Roorkee	23.02.2016 to 27.02.2016
28	Dr Sarbjot Singh Sandhu	ME	Conference on Biofuels and Bioenergy: International Conference and Exhibition BICE 2015	NIT Bhopal	23.02.2016 to 25.02.2016
29	Dr Rizwan A Khan	CE	Continuing Professional Development Programme "Repair Rehabilitation and Retrofitting of Buildings- Diagnosis, Preventive Actions and Repair Techniques"	ESCI Campus, Gachi Bowli, Hyderabad	09.02.2016 to 12.02.2016
30	Dr Rajeev Kukreja	ME	Training Programme on Wind Energy Technology	National Institute of Wind Energy, Chennai	14.03.2016 to 18.03.2016
31	Dr S K Tiwari	ME	Plant Maintenance Summit - 2016	Hyderabad	10.03.2016 to 13.03.2016
32	Dr Raman Bedi	ME	Plant Maintenance Summit - 2016	Hyderabad	10.03.2016 to 13.03.2016
33	Dr Arvind Bhardwaj	IPE	NBA 3 <sup>rd</sup> World Summit on Accreditation	Gurgaon	18.03.2016 to 20.03.2016
34	Dr Raman Bedi	ME	NBA 3 <sup>rd</sup> World Summit on Accreditation	Gurgaon	18.03.2016 to 20.03.2016
35	Dr Ajay Gupta	IPE	Energy Management Systems Auditor / Lead Auditor Training Course	Chandigarh	28.03.2016 to 31.03.2016
36	Dr Rajeev Trehan	CTP	Energy Management Systems Auditor / Lead Auditor Training Course	Chandigarh	28.03.2016 to 31.03.2016

**Detail of Courses funded under TEQIP-II**

S.No	Title of course	Nature	Dept.	Dates	Organiser(s)	
1	Recent Trends in S/w Engg and Knowledge Mining (RTSEKM-2015)	STC	CSE	01.06.2015 to 05.06.2015	Dr Renu Dhir Dr Harsh Verma	Dr Geeta Sikka Dr Paramvir Singh
2	Advance Material and Characterization techniques	STC	CY and BT	01.06.2015 to 07.06.2015	Dr B S Kaith Dr N C Kothiyal Dr A K Jana	Dr Rajeev Jindal Dr Uma Shanker Dr Jaspreet Kaur
3	High Performance Concrete: Past, Present and Future	STC	CE	15.06.2015 to 19.06.2015	Dr S P Singh	Dr Rizwan A Khan
4	Advanced Engine Technologies (with Open ECUs)	STC	ME	15.10.2015 to 16.10.2015	Dr R S Bharj	Dr S S Sandhu Dr Ajay Trehan
5	Self Assessment Report for NBA Accreditation	Workshop	Institute	31.10.2015 to 01.11.2015	TEQIP and Institute Cell	
6	Ukier Concrete Congress- Concrete Research Driving profit and sustainability	Int. Conference	CE	02.11.2015 to 05.11.2015	Dr S P Singh Dr Raman Bedi	Dr Rizwan A Khan Dr A P Singh
7	19th National Conference on Solid State Nuclear Track Detectors and their Applications (SSNTDs-19)	National Conference	PHY	19.11.2015 to 21.11.2015	Dr Rohit Mehra	
8	Advances in Industrial Biotechnology	STC	BT	30.11.2015 to 04.12.2015	Dr A K Jana Dr Nitain Basak	
9	Recent trends in Applied Mathematics	STC	MA	30.11.2015 to 04.12.2015	Dr R R Sinha Dr Jaspal Singh Dr Aujla Geeta Partap	
10	Current Opportunities and New Directions in Chemical Science and Technology	STC	CY	07.12.2015 to 13.12.2015	Dr Virender Singh	Dr Harsh K Manchanda Dr Jaspreet Kaur
11	Enhancing Efficiency and Effectiveness of PS/PA & Personal Staff	Training Course (Management Enhancement)	NITJ	02.01.2016 to 24.01.2016	Registrar NITJ	
12	Advance in Nuclear and Particle Physics: Present and Future	STC	PHY	08.02.2016 to 12.02.2016	Dr Rohit Mehra Dr Arvind Kumar Dr Harleen Dahiya	
13	Apparel Product Design and Development	STC	TT	11.02.2016 to 13.02.2016	Dr K V P Singh	



**Item Purchased under TEQIP-II (2015-2016)**

S.No	Item Name	Dept.	Purchase Order Placed Date
1	Desktops	CE	04.09.2015
2	Fume Hood	CH	04.09.2015
3	Desktop	CH	21.08.2015
4	OrCAD PSPice Simulation and PCB Design Suite	ECE	24.11.2015
5	Digital Ultrasonic Flaw Detector	IPE	29.05.2015
6	Completer Package of Temperature Measurement Instrument	ICE	29.05.2015
7	MATLAB Simulink and PCB Design Suite	ME-ECE	14.07.2015
8	Current Probe 500 AMPS with DSO	ME	10.12.2015
9	Desktop	ME	28.12.2015
10	Workstation	ME	11.02.2016
11	FPGA based reprogrammable SDR Communication System	ECE	08.12.2015
12	Mobile Robot	ICE	08.06.2015
13	High Speed Digital Camera	ME	14.07.2015
14	Multi Channel Monitoring System	ME	14.01.2016
15	Plasma Welding Machine	ME	14.12.2015
16	Atomic Absorption Spectrophotometer	CH	11.02.2016
17	Projectors (Interactive, Multimedia), Interactive pad with Display and White Boards	CF	31.03.2016

**R&D Project funded under TEQIP-II**

1	Dr Anish Sachdeva	Perianth Racing - SAE Racing Team
2	Dr Rizwan A Khan	Strength and Durability properties of Self compacting concrete containing copper slag as fine aggregate
3	Dr Geeta Sikka	Learnable Indoor Transportation Robot (L.I.T.R).
4	Dr Ramesh K Sunkaria	Image Based Distinct Multiple objects count using Cell based High order Local Autocorrelation in FPGA
5	Dr S K Pahuja,	Feto Maternal Monitoring System
6	Dr S K Pahuja	Design and Implementation of EIT based Hardware for FETO-Maternal Monitoring
7	Er Roop Pahuja	Design and Implementation of an Intelligent Kitchen Model for Smart Homes
8	Dr Rohit Mehra	Estimation of Environmental and Terrestrial Radioactivity in Water and Soil Samples of Mansa and Muktsar district of Punjab
9	Dr R S Bharj	Experimental Investigation of Tribological and Dynamic Mechanical Properties of MWCNT/PTFE Nano Composite
10	Dr R S Bharj	Integrated Multipurpose Solar Hybrid Storage System for Small Scale farmer
11	Dr R S Bharj	Modeling and Simulation of Grain Dryer
12	Dr D K Shukla	Friction Stir Welding of Aluminium alloy
13	Dr Pramod Kumar	Fatigue analysis of Carbon Nano Composite Material
14	Dr S K Sinha	Packing density of modified wool/polyester hand spun and machine spun worsted yarn
15	Dr S K Sinha	Development of low cost Biodegradable oil sorbent
16	Dr S K Sinha	Study on the comfort characteristics of spunlace nonwoven based composite for apparel application
17	Dr A Mukhopadhyay	Study of abrasion resistance of fabrics and yarns in dry and wet mode
18	Dr S K Sinha	To investigate the feasibility of the Eli Twist yarn as sewing thread
19	Dr K V P Singh	Development of face mask from Nettle fibre
20	Dr A Chatterjee	Thermo Electric effects of non metallic textile composite yarns
21	Dr A Chatterjee	Preparation and characterization of graphene coated textile material for various functional applications
22	Dr A Chatterjee	Preparation of non metallic electro conductive textiles and fabrication of measurements set up for EMI shielding
23	Dr V K Midha	Studies on biodegradable geomesh for runoff erosion control using a self designed instrumental setup
24	Dr V K Midha	Studies on optic and thermo optic behaviour of curtain fabrics using a self designed experimental setup
25	Dr A Mukhopadhyay	Clothing comfort

26	Dr V K Midha	Studies on needle heating using inserted thermocouple method
27	Dr A K Choudhary	Study and optimization of hygral and thermal behaviour of knitted active sportswear
28	Dr A K Choudhary	Development of cabin filter
29	Dr Virender Singh	Design and Synthesis of C-3 $\beta$ -Carboline imidazoazine Conjugates via Multicomponent Reaction as Anticancer agents
30	Dr Virender Singh	Exploration of 2-Chloroquinoline 3-carbaldehydes and 2-azidoquinoline 3-carbaldehydes for the synthesis of privileged scaffolds
31	Dr N C Kothiyal	Effect of functionalization and particle size of Graphite powder and pure MWCNT on Mechanical properties, Microstructure and crystallization behaviour of cement Mortar Composites
32	Dr Rajeev Jindal	Synthesis and Characterization of Silver, Gold and Gadolinium based Nanogels and their applications in drug delivery
33	Dr Rajeev Jindal	Synthesis and characterization of Nanogels and their Biomedical applications
34	Dr Jaspreet Kaur	Synthesis of functionalized $\text{Fe}_3\text{O}_4$ nanoparticles as Drug carrier for Anticancer activity
35	Dr Jaspreet Kaur	Pervoskite type mixed ferrite nanoparticles: Photocatalyst for treatment of the industrial effluents of dye industries
36	Dr Balbir Singh Kaith	Preparation of artificial blood vessels using natural backbone- Evaluation of drug diffusion mechanism into the electrolytic fluid
37	Dr Uma Shanker	Green Synthesis of some metal hexacyanometallates and their application in waste water treatment
38	Dr Ajay Bansal, Dr Renu Gupta	Mass transfer studies in lab scale airlift reactor
39	Dr Sangeeta Garg, Dr S Bajpai	Optimization of various parameters for removal of colour from simulated wastewater containing synthetic dye (single and composite system) by Fenton like oxidation using Iron oxide nanoparticles / Degradation study of leather dye by Fenton like oxidation process using Iron oxide nanoparticles
40	Dr Ajay Bansal, Dr M K Jha	Design and operational Analysis of upgraded treatment for real industrial wastewater
41	Dr Jatinder K Rattan	Preparation and characterization of activated carbon
42	Dr Arun Khosla	Eye Tracker based Human Computer Interaction
43	Dr S Bajpai	Design and Performance of Personalized comforter for industrial workers
44	Dr Sangeeta Garg, Dr M K Jha	Removal of Color and COD from Tannery Effluent by using Hybrid Process
45	Dr S Bajpai	Preparation, Characterization and Application of magnetic Nano Composite in treatment of tannery wastewater
46	Dr R K Sunkaria	Tranquil Space System
47	Dr R K Sunkaria	Smart Human Tracking System
48	Dr. Indu Saini	Generation of Electricity from BIOGAS with GAS Leakage Detection
49	Dr Balwinder Raj	Post Accident Remedy System
50	Dr. Indu Saini / Dr Neetu Sood	Modified Solar Power based Vehicle for Physically Challenged person
51	Dr Pramod Kumar	Design and Fabrication of Screw for small scale oil expeller
52	Prof Joseph Anand Vaz	Aerial Surveillance Drone
53	Dr Pramod Kumar	Design and Fabrication of Smart grid inverter
54	Dr Anish Sachdeva	Developing Diesel efficient car with ECU/Speed Governor and Torque Converter

### 11.8 Courses and Admission

Name of Programme	Batch Year	Actual number of Students (FT + PT)	Boys	Girls
B. Tech	2015	695	562	133
M. Tech (FT)	2015	183	136	47
M.Sc	2015	62	45	17
MBA	2015	15	10	5
Ph.D	2015	61	35	26
<b>Total:</b>		<b>1016</b>	<b>788</b>	<b>228</b>

**11.9 Scholarship and Awards****SCHOLARSHIP RECEIVED DURING THE YEAR (01.04.2015 to 31.03.2016)****11.10 Training & Placement Statistics**

<b>Discipline</b>	<b>No. of Eligible Students</b>	<b>No. of Job Offers</b>	<b>No. of Double Job offers</b>
ECE	75	78	17
CSE	74	73	7
CHE	72	48	3
ICE	64	54	8
CIVIL	75	59	13
IPE	65	36	2
ME	69	62	13
BT	26	17	1
TT	48	18	1
Total	568	439	64

**11.11 Department wise-details**

**DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING**  
**DEPARTMENTAL SUMMARY DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	17	No. of PhD completed	-
No. of Journal publications(National)	-	No. of new PhD students enrolled	02
No. of International Conferences attended	07	No. of New PG students completed	25
No. of National Conferences attended	01	No. of New PG students enrolled	17
No. of STC/ Workshops conducted	08	No. of faculty members enrolled for higher qualifications	-
No of conferences conducted	-	No. off faculty members upgraded qualifications	-
No of expert talks delivered by faculty	09	Any other important information	-
No. of expert talks organized	-		-

**FACULTY**

Name	Position	Qualifications
Dr Rajiv Kumar Garg	Professor	Ph. D
Dr Arvind Bhardwaj	Professor	Ph. D
Mr. Raj Kumar Bansal	Associate Professor	M. Tech.
Dr Sarbjit Singh Bal	Associate Professor	Ph. D
Dr Vishal S Sharma	Associate Professor & Head	Ph. D
Dr Ajay Gupta	Associate Professor	Ph. D
Dr Anish Sachdeva	Associate Professor	Ph. D
Dr Lakhwinder Pal Singh Jarangal	Assistant Professor	Ph. D
Dr. Rajiv Trehan	Assistant Professor	Ph. D
Dr Shailender Singh Bhadauria	Assistant Professor	Ph. D

**ACADEMIC PROGRAMMES****Undergraduate Programmes**

- B. Tech.

**Postgraduate Programmes**

- M. Tech. (Full Time) in Manufacturing Technology
- Full and part Time PhD Programme in various disciplines.

**LIST OF LABORATORIES****Under Graduate Laboratories**

- Applied Thermodynamics Laboratory
- Strength of Materials Lab
- Mechanical Measurements and Metrology Laboratory
- Manufacturing Technology Laboratory
- Heat & Mass Transfer Laboratory
- Machine Tool Design Laboratory
- Work Study and Ergonomics Laboratory
- Fluid Mechanics and Machinery Laboratory
- Industrial Automation Laboratory
- CAD/CAM & Robotics Laboratory

**Post Graduate Laboratories**

- Advanced Manufacturing and CAD Laboratory
- Casting and Welding Laboratory

- CIM and Robotics Laboratory
- Metal Cutting and Forming Laboratory

**Research Laboratories**

- Advanced Manufacturing and CAD Laboratory
- Casting and Welding Laboratory
- CIM and Robotics Laboratory
- Metal Cutting and Forming Laboratory
- Work Study and Ergonomics Lab

**RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****Faculty 1: Dr. Rajiv Kumar Garg****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Sumit Jain (PT)	Managing Continuity and Change for Compete++++tiveness in Indian Industry	Awarded 2013	Joint	Dr RK Garg, Dr Sushil
Kuldeep Ojha (FT)	Experimental study PMEDM process for different tool electrode shape designs	Awarded 2012	Joint	Dr RK Garg, Dr KK Sigh
Gaurav Tejpal (PT) 8405202	Impact of Flexibility, Trust & Information Technology on Supply Chain performance for Indian Industry.	Thesis Submitted	Joint	Dr Anish Sachdeva, Dr RK Garg
Vivek Aggarwal (PT) 9405203	Parametric studies on machining characteristics with Wire EDM	Thesis Submitted	Joint	Dr RK Garg, Dr Sehij Pal Singh
Rajeev Trehan (PT) 9405232	Study of cost of Quality (COQ) practices in Indian Engineering Industry	Thesis Submitted	Joint	Dr Anish Sachdeva, Dr RK Garg
Harjit Singh (FT) 12405202	Supply Chain Management.	Comprehe nsive done	Joint	Dr Anish Sachdeva, Dr RK Garg
Sheetal Soda (FT) 12405205	Optimizing Original Gains by reinforcing Green Supply Chain Management measuring in Power Companies of Punjab	Thesis Submitted	Joint	Dr RK Garg, Dr Anish Sachdeva
Ankur Behl (PT) 12405232	Performance modeling of a distillery plant using petrinets and dempster shaker theory of evidence	Comprehe nsive done	Joint	Dr Anish Sachdeva, Dr RK Garg
Jaivir Singh (PT) 13813006	Tool condition monitoring	Comprehe nsive Done	Joint	Dr Vishal Sharma, Dr RK Garg
Deshraj Hathiwal (15513003)	Non-Conventional Machining	Course work completed	Joint	Dr RK Garg, Dr Sehijpal singh

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment /Completed
14216013	JAYDEEP AMETA	"Comparative Assessment of Various Machining Parameters of Electric Discharge Machining of Die Steel D6 with Cryogenically Treated hollow Cu Electrode"	Submit	Sole	Dr. R K Garg	10.06.16

14216014	VIKRANT VERMA	"Comparative Assessment of Different Machining Parameters in Rotary and Stationary Cu Tool EDM for Machining AISI D6 Tool Steel"	Submit	Sole	Dr. R K Garg	14.06.16
14216021	GOPAKU MAR M	"Experimental Investigation of Machining of D-6 DIE Steel By PMEDM"	Submit	Sole	Dr. R K Garg	14.06.16

**Research Publications (International journals):**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	"Optimization of Response Parameters for Polarity in Submerged Arc Welding"	International Journal of Multidiscipline Modeling in Materials and Structures	Vol. 11, Issue 4		July 2015	Ravinder Pal Singh and Dr R K Garg
2.	Analytic Network Process (ANP): An approach for supplier selection in an automobile organization	European journal of advances in engineering and technology	Vol 2, issue 9	pp 83-89	2015	Amit Gupta, O P Singh and Dr R K Garg
3.	"Literature Review of multi-aspect Research Works carried out on the concept and implementation of GSCM"	Int. J. of Industrial and Systems Engineering (IJISE) (Inderscience)	Vol 23, No. 2	pp 223-253	2016	Sheetal Soda, Dr R K Garg and Dr A. Sachdeva

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Organizers	Dates
Executive education programme on Manufacturing excellence : the path of make in India	IIM BANGLORE	03-05, August 2016

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Sponsored by	Participation & awarded
Lean Green Belt –Six Sigma Certification Programme	Department of Industrial and Production Engineering , NIT Jalandhar	14-16 April 2016 & 23-24 April 2016	Self-Sponsored	Participation- 24 & Awarded - 24

**Faculty 2: Dr. Arvind Bhardwaj****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Lakhwinder Pal Singh (PT)	An investigation into Occupational Health of Industrial workers in SME	Awarded 2012	Joint	Dr Arvind Bhardwaj, Dr KK Deepak
Ajay Gupta (PT)	Performance evaluation and improvement of Production systems using Theory of Constraints	Awarded 2012	Sole	Dr Arvind Bhardwaj
Sarbjit Singh (PT)	Green Supply Chain Management in Indian Industry	Awarded 2013	Sole	Dr Arvind Bhardwaj
Rajesh Gupta(PT)	Impact of logistic services and logistic outsourcing on economic development: A study in Indian context	Awarded 2014	Joint	Dr A Bhardwaj, Dr Anish Sachdeva
Manjinder Singh(PT)	Studies on the Role of Total Productive Maintenance in Enhancing Manufacturing Performance of Indian Industry	Awarded 2014	Joint	Dr Anish Sachdeva, Dr A Bhardwaj
Amit Chopra(PT) 9405231	Productivity Enhancement in Indian Process Industry through Reliability Centred Maintenance (RCM)	Thesis Submitted	Joint	Dr Anish Sachdeva, Dr Arvind Bhardwaj

Arjan Singh (FT) 13534001	An ergonomic investigation on occupational Health and related factors of workers engaged in grinding task in manufacturing Industry	Comprehensive Completed	Joint	Dr Lakhwinder Pal Singh, Dr Arvind Bhardwaj
Rahul Mor (FT) 13513003	Study & Analysis of Supply Chain Practice in Dairy Industry	Comprehensive Viva Defended	Joint	Dr Sarbjit Singh, Dr Arvind Bhardwaj
Somvir Arya (PT) 13813003	Reverse Supply Chain Management	Comprehensive Submitted, Viva pending	Joint	Dr Ajay Gupta, Dr Arvind Bhardwaj
Viney Jain (PT) 13813005	Reverse Supply Chain Management	In Process	Joint	Dr Ajay Gupta, Dr Arvind Bhardwaj
Rohit Uppal (PT) 13813009	Supply Chain Management	In Progress	Joint	Dr Sarbjit Singh, Dr Arvind Bhardwaj
Manish Dev (FT) 14513001	An Investigation into the occupational health of welders in Unorganised sector.	Comprehensive viva done	Joint	Dr Arvind Bhardwaj, Dr Sarbjit Singh

### Research Publications (International journals)

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Technological Implementation of Supply Chain Practices in Argi-food Sector- A Review"	International Journal of Supply and Operation Management	volume 2, Issue 2, ISSN 2383-2525	pp.720-747	August 2015	Rahul S Mor, Sarbjit Singh, Arvind Bhardwaj and LP Singh
2.	Learning on Lean Production: A Review of Opinion and Research within Environmental Constraints, Operations and Supply Chain Management	An International Journal	Vol. 9, No. 1	pp. 61-72	2016	Arvind Bhardwaj
3.	Critical factors analysis and its ranking for implementation of GSCM in Indian dairy industry	Journal of Manufacturing Technology Management	Vol. 26, No. 6	pp. 911-922	2015	Arvind Bhardwaj

### 1. Short Term Courses/Workshops/Seminars organized:

Title of course	Name of organizer	Dates	Sponsored By
Operation and supply chain management	Department of Industrial and Production Engineering, NIT Jalandhar	5 <sup>th</sup> – 9 <sup>th</sup> Sept., 2016	TEQIP-II

### 2. Expert talks delivered:

Title of talk	Name of expert	Event of talk delivered	Date of talk
Linear programming approach for solving multi echelon transportation problem using solver	Dr. A. Bhardwaj	PTU Sponsored FDP at SSIET Gurdaspur	24.May.2015
Introduction to supply chain management	Dr. A. Bhardwaj	Staff training programme GNDU, Amritsar	3.May.2016

**FACULTY 3: Mr. R. K. Bansal****Faculty 4: Dr. S. S. Bal****PhD guidance:**

Name of Candidate(FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Johny khajuria (FT) 13513002	Ergonomic investigation of musculoskeletal disorders in wood based sports goods industrial workers in northern India	Comprehensive Completed	Joint	Dr Lakhwinder Pal Singh, Dr Sarbjit Singh
Rahul Mor FT) 13513003	Study & Analysis of Supply Chain Practice in Dairy Industry	Comprehensive Viva Defended	Joint	Dr Sarbjit Singh, Dr Arvind Bhardwaj
Navin Kumar (PT) 13813008	Supply Chain Management	Ph D Course Work Completed. Working On Comprehensive	Sole	Dr Sarbjit Singh
Rohit Uppal (PT) 13813009	Supply Chain Management	In Progress	Joint	Dr Sarbjit Singh, Dr Arvind Bhardwaj
Manish Dev (FT) 14513001	An Investigation into the occupational health of welders in Unorganised sector.	Comprehensive viva done	Joint	Dr Arvind Bhardwaj, Dr Sarbjit Singh
Amandeep Singh (FT) 14513003	Human factors Engineering	Comprehensive Completed	Joint	Dr LP Singh, Dr Sarbjit Singh, Dr Harvinder Singh
Gurpartap Singh(FT) 14513004	Manufacturing Technology	Comprehensive Completed	Joint	Dr Sarbjit Singh, Dr Rupinder Singh

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14216002	PRAVEEN KUMAR	"Investigation of Physico-Chemical Parameters for Monitoring of River Water Quality: A Case Study of Gomti River in India"	Submit	Sole	Dr Sarbjit Singh	10.06.16
14216007	ATUL SINGH	"To Study the E-Waste Management Awareness in Education Institutes"	Submit	Sole	Dr Sarbjit Singh	23.06.16
14216010	SRAVAN KUMAR	"Assessment of Water quality on River Kali Bein Using Multivariate Statistical Techniques"	Submit	Joint	Dr Sarbjit Singh & Dr L P Singh	
14216017	MOHAMMAD OSAMA	"An Investigation into awareness level of Biomedical Waste Management"	Submit	Sole	Dr Sarbjit Singh	23.06.16

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Technological Implementation of Supply Chain Practices in Argi-food Sector- A Review"	International Journal of Supply and Operation Management	volume 2, Issue 2, ISSN 2383-2525	pp.72 0-747	August 2015	Rahul S Mor, Sarbjit Singh, Arvind Bhardwaj and LP Singh

**International Conference:**

Presented a paper titled "**Study the effect of thermal plant on environment**" in HWWE 2015 hosted by IIT Bombay and NITIE Mumbai and PEC Chandigarh during December 06-09, 2015.



**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Sponsored By
Operation and supply chain management	Dr. Arvind Bhardwaj, Dr. S.S. Bal, Dr. Anish Sachdeva, Dr. L.P. Singh	5 <sup>th</sup> – 9 <sup>th</sup> Sept., 2016	TEQIP-II
Building Global Enterprise -India	Harvard Business School at Mumbai, INDIA	May23-26, 2016	

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Sponsored By
Operation and supply chain management	Dr. Arvind Bhardwaj, Dr. S.S. Bal, Dr. Anish Sachdeva, Dr. L. P. Singh	5 <sup>th</sup> – 9 <sup>th</sup> Sept., 2016	TEQIP-II

**Faculty 5: Dr. Vishal S Sharma, HOD****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Monu Dogra (PT)	Investigation of Tool wear and Surface Quality in Hard Turning	Awarded 2012	Joint	Dr Vishal Sharma, Dr Anish Sachdeva, Dr NM Suri
Sharanjit Singh (FT)	Parameterization and Characterization of Selective Laser Sintered parts	Awarded 2012	Joint	Dr Anish Sachdeva, Dr Vishal Sharma
GurRaJ Singh (FT) 12405201	Machining of metals using minimum quantity lubrication.	Comprehensive done	Sole	Dr Vishal Sharma
Amit Sharma (PT) 12405231	Energy Analysis in Manufacturing Industry	In Process	Joint	Dr Ajay Gupta, Dr Vishal Sharma
Pranshu (PT) 13813002	Energy Efficient Solar System	Comprehensive done	Joint	Dr. Vishal Sharma, Dr. Ajay Gupta
Harpinder Sigh (PT)13813004	Minimum Quantity Lubrication: An Explorative and Comparative study on Grinding Titanium and Inconel	Comprehensive Done	Joint	Dr Vishal S Sharma, Dr Manu Dogra, Dr Sarabjit Singh
Jaivir Singh (PT) 13813006	Tool condition monitoring	Comprehensive Done	Joint	Dr Vishal Sharma, Dr RK Garg
AnubhavTaheem (PT)14813002	Maintenance engineering	Comprehensive Completed	Joint	Dr Vishal Sharma, Dr Anish Sachdeva

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14216005	AMIT BHADANE	"Finite Elements Analysis of Orthogonal Metal Cutting of A6061 (T6) Aluminium Alloy"	Submit	Sole	Dr Vishal Sharma	09.06.16
14216012	ATISH VERMA	Stability Lobes for Milling Process	Submit	Sole	Dr Vishal Sharma	18.07.16
14216023	ANUJ KUMAR GARG	"Chatter Stability and Tool Wear Prediction During Orthogonal Turning by Considering Sharp Tool"	Submit	Sole	Dr Vishal Sharma	09.06.16
14216025	DEEPAK KR SHARMA	"Optimizing Machining Parameters While During Steel (SS 316L) Under MQL Conditions "	Submit	Sole	Dr Vishal Sharma	23.06.16

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	"Analyzing machining parameters for commercially pure titanium (Grade 2), cooled using minimum quantity lubrication assisted by a Ranque-Hilsch vortex tube"	International Journal of Advanced Manufacturing Technology	doi:10.1007/s	00170-016-8982-9	2016	GurRaj Singh, Vishal S. Sharma.

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Organizers	Dates
Short Term Course on INTEGRATED AUTOMATION TECHNOLOGIES	IIT Delhi	(1-6 June 2015)
Automatic Control Systems Engineering with MATLAB/SIMULINK:	Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala	17-20 May 2016

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates
PERSPECTIVES OF MACHINING: PRESENT AND FUTURE	Dr Vishal S Sharma, Dr Ajay Gupta, Dr Anish Sachdeva	(11-07-2016 to 15-07-2016)

**3. Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk
"Manufacturing processes for sustainability"	Vishal S Sharma	Short Term Course on Advance Manufacturing, organized by Mechanical Engineering Department at NIT Hamirpur w.e.f. July 6-10, 2015.	10 July, 2015

**Faculty 6: Dr. Ajay Gupta****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Rohit Sharma (FT) 12405203	Impact of Lean Manufacturing Practices on Organisational Performance: An Exploratory Study in Automobile Sector	Comprehensive done	Joint	Dr Anish Sachdeva, Dr Ajay Gupta
Amit Sharma (PT) 12405231	Energy Analysis in Manufacturing Industry	In Process	Joint	Dr Ajay Gupta, Dr Vishal Sharma
Ishwar Chander Ramola (PT) 12405233	Experimental investigation of machining of tantalum/tantalum alloy with EDM	Comprehensive done	Sole	Dr Ajay Gupta
Surjit Kumar Gandhi (FT) 13513001	Impact of service quality attributes in the supply chain of Indian Small & medium Manufacturing enterprises	Comprehensive done	Joint	Dr Anish Sachdeva, Dr Ajay Gupta
Somvir Arya (PT) 13813003	Reverse Supply Chain Management	Comprehensive Submitted, Viva pending	Joint	Dr Ajay Gupta, Dr Arvind Bhardwaj
Viney Jain (PT) 13813005	Reverse Supply Chain Management	In Process	Joint	Dr Ajay Gupta, Dr Arvind Bhardwaj
Pranshu (PT) 13813002	Energy Efficient Solar System	Comprehensive done	Joint	Dr. Vishal Sharma, Dr. Ajay Gupta
Shiv Dev Singh (FT) 14513002	Machining/welding	Comprehensive Completed	Sole	Dr Ajay Gupta

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14216020	GAURAV GARG	"Organisational Efficiency Improvement: A Case Study in Corrugation Industry"	Submit	Sole	Dr Ajay Gupta	
14216022	RUCHIKA BHATNAGAR	Implimentation of Lean Tools: A Case Study in Ball Valve Industry	Submit	Sole	Dr Ajay Gupta	23.06.16
14216024	GAURAV UPADHYAY	"Controlling The Work in Process Inventory Using Flexsim"	Submit	Joint	Dr Anish Sachdeva and Dr Ajay Gupta	10.06.16

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	CFD Based heat transfer analysis of solar air heater duct provided with artificial roughness	International journal of Scientific and Engineering Research	Vol 6, issue 5	ISSN 2229-5518 pp 28-35	May 2015	V Rao, Ajay Gupta, Amit Kumar

**National Conference Attended:**

1. Gandhi S.K., Sachdeva Anish, Gupta Ajay "industry specific service quality models in supply chain- a review" 2<sup>nd</sup> National conference on Mechanical Engineering, University institute of Engineering and Technology, Punjab university regional centre Hoshiarpur, 06/11/15- 07/11/15.

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Organizers	Dates
Fundamentals and advanced concepts of Lean Manufacturing and Six Sigma	NIT Tiruchirappalli	25/07/16 – 30/07/16
Training program on energy audits	BSI- Chandigarh	28/03/16 – 01/04/16
Training programme on CNC Turning and CNC Milling using MTS software and MTAB XLTURN and XLMILL CNC equipment's	MTAB Engineers Pvt. Ltd. Chennai	04/01/16- 07/01/16
Advanced Engine Technologies	NIT Jalandhar	15/10/15 16/10/15

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates
Workshop on finite elements analysis organized by Creo soft limited	Dr. Ajay Gupta	28/03/16 – 30/03/16
Fundamentals and applications of finite element methods	Dr. S.S. Bhadauria, Dr. Ajay Gupta	13/06/16 – 17/06/16
Perspective of machining – present and future	Dr. Vishal S Sharma, Dr. Ajay Gupta, Dr. Anish Sachdeva	11/07/16 – 15/07/16

**3. Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk
Trekking it's basics and famous trekking spots in Himachal	Dr. Ajay Gupta	University institute of Engineering and Technology, Punjab university regional centre Hoshiarpur	06/10/15
Role of Theory of Constraints in effective Management of an organization	Dr. Ajay Gupta	2 <sup>nd</sup> National conference on Mechanical Engineering , University institute of Engineering and Technology, Punjab university regional centre Hoshiarpur	07/11/15

Title of talk	Name of expert	Event of talk delivered	Date of talk
Fundamental concepts of Theory of Constraints	Dr. Ajay Gupta	Delivered at Samrat Ashoka Technological Institute, Vidisha, MP	27/08/16

**Faculty 7: Dr. Anish Sachdeva****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Monu Dogra (PT)	Investigation of Tool wear and Surface Quality in Hard Turning	Awarded 2012	Joint	Dr Vishal Sharma, Dr Anish Sachdeva, Dr NM Suri
Sharanjit Singh (FT)	Parameterization and Characterization of Selective Laser Sintered parts	Awarded 2012	Joint	Dr Anish Sachdeva, Dr Vishal Sharma
Rajesh Gupta(PT)	Impact of logistic services and logistic outsourcing on economic development: A study in Indian context	Awarded 2014	Joint	Dr A Bhardwaj, Dr Anish Sachdeva
Manjinder Singh(PT)	Studies on the Role of Total Productive Maintenance in Enhancing Manufacturing Performance of Indian Industry	Awarded 2014	Joint	Dr Anish Sachdeva, Dr A Bhardwaj
Gaurav Tejpal (PT) 8405202	Impact of Flexibility, Trust & Information Technology on Supply Chain performance for Indian Industry.	Thesis Submitted	Joint	Dr Anish Sachdeva, Dr RK Garg
Amit Chopra(PT) 9405231	Productivity Enhancement in Indian Process Industry through Reliability Centred Maintenance (RCM)	Thesis Submitted	Joint	Dr Anish Sachdeva, Dr Arvind Bhardwaj
Rajeev Trehan (PT)9405232	Study of cost of Quality (COQ) practices in Indian Engineering Industry	Thesis Submitted	Joint	Dr Anish Sachdeva, Dr RK Garg
Harjit Singh (FT) 12405202	Supply Chain Management.	Comprehensive done	Joint	Dr Anish Sachdeva, Dr RK Garg
Rohit Sharma (FT) 12405203	Impact of Lean Manufacturing Practices on Organisational Performance: An Exploratory Study in Automobile Sector	Comprehensive done	Joint	Dr Anish Sachdeva, Dr Ajay Gupta
Sheetal Soda (FT) 12405205	Optimizing Original Gains by reinforcing Green Supply Chain Management measuring in Power Companies of Punjab	Thesis Submitted	Joint	Dr RK Garg, Dr Anish Sachdeva
Ankur Behl (PT) 12405232	Performance modeling of a distillery plant using petrinets and dempster shaker theory of evidence	Comprehensive done	Joint	Dr Anish Sachdeva, Dr RK Garg
Surjit Kumar Gandhi (FT) 13513001	Impact of service quality attributes in the supply chain of Indian Small & medium Manufacturing enterprises	Comprehensive done	Joint	Dr Anish Sachdeva, Dr Ajay Gupta
AnubhavTaheem (PT) 14813002	Maintenance engineering	Comprehensive Completed	Joint	Dr Vishal Sharma, Dr Anish Sachdeva
Suraj Choudhary (FT) 15513004	Solar energy	Course work completed	Joint	Dr Anish Sachdeva, Dr Parmod Kumar

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment /Completed
14216001	RAHUL KUMAR	"Controlling Work in Process Inventory Using Flexsim	Submit	Dr Anish Sachdeva	Sole	14.06.16
14216024	GAURAV UPADHYAY	"Controlling The Work in Process Inventory Using Flexsim"	Submit	Dr Anish Sachdeva and Dr Ajay Gupta	Joint	10.06.16

**Research Publications (International journals):**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Implementation of green supply chain management in India: Bottlenecks and remedies	The Electricity Journal	vol. 29	pp 43–50	2016	Sheetal Soda*, Anish Sachdeva, Rajiv Kumar Garg
2.	Experimental investigation of effect of roller burnishing process parameters on surface roughness and surface hardness of C40E steel	Int. J. Machining and Machinability of Materials	Vol. 18, Nos. 1/2	pp 185-199	2016	Naresh Kumar*, Anish Sachdeva, Lakhwinder Pal Singh, Himanshu Tripathi
3.	Literature review of multi-aspect research works carried out on the concept and implementation of GSCM	International Journal of Industrial and Systems Engineering	Vol. 23, No. 2	pp 223-253	2016	Sheetal Soda*, Anish Sachdeva and Rajiv Kumar Garg
4.	GSCM: practices, trends and prospects in Indian context	Journal of Manufacturing Technology Management	Vol. 26, Issue 6	pp. 889 - 910	2015	Sheetal Soda, Anish Sachdeva, Rajiv Kumar Garg

**International Conference Attended:**

1. Presented a research paper titled “Application of Stochastic Petri nets in Reliability Analysis of a Paper Plant” in International Conference on Mechanical, Production and Industrial Engineering held at Pattaya, Thailand during May 28-29, 2016.
2. Presented a research paper titled “Status of Green Supply Chain Management Practices in Power Companies” in Proceeding for International Conference on Emerging Trends in Engineering and Technology held at Goa during June 11-12, 2016.

**1. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates
Fundamentals and Applications of Finite Element Method	Dr. Anish Sachdeva	13th -17th June 2016
Operation and supply chain management	Dr. Arvind Bhardwaj, Dr. S.S. Bal, Dr. Anish Sachdeva, Dr. L.P.Singh	5 <sup>th</sup> – 9 <sup>th</sup> Sept., 2016
PERSPECTIVES OF MACHINING: PRESENT AND FUTURE	Dr Vishal S Sharma, Dr Ajay Gupta, Dr Anish Sachdeva	(11-07-2016 to 15-07-2016)

**Faculty 8: Dr. L.P. Singh****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Harbir Singh (PT) 10405232	Ergonomic Investigation with respect to the development of occupational stress and Musculoskeletal Disorders among the insurance office employees	Thesis Submitted	Sole	Dr LP Singh
Satnam Singh (PT) 12405236	Investigation into occupational safety of industrial workers.	Comprehensive done	Sole	Dr LP Singh
Rajinder Kumar Moom (PT) 12405235	To investigate the occupational Factors affecting the performance of bank employees	Comprehensive Submitted	Sole	Dr LP Singh
Johny khajuria (FT) 13513002	Ergonomic investigation of musculoskeletal disorders in wood based sports goods industrial workers in northern India	Comprehensive Completed	Joint	Dr Lakhwinder Pal Singh, Dr Sarbjit Singh
Arjan Singh (FT) 13534001	An ergonomic investigation on occupational Health and related factors of workers engaged in grinding task in manufacturing Industry	Comprehensive Completed	Joint	Dr Lakhwinder Pal Singh, Dr Arvind Bhardwaj
Mahipal Singh (PT) 13813007	Ergonomics	In process	Sole	Dr LP Singh

Amandeep Singh (FT) 14513003	Human factors Engineering	Comprehensive Completed	Joint	Dr LP Singh, Dr Sarbjit Singh, Dr Harvinder Singh
Guravtar Singh Maan (PT) 14813001	Machining	Comprehensive Completed	Sole	Dr LP Singh

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14216004	AJEET SINGH	"Optimization of Process Parameters in MIG Welding Using Taguchi Based Grey Relation Analysis Wording on IS-2062"	Submit		Dr L P Singh	
14216010	SRAVAN KUMAR	"Assessment of Water quality on River Kali Bein Using Multivariate Statistical Techniques"	Submit		Dr Sarbjit Singh & Dr L P Singh	
14216011	TALWAR RAGHU PATHI	"Investigation on Critical Triaxiality Along Unified yield Loci at Crack Tip Under Mixed Mode (I+II) Fracture"	Submit		Dr L P Singh	16.06.16
14216018	SANDEEP SINGH	Optimization of Gating System for Industrial Valve Using DOE and Casting Simulation Technique	Submit		Dr L P Singh	18.07.2016

**Research Publications (International journals):**

S. No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Technological Implementation of Supply Chain Practices in Agri-food Sector- A Review"	International Journal of Supply and Operation Management	volume 2, Issue 2, ISSN 2383-2525	pp.72 0-747	August 2015	Rahul S Mor, Sarbjit Singh, Arvind Bhardwaj and LP Singh
2.	Experimental investigation of effect of roller burnishing process parameters on surface roughness and surface hardness of C40E steel	Int. J. Machining and Machinability of Materials	Vol. 18, Nos. 1/2	pp 185-199	2016	Naresh Kumar*, Anish Sachdeva, Lakhwinder Pal Singh, Himanshu Tripathi
3.	Integrated Forecasting Using the Discrete Wavelet Theory and Artificial Intelligence Techniques to Reduce the Bullwhip Effect Supply Chain	Global Journal of Flexible Systems Management	10.1007/s40171-015-0115-z		2015	Lakhwinder Pal Singh, Ravi Teja Challa

**International Conference Attended:**

1. Rajinder Kumar Moom, Dr. Lakhwinder Pal Singh, Neelam Moom "Prevalence of Musculoskeletal Disorder among Computer Bank Office Employees in Punjab (India): A Case Study" at 6<sup>th</sup> International Conference on Applied Human Factor and Ergonomics (AHFE-2015), Procedia Manufacturing 3 (2015) 6624-6631
2. Presented research paper titled "Exploring Potential for solar photovoltaic park: A case study on Madhya Pradesh State of India" during International Conference on Energy, Environment and Economics (ICEEE-2016), 16-18 august 2016, Heriot – Watt University, Edinburgh, United Kingdom.

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Organizers	Dates
Multivariate Data Analysis	IIM Kozhikode	June15-19, 2015
Creating Successful New Products	IIM Bangalore	11-13 July, 2016
Operation and supply chain management	Dr. L.P. Singh	5 <sup>th</sup> – 9 <sup>th</sup> Sept., 2016

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Sponsored By
Operation and supply chain management	Dr. Arvind Bhardwaj, Dr. S.S. Bal, Dr. Anish Sachdeva, Dr. L.P. Singh	5 <sup>th</sup> – 9 <sup>th</sup> Sept., 2016	TEQIP-II

**FACULTY 9: Dr. Rajiv Trehan****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Manoj Kumar Singh(FT) 16405202	Supply Chain Management	In Process	Sole	Dr. Rajeev Trehan

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14216008	SUBRAT KUMAR	"Experimental Study of Wire Offset in Wire Cut EDM on EN 31 Material"	Submit	Sole	Dr Rajeev Trehan	13.07.16
14216016	MANOJ KUMAR SINGH	Investigation of Process Parameters for Improvement of surface Roughness and MRR of Inconel 625 by Grey-Taguchi Methodology During AWJM"	Submit	Sole	Dr Rajeev Trehan	23.06.16

**Faculty 10: Dr. Shailender Singh Bhadauria****PhD guidance:**

Name of Candidate (FT / PT) & Roll No.	Title	Status	Sole or joint	Name of joint supervisor
Ruchin Kacker (FT) 12405204	Investigations on Stress Triaxiality For Anisotropy and Unified Strength Theory Under Mixed Mode(I/II) Fracture	Comprehensive done	Sole	Dr. Shailendra Singh Bhadauria
Surinder Pal (FT) 15513001	Investigation of stress corrosion Cracking on Gate valve disc.	Course work completed	Joint	Dr. Shailendra Singh Bhadauria, Dr. Pramod Kumar.
Kamleshwar Kumar (FT) 16405201	Fracture mechanics	In Process	Joint	Dr. Shailendra Singh Bhadauria, Dr. Abhinav Pratap Singh

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14216003	VINAY KUMAR	Unified Triaxiality and Strain Energy Density Criterion Based Mixed Mode (I+II) Fracture	Submit	Sole	Dr S S Bhaduria	13.07.16
14216009	KAMLESHWAR KUMAR	"Optimizing Machining Parameters While During Steel (SS 316L) Under MQL Conditions "	Submit	Sole	Dr S S Bhaduria	16.06.16
14216015	NAGESH VERMA	"Experimental Investigation in Wire EDM of EN47 Using Taguchi Methodology"	Submit	Sole	Dr S S Bhaduria	09.06.16

**Research Publications (International journals)**

S. No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Triaxiality at the crack tip for combined Lankford's coefficient and degree of anisotropy subjected to mixed – mode (I/II)	International Journal of Mechanics of Advanced Materials and Structures			22 Dec 2015.	Ruchin kackar, Shailender Singh Bhadauria
2.	Crack tip constraint for anisotropic sheet Metal plate subjected to Mode-1 Fracture	Journal of Solid Mechanics	Vol. 8, No.2	pp. 384-402.	2016	R. Kackar, S.S. Bhadauria

**International Conference Attended:**

1. Paper titled of “**Process and Application of Casting Simulation and Its Software**” presented in International Conference On Recent Trends in engineering and Material Science (**ICEMS-2016**) in March 17-19, 2016 at Jaipur National university, India.
2. Paper titled of “**Fundamental Dissension Between Hot and Cold Pressure Die casting**” presented in International Conference On Recent Trends in engineering and Material Science (**ICEMS-2016**) in March 17-19, 2016 at Jaipur National university, India.

**1. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates
Fundamentals and Applications of Finite Element Method	Dr. S.S. Bhadauria	13 <sup>th</sup> -17 <sup>th</sup> June 2016
Skill Development Program on Ansys	Dr. S.S. Bhadauria	28-30 March 2016
Introduction to Abacus – A FEA Package	Dr. S.S. Bhadauria	25 <sup>th</sup> – 27 <sup>th</sup> June 2016
Design & Assembly with Solid Works	Dr. S.S. Bhadauria	13 <sup>th</sup> – 14 <sup>th</sup> Aug 2016

**2. Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk
Introduction to Fracture Mechanics	Dr. S.S. Bhadauria	Invited expert talk	10 <sup>th</sup> Aug. 2015
Fracture Mechanics for Engineers	Dr. S.S. Bhadauria	Invited expert talk	5 <sup>th</sup> Feb. 2015
Experimental Fracture Mechanics	Dr. S.S. Bhadauria	Invited expert talk	7 <sup>th</sup> Feb 2015



**HUMANITIES AND MANAGEMENT****DEPARTMENTAL SUMMARY**

No. of Journal publications(Inter.)	<u>6</u>	No. of expert talks organized	<u>Nil</u>
No. of Journal publications(Nat.)	<u>Nil</u>	No of PhD students completed	<u>2</u>
No. of STC conducted	<u>Nil</u>	No of new PhD students enrolled	<u>6</u>
No of workshops/ conferences conducted	<u>Nil</u>	No of New MTech students enrolled	<u>NA</u>
No. of Mtech students completed	<u>NA</u>	No of conferences attended	<u>2</u>

**1. FACULTY**

S No.	NAME	Position	QUALIFICATIONS
1.	Dr. S. J. S. Bedi	Associate Professor & Head	PhD, MBA, MSc (Chemistry)
2.	Dr. Jagwinder Singh	Assistant Professor	PhD, MBA
3.	Dr. Kumar Parag	Assistant Professor	PhD, MA
4.	Dr. Aditya Prakash	Assistant Professor	PhD, MPhil, MA

**2. ACADEMIC PROGRAMS****Undergraduate Programs**

The department offers Core and Elective courses to the B. Tech. students of all Engineering disciplines. The compulsory courses in the B. Tech new scheme are:

- Introduction to Management Human Values and Behavior
- English Communication Skills
- English Communication Laboratory
- Engineering Economics and Industrial Management
- Entrepreneurship Development & Management
- Human Resource Management and Industrial Relations
- Soft Skills and Personal Interviews

**The Open Elective courses offered by the Department are:**

- Engineering Economics and Industrial Management
- Human Resource Management and Industrial Relations
- Entrepreneurship Development & Management
- Business Environment
- Organizational Behavior
- Logistics and Distribution Management
- Industrial Psychology
- Marketing Management
- Reading in Literature and Linguistics
- Business Ethics
- Knowledge Management
- Managerial Economics
- Financial and Cost Accounting

**POSTGRADUATE PROGRAMME**

The department commenced its two-year full-time **MBA Programme** in the last academic session at par with leading Management Schools offering specialization in **Marketing Management, Human Resource Management, Financial Management, Strategic Management and Information Technology.**

**DOCTORAL PROGRAMME**

The Department offers PhD Programme in the following areas:

- Human Resource Management
- Marketing Management
- Entrepreneurship Development & Management
- English Literature
- Linguistics

Earlier two full-time students and one part-time student had registered in the Department of Humanities & Management. Five more candidates got themselves enrolled for the full time PhD and two for part time PhD program in the academic session 2013-14.

### 3. Development of Laboratories

#### COMMUNICATION AND COMPUTER LABORATORY

The department has a Communication Laboratory and a Computer Laboratory in order to facilitate the students.

### 4. Research and Development Activities:

**Name of the Faculty: Dr. Sarabjit Singh Bedi**

#### PhD Guidance

Name of Candidate	Title	Status	Sole or joint candidate	Name of joint supervisor
Mr. Amit Lal	Identification of Consumer Decision Making Style of Young Adults in Shopping Malls in India	PhD Completed	Sole	NIL
Ms. Sukhwinder Kaur	E- Marketing(Broad Area)	Comprehensive held.	Sole	NIL
Ms. Taranjit	Leadership	Comprehensive held.	Sole	NIL
Ms Ramanpreet Kaur	Services Marketing	Course Work Completed	Sole	NIL
Ms Talvinder Kaur	Brand Management	Coursework in progress	Sole	NIL

**Name of the Faculty: Dr. Jagwinder Singh**

Name of Candidate	Title	Status	Sole or joint candidate	Name of joint supervisor
Ms. Shivani	Role of consumer Experience Management Vs Consumer Relationship Management in Consumer Loyalty	PhD Completed	Sole	NIL
Ms. Payal	Managing faculty training & development with special reference to higher education institutes.	Comprehensive held	Sole	NIL
Mr. Lovekesh	Consumer behaviour in rural marketing.	Comprehensive held	Sole	NIL
Ms. Ranjit Kaur	Social Marketing (Swach Bharat Abhiyan)	Course Work Completed	Sole	NIL
Mr. Asrar Ahmed Teeli	Social Marketing (Tobacco Abuse)	Course Work Completed	Sole	NIL

**Name of the Faculty: Dr. Kumar Parag**

Name of Candidate	Title	Status	Sole or joint candidate	Name of joint supervisor
Mr. Anand Bajaj	Marginalized Voices in the Select Fiction of Rohinton Mistry, Arundhati Roy and Taslima Nasrin: A Postcolonial Perspective	Comprehensive held.	Sole	NIL
Ms.Shubhra	English Literature(title yet to be decided)	Comprehensive held	Sole	NIL

**Name of the Faculty: Dr. Aditya Prakash**

Name of Candidate	Title	Status	Sole or joint candidate	Name of joint supervisor
Ms Shivani Wadhwa	Pinglishization of English in punjabi	Course work completed	Sole	NIL
Ms.Amita	Lexico-Semantic analysis of language of advertisements	Course work completed	Sole	NIL

**M-Tech guidance: NA****Research Publications (International Journals)****Name of the Faculty : Dr. Sarbjit Singh Bedi**

S.No	Title of paper	Journal Name	Volume Number	Page No	Publication year	Authors as on the article
1.	"Impact of Television Advertisement on Children Behaviour: A qualitative Research in India".	ICFBE- Conference Proceeding WASET, Melbourne	Vol.1, No.1	250-253	2013	Dr.Sarbjit Singh Bedi, Mr. Amit Kumar Lal
2.	"Private Label Brands: A new choice for organised retail consumers in Punjab"	Asian Journal of Research in Social Sciences and Humanities	Vol.4, No. 1	73-76	2013	Dr. Sarbjit Singh Bedi, Mr. Amit Kumar Lal and Ms. Sukhwinder Kaur
3.	"A Study of Shopping styles of Working Professionals in Malls of India".	Pezzottaite Journals, International Journal of Retailing and Rural Business Perspectives	Vol 3, No.2	870-876	2014	Dr. Sarbjit Singh Bedi and Mr. Amit Kumar Lal
4.	"Identification of Consumer Decision Making Style of Young Adults in India".	Asia Pacific Journal of Management Research and Innovation	Vol 10, No.3	126	2014	Dr. Sarbjit Singh Bedi and Mr. Amit Kumar Lal

**Name of the Faculty : Dr. Kumar Parag**

S.No	Title of paper	Journal Name	Volume Number	Page No	Publication year	Authors as on the article
1.	"Cross Cultural Perspective in Bharti Mukherjee's Jasmine"	Reflections		125-128	2013	Dr. Kumar Parag
2.	"Identity of Muslim Women in Hindi Movies"	European Academic Research (Online International Journal)			2013	Dr. Kumar Parag

5. **Any other significant achievement:** A compulsory non credit course –“Soft Skills and Personal Interviews” for 3<sup>rd</sup> year students of all Branches has been introduced by the Department in the academic session 2014-2015.

**DEPARTMENT OF PHYSICS****DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	41	No. of PhD completed	01
No. of Journal publications(National)	04	No. of new PhD students enrolled	04
No. of International Conferences attended	05	No. of New PG students completed	18
No. of National Conferences attended	08	No. of New PG students enrolled	22
No. of STC/ Workshops conducted	01	No. of faculty members enrolled for higher qualifications	-
No of conferences conducted	01	No. off faculty members upgraded qualifications	01
No of expert talks delivered by faculty	10	Any other important information	
No. of expert talks organized	01		

**FACULTY**

Name	Position	Qualifications
Dr Arvinder Singh	Professor	Ph. D.
Dr H M Mittal	Associate Professor	Ph. D.
Dr Jyoti Bharj	Associate Professor & Head	Ph. D.
Dr Rohit Mehra	Associate Professor	Ph. D.
Dr Harleen Dahiya	Assistant Professor	Ph. D.
Dr Praveen Malik	Assistant Professor	Ph. D.
Dr Abhinav Partap Singh	Assistant Professor	Ph. D.
Dr Arvind Kumar	Assistant Professor	Ph. D.

**ACADEMIC PROGRAMMES****Undergraduate Programmes**

- B. Tech.

**Postgraduate Programmes**

- M. Sc. Physics
- M. Tech. (Full Time) in Nuclear Science and Engineering
- M. Tech. (Part Time) in Material Science and Engineering
- Full and part Time Ph D Programme in various disciplines of Physics viz. Laser Plasma Interaction, Electromagnetic Field Theory, Nuclear Physics, Radiation Physics, Particle Physics, Liquid Crystal, Condensed Matter Physics

**LIST OF LABORATORIES****Under Graduate Laboratories**

- Physics Laboratory
- Material Science & Engineering Laboratory

**Post Graduate Laboratories**

- Electronics Laboratory
- Computer Laboratory
- Solid State Physics Laboratory
- Nuclear Physics Laboratory
- Plasma Physics Laboratory
- Spectroscopy Laboratory

**Research Laboratories**

- Computational Plasma Research Lab
- Radiation Monitoring and Assessment Lab

- Liquid Crystal Lab High Energy Physics Computational Lab
- Thin Film Lab
- Advanced Nuclear Physics Research Lab
- Nanomaterials synthesis and characterization Lab

### RESEARCH AND DEVELOPMENT ACTIVITIES( Faculty wise)

#### Faculty 1: Dr Arvinder Singh

##### PhD guidance:

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
12413102	Naveen Gupta	Theoretical Investigation of Some Nonlinear Phenomenon in Preformed Plasma Channel	Ongoing (Full Time)	Sole	N/A	31-07-2012
12413134	Joyti Rajput	Laser Induced electron acceleration in Vacuum and Plasma	Ongoing (Part Time)	Joint	Dr Nitikant	27-07-2012

##### PG guidance:

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13322 001	Rajpreet Kaur	Terahertz Generation of Ultra Intense Dark Hollow Laser Beam by Relativistic Self-Focusing in Under Dense Plasma	Completed	Sole	N/A	May , 2015
13322 023	Gaganpreet Kaur	Terahertz Generation of Self-Focused Dark Hollow Laser Beam in Collisional Plasma	Completed	Sole	N/A	May , 2015

##### Research Publications (International journals)

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
4.	Second Harmonic Generation of Self-Focused Cosh-Gaussian Laser Beam in Thermal Quantum Plasma by Excitation of an Electron Plasma Wave	Contribution to Plasma Physics (Wiley-VCH Verlag.)	Accepted		2016	Naveen Gupta and Arvinder Singh
5.	Effect of Cross-Focusing of Two q-Gaussian Laser Beams on Excitation of Electron Plasma Wave in Collisional Plasma	Optik (Elsevier)	Accepted		2016	Naveen Gupta and Arvinder Singh
6.	Second Harmonic Generation of Self-Focused Cosh-Gaussian Laser Beam in Collisional Plasma	Optik (Elsevier)	Accepted		2016	Arvinder Singh and Naveen Gupta
7.	Beat Wave Excitation of Electron Plasma Wave by Cross-Focusing of Intense Cosh-Gaussian Laser Beams in Collisionless Plasma with Upward Density Ramp	Optik (Elsevier)	Accepted		2016	Arvinder Singh and Naveen Gupta

8.	Second Harmonic Generation by Self Focused q-Gaussian Laser Beam in Preformed Collisional Parabolic Plasma	Optik (Elsevier)	127	2432	2015	Arvinder Singh and Naveen Gupta
9.	Electron Plasma Wave Excitation by Beating of Two q-Gaussian Laser Beams in Collisionless Plasma	Laser and Particle Beams(Cambridge University Press. USA)	Accepted		2015	Arvinder Singh and Naveen Gupta
10.	Second Harmonic Generation of q-Gaussian Laser Beam in Preformed Collisional Plasma Channel with Nonlinear Absorption	Phys. Plasmas (AIP)	22	1131 06	2015	Naveen Gupta, Navpreet Singh, Arvinder Singh
11.	Second Harmonic Generation by Relativistic Self Focusing of Cosh-Gaussian Laser Beam in underdense Plasma	Laser and Particle Beams (Cambridge University Press. USA)		DOI: 10.1017/S0263034615000749	2015	Arvinder Singh and Naveen Gupta
12.	Beat Wave Excitation of Electron Plasma Wave by Cross-focusing of Cosh Gaussian Laser Beams in Collisional Plasma	Laser and Particle Beams (Cambridge University Press. USA)	Accepted		2015	Arvinder Singh and Naveen Gupta
13.	Beat Wave Excitation of Electron Plasma Wave by Relativistic Cross-focusing of cosh Gaussian Laser Beams in Underdense Plasma	Phys. Plasmas (AIP)	22	0621 15	2015	Arvinder Singh and Naveen Gupta
14.	Second Harmonic Generation of Self Focused Cosh-Gaussian Laser Beam in Collisionless Plasma	Contributions to Plasma Physics (Wiley-VCH Verlag.)	55	501	2015	Arvinder Singh and Naveen Gupta
15.	Second harmonic generation by relativistic self-focusing of q-Gaussian laser beam in preformed parabolic	Phys. Plasmas (AIP)	22	0131 02	2015	Arvinder Singh and Naveen Gupta

### 3. Expert talks delivered:

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Fundamentals of Electrodynamics	Dr Arvinder Singh	Expert Talk	11.03.2016	Guest Lecture in Lyallpur Khalsa college of Engineering Jalandhar

### 4. Membership to professional bodies

Name of faculty	Type of membership	Organization	Membership number
Dr Arvinder Singh	Life Member	Plasma Science Society of India (PSSI)	LM-188

**Faculty 2: Dr H M Mittal****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
12413103	Parveen Kumari	Global and systematic study of Nuclear Structure of even-even nuclei of A=100-200 mass region	On going	Sole	-----	Aug. 2012
12413132	Amit Bindra	Systematic study of Nuclear Structure of A=100-200 mass nuclei	On going	Sole	-----	Aug. 2012
13522001	Rajan Jakhu	Measurements of Natural Radionuclide's for the assessment of the radiation dose in the environs of Jaipur and Ajmer districts of Rajasthan	On going	Joint	Dr Rohit Mehra	Aug. 2013
14822004	Ms. Honey	Study of Super deformed nuclei	On going	Sole	-----	Aug. 2014
15822002	Anshul Dadwal	Super deformed bands	On going	Sole		Aug. 2015
15522003	Monica	Nuclear Physics	On going	Sole		Aug. 2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13322005	Gaganpreet Kaur	Band head spin assignment of Ce isotopes of superdeformed rotational bands	Completed	Sole	-----	June 2015
13322006	Sukhwinder Singh	Determination of spin and moment of inertia in superdeformed rotational bands of $^{194}\text{Tl}$	Completed	Sole	-----	June 2015

**Research Publications (International journals)**

S. No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Systematic study of the subshell effect at Z=64 and the neutron discontinuity at N=88-90	International Journal of Nuclear Energy Science & Technology	9 No.1	35-41	2015	H.M. Mittal and Parveen Kumari
2.	Systematic dependence of Grodzins product rule on $N_p N_n$	International Journal of Modern Physics E	24, No.5	1550033 (9 pages)	2015	Parveen Kumari and H M Mittal
3.	Study of multiphonon $\gamma\gamma$ – band in neutron rich $^{112}\text{Ru}$ nucleus and molybdenum isotopes	Physica Scripta, IOP Publishing	90	085304 (6pp)	2015	Parveen Kumari and H M Mittal
4.	Systematics of band moment of inertia of yrast and excited SD bands of even-even nuclei in A= 150 mass region	International Journal of Modern Physics E	24 No.7	1550054 (6 pages)	2015	Neha Sharma and H.M. Mittal
5.	Study of Grodzins product in the $(E(2_1) \cdot B(E2))$ in the framework of Asymmetric Rotor Model	Cent. Eur. J. Phys.	13	305-309	2015	Parveen Kumari and H M Mittal

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
European Radioactive Ion Beam Conference	EURORIB at Hohenroda, Germany	07-06 2015 to 12.06.2015	FDA
Solid State Nuclear Track Detectors and Their Applications	Dr. B.R. Ambedkar National Institute of Technology Jalandhar	Nov.19-21, 2015.	TEOIP-II
Recent Trends in Applied Mathematics	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	30 November- 4 December 2015.	TEQIP-II
D.A.E. Symposium on Nuclear Physics	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam	Dec. 7-11, 2015.	DST
National Conference on "Recent Trends in Nuclear Physics"	Aligarh Muslim University, Aligarh	Feb.15-16, 2016	DST

**2. Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr H M Mittal	Life member	Indian Society for Technical Education (ISTE)	LM 28414
Dr H M Mittal	Life member	Indian Association of Physics Teachers (IAPT)	2721 LM 4042
Dr H M Mittal	Life member	Indian Physics Association (IPA) Membership	GEN/LM/13018

**3. Projects Completed/On Going/sponsored projects**

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1.	Some Universal Features of Nuclear Structure in Superdeformed Nuclei	2014	Department of Science and Technology (DST) Government of India	Physics	13,67880.00

**Faculty 3: Dr Rohit Mehra****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12413137	Pargin Bangotra	Estimation of naturally decaying nuclides in the environs of Mansa & Muktsar districts of Punjab	Ongoing	Sole	--	25/07/2012
12413135	Kirandeep Kaur	Assessment of naturally occurring disintegrating radionuclides in the vicinity of Bathinda and Faridkot districts of Punjab	Ongoing	Sole	--	25/07/2012
13522001	Rajan Jakhu	Assessment of radiation dose in the environs of Jaipur and Ajmer districts of Rajasthan	Ongoing	Joint	Dr. H.M. Mittal, NIT Jalandhar	06/08/2013
14822002	Sumit Sharma	A study of radon, thoron and their progeny in Udhampur district of Jammu and Kashmir, Himalayas, India	Ongoing	Joint	Dr. Ajay Kumar Sharma, GNDU Amritsar	July, 2014
14822001	Manpreet Kaur	To be finalized by RAC of NIT Jalandhar	Ongoing	Joint	Dr. Ajay Kumar Sharma, GNDU Amritsar	July, 2014
14522001	Km. Anamika	Study of natural radionuclides and their impact on the environment of Haridwar and Dehradun districts of India	Ongoing	Joint	Dr. Parveen Malik, NIT Jalandhar	27/08/2014
15522002	Sarabjot Kaur	To be Finalized by RDC of NIT Jalandhar after Comprehensive Exam To be finalized by RAC of NIT Jalandhar	Ongoing	Sole	--	04/08/2015



**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13322009	Swati Thakur	Measurement of Annual Effective Dose Due To Radon/Thoron Concentration Using DRPS/DTPS	Completed	Sole	--	May 2015
13322012	Palki Duvedi	Measurement of Annual Effective Dose Of Radon And Thoron Using Pinhole Cup Hole Dosimeter In The Environs of NITJ, Punjab	Completed	Sole	--	May 2015

**Research Publications (International journals):**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Variation of naturally occurring radionuclides, dose rate and mineral characteristics with particle size and altitude in bottom sediments of a river originating in Anamalai hills in the Western Ghats of India	Environmental Earth Sciences	74	3467 - 3483	2015	N. Krishnamoorthy, S. Mullainathan, R. Mehra, Marcos A.E. Chaparro
2.	Estimation of Attached and Unattached progeny of $^{222}\text{Rn}$ and $^{220}\text{Rn}$ concentration using deposition based progeny sensors	Radiation Protection Dosimetry	167	92-96	2015	Rohit Mehra, Pargin Bangotra, Kirandeep Kaur, Sandeep Kanse, Rosaline Mishra
3.	$^{222}\text{Rn}$ and $^{220}\text{Rn}$ levels of Mansa and Muktsar district of Punjab, India	Frontiers in Environmental Sciences	3	1-7	2015	Rohit Mehra, Pargin Bangotra, Kirandeep Kaur
4.	Estimation of annual effective dose due to radon level in indoor air and groundwater in Bathinda district of Punjab	Indoor and Built Environment	DOI: 10.1177/1420326X15588566	-	2015	Rohit Mehra, Kirandeep Kaur, Pargin Bangotra
5.	Assessment of radio nuclides in soil samples of Marwar region of Rajasthan, India	Applied Radiation and Isotopes	101	122 - 126	2015	Asha Rani, Sudhir Mittal, Rohit Mehra, RC Ramola
6.	Assessment of radon concentration and heavy metal contamination in groundwater samples from some areas of Fazilka district, Punjab, India	Indoor and Built Environment	DOI: 10.1177/1420326X15591639	-	2015	Ajay Kumar, Saurabh Narang, Rohit Mehra, Surinder Singh
7.	Estimation of EEC, Unattached fraction and Equilibrium factor for assessment of radiological dose using Pin-hole cup dosimeters and deposition based progeny sensors	Journal of Environmental Radioactivity	148	67-73	2015	Pargin Bangotra, Rohit Mehra, Kirandeep Kaur, Sandeep Kanse, BK Sahoo
8.	Assessment of lung dose from indoor $^{222}\text{Rn}$ and $^{220}\text{Rn}$ exposure in Jalandhar and Kapurthala districts of Punjab, India	Indoor and Built Environment (Accepted)	DOI: 10.1177/1420326X15613559	-	2015	Rohit Mehra, Rajan Jakhu, H M Mittal
9.	Study of natural radioactivity ( $^{226}\text{Ra}$ , $^{232}\text{Th}$ and $^{40}\text{K}$ ) in soil samples for the assessment of average effective dose and radiation hazards	Radiation Protection Dosimetry (Accepted)	DOI: 10.1093/rpd/ncw074	-	2016	Pargin Bangotra, Rohit Mehra, Kirandeep Kaur, Rajan Jakhu
10.	Assessment of inhalation dose from indoor $^{222}\text{Rn}$ and $^{220}\text{Rn}$ using RAD7 and Pin-hole cup dosimeters	Radiation Protection Dosimetry (Accepted)	DOI: 10.1093/rpd/ncw060	-	2016	R. Mehra, R. Jakhu, P. Bangotra, K. Kaur, H.M.Mittal

11	Radon levels in drinking water and soil samples of Jodhpur and Nagaur districts of Rajasthan, India	Applied Radiation and Isotopes	113	53 - 59	2016	Sudhir Mittal, Asha Rani, Rohit Mehra
12	Estimation of radon concentration in soil and groundwater samples of Northern Rajasthan, India	Journal of Radiation Research and Applied Sciences	9	125 - 130	2016	Sudhir Mittal, Asha Rani, Rohit Mehra

**Research Publications (National journals):**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	An Investigation of Factors Influencing Indoor Radon Concentrations in Dwellings of Northern Rajasthan, India	The Journal of the Geological Society of India	86	173-180	2015	Vikas Duggal, Rohit Mehra, Asha Rani
2.	Assessment of uranium in correlation with physico-chemical properties of drinking water of Northern Rajasthan, India.	The Journal of the Geological Society of India (Accepted)	-	-	2016	Mittal, S., Rani, A., Mehra, R., Balaram, V., Satyanarayanan, M., Sawant, S.S
3.	Health hazards caused by heavy metals and their physio-chemical properties in water samples from Jodhpur district of Northern Rajasthan, India.	Asian Review of Mechanical Engineering (Accepted)	5	34-37	2016	Mittal, S., Rani, A., Mehra, R.
4	Radiological analysis and estimation of natural radionuclides in the soil samples from Northern Rajasthan, India	The Journal of the Geological Society of India (Accepted)	-	-	2016	Mittal, S., Rani, A., Mehra, R.

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia organized**

Title of course	Name of organizer	Dates	Funded by
19 <sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications	Physics Dept. NIT Jalandhar, Dr Rohit Mehra (Convener)	Nov 19-21, 2015	TEQIP-II

**2. Short Term Courses/Workshops/Seminars attended by the faculty:**

Title of course	Name of organizers	Dates	Funded by
Advances in Nuclear and Particle Physics	Physics Dept. NIT Jalandhar Chief-Coordinator: Dr. Rohit Mehra Co-ordinators: Dr. Harleen Dahiya and Dr. Arvind Kumar	Feb 8-12, 2016	TEQIP-II

**3. Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Seasonal variation of indoor $Rn^{222}$ and $Rn^{220}$ and their progeny in Mansa nad MUKtsar districts of Punjab, India	Dr. Rohit Mehra	Conference	17/06/2015	National Conference on Radiation Awareness and Detection in Natural Environment. June 15 - 17, 2015 H.N.B. Garhwal University, Badshahi Thaul Campus Tehri Garhwal, India National Conference on Radiation Awareness and Detection in Natural Environment, June 15-17, 2015 H.N.B. Garhwal University, Tehri Garhwal, India
Nano Materials: The small is big	Dr. Rohit Mehra	Expert Talk	25/06/2015	Expert Talk at ACET, Amritsar, Punjab

Optics and Ultrasonics	Dr. Rohit Mehra	Expert Talk	13/07/2015	Chandigarh University, Chandigarh
Estimation of EEC, Unattached fraction and Equilibrium factor for assessment of Radiological dose due to Radon and Thoron	Dr. Rohit Mehra	Conference	30/01/2016	ICMSIRSA-2016, Department of Physics, Shivaji University, Kolhapur
Natural Environmental Radioactivity and its impact	Dr. Rohit Mehra	Awareness program	26/02/2016	Awa Awareness program along with Experimentation in Nuclear Physics in HMV, Jalandhar
Measurement of natural environmental radioactivity in environs and health risk assessment	Dr. Rohit Mehra	Expert Talk	16/03/2016	ASA--View studio, NIT, A-view Studio, NIT, Jalandhar
Laser and advanced applications	Dr. Rohit Mehra	Expert Talk	17/03/2016	Chandigarh University, Chandigarh Chandigarh University, Chandigarh
Measurement of Radon and its progeny in environs using active and passive techniques	Dr. Rohit Mehra	Workshop	19/03/2016	DST sponsored National Workshop on Radon Mapping and Nano-structure Synthesis using Solid State Nuclear Track Detectors, 19-20 March 2016, APGC, Panipat
Measurement of EEC, Unattached fraction and Equilibrium factor Radon and Thoron Concentration	Dr. Rohit Mehra	Invited Talk	25/03/2016	National Conference in Aggarwal College, Ballabgarh

#### 4. Membership to professional bodies:

Name of faculty	Type of membership	Organization	Membership number
Dr. Rohit Mehra	Honorary Vice President	International Accreditation Organisation(IAO), Houston, USA	
	Member Board of Directors	American Bibliographical Institute, USA	
	Life Member	International GEO-Hazards Research Society, Dresden, Germany	
	Associate	International Congress for Chemistry and Environment	
	Life Member	Indian Society of Radiation Physics, BARC, Mumbai	
	Life Member	Nuclear Track Society of India, BARC, Mumbai	
	Life Member	Indian Society for Technical Education	
	Life Member	Indian Society of Information Theory and its Applications	
	Member	International Radiation Physics Society	

#### 6. Projects Completed/On Going/sponsored projects:

S.No	Title	Year	Agency	Coordinator / Dept.	Project cost
1.	Measurement of Radon, Thoron and progeny distribution in different type of houses in Bathinda, Mansa, Muktsar and Faridkot district of Punjab.	2015-16 Completed	BRNS, BARC, Department of Atomic Energy, Govt. of India	Principal Investigator	Rs.30 Lakh
2.	Measurement of Radon, Thoron and their Progeny Distribution in the Different Type of Houses and Natural radioactivity in soil in Hanumangarh, Churu and Sri Ganganagar Districts of Rajasthan	2014 Sanctioned	BRNS, BARC, Department of Atomic Energy, Govt. of India	Co-Principal Investigator	Rs.35 Lakh
3.	Measurement of Terrestrial Natural Radionuclides in the environs of Moga and Ferozepur districts of Punjab	2015 Submitted	BRNS, BARC, Department of Atomic Energy, Govt. of India	Principal Investigator	Rs.40 Lakh

**Faculty 4: Dr Jyoti Bharj****3. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
19 <sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications	Physics Dept. NIT Jalandhar, Dr Rohit Mehra (Convener)	Nov 19-21, 2015	TEQIP-II
Advances in Nuclear and Particle Physics	Physics Dept. NIT Jalandhar Chief-Coordinator: Dr. Rohit Mehra Co-ordinators: Dr. Harleen Dahiya and Dr. Arvind Kumar	Feb 8-12, 2016	TEQIP-II

**Faculty 4: Dr. HarleenDahiya****PhD guidance: Five**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
12413136	Narinder Kumar	Phenomenological study of Generalized Parton Distributions	Ongoing (Part-time)	Sole	-	July 2012
12413131	Aarti Girdhar	Study of some aspects of Large Hadron Collider	Ongoing (Part-time)	Joint	BiswarupMukhopadhyaya	July 2012
14822003	Harpreet Singh	To be decided in RAC	Ongoing (Part-time)	Joint	Arvind Kumar	July 2014
15822001	Nisha	To be decided in RAC	Ongoing (Part-time)	Sole	-	July 2015
15522004	Navdeep Kaur	To be decided in RAC	Ongoing (Full-time)	Joint	Dr. Monika Randhawa	July 2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13322016	Sudesh	Leptons	Completed	Sole	--	2015
1332008	Navjot	Study of Neutrino and its Oscillations	Completed	Sole	--	2015

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Transverse distortion of a relativistic composite system in impact parameter space	Eur. Phys. J. A	51	19	2015	Narinder Kumar and HarleenDahiya
2	Single transverse spin asymmetries in semi-inclusive deep inelastic scattering in a spin-1 diquark model	Eur. Phys. J. A	51	51	2015	Narinder Kumar and HarleenDahiya
3	Quark flavor distribution functions for the octet baryons in the chiral quark constituent model	Phys. Rev. D	91	094010	2015	HarleenDahiya
4	Chiral Odd Generalized Parton Distributions and Spin Densities in the Impact Parameter Space	Phys. Rev. D	91	114031	2015	Narinder Kumar and HarleenDahiya
5	Magnetic moments of $J^P=3/2^+$ decuplet baryons using effective quark masses in a chiral constituent quark model	Phys. Rev. D	92	033012	2015	AartiGirdhar, HarleenDahiya and Monika Randhawa

**4. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Cloud Computing and Big Data Analytics	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	19 May 2015	TEQIP-II
Advanced Materials and Characterization Techniques	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	June 01-07, 2015	TEQIP-II
6 <sup>th</sup> Indo-American Frontiers of Science Symposium	Arnold and Mabel Beckman Centre in Irvine, California	09-12 August 2015	IUSSTF
XVI International Conference on Hadron Spectroscopy HADRON 2015	Jefferson Lab, Newport News, Virginia, USA	13-18 September, 2015	CPDA
Solid State Nuclear Track Detectors and Their Applications	Dr. B.R. Ambedkar National Institute of Technology Jalandhar	Nov.19-21, 2015.	TEQIP-II
Recent Trends in Applied Mathematics	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	30 November- 4 December 2015.	TEQIP-II

**5. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Advances in Nuclear and Particle Physics: Present and Future	Dr. HarleenDahiya and Dr. Arvind Kumar	Feb 08-12, 2015	TEQIP-II

**6. Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr. HarleenDahiya	Lifetime	Kavli Frontiers of Science, National Academy of Sciences, USA	

**7. Projects Completed/On Going/sponsored projects**

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1.	Generalized and Transverse Momentum Dependent Parton Distributions	Ongoing (2014-2017)	Scientific Engineering and Research Board (SERB), Department of Science and Technology (DST)	Dr. HarleenDahiya	Rs.13,32,00 0/-

**Faculty 5: Dr Praveen Malik  
PhD guidance: Ongoing- 5**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
11413131	Arshdeep Singh	Studies of blue phases and their stabilizing in chiral nematic liquid crystals	PT	Sole	-	July,2011, In progress
13822001	Divya Jayoti	Investigations in nanomaterial doped polymer –liquid crystal composites	PT	Sole	-	Aug 2013 ,In progress
12413133	Barjinder Kaur	Study of rare earth hexaferrite	PT	Sole	Dr Abhinav Pratap Singh NIT Jalandhar	In Progress
13820003	Amit Sharma	Studies of electro-optic and dielectric properties of nematic liquid crystal and its composites	PT	Joint	Dr. Pankaj Kumar, Chitkara University, Patiala	In Progress
14522001	Km Anamika Chauhan	Study of natural radionuclides and their impact on the environment of Haridwar and Dehradun districts of UK, India	Regular	joint	Dr. Rohit Mehra , NIT Jalandhar	In Progress

**PG guidance: Guided-03**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13322 024	Nitika Gupta	Thermodynamic and acoustical study of silica Nanoparticles doped nematic liquid crystal	completed	Sole	-	June 2015
13322 019	Arshdeep kaur	Morphological and electrooptic properties of polymer dispersed ferroelectric liquid crystal composites	completed	Sole	-	June 2015
13322 010	Sachin Rana	Dielectric study of Gold nanoparticle doped ferroelectric liquid crystals	completed	sole	-	June 2015

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Effect of polymer concentration on morphology, dielectric and optical properties in a polymer dispersed ferroelectric liquid crystal, ,	Liquid Crystals	43(5)	623-631	(2016)	D. Jyoti, Khushboo, P. Malik, S. Arshdeep
2	Observation of blue phase in chiral nematic liquid crystal and its stabilization by silica nanoparticles	International Jour. of Modern Physics B	30	1650-011	2016	A. Singh, P. Malik, D. Jayoti,
3	Thermodynamic and acoustical study of zinc oxide-nematic liquid crystals mixtures	Journal of Molecular Liquids	214	145-148	2016	Khushboo, D. Aarti, P. Malik, H Manchanda
4	Dielectric and electro-optical studies of a nickel-ferrite-nanoparticle-doped ferroelectric liquid crystal mixture	Phase Transitions	89 (2)	144-154	2016	Khushboo, P Sharma, P Malik, KK Raina
5	Phase Transition and Electro-Optic Studies in Polymer Stabilized Blue Phase Liquid Crystal	Macromolecular symposia	357	141-147	2015	Arshdeep Singh and Praveen Malik
6	Polymer Concentration Dependent Morphological and Electro- Optic Properties of Polymer Dispersed Ferroelectric Liquid Crystal Composites	Macromolecular symposia	357	148-153	2015	Divya Jayoti and Praveen Malik

**4. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Name of organizer	Dates	Funded by
3 <sup>rd</sup> National conference on Nanoscience and on instrumentation Technology	NIT kurushetra	6-7, June 2015	-
Solid State Nuclear Track Detectors and Their Applications	Dr. B.R. Ambedkar National Institute of Technology Jalandhar	Nov.19-21, 2015.	TEOIP-II

**5. Membership to professional bodies**

Life Member of Indian liquid crystal society (L-253)

Life Member of International liquid crystal society (ILCS-1751)

**6. Projects Completed/On Going/sponsored projects:**

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1	Electro-optic and dielectric properties in nanomaterials dispersed ferroelectric liquid crystals	2012-2015	DST, Delhi	Physics	27.0

**Faculty 6: Dr Abhinav Pratap Singh****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
12413133	Ms. Barjinder Kuar	Study of rare earth doped hexaferrite	Ongoing	joint	Dr P. Malik	March 2014
115522005	Mr Yogesh Kumar	To be decided by RAC	Ongoing	Sole	--	July 2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
	Mr. Sunil Bassi	Characterization and Deposition of Ni doped ZnO Diluted Magnetic Semiconductors	Completed	Sole	--	May 2015
13322003	Ms. Sarabjot Kaur	Characterization and Synthesis of Carbon Nanotubes by Flame Diffusion Process	Completed	Sole	--	May 2015
13322018	Ms. Harmandeep Kaur	Charge Transfer Multiplet Calculation of Cu ion in ZnO in L3,2 edge	Completed	Sole	--	May 2015

**4. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Name of organizer	Dates	Funded by
19 <sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications	Physics Dept. NIT Jalandhar, Dr Rohit Mehra (Convener)	Nov 19-21, 2015	TEQIP-II
Advances in Nuclear and Particle Physics	Physics Dept. NIT Jalandhar Chief-Coordinator: Dr. Rohit Mehra Co-ordinators: Dr. Harleen Dahiya and Dr. Arvind Kumar	Feb 8-12, 2016	TEQIP-II

**Faculty 7: Dr Arvind Kumar****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14822003	Mr Harpreet Singh	Baryon Magnetic Moments at finite temperature and density	Ongoing	joint	Dr Harleen Dahiya	July 2014
15822003	Mr Rahul Chhabra	To be decided by RAC	Ongoing	Sole	--	July 2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13322 011	Karan Sharma	D and D mesons in symmetric nuclear matter	Completed	Sole	--	May 2015
13322 015	Satvir Kaur	Properties of D mesons in asymmetric nuclear matter	Completed	Sole	--	May 2015
13322 004	Gagandeep Kaur	Antikaon Condensation in Neutron stars	Completed	Sole	--	May 2015
14322 014	Seema Pal	Baryon mass modifications in strange hadronic matter	Ongoing	Sole	--	Jan. 2016
14322 012	Seema	Baryon masses in hot and dense nuclear matter	Ongoing	Sole	--	Jan. 2016

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	<u>Heavy Vector and Axial-Vector Mesons in Hot and Dense Asymmetric Strange Hadronic Matter</u>	Physical Rev. C	92	035208	2015	Arvind Kumar and Rahul Chhabra

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Name of organizer	Dates	Funded by
19 <sup>th</sup> National Conference on Solid State Nuclear Track Detectors and Their Applications	Physics Dept. NIT Jalandhar, Dr Rohit Mehra (Convener)	Nov 19-21, 2015	TEQIP-II

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizers	Dates	Funded by
Advances in Nuclear and Particle Physics	Physics Dept. NIT Jalandhar Chief-Coordinator: Dr. Rohit Mehra Co-ordinators: Dr. Harleen Dahiya and Dr. Arvind Kumar	Feb 8-12, 2016	TEQIP-II

**3. Any other significant achievement:**

My Ph.D student Mr. Rahul Chhabra attended the International Conference on, "Physics Opportunities at an Electron-Ion Collider" at France and represented paper on, "D<sup>+</sup> and B<sup>+</sup> mesons in strange hadronic medium at finite temperature", by Rahul Chhabra and Arvind Kumar, EPJ Web of Conference **112**, 04001 (2016).



**DEPARTMENT CHEMISTRY****DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	18	No. of PhD completed	01
No. of Journal publications(National)	0	No. of new PhD students enrolled	06
No. of International Conferences attended	04	No. of PG students completed	22
No. of National Conferences attended	01	No. of New PG students enrolled	24
No. of STC/ Workshops conducted	03	No. of faculty members enrolled for higher qualifications	0
No of conferences conducted	0	No. off faculty members upgraded qualifications	0
No of expert talks delivered by faculty	-	Any other important information	--
No. of expert talks organized	01		

**FACULTY**

Name	Position	Qualifications
Dr B S Kaith	Professor	Ph.D
Dr. N. C Kothiyal	Professor	Ph.D
Dr. Rajeev Jindal	Associate Professor	Ph.D
Dr. Sangeeta Obrai	Associate Professor	Ph.D
Dr. Jaspreet Kaur	Associate Professor	Ph.D
Dr. Harsh Manchanda	Associate Professor	Ph.D
Dr. Uma Shankar	Assistant Professor	Ph.D
Dr. Virender Singh	Assistant Professor	Ph.D
Dr Mithu Maiti (Contract Faculty)	Assistant Professor	Ph.D
Dr Vikas Saw (Contract Faculty)	Assistant Professor	Ph.D
Dr. Deepika Gautam (Contract Faculty)	Assistant Professor	Ph.D
Dr. Manviri Rani(Contract Faculty)	Assistant Professor	Ph. D
Dr. Nisha Sharma (Contract Faculty)	Assistant Professor	Ph. D

**ACADEMIC PROGRAMMES****Undergraduate Programmes**

- B. Tech – Ist year  
IDX-101,  
CYX-101,  
CYX-102  
CYX-301

**Postgraduate Programmes**

- M.Sc. in Chemistry
- Ph.D. in Chemistry

**LIST OF LABORATORIES**

- UG Lab
- PG Organic Lab
- PG Inorganic Lab
- PG Physical Chemistry Lab
- ICA (instrumental Chemical Analysis) Lab
- R&D Lab
- CCL(Computational Chemistry Lab)

**Laboratory development**

Sr. No.	Items Purchased	Laboratory	Price	Laboratory Incharge
1.	Muffle Furnace	Organic Lab, UG Lab	45,000	Dr Jaspreet Kaur
2.	Vacuum Oven	Organic Lab	50,000	Dr Jaspreet Kaur
3.	Ultra Centrifuge	Organic Lab	1.9 Lac	Dr BS Kaith
4.	Spin Coater	Organic Lab	1.7 Lac	Dr BS Kaith
5.	Dip Coater	Organic Lab	1.5	Dr BS Kaith
6.	PH Meter	UG Lab	15,000	Dr Rajeev Jindal
7.	Conducting Meter	UG Lab	30,000	Dr Rajeev Jindal
8.	Potential Meter	UG Lab	30,000	Dr Rajeev Jindal

**RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****Faculty 1: Dr. B.S. Kaith**

S.No.	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
1	Ms Rachna Sharma	Hydrogels (Title to be decided)	ongoing	Joint	Dr. Rajeev Jindal	2012
2	Mr Jitender Dhiman	Composites (Title to be decided)	ongoing	Sole		2012
3	Ms Sukriti Sharma	Smart materials (Title to be decided)	ongoing	Joint	Dr. Rajeev Jindal	2013
4	Ms Jaya Hatta	Smart materials (Title to be decided)	ongoing	Sole		2013
5	Ms Preeti Mehta	Smart materials (Title to be decided)	ongoing	Sole		2013
6	Mr Jitender Sharma	Smart materials (Title to be decided)	ongoing	Sole		2014
7	Mr Amit Kumar Sharma	Smart materials	ongoing	Sole	Dr. Uma Shanker	2015
8	Priya Bhalla		ongoing	Joint	Dr. Uma Shanker	2015

**PhD guidance:**

Reg No.	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/C completed
14320004	Vaishali Pruthi		Completed	Sole	-	June,2016
14320009	Amrit Pal Singh Chaddha		Completed	Sole	-	June,2016
14320017	Prerna Anand		Completed	Sole	-	June,2016

**PG guidance:****Research Publications (International journals):**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Swart," Synthesis, characterization and water retention study of biodegradable Gum ghatti-poly (acrylic acid-aniline) hydrogels,"	Polymer Degradation and Stability	111	20-31	2015	
2.	Flocculation and adsorption properties of biodegradable gum-ghatti-grafted poly (acrylamide-co-methacrylic acid) hydrogels	Carbohydrate polymers	115	617-628	2015	
3.	"Synthesis of Biodegradable Gum ghatti Based Poly (methacrylic acid-aniline) Conducting IPN Hydrogel for Controlled Release of Amoxicillin Trihydrate,"	Industrial & Engineering Chemistry Research,	54	1982-1991	2015	
4.	"Effects of O 7+ and Ni 9+ swift heavy ions irradiation on polyacrylamide grafted Gum acacia thin film and sorption of methylene blue,"	Vacuum	111	73-82,	2015	
5.	"Evaluation of a conducting interpenetrating network based on gum ghatti-g-poly (acrylic acid-aniline) as a colon-specific delivery system for amoxicillin trihydrate and paracetamol,"	New Journal of Chemistry	39	3021-3034	2015	

6.	Guar gum based biodegradable, antibacterial and electrically conductive hydrogels,	International journal of biological macromolecules	75,	266-275	2015	
7.	Gum ghatti-based biodegradable and conductive carriers for colon-specific drug delivery	Colloid and Polymer Science,	293	1181-1190,	2015	
8.	Surface functionalization of coconut fibers by enzymatic biografting of syringaldehyde for the development of biocomposites,"	RSC Advances	5	76844 - 76851	2015	
9.	Synthesis, characterization and evaluation of Gum tragacanth and acrylic acid based hydrogel for sustained calcium chloride release–enhancement of water-holding capacity of soil,"	Journal of the Chinese Advanced Materials Society	2	40-52	2015	
10.	Preparation and application of grafted Holarrhena antidysenterica fiber as cation exchanger for adsorption of dye from aqueous solution,	Journal of Environmental Chemical Engineering,	3,	1038-1046	2015	
11.	Synthesis and characterization of MHA-g-poly (HEMA) PO 4 2– 2H+ cation exchanger-effective removal of methylene blue from waste water,	RSC Advances,	5	39771 - 39784	2015	
12.	Green synthesis of potassium zinc hexacyanoferrate nanocubes and their potential application in photocatalytic degradation of organic dyes,	RSC Advances	5	26141 - 26149	2015	
13.	Guaran-based biodegradable and conducting interpenetrating polymer network composite hydrogels for adsorptive removal of methylene blue dye,	Polymer Degradation and Stability,	122	52-65	2015	
14.	Biodegradable and conducting hydrogels based on Guar gum polysaccharide for antibacterial and dye removal applications,	Journal of environmental management,	162	37-45	2015	
15.	Polymer Nanocomposites based on Inorganic and Organic Nanomaterials,	John Wiley & Sons			2015	
16.	Biodegradation of Gum tragacanth acrylic acid based hydrogel and its impact on soil fertility	Polymer Degradation and Stability,	115	24-31,	2015	
17.	The Adsorption of Crude Oil From an Aqueous Solution Using a Gum tragacanth Polyacrylic Acid Based Hydrogel,	Petroleum Science and Technology,	33	278-286	2015	
18.	Synthesis of a Gum rosin alcohol-poly (acrylamide) based adsorbent and its application in removal of malachite green dye from waste water,	RSC Advances,	5	43092 - 43104	2015	
19.	A comparative study on the effect of different reaction conditions on graft co-polymerization, swelling, and thermal properties of Gum ghatti-based hydrogels,	Journal of Thermal Analysis and Calorimetry,	119	131-144,	2015	
20.	RSM optimized soy protein fibre as a sorbent material for treatment of water contaminated with petroleum products	Desalination and Water Treatment,	57	4245-4254	2016	
21.	Study of ionic charge dependent salt resistant 2swelling behaviour and removal of colloidal particles using reduced Gumrosin-poly(acrylamide) based green flocculant",	Iranian Polymer Journal				
22.	Guaran-based biodegradable and conducting interpenetrating polymer network composite hydrogels for adsorptive removal of methylene blue dye	Polymer Degradation and Stability	124	101-111	2016	

23.	"Application of biodegradable superabsorbent hydrogel composite based on Gum ghatti-copoly(acrylic acid-aniline) for controlled drug delivery	Polymer Degradation and Stability,	124	101-111	2016	
24.	The development of antibacterial and hydrophobic functionalities in natural fibers for fiber-reinforced composite materials	J. Env. Chem Eng. (Revision submitted)				

**5. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

S.No.	Title of course	Name of organizer	Dates	Funded by
1.	Science: Emerging Scenario and Future Challenges	Vallabh Govt. College, Mandi	April 12, 2015	

**6. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Chief Co-ordinator, Short-Term Course on "Advance Materials and their Characterization Techniques, organized by Department of Chemistry	NIT- Jalandhar,	June 01-07, 2015	
Convener, Current opportunities and new directions in chemical sciences and technology	NIT- Jalandhar,	December, 07-13, 2015	

**Faculty 2: Dr N C Kothiyal**

**Ph D guidance: 02**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12411106	Snigdha Sharma NIT Jalandhar (Full Time)	Carbon Nanomaterials Based Cementitious Nanocomposites and Their Physico-Chemical Characteristics	Final Stage	Sole	-	27 July, 2012
12411131	Mohammad Aslam NIT Jalandhar (Part Time)	Hydro processing of non edible seed oils into transportation fuels.	Thesis Submitted	Joint	Dr A K Sharma (Dr SS S Nire)	2012
CH12D02	Divya Gupta Shoolini University, HP	Biopolymer Immobilized Green Synthesis of Nanocomposites	Degree Awarded	Joint	Dr Deepak Pathania	July, 2012

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14320012	Mani Chitkara	Effect of Functionalization and Particle Size of Graphitic Powder and Pure MWCNT on Mechanical Properties, Microstructures and Crystallization Behavior of Cement Mortar Composites	Completed	Sole	-	July, 2016
14320010	Sahil Arora		Completed	Sole	-	July, 2016
14320003	Nitisha Sharma	Studies on Contamination Level of Soil with Polycyclic aromatic Hydrocarbons in Residential, Commercial and School areas of Jalandhar City	Completed	Sole	-	July, 2016

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Influence of graphene oxide as dispersed phase in cement mortar matrix in defining the crystal patterns of cement hydrates and its effect on mechanical, microstructural and crystallization properties	RSC Advances	5	65	June 2015	
2.	Synergistic effect of zero-dimensional carbon nanoparticles and one-dimensional carbon nanotubes on properties of cement-based ceramic matrix: microstructural perspectives and crystallization investigations	Composite Interfaces	22	9	Aug. 2015	
3.	An investigation of catalytic hydrocracking of high FFA vegetable oils to liquid hydrocarbons using biomass derived heterogeneous catalysts	Journal of Analytical and Applied Pyrolysis	115	401-409,	Sep. 2015	
	Use of cellulose acetate-tin (IV) phosphate composite (CA/TPC) in highly effective removal and recovery of heavy metal ions	International Journal of Industrial Chemistry	6	43-58	June 2015	

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Name of organizer	Dates	Funded by
Graphene oxide-Cement nano-composite as a new Generation Building Material", International Multi-Track Conference on Sciences, Engineering and Technical Innovations,	CT Institute of Engineering, Management and Technology, Jalandhar, Punjab, -	May 22-23, 2015	-
Mechanical performance and microstructure of Raw Carbon Nanotubes Reinforced Cement Mortar Composites", UCC-15-116; UAEIRI CONCRETE CONGRESS, Concrete Research Driving Profit and Sustainability,	NIT Jalandhar,	Nov 2-5, 2015	

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Chief Co-ordinator, Short-Term Course on "Advance Materials and their Characterization Techniques", Organized by Department of Chemistry	NIT- Jalandhar	June 01-07, 2015	TEQIP-II
Convener, Short Term Course on "Current Opportunities and New Directions in Chemical Sciences and Technology", Organized by Department of Chemistry	NIT- Jalandhar	December, 07-13, 2015	TEQIP-II

**3. Any other significant achievement:**

- (1) Assigned Administrative Duty of DFW with Effect From : February 2015.
- (2) Member Technical Committee Sardar Swaran Singh National Institute of Renewable Energy, Jalandhar Kapurthala Road, Kapurthala (Punjab)
- (3) Member VMC Kendriyal Vidyalaya CRPF Suranassi, Jalandhar.
- (4) Expert Ph. D Thesis Evaluation Punjab Technical University, Jalandhar and Barkatullah University Bhopal etc.

**Faculty 3: Rajeev Jindal****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment /Completed
1	Ms. Meenu Singla	THERMODYNAMIC STUDIES OF AQUEOUS SOLUTION CONTAINING AMINO ACIDS AND ORGANIC SALTS	completed	Sole	Nil	2015
2	Kuljit Kaur		Ongoing	Sole		2016
3	Rachna Sharma	Hydrogels (Title to be decided)	Ongoing	Joint	Dr B S Kaith	2012

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
1	Ms. Akansha Sharma	Adsorption capacity for malachite green dye removal and antimicrobial properties of synthesized ni-co bimetallic nanoparticles based nanocomposites	Completed	Joint	Dr.Mithu Maiti	June,2016
2	Ms.Mehak	Synthesis & characterizaation of polymeric nano-hydrogel for controlled release of paracetamol and amoxicilin	Completed	Joint	Dr.Mithu Maiti	June,2016
	Ms. Vibha Chaudhary	Synthesis and characterization of silver based nanocomposite for toxic dye removal and study of its antimicrobial activity.	Completed	Joint	Dr.Mithu Maiti	June,2016

**Research Publications (International journals)**

S.No	Co-authors as on the article	Title of paper	Journal Name	Vol. No.	Publication year
1	P Sharma, R Jindal, M Maiti, AK Jana	Novel organic-inorganic composite material as a cation exchanger from a triterpenoidal system of dammar gum: synthesis, characterization and application	Iranian Polymer Journal	25 (8), (2016) 671-685	
2	BS Kaith, R Jindal, R Sharma	Study of ionic charge dependent salt resistant swelling behavior and removal of colloidal particles using reduced gum rosin-poly (acrylamide)-based green flocculant	Iranian Polymer Journal	25 (4), (2016) 349-362	
3	H Kumar, M Singla, R Jindal	Solvation Behavior of Glycine, L-Alanine, and L-Valine in Aqueous Solutions of Triammonium Citrate at Different Temperatures with Reference to Speeds of Sound Measurements	International Journal of Thermophysics	37 (2), (2016) 1-28	
4	BS Kaith, V Kumar, R Jindal	Biodegradation study of enzymatically catalyzed interpenetrating polymer network: Evaluation of agrochemical release and impact on soil fertility	Biotechnology Reports,	(2016) 74-81	
5	Saruchi Sharma · Vaneet Kumar · Balbir Singh Balbir Singh Kaith · Rajeev Jindal Jindal	Synthesis of hybrid ion exchanger for rhodamine B dye removal: Equilibrium, kinetic and thermodynamic studies	Industrial & Engineering Chemistry Research	Accepted for publications (2016)	
6	JK Bhatia, BS Kaith, R Jindal	Induction of morphological changes in soy protein concentrate through pressure induced graft copolymerization and evaluation of chemical and thermal properties	Iranian Journal of Science and Technology	39 (A4),(2015) 503	

7	H Kumar, M Singla, R Jindal	Studies of interionic interactions of l-serine/l-threonine in aqueous trillithium citrate solutions using density and speeds of sound measurements at different temperatures	Journal of Molecular Liquids	208,(2015) 170-182	
8	R Jindal, M Singla, H Kumar	Transport behavior of aliphatic amino acids glycine/l-alanine/l-valine and hydroxyl amino acids l-serine/l-threonine in aqueous trillithium citrate solutions at different temperatures	Journal of Molecular Liquids	206,(2015) 343-349	
9	BS Kaith, R Jindal, V Kumar	Biodegradation of Gum tragacanth acrylic acid based hydrogel and its impact on soil fertility	Polymer Degradation and Stability	115, (2015) 24-31	
10	Saruchi, BS Kaith, R Jindal, V Kumar	The adsorption of crude oil from an aqueous solution using a Gum tragacanth polyacrylic acid based hydrogel	Petroleum Science and Technology	33 (3),(2015) 278-286	
11	H Mittal, R Jindal, BS Kaith, A Maity, SS Ray	Flocculation and adsorption properties of biodegradable gum-ghatti-grafted poly (acrylamide-co-methacrylic acid) hydrogels	Carbohydrate polymers	115, (2015)617-628	
12	BS Kaith, R Jindal, R Sharma	Synthesis of a Gum rosin alcohol-poly (acrylamide) based adsorbent and its application in removal of malachite green dye from waste water	RSC Advances	5 (54), (2015) 43092-43104	
13	H Mittal, BS Kaith, R Jindal, SB Mishra, AK Mishra	A comparative study on the effect of different reaction conditions on graft co-polymerization, swelling, and thermal properties of Gum ghatti-based hydrogels	Journal of Thermal Analysis and Calorimetry	119 (1),(2015) 131-144	

## 2.Short Term Courses/Workshops/Seminars organized:

Title of course	Name of organizer	Dates	Funded by
Short term course on Current Opportunity And New Direction In Chemical Science And Technology	Dec7-13,2015	Convener of the Short term Course	

## 3. Membership to professional bodies

- 1) Indian Science Congress Association
- 2) Chemical Research Society of India
- 3) Indian chemical Society
- 4) Indian Council of Chemists
- 5) Association of Chemistry Teacher.

Faculty 4 : Dr. Jaspreet Kaur

## PhD guidance:

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12411103	Priya Arora	Functionalized iron oxide Nanoparticles: Synthesis, characterization & their potential applications	Ongoing	Sole	-	2012
13520003	Harminder Singh	Functionlized ferril Nanoparticles: Synthesis, Characterization & their potential applications	Ongoing	Sole	-	2013
15520004	Jigyasa		Ongoing	Sole	-	2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14320016	Anjali	Methionine and 3-(mercaptopropyl) trymethoxysilane (MPTMS) Functionalized MWCNTs as Explosive Sensors	Completed	Sole	Dr Jaspreet Kaur	June, 2016
14320001	Tanu Rana	Sonochemical synthesis of bactericidal and fluorescent Mos2 Quatum Dots for detecton of amino acids	Completed	Sole	Dr Jaspreet Kaur	June, 2016
14320002	Garima Govil	Synthesis of Zrx Cu1-x Fe2O4: Potential Application as MSC in synthesis of Polysubstituted Pyridines	Completed	Sole	Dr Jaspreet Kaur	June, 2016

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Low power sonochemical-coprecipitation preparation and applications in synthesis of 4H-chromene-3-carbonitrile scaffolds	CuFe2O4 magnetic heterogeneous nanocatalyst	26,	229-240	2015	
2.	POMANI-Mn 3 O 4 based thin film NTC thermistor and its linearization for overheating protection sensor. Materials Chemistry and Physics		156	150-162	2015	
3.	XRD And AFM Study Of Zirconium Substituted Zn-Ni Ferrite Using Solution Combustion Method	International Journal Of Engineering And Computer Science	4(3),	11032-11036	2015	
4.	Carbon Nanotubes Based Sensor for Detection of Traces of Gas Molecules- A Review.	Int. Journal of Electrical & Electronics Engg			2015	
5.	Nanostructured oxytyramine catalyst for the facile one-pot synthesis of cyclohexanecarbonitrile derivatives.	RSC Advances	5 (118)	97212-97223	2015	

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Advanced Materials and Characterization Techniques	DR Jaspreet Kaur (coordinator)	June 01-07, 2015	TEQIP-II
Current Opportunities and New Directions in Chemical Sciences and Technology	Dr H Manchanda and Dr Jaspreet Kaur	December 7-13, 2015	TEQIP-II

**3. Membership to professional bodies**

- 1) Chemical Research Society of India
- 2) Indian Council of Chemists
- 3) Panjab Science Congress

**Faculty 5: Dr Harsh Kumar Manchanda**

**PhD guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
Isha		Ongoing	Sole		2014
Sheetal		Ongoing	Sole		2012
Arjuna Katal		Ongoing	Sole		2015
Chanda Chadha		Completed	Sole		2012
Manoj Kumar		Ongoing			2013
Aabroo Mahal		Completed			



**Research Publications (International journals):**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Surface Adsorption and Molecular Modeling of Biofunctional Gold Nanoparticles for Systemic Circulation and Biological Sustainability	ACS Sustainable Chem. Eng. DOI: 10.1021/acs.suschemeng.5b00747			2015	
2.	Interionic interactions of aqueous mixtures of ionic liquid 1-hexyl-3-methylimidazolium chloride [C6mim][Cl] with phosphate salts at T = (288.15 to 308.15) K: Volumetric, acoustic and UV absorption studies				2015	
3.	Investigation on solute-solvent interactions of glycine, L-alanine and L-valine in aqueous tetraethylammonium iodide solutions at different temperatures with reference to volumetric and acoustic measurements				2015	
4.	Densities, Sound Speed and Viscosities of Some Amino Acids with Aqueous Tetra-Butyl Ammonium Iodide Solutions at Different Temperatures				2015	
5.	Conductometric and spectroscopic studies of cetyltrimethylammonium bromide in aqueous solutions of imidazolium based ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate				2015	
6.	Solute-Solvent Interactions of Glycine, L-Alanine, and L-Valine in Aqueous 1-Methyl imidazolium Chloride Ionic Liquid Solutions in the Temperature Interval (288.15-308.15 ) K				2015	
7.	Solute solvent interactions of mono saccharides D(-)-ribose and D(+)-xylose in aqueous trisodium citrate solutions at different temperatures				2015	
8.	Solute-Solvent Interactions of Glycine, L-Alanine, and L-Valine in Aqueous {1-Ethyl-3-Methylimidazolium Chloride [emim][Cl]} Ionic Liquid Solutions in the Temperature Interval (288.15 - 308.15 ) K				2015	
9.	Studies of interionic interactions of L-serine / L-threonine + water + trillithium citrate mixtures using density and speeds of sound measurements at different temperatures”				2015	
10.	“Study of solute-solute and solute-solvent interactions of N-acetyl glycine in aqueous fructose solutions at different temperatures”				2015	
11.	Transport Behaviour of Aliphatic Amino Acids Glycine/L-Alanine/L-Valine and Hydroxyl Amino Acids L-Serine/L-Threonine in Aqueous Trillithium Citrate Solutions at Different Temperatures				2015	
12.	Thermophysical properties of alkyl acetates in aqueous solutions of ionic liquid {1-butyl-3-methylimidazolium bromide [bmim][Br] at different temperatures				2015	

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Name of organizer	Dates	Funded by
Recent Trends in applied Mathematics	November 30-December 04, 2015	NIT Jalandhar	NA

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Current Opportunities and New Directions in Chemical Sciences and Technology	December 07-13, 2015	TEQIP II	Dr Harsh Kumar Manchanda (Coordinator) Dr Jaspreet Rajput (Co-coordinator) Dr Virender Singh (Co-Coordinator)

**3. Any other significant achievement:**

Dr Arvind Kumar Memorial Young Scientist Award by Indian Council of Chemists given during 34<sup>th</sup> Annual Conference of Indian Council of Chemists at Uka Yarsadia University, Bardoli, Surat during December 26-28, 2015.

**Faculty 6: Dr. Sangeeta Obrai****Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	DFT studies of Calcium(II), Strontium(II) and Barium(II) benzoates with N,N,N',N'-tetrakis(2-hydroxyethyl)ethylenediamine	Journal of Molecular structure	113	18-23	2016	Sangeeta Obrai, Rakesh Kumar, Milli Goyal and Swati Kaushal

**Faculty 7: Dr Virender Singh****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
1.	Dharmender Singh	Exploration of MBH Chemistry and Cycloaddition Reactions for the Synthesis of Privileged Scaffolds	Ongoing (2015-)	Sole	NIL	
2.	Vipin Kumar	Designing and Synthesis of Quinoline and $\beta$ -Carboline Based Biologically Active Frameworks	Ongoing (2015-)	Sole	NIL	
3.	Sunit Kumar	Designing and Synthesis of $\beta$ -Carboline Derivatives	Ongoing (2016-)	Sole	NIL	

**PG guidance:**

S.No.	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
1.	Priyanka Makkar	Exploration of 2-chloroquinoline-3-carbaldehydes and 2-azidoquinoline-3-carbaldehydes for the synthesis of Privileged Scaffolds	Completed (2016)	Sole	NIL	
2.	Gurpreet Kaur	Design and Synthesis of C-3 $\beta$ -Carboline imidazoazine Conjugates via Multicomponent Reaction as Anticancer Agents	Completed (2016)	Sole	NIL	

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	A Metal-free 1,3-Dipolar Cycloaddition Approach towards Regioselective Synthesis of $\beta$ -Carboline and Isoxazole Based Molecular Hybrids.	RSC Adv.	6	88066-88076	2016,	Corresponding Author
2	Natural Product Inspired Designing and Synthesis of $\beta$ -Carboline and $\gamma$ -Lactones Based Molecular Hybrids..	Org. Biomol. Chem	14	8154-8166	2016	Corresponding Author
3	In(OTf) <sub>3</sub> Catalysed an Expedient Synthesis of $\beta$ -Carboline-imidazo[1,2-a]pyridine and imidazo[1,2-a]pyrazine Conjugates.	RSC Adv.	6	43881-43891.	2016	Corresponding Author

4	Medicinal Attributes of Imidazo[1,2-a]pyridine Derivatives: An Update.	Curr. Top. Med. Chem	16	1-32 (DOI: 10.2174/1568026616666160506145539).	2016	Corresponding Author
5	Chemistry and Bioactivities of Aristeromycins: An Overview	Curr. Top. Med. Chem.	16	DOI: 10.2174/1568026616666160506145300	2016	Co-author
6	ZnO Nanoparticles as reusable heterogeneous catalyst for efficient one pot three component synthesis of imidazo-fused polyheterocycles.	Tetrahedron Lett.	57	1346-1350.	2016	Co-author

### 1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty

Title of course	Name of organizer	Dates	Funded by
Advances in Industrial Biotechnology	Department of Biotechnology, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar	November 30- Dec 04, 2015.	TEQIP-II
High Performance Concrete: Past, Present and Future	Department of Civil Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandha	15-19 June 2015.	TEQIP-II
Electronics and Communication System Design Aspects	Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.	25-29 May 2015	TEQIP-II

### 2. Short Term Courses/Workshops/Seminars organized:

Title of course	Name of organizer	Dates	Funded by
Current Opportunities and New Directions in Chemical Sciences and Technology	Dr Virender Singh as Co-coordinator, Department of Chemistry, NIT Jalandhar.	December 7-13, 2015	TEQIP-II
Advanced Materials and Characterization Techniques	Dr Virender Singh as Co-coordinator, Department of Chemistry, NIT Jalandhar.	June 01-07, 2015	TEQIP-II

### 3. Expert talks delivered:

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Design and Synthesis of $\beta$ -carboline derivatives as anticancer agents	Dr Virender Singh	International conference	24 Nov. 2015. MNIT Jaipur, Rajasthan	International conference on Current Challenges in Drug Discovery Research.
Natural Product Inspired Design and Synthesis of $\beta$ -Carboline Containing Scaffolds	Dr Virender Singh	National Conference	17th Feb 2016.	National Conference on Organic Synthesis and Catalysis (NCOSC-2016) GJ University of Science and Technology Hisar,

### 4. Membership to professional bodies

Name of faculty	Type of membership	Organization	Membership number
Dr Virender Singh	Life time Member	Indian Science Congress Association, Kolkata, India.	Membership Number : L28478

### 5. Projects Completed/On Going/sponsored projects

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1.	Application of Building Blocks from MBH Chemistry for the Synthesis of Privileged Scaffolds	2013 36 Month	DST, New Delhi	Dr. Virender Singh	23.70 Lacs
2.	Natural Product Inspired Design, Synthesis, and Anticancer Evaluation of $\beta$ -Carboline Derivatives	2015 36 Month	CSIR, New Delhi	Dr. Virender Singh and Dr B S Kaith	~15 Lacs

**Faculty 8: Dr Uma Shanker**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13520001	Vidhisha Jassal	Nanomaterials	Ongoing	Sole	-	August 2013
15520002	PriyaBhalla	Polymer composites	Ongoing	Joint	Dr B S Kaith	July 2015
15820002	Amit Kumar	Polymer composites	Ongoing	Joint	Dr B S Kaith	July 2015

**PhD guidance: 01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14320007	Jaspreet Kaur	Synthesis of Mixed metal oxide nanoparticles	Ongoing	Sole	nil	July 2014
14320015	Nurrien Akhtar	Synthesis of Mixed metal hexacyanoferrates nanoparticles	Ongoing	Sole	nil	July 2014
14320011	Gurpreet Kaur	Synthesis of Mixed metal hexacyanocobaltates nanoparticles	Ongoing	Sole	nil	July 2014

**PG guidance:****Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Aegle marmelos Mediated Green Synthesis of Different Nanostructured Metal Hexacyanoferrates: Activity against Photodegradation of Harmful Organic Dyes	Scientifica	2016	1-13	2016	VidhishaJassal, Uma Shanker and B. S. Kaith
2	Sapindus mukorossi mediated green synthesis of some manganese oxide nanoparticles interaction with aromatic amines	Applied Physics A	122	271-282	2016	VidhishaJassal, Uma Shanker, SwetaGahlot, B. S. Kaith, Kamaluddin, Md. Asif Iqbal & Pankaj Samuel
3.	Green synthesis of potassium zinc hexacyanoferrate nanocubes and their potential application in photocatalytic degradation of organic dyes	RSC Advances	5	2614 1-2614 9	2015	VidhishaJassal, Uma Shanker, B. S. Kaith and Shiv Shankar
4.	Green Synthesis of Some Iron Oxide Nanoparticles and Their Interaction with 2-Amino, 3-Amino and 4-Aminopyridines	Materials Today: Proceedings	-	1-10	2015	VidhishaJassal, Uma Shanker and SwetaGahlot

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Advanced Materials and Characterization Techniques	Department of Chemistry, NIT Jalandhar	1-7 June 2015	TEQIP-II
Current Opportunities and New Directions in Chemical Sciences and Technology	Department of Chemistry and Department of Biotechnology, NIT Jalandhar	7-13 December 2015	TEQIP-II
National Symposium on "Professor Ram Chand Paul National Symposium on Innovations in Chemical Sciences"	Department of Chemistry, Panjab University Chandigarh	20-21 March 2015	Panjab University
International Conference on "Advances in Pharmaceutical Nanotechnology and Nanomedicine"	I.S.F. College of Pharmacy, Moga, Punjab	6-8 February 2015	-

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Advanced Materials and Characterization Techniques	Department of Chemistry, NIT Jalandhar	1-7 June 2015	TEQIP-II
Current Opportunities and New Directions in Chemical Sciences and Technology	Department of Chemistry and Department of Biotechnology, NIT Jalandhar	7-13 December 2015	TEQIP-II

**DEPARTMENT OF BIOTECHNOLOGY****DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	02	No. of PhD completed	02
No. of Journal publications (National)	01	No. of new PhD students enrolled	02
No. of International Conferences attended	02	Organized 1 <sup>st</sup> GIAN International Short Term training Course on "Biotechnology and Process Engineering for Biofuel Production", May 16-25, 2016	01
No. of National Conferences attended		Hosted Foreign Faculty Prof. Roberto De Phillippis, University of Florence, Italy	01
No. of STC/ Workshop/ courses attended	03	Publication in National Conference Proceedings	19
No. of STC/ Workshops conducted	01	No. of New PG students completed	---
No of conferences conducted	01	No. of New PG students enrolled	---
No of expert talks delivered by faculty	02	No. of faculty members enrolled for higher qualifications	--
No. of expert talks organized	07	No. off faculty members upgraded qualifications	01

**1. FACULTY**

Sr. No.	Name	Position	Qualifications
1.	Dr A K Jana	Professor	Ph.D
2.	Dr Nitai Basak	Associate Professor	Ph.D

Apart from this 08 Assistant Professor (on contract basis) were appointed on Semester basis to cope up the Teaching loads of B.Tech Biotechnology course.

**2. ACADEMIC PROGRAMMES**

Undergraduate Programmes

- B. Tech. in Biotechnology

Postgraduate Programmes

- Full and part Time Ph D Programme in Biotechnology

**3. LIST OF LABORATORIES**

- Microbiology Laboratory
- Biochemistry Laboratory
- Bioprocess Engineering Laboratory
- Molecular Biology and Genetic Engineering Laboratory
- Cell and Tissue Culture Laboratory
- Separation process and downstream processing Laboratory
- Immunotechnology Laboratory
- Bioinformatics Laboratory
- Bioprocess Modeling and Simulation Laboratory
- Biological Waste Treatment Laboratory

**4. Infrastructural Facilities Added:**

Major equipments in the laboratories added during the time under consideration:

S.No.	Name / Items	Make	Present Condition
1.	UV Visible Double Beam Spectrophotometer with voltage stabilizer, UPS and accessories	GE Health Care Bioscience	O.K.

**5. Research and Development Activities****A. Research Area of the Faculty:**

Microbial Bio Technology, Enzyme Technology, Bioprocess Engineering, Green Biofuel production, Environmental Biotechnology, Nanobiotechnology and Biological Waste Treatment etc.

## 6. Research Publication

### 6a) Research Publication in International Journals (during last 01 year):

- Nitai Basak, Asim Kumar Jana and Debabrata Das (2016), CFD modeling of hydrodynamics and Optimization of photofermentative hydrogen production by *Rhodospseudomonas palustris* DSM123 in Annular photobioreactor, *International Journal of Hydrogen Energy* (ISSN: 0360-3199), Elsevier, Vol 41, Issue 18, 2016, pp 7301-7317, D.O.I: 10.1016/j.ijhydene.2016.02.126
- Kapish Gupta, Asim Kumar Jana, Sandeep Kumar, Mithu Maiti Jana (2015) Solid state fermentation with recovery of Amyloglucosidase from extract by direct immobilization in cross linked enzyme aggregate for starch hydrolysis. *Biocatalysis and Agricultural Biotechnology*, Accepted on 20 July 2015, Volume 4, Issue 4, October 2015, Pages 486–492.

### 6b) Research Publication in National Journals (during last 01 year):

- Deepak Kohli, Sangeeta Garg, A.K Jana & Mithu Maiti (2016) Synthesis of Graft Copolymers for Green Composite Films and Optimization of Reaction Parameters using Taguchi (L16) orthogonal Array, *Indian Chemical Engineer*, Accepted in Feb 2016, DOI:10.1080/00194506.2016.1139473.

### 6c) Research Publication in proceeding of International Conferences (during last 1 year):

- Raman Rao and **Nitai Basak**, “Maximizing thermophilic hydrogen production from different non conventional biomass: current status and future aspect”, proceeding of Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 58.
- Shweta Kalia, N.K Srivastava and **Nitai Basak**, “Study on optimization of extracellular alkaline lipase from *Aspergillus fumigatus* MTCC 9657”, proceeding of Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 33.
- Pankaj Goyal and **Nitai Basak**, “Study on lipase production in fed batch submerged system using *Aspergillus fumigatus* MTCC 9657 by olive oil induction”, proceeding of Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 32.
- Som Dutt and **Nitai Basak**, “Computer-aided drug design of some novel inhibitors against beta-lactamase of *Pseudomonas aeruginosa* enzyme (GES-2) via molecular docking and virtual screening approach”, proceeding of Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 25.
- Ravindra Yadav, Bharti Arora and **Nitai Basak**, “Study on development of effective inhibitor for heat shock protein 90 (HSP 90) as potential anti-cancer drug against breast cancer”, proceeding of Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 21.
- Vivek Kumar, Nand Lal Gurjar, **Nitai Basak**, “Computational fluid dynamic study of flow behavior in cylindrical and conical flask geometry”, proceeding of Application of Biotechnology in Industry and Society (ABIS 2016), NIT Jalandhar, ISBN 978-93-85777-58-5, pp 16.
- Raman Rao and **Nitai Basak**, “Development of Improved Strategies for Fermentative Hydrogen Production, proceeding of 2<sup>nd</sup> International Conference on Recent Advances on Bioenergy Research (ICRABR 2016), SSS-National Institute of Bio Energy, Kapurthala, February 25-27, 2016.
- Ramandeep Kaur, Rahul Sharma, Antriksh Gupta, Asim K Jana (2016): Preparation of laccase Immobilized functional magnetic nanoparticles and its application for dye degradation, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Shweta Mahajan, Arun Singh Pathania, Asim K Jana, Sandeep Kumar (2016): Lectin immobilized magnetic particle and their application in glycolipid biosurfactant recovery, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Asim K Jana, Vartika Mishra (2016): Methods to enhance ligninolytic enzymes and pretreatment of Lignocelluloses biomass for efficient hydrolysis, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Deepak Kohli, Sangeeta Garg, Asim K Jana, Aanchal Mittal (2016): Poly vinyl alcohol nano composite films containing cellulosic nano-fibrils extracted from barley husk, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.

- Vibha Chaudhary, Rajeev Jindal, Mithu Maiti, Rachna Sharma, Saneet Kaur, A K Jana, A Gupta (2016): Synthesis and characterization of silver based nanocomposites for toxic dye removal and study of its antimicrobial activity, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14, April 2016.
- Antrikh Gupta, Pankaj Goyal, Sandeep Kumar, Asim K Jana (2016): Statistically optimized preparation of catalase immobilized magnetic nanoparticles, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Parneet Kaur, Asim K Jana (2016): Immobilization of enzymes on nanoparticles: recent trends, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Akansha Sharma, Rajeev Jindal, Mithu Maiti, Rachna Sharma, A K Jana, A Gupta (2016): Synthesis of Ni-Co bimetallic and reduced gum rosin based nanogels and study of their antimicrobial activity, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Asim K Jana, Antriksh Gupta (2016): Different methods of laccase production using agricultural residue by white rot fungi, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14, April 2016.
- Harmanpreet Meehnian, Asim K Jana (2016): Overview of biological pretreatment for delignification of lignocellulosic biomass by white rot fungi in solid state fermentation, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Asim K Jana, Vartika Mishra (2016): Screening of fungal strain on the basis of ligninolytic and cellulolytic ability to degrade lignin selectively, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.
- Asim K Jana, Arun Singh Pathania (2016): Surfactants from microbial origin: review on current prospect, Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016.

#### 6d) Chapter of Book

- Ashim Borah, Nitai Basak and Asim Kumar Jana (2016), Leishmaniasis: Drug Development and Intellectual Property Issues, Intellectual Property Issues in Biotechnology (ISBN: 13: 978-1-78064-653-4), Chapter 22, Editors: Singh HB, Jha A, Keswani C, CABI of Nosworthy Way, Wallingford, Oxon OX10 8DE, UK, pp 245-253.
- Edited Book of abstract of the conference ABIS -2016, Conference on Application of Biotechnology in Industry and Society, organized by Department of Biotechnology, NIT Jalandhar, Sponsored by TEQIP –II, MHRD, 12-14 April 2016, ISBN: 978-93-85777-58-5, Editors Dr N Basak and Dr Asim K Jana, Published by Excel India Publishers, New Delhi - 110067.

#### 6e) Faculty presented expert/invited lecture:

- Dr Nitai Basak had delivered following Invited/Expert Lecture
  - “Fermentative Biohydrogen Production: Advances in Technology”, in 1 week Training Programme on “Hands on Analytical and Molecular Techniques: Biomass based Biorefineries, An Emerging Incentive for Advanced Biofuels and Value added Products”, held at SSS-NIBE, Kapurthala, March 14-18, 2016
  - “Biological hydrogen production: recent technology for renewable Bioenergy”, in “2nd International Conference on Recent Advances in Bio-Energy Research ICRABR 2016”, held at SSS-NIBE, Kapurthala, February 25-27, 2016
  - “Biological H<sub>2</sub> production: Process Engineering for renewable Bioenergy”, in Short Term Course “Advances in Industrial Biotechnology”, held at Department of Biotechnology, NIT Jalandhar, November 30- December 04, 2015
- Dr A.K.Jana had delivered following Invited/Expert Lecture

- Cellulosic biofuels in Short term training program in 'Advances in Industrial Biotechnology' organized by Department of Biotechnology, NIT Jalandhar, sponsored by TEQIP – II, MHRD, Nov 30 –Dec 4, 2015, Lecture delivered on Dec 2, 2016

#### 6f) Completion of Ph.D by 2 students:

- Mr. Sandeep Kumar, Ph.D students under Prof. A.K.Jana had defended Ph.D thesis successfully in open house viva-voce examination on April 10, 2015. The title of the thesis is "Immobilization of Enzyme Serratopeptidase on Magnetic Nanoparticles (MNPs) and characterization of resulting Nanoparticles".
- Mr. Nitai Basak, Research Scholar under joint supervision of Prof. A.K.Jana, Department of Biotechnology of the Institute and Prof. Debabrata Das, Department of Biotechnology, IIT Kharagpur had defended Ph.D thesis successfully in open house viva-voce examination on May 25, 2015. The title of the thesis is "Studies on Photofermentative Biohydrogen Production by Purple-Non-Sulfur Bacteria"

#### 7. Faculty as Reviewer of International Reviewed Journal and Membership of Professional bodies:

Sr. No.	Name of the Faculty	Reviewer of the Journal	Membership of Professional Bodies
1.	Dr. A.K.Jana	<ul style="list-style-type: none"> <li>1) Biochemical Engineering Journal (ELSEVIER)</li> <li>2) Journal of Polymer and Environment (Elsevier),</li> <li>3) Bioprocess and Biosystems Eng (Springer),</li> <li>4) J of Molecular Catalysis B (Elsevier).</li> </ul>	LM:Indian Institute of Chemical Engineer, Kolkata, • LM27334
2.	Er. Nitai Basak	<ul style="list-style-type: none"> <li>• 1) Bioresource Technology (ELSEVIER)</li> <li>• 2) International Journal of H<sub>2</sub> Energy (ELSEVIER)</li> <li>• 3) Biomass and Bioenergy (ELSEVIER)</li> <li>• 4) International Journal of Environment and Waste Management (Wiley Interscience)</li> <li>• 5) Journal of Taiwan Institute of Chemical Engineer, Elsevier</li> <li>• 6) Elsevier Energy conversion and Management</li> <li>• 7) Energy Fuel, American Chemical Society</li> </ul>	M:International Association of H <sub>2</sub> Energy, USA M:American Chemical Society, USA • M: Asian Federation of Biotechnology, Korea LM: International Association of Engineers, Hong Kong LM: Indian Institute of Chemical Engineer, Kolkata, LM27333 • LM: Indian Association of Cultivation of Science, Kolkata LM: Indian Society of Technical Education, New Delhi

#### 8. Seminars/Short term courses/Summer schools/winter schools organized

- Short Term Course on "Advanced materials and characterization techniques" Jointly organized by the Department of Chemistry and Department of Biotechnology, NIT Jalandhar, sponsored by TEQIP-II, MHRD from June 1- 7, 2015.
- Short Term Course on "Advances in Industrial Biotechnology" organized by Department of Biotechnology, NIT Jalandhar, sponsored by TEQIP-II, MHRD from Nov 30 –Dec 4, 2015.
- Conference on Application of Biotechnology in Industry and Society (ABIS – 2016) organized by Department of Biotechnology, NIT Jalandhar, sponsored by TEQIP-II, MHRD from April 12-14, 2016.

#### 9. Organized 1<sup>st</sup> GIAN Course of the Institute on "Biotechnology and Process Engineering on Biofuel Production", May 16-25, 2016:

The Department has hosted Prof. Roberto De Phillippis, **University of Florence, Italy** and Prof.

Debabrata Das, Department of Biotechnology, **IIT Kharagpur** for organizing 2 Weeks (10 days)

**GIAN** International Summer Term Course on Biotechnology and Process Engineering for Biofuel production, sponsored by Global Initiative for Academic Networks (GIAN), MHRD New Delhi, from May 16-25, 2016.



**10. Miscellaneous academic activities**

- Ph D thesis Examiner in Punjab Technical University
- Member of Board of Studies in Beant College of Eng, Gurdaspur, PTU
- Member of Research Advisory Committee, CSIO, CSIR Lab, Chandigarh
- M. Tech Thesis Examiner in NIT Hamirpur
- Member Research Advisory Committee, National Institute of Bioenergy (NIBE), Kapurthala, Punjab

**11. Special Achievement of Students**

- Mr. Pankaj, All India Rank: 43 in GATE 2016
- Mr. Sujit Patil, All India Rank: 2 in GATE 2015
- Ms Kashish Goel, All India Rank: 351; Ms Ishu Saini, All India Rank: 452 in GATE 2015
- Ms Ankita Final year student, passing out in 2014, got All India Rank: 12 in GATE 2014
- Mr. Lakhan Kumar, All India Rank: 238 in GATE 2014
- GATE -2013: Arun Thapa, M.Tech student at IIT Kharagpur
- GATE-2012: Kapish Gupta, All India Rank 2, completed M.Tech 2014 from IIT Bombay
- Kapish Gupta, B.Tech passed out 2012, became overall topper among all branches from the Institute and has won Institute Gold Medal

**12. Student Activity:**

**(i) TECHNITI 2015, November 06-08:** SOBER (Society of Biotech Engineers and Researchers), the student society of the Department organized following events during:

- Poster- Punch, programme for Biotechnological thoughts
- Biotechnology Model making Competition, Mega event
- Bio Science Quiz
- Devil's Advocate, related to Biotechnology

**(iii) Fresher Welcome:** SOBER (Society of Biotech Engineers and Researchers), the student society of the Department organized "Fresher Welcome" to the new 1<sup>st</sup> year students in the Central Seminar Hall of the Institute on September 07, 2015.

**(vi) Farewell:** SOBER (Society of Biotech Engineers and Researchers), the student society of the Department organized "Farewell Ceremony" to the 6<sup>th</sup> outgoing batch (2012-2016) in the Central Seminar Hall of the Institute on May 01, 2016.

**DEPARTMENT OF ENGINEERING/ SCIENCES/HUM  
DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	12	No. of PhD completed	03
No. of Journal publications(National)	19	No. of new PhD students enrolled	35
No. of International Conferences attended	00	No. of New PG students completed	21
No. of National Conferences attended	28	No. of New PG students enrolled	18
No. of STC/ Workshops conducted	17	No. of faculty members enrolled for higher qualifications	
No of conferences conducted	01	No. of faculty members upgraded qualifications	
No of expert talks delivered by faculty	01	Any other important information	
No. of expert talks organized			

**FACULTY**

Name	Position	Qualifications
Dr. M K Jha	Professor	PhD
Dr. Ajay Bansal	Associate Professor	PhD
Dr. Sangeeta Garg	Associate Professor	PhD
Dr. Renu Gupta	Associate Professor	PhD
Dr. Poonam Gera	Associate Professor	PhD
Dr. Jatinder Kumar Ratan	Assistant Professor	PhD
Dr. Neetu Divya	Assistant Professor	PhD
Ms. Rubal Preet	Assistant Professor	M.Tech

**ACADEMIC PROGRAMMES****Undergraduate Programmes****Postgraduate Programmes****LIST OF LABORATORIES****Laboratory development****RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)**

Faculty : Dr. M K Jha

**PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
11401102	Prashant Kumar	Process optimization of biodiesel production using hybrid heterogeneous catalyst			Dr. Ajay Bansal NIT Jalandhar Dr. A K Sharma Scientist 'D' SSS-NIRE Kapurthala	NITJ/DA/30 76-3084 dated 30/11/2015
09401132	N K Srivastava	Biological Treatment of Chromium from Industrial Waste Water			Dr. T R Sreekrishnan IIT Delhi	NITJ/DP/70 8-716 dated 15/03/2016
09401131	Manoj Kumar Jindal	Low temperature catalytic hydrothermal conversion of wood biomass to biocrude				Thesis submitted
12401102	Neetu Singh	Biodiesel Production by Enzymatic Transesterification and its application in CI Engines			Dr. A K Sharma Scientist D SSS-NIRE Kapurthala	Thesis submitted
13812001	Kanwar Pal Singh	Thermo chemical Conversion of Biomass			Dr. Poonam Gera NIT Jalandhar Dr. S K Tyagi, Scientist-E SSS-NIRE, Kapurthala	In Progress

13512002	Vijay Sodhi	Studies on upgradation of the conventional Tannery Wastewater Treatment.			Dr. Ajay Bansal	In Progress
14512004	Ravneet Kaur	Biomass Conversion and Utilisation			Dr. Poonam Gera	In progress
14512003	Kashish Mehta	Utilisation of heterogeneous catalyst for biodiesel production and its application in CI Engine			Dr. Neetu Divya	In progress
14812001	Navneet Sood	Blending of EVA with other polymers			Dr. Shailendra Bajpai	In progress
15512004	Jaspreet Kaur	Value added chemical production from the by products of the biodiesel industry			Dr. Poonam Gera	In progress

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13212022	Jaspreet Kaur	Downstream Processing of Crude Glycerol into Value Added Products			Dr. A K Sarma Scientist D, SSS-NIRE Kapurthala	Result declared on 11/06/2015
13212015	Virendra Kumar	Heterogeneous catalyst synthesis for the production of Methanol and DME				Result declared
14212006	Navneet Kumar Kushwaha	Replacement of virgin rubber with high tensile reclaimed rubber			Dr. S N Chakravarty MD, KPS Consultants New Delhi	In Progress
14212014	Devashish Pathak	Catalyst Evaluation studies on High pressure micro reactor for fuel production			Dr. N Bishawanadham IIP, Dehradun	In Progress

**Research Publications (International journals)**

S. No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
	Recombinant Bioremediation for the treatment of Heavy Metals	Journal of Chemical Engineering and Innovation	1		2015	N K Srivastava, <b>M K Jha</b> , T R Sreekrishnan and S Bajpai
	Characterization, activity and process optimization with a biomass-based thermal power plant's fly ash as a potential catalyst for biodiesel production	RSC Advances	5	9946	2015	Prashant Kumar, Anil Kumar Sarma, Sunil Mittal, Ajay Bansal and <b>M K Jha</b>
	Complete Heat balance, performance and emission evaluation of a CI engine fuelled with Mesua Ferrea methyl and ethyl ester's blends with petrodiesel	Journal of Thermal Analysis and Calorimetry	122	907-916	2015	Neetu Singh, Himansh, <b>M K Jha</b> and A K Sarma

**Research Publications (National journals) :**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Jatropha curcas phytotomy and applications: Development as a potential biofuel plant through biotechnological advancements	Renewable and Sustainable Energy Reviews	59	818-838	2016	Praveen Kumar, Vimal Chandra Srivastava and <b>Mithilesh Kumar Jha</b>

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Management Capacity Enhancement Programme	The Indian Institute of Management Indore	October 05-11, 2015	MHRD's National Mission for Teachers and Administrators
Indian Chemical Engineering Congress (CHEMCON 2015) International Symposium on "Enabling Process Innovation through Computation (EPIC)" & Indo-US Joint Symposium on Carbon Capture, Sequestration, Utilization and other Frontiers (CCSUF)	Guwahati Regional Centre Indian Institute of Chemical Engineers in Collaboration with Department of Chemical Engineering Indian Institute of Technology, Guwahati	December 27-30, 2015	Indian Institute of Chemical Engineers

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Industry Institute Interaction Programme	Dr. M K Jha	March 05-06, 2016	TEQIP-II

**Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Overview of Petroleum Industry	Dr. M K Jha	Expert Lecture	March 18, 2016.	National Institute of Technology, Srinagar
Futuristic Trends in Renewable Energy	Dr. M K Jha	Application of Chemical Engineering in Alternative Sources of Energy" and inauguration of IChE Student Chapter jointly organized by IChE Doaba Regional Centre and Shaheed Bhagat Singh State Technical Campus at Ferozepur	October 30, 2015.	workshop
Futuristic role of Engineering Education		ISTE Section Annual Convention on Challenges of Technical Education in Nation Building at National Institute of Technology, Hamirpur	September 30, 2015	

**Faculty : Dr. Ajay Bansal****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
	M K Kaushik	Permeability Studies on tire shreds as leachate collection medium	Completed		Dr A Agnihotri	
	Jatinder Kumar	Modeling and simulation of Immobilized titania based annular photocatalytic Reactor using CFD	Completed		-	
	Prashant K Singh	Studies on Biodiesel	Completed		Dr M K Jha	
	Rubal Preet	Not finalized	In Progress		Dr Renu Gupta	
	Vijay Sodhi	Not decided	In progress		Dr M K Jha	
	Nikesh Kumar	Non-Newtonian fluids	In progress		Dr Renu Gupta	
	Vikash Kumar	Renewable Energy	In progress		Dr Renu Gupta	
	Simranjeet Kaur	Modeling and Simulation	In progress		Dr Renu Gupta Dr R K Gupta	

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
	Raj Mohan	Studies on non-Newtonian visco-inelastic fluids	Completed		Dr Renu Gupta	
	Renuka	Studies on non-Newtonian visco-elastic fluids	Completed		Dr Renu Gupta	

	Nasir Ahmad	Synthesis characterization and application of Ceramic membranes	Completed		Dr F Q Mir	
	Chandan Roy	Photocatalytic Degradation of 2,4,6-Trichlorophenol using Titanium Dioxide doped with lanthanum and neodymium	Completed		Ms Rubalpreet	
	Surabh Patel	Stuidies on Nanoparticles	In progress		Dr Renu Gupta	
	Neha	Studies on Rheology	In progress		Dr Renu Gupta	

**Research Publications (International journals)**

S.N o	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	CFD simulations of immobilized-titanium dioxide based annular photocatalytic reactor: Model development and experimental validation	" Indian Journal of Chemical Technology (IJCT)	22 (3-4)	95-104	2016	J Kumar, A Bansal
2.	Drainage performance of different sizes tire chips used alone and mixed with natural aggregates as leachate drainage layer material"	Geotechnical and Geological Engineering	34 (1),	167-191	2016)	MK Kaushik, A Kumar, A Bansal
.	"Formulation of SrO-MBCUS agglomerates for esterification and transesterification of high FFA vegetable oil"	Bulletin of Chemical Reaction Engineering & Catalysis,	xxx-xxx	xxx-xxx	2016)	P Kumar, AK Sarma, A Bansal, MK Jha
.	Utilization of Renewable and Waste Materials for Biodiesel Production as Catalyst"	Bulletin of Chemical Reaction Engineering & Catalysis	10 (3),	221-229	(2015	P Kumar, AK Sarma, MK Jha, A Bansal, B Srivastava

**Research Papers in National Conference :**

S.N o	Title of paper	Journal Name	Year	Authors as on the article
1.	Performance of airlift reactors involving non-Newtonian fluids-a review	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Nikesh Kumar, Ajay Bansal, Renu Gupta
2.	Effect of fluid properties on mass transfer for packed bubble column using Newtonian and non-Newtonian fluids	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Rajmohan Aetukuri, Ajay Bansal, Renu Gupta, Renuka, Nikesh Kumar
3.	Response of a Anoxic-Aerobic activated sludge operation for synthetic and real industrial wastewater	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Vijay Sodhi, Ajay Bansal, M K Jha
4.	Chromium (VI) in wastewater: History and remedies for the large scale treatment	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Vijay Sodhi, Ajay Bansal, M K Jha
5.	Preparation and Characterization of low cost membrane from locally available clay	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Nasir Ahmad, Fasil Qayoom Mir, Ajay Bansal, Sachin Verma
6.	A review on development of low cost dye sensitized solar cell	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Vikash Kumar, Simranjit Kaur Chauhan, Ajay Bansal, Renu Gupta
7.	Reactive dividing wall Distillation column: An emerging separation technology: A review	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Simranjit Kaur Chauhan, Vikash Kumar, Ajay Bansal, Renu Gupta
8.	Fly ash based zeolite as apotential photocatalyst	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Kashish Mehta, Ajay Bansal, M K Jha, Neetu Divya
9.	Studies on fire retardant wood-a review	Advances in Chemical and Environmental Engineering	April 22-23, 2016	Saurabh Patel, Ajay Bansal

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Industry Institute Interaction Programme	Dept. of Chemical Engineering, NIT Jalandhar	March 05-06, 2016	TEQIP-II
Advances in Chemical & Environmental Engineering	Dept. of Instrumentation & Control Engineering, NIT Jalandhar	April 22-23, 2016	TEQIP-II
Industry Institute Interaction Programme	Dept. of Chemical Engineering, NIT Jalandhar	July 11-15, 2016	MHRD
Water Quality Management	Dept. of Chemical Engineering, NIT Jalandhar	June 20-24, 2016	TEQIP-II
Industrial Catalytic Technology	Dept. of Chemical Engineering, NIT Jalandhar	July 11-15, 2016	MHRD

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Industry Institute Interaction Programme	Dept. of Chemical Engineering, NIT Jalandhar	March 05-06, 2016	TEQIP-II
Advances in Chemical & Environmental Engineering	Dept. of Chemical Engineering, NIT Jalandhar	April 22-23, 2016	TEQIP-II
Landfills and Geo-environmental Engineering	Dept. of Civil Engineering, NIT Jalandhar	30 May - 3 June, 2016	MHRD
Water Quality Management	Dept. of Chemical Engineering, NIT Jalandhar	June 20-24, 2016	TEQIP-II
Industrial Catalytic Technology	Dept. of Chemical Engineering, NIT Jalandhar	July 11-15, 2016	MHRD

**Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr Ajay Bansal	Fellow	IEI	
Dr Ajay Bansal	Fellow	IChE	
Dr Ajay Bansal	Life Member	ISTE	
Dr Ajay Bansal	Fellow	International Congress of Environment Research	

**Projects Completed/On Going/sponsored projects**

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1.	Mass transfer studies in lab scale airlift reactor	December, 2015-Dec. 2016	TEQIP-II,	Dr Ajay Bansal Dr Renu Gupta	50,000/-
2.	Design and operational Analysis of upgraded treatment for real industrial wastewater	2015, 1 year	TEQIP-II	Dr Ajay Bansal Dr M K Jha	50,000/-

**Any other significant achievement:**

Faculty : Dr. Sangeeta Garg

**PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15512002	Aanchal Mittal	Preparation of green bio composite films for Packaging applications	ongoing	joint	Dr. Shailendra Bajpai	Enrolled on 04/08/2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13212007	Smriti Taneja	Removal of chromium (VI) from synthetic waste water using aluminium and copper electrodes by electrocoagulation: optimization of reaction parameters using taguchi analysis	completed	sole	-	Completed on 20/08/2015

13212017	Aanchal Mittal	Studies on the properties and biodegradability of PVA/starch composite films reinforced with barley husk fiber	completed	joint	Dr. Mithu Maiti	Completed on 20/08/2015
14212004	Nidhi Aggarwal	Synthesis of iron nano particles by the Phyllanthus Emblica leaves for the removal of Nile blue sulphate dye in aqueous solution	ongoing	sole	-	Enrolled on 15/7/2014
14212020	Pratibha	Comparative study on oxidation of mixture of three reactive dyes by two different advanced oxidation processes: Fenton and Photo-Fenton: Reaction kinetics and biodegradability assay	ongoing	sole	-	Enrolled on 23/7/2014

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Synthesis of Graft Copolymers for Green Composite Films and Optimization of Reaction Parameters using Taguchi(L <sub>16</sub> ) Orthogonal Array	Indian Chemical Engineer, 58, Taylor and Francis	58	1-23	2016	<b>Sangeeta Garg</b> , Deepak Kohli, A.K. Jana & Mithu Maiti.

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
National seminar on Sustainability of Engineering Education	NIT Jalandhar, Department of Chemical Engineering	March 26-27, 2015	ISTE
Short term course on Advanced materials and Characterization Techniques	NIT Jalandhar, Department of Chemistry and Bio Technology	June 1-7, 2015	TEQIP -II
Short term course on recent Trends in Applied Mathematics	NIT Jalandhar, Department of Mathematics	Nov. 30 – Dec.4, 2015	TEQIP -II
Short term course on Current Opportunities and new Directions in Chemical Sciences and Technology	NIT Jalandhar, Department of Chemistry	Dec.7-13, 2015	TEQIP -II
Industry Institute Interaction Programme	NIT Jalandhar, Department of Chemical Engineering, Doaba Regional Centre	March 5-6, 2016	TEQIP -II

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Industry Institute Interaction Programme	NIT Jalandhar, Department of Chemical Engineering, Doaba Regional Centre	March 5-6, 2016	TEQIP -II

**Faculty : Dr. Renu Gupta****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12401131	Ms. Rubal Preet	Degradation studies on organic pollutants	In Progress	Joint	Dr. Ajay Bansal	
13512001	Ms. Sudha	Study on degradation of phenolic compounds using Fenton oxidation process	In Progress	Joint	Dr. Sangeeta Garg	
14512001	Mr. Nikesh Kumar	Mass transfer studies in Airlift Reactors	In Progress	Joint	Dr. Ajay Bansal	
15512005	Ms. Simranjit Kaur Chauhan	Process modeling & Simulation	In Progress	Joint	Dr. Ajay Bansal	
15512003	Mr. Vikash Kumar	Environmental Engineering	In Progress	Joint	Dr. Ajay Bansal	

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14212017	Akanksha	Tribological Studies of Polymer Nanocomposites	Ongoing	Joint	Dr D N Tripathi	July, 2014
14212021	Renuka	Mass transfer studies in packed Bubble Column	Ongoing	Joint	Dr Ajay Bansal	July, 2014
14212011	Rajmohan	Mass transfer studies in Bubble Column	Ongoing	Joint	Dr Ajay Bansal	July, 2014
15212003	Neha Jain	Environmental Engineering	Ongoing	-	-	July, 2015

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Advances in Chemical & Environmental Engineering (ACEE 2016)	Dept. of Chemical Engineering, NIT Jalandhar	April 22-23, 2016	TEQIP-II
Application of Biotechnology in Industry & society (ABIS 2016)	Dept. of Biotechnology, NIT Jalandhar	April 12-14, 2016	TEQIP-II
Industry Institute Interaction Programme	Dept. of Chemical Engineering, NIT Jalandhar	March 5-6, 2016	TEQIP-II
Current Opportunities and New Directions in Chemical Sciences & Technology	Dept. of Chemistry, NIT Jalandhar	December 07-13, 2015	TEQIP-II
Recent Trends in Applied Mathematics	Dept. of Mathematics, NIT Jalandhar	Nov 30 –Dec 04, 2015	Society for Promotion of Mathematics
Advance Materials and Characterization Techniques	Dept. of Chemistry and Dept. of Biotechnology, NIT Jalandhar	June 1- 7, 2015	TEQIP-II

**Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr.Renu Gupta	Life Membership	IICHe, ISTE ,JERAD	41305, 27061 , L/871/11

**Faculty : Dr. Poonam Gera****PhD guidance:**

R. No	Name of Candidate	Title	Status	Joint with	Date of enrolment
13812001	Kunwar Pal	Design Modification and performance enhancement of biomass cook stoves using exergy approach	Ongoing	Dr. M K Jha Dr. S K Tyagi	07/08/2013
14512004	Ms Ravneet Kaur	Conversion of biomass to bio fuels	Ongoing	Dr. M K Jha	07/08/2014
15512004	Ms Jaspreet Kaur	Conversion of crude glycerol into value added products and its techno economic feasibility	Ongoing	Dr. M K Jha	7/08/2015

**PG guidance:**

R. No.	Name of Candidate	Title	Status	Name of joint supervisor	Date of enrolment/Completed
13212018	Rajesh Kumar Gupta	Kinetic study of vacuum residues of bio crude oils and upgradation of JCO Residue via coprocessing with petroleum diesel.	completed	Dr. A K Sarma	03-07-2013
10201135	Rajanjit Kaur	Photo catalytic degradation of yellow 12 dye by un doped and doped silver nano particles .	completed	Ms Rubal Preet	01-08-2013
13212005	Nisha singh	Utilization of collagen hydrolysate obtained from leather solid waste for micro encapsulation and controlled release of clove oil .	completed	---	3-07-2013
14212008	Satya Ranjan Das	Comparison of different pretreatment methods for production of methane from biomass	ongoing	---	4-07-2014
14212009	Amit Kumar	Green synthesis of copper nano particles	ongoing	----	4-07-2014



**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Advance materials and characterization techniques	Department of Chemistry and Department of Biotechnology, NIT Jalandhar	1-7 June 2015	TEQIP-II
Recent trends in Applied Mathematics	Department of Mathematics, NIT Jalandhar and Society for Promotion of Mathematics	Nov 30-Dec-04, 2015	TEQIP-II
Current opportunities and new directions in Chemical Sciences and Technology	Department of Chemistry, NIT Jalandhar	7-13 Dec, 2015	TEQIP-II

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Industry Institute Interaction programme	NIT Jalandhar, Department of Chemical Engineering	5-6 March, 2016	TEQIP-II

**Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr. Poonam Gera	Life member	Indian institute of Chemical Engineers (IICChE)	LM41326
Dr. Poonam Gera	Associate member	Journal of Environmental Research and Development	----

**Upgraded qualifications:**

Name of faculty	date of joining	Highest qualification of the faculty	year of attaining the qualification	Present Designation.
Dr. Poonam Gera	31.08.1995	PhD.	2012	Associate Professor

**Faculty : Dr. S. Bajpai****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15512002	Aanchal Mittal	Preparation of green bio composite films for Packaging applications	ongoing	joint	Dr. S. Garg	Enrolled on Aug 2015
	Rajkamal Kushwaha	Preparation of Nano composites for wastewater treatment	ongoing	joint	Dr. S. Garg	Enrolled on Aug 2014
	Navneet Sood	Studies on preparation on Yoga Mats	ongoing	joint	Dr. M. K. Jha	Enrolled on Aug 2014
	Robin Marlar	Studies on As Removal from aqs soln using NF process	ongoing	joint	Dr. S. Garg	Enrolled on Aug 2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
	Avinash Plaha	Failure mode identification and prioritisation using RPN, WRPN and AHP-Promethee-II Approach in chemical facilities	Completed	Sole		June 2016
	A. Vigneshwaran	An unified model for spiral wound nanofiltration system a dissertation	Completed	Sole		June 2016
	S S Rao	Treatment of colored waste water using AOP	Ongoing	Sole		July 2015 enrolled

**Research Publications (national Journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Treatment of Municipal Waste water treatment using SBR with carbon credits.	Journal of Biofuels and Bioenergy	Vol 2	1-23	2016	R R Marlar, Vigneshwaran Aiyappan, SS Rao, S. Bajpai

**Research Publications (International journals) :**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Effect of cross linking of PVA/starch and reinforcement of modified barley husk on the properties of composite films. 151 (2016) 926–938.	Carbohydrate Polymers	151	926–938	2016	Aanchal Mittala, Sangeeta Garg,, Deepak Kohli, Mithu Maiti, Asim Kumar Jana, Shailendra Bajpai

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
National seminar on Sustainability of Engineering Education	NIT Jalandhar, Department of Chemical Engineering	March 26-27,2015	ISTE
Industry Institute Interaction Programme	NIT Jalandhar, Department of Chemical Engineering, Doaba Regional Centre	March 5-6,2016	TEQIP -II

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Industry Institute Interaction Programme	NIT Jalandhar, Department of Chemical Engineering, Doaba Regional Centre	March 5-6,2016	TEQIP -II

**Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr. S. Bajpai	Life Member	IICHE, Kolkata	LM-33589

**Projects Completed/On Going/sponsored projects**

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1.	FIST	2016	DST, New Delhi	Dr. S. Bajpai	155 lacs Ongoing
2.	Preparation, characterization and application of magnetic nano composites in removal of chromium from industrial waste water	2016	TEQIP-II	Dr. S. Bajpai	48, 572/- Completed
3.	Design and performance of personalized comfort for industrial workers	2016	TEQIP-II	Dr. S. Bajpai	43,000/- Completed

**Faculty : Dr. Jatinder Kumar Ratan****PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
	Nikita Rajpal	Development of consortium for waste water treatment	Ongoing		Dr Neetu Divya	
	Pankaj Kumar	Production of Graphene	Ongoing		Dr Neetu Divya	
	Pratibha	----	Ongoing		Dr Sangeeta Garg	

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
	Manjit Kaur	. Preparation and characterization of activated carbon				
	Honemane Pratap	Photocatalysis for Degradation of Amaranth Dye using Light Emitting Diodes				
	Praveen Kumar	Investigation of physio-chemical parameters for monitoring of river water quality: A case study of Gomti river in India				

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	CFD simulations of immobilized-titanium dioxide based annular photocatalytic reactor: Model development and experimental validation	Indian Journal of Chemical Technology	22	95-104.	2015	Jatinder Kumar, Ajay Bansal

**Research Papers in Conferences:**

S.No	Title of paper	Conference	Year	Authors as on the article
1.	Simulation of annular reactor used for photocatalytic degradation	17 <sup>th</sup> International Conference on Chemical Engineering, Chicago	2015	Jatinder Kumar, Ajay Bansal
1.	Role of fungus in waste water treatment: A review	Recent Advances in Chemical & Environmental Engineering	April 22-23, 2016	Nikita Rajpal, Jatinder Kumar Ratan
2.	Photocatalysis for degradation of Amaranth dye using light emitting diodes	Recent Advances in Chemical & Environmental Engineering	April 22-23, 2016	Pratap Honemane, Jatinder Kumar Ratan
3.	A review on photocatalytic degradation of organic dyes in presence of nanostructured titanium dioxide	Recent Advances in Chemical & Environmental Engineering	April 22-23, 2016	Jay Bulani, Sunpreet Singh, Jatinder Kumar Ratan
4.	Assessment of physio-chemical water quality parameters of river Gomti.	Recent Advances in Chemical & Environmental Engineering	April 22-23, 2016	Praveen Kumar, Jatinder Kumar Ratan
5.	Preparation & characterization of activated carbon.	Recent Advances in Chemical & Environmental Engineering	April 22-23, 2016	Manjeet Kaur, Jatinder Kumar Ratan
6.	Assessment of water quality on river Kali Bein using multivariate statistical techniques	Recent Advances in Chemical & Environmental Engineering	April 22-23, 2016	Sravan Kumar, Sarbjit Singh, Jatinder Kumar Ratan, Rahul Mor

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
National conference on Advances in Chemical & Environmental Engineering	NIT Jalandhar, Department of Chemical Engineering	April 22-23, 2016	NIT Jalandhar & TEQIP-II
Industry Institute Partnership Programme	NIT Jalandhar, Department of Chemical Engineering	March 05-06, 2016	TEQIP-II & IChE
Water Quality Management	NIT Jalandhar, Department of Chemical Engineering	June 20-14, 2016	TEQIP-II

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
National conference on Advances in Chemical & Environmental Engineering	NIT Jalandhar, Department of Chemical Engineering	April 22-23, 2016	TEQIP-II
Water Quality Management	NIT Jalandhar, Department of Chemical Engineering	June 20-14, 2016	TEQIP-II
Fundamentals and Applications of Finite Element Method	NIT Jalandhar, Department of Chemical Engineering	June 13-17, 2016	TEQIP-II
Industry Institute Partnership Programme	NIT Jalandhar, Department of Chemical Engineering	March 05-06, 2016	TEQIP-II & IChE

**Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Advances in TiO <sub>2</sub> photocatalysis		National Conference	April 23, 2016,	National Conference

**Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
		World Scientific and Engineering Academy & Society (WSEAS)	
		Indian Society for Technical Education, New Delhi	
		Indian Institute of Chemical Engineers, Kolkata	

**Projects Completed/On Going/sponsored projects**

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost
1.	Study on Treatment of Groundwater of A B Sugars Ltd	Completed in December 2015	A B Sugars Ltd	Dr Jatinder Kumar Dr Ajay Bansal	Rs. 1.0 Lacs
2.	Preparation and characterization of activated carbon	Completed in July 2016	TEQIP-II	Dr Jatinder Kumar	Rs. 0.5 lacs

**Any other significant achievement:****Patent**

**Jatinder Kumar Ratan**, Kuldeep Singh Nagla, 2015. An improved packed bed photocatalytic reactor with high and uniform illumination and an associated technique of purification, Patent Application Number 4290/DEL/2015 (In process).

**Design**

**Jatinder Kumar Ratan**, Kuldeep Singh Nagla, 2016. Photocatalytic reactor, Design Registration Application Number 279651 (In process).

**Copy Right**

**Jatinder Kumar Ratan**, 2016. Kali Bein: Mahatva, Pradushan aur Uski Roktham, 2917/2016CO/L dated 08/03/2016 (published in Punjab Kesri & Jag Bani on March12,2016)

**Faculty : Dr. Neetu Divya**

**PhD guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
	Mr. Pankaj Kumar	Synthesis of Chemically Derived Graphene Oxide from Graphite	Ongoing			06/08/2015
	Ms Nikita Rajpal	---	Ongoing			2015

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
15212009	Ms. Monika	Fermentation	ongoing	Sole	Dr. Neetu Divya	20/07/2015

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Current Opportunities and New Directions in Chemical Sciences and Technology	Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar - 144011	December 7-13 <sup>th</sup> , 2015	TEQIP-II
Recent Trends in Applied Mathematics	Department of Mathematics, Dr B R Ambedkar National Institute of Technology, Jalandhar - 144011	November 30 <sup>th</sup> – December 4 <sup>th</sup> , 2015	TEQIP-II
Current Opportunities and New Directions in Chemical Sciences and Technology	Department of Computer Science, Dr B R Ambedkar National Institute of Technology, Jalandhar - 144011	June 1-5 <sup>th</sup> 2015	TEQIP-II

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Advances in Chemical & Environmental Engineering (ACEE 2016)	NIT Jalandhar, Department of Chemical Engineering	22-23 April, 2016	TEQIP-II

**Rubal Preet**

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13212003	Navneet Kumar	Synthesis, Characterization And Assessment Of Photocatalytic And Antibacterial Activity Of Capped And Uncapped Zns Nanoparticles A Dissertation	Completed	Sole		20.5.2015
13212011	Parneet Kaur	Effect of different carbon sources and aeration rate on the cellulase enzyme production by the <i>Trichoderma reesei</i>	Completed	Sole		5.8.2015
10201135	Rajanjit Kaur	Photo catalytic degradation of yellow 12 dye by un doped and doped silver nano particles .	Completed	Joint	Dr Poonam Gera	27.2.2015
14212013	Chandan Roy	Photocatalytic Degradation Of 2,4,6-Tri Chlorophenol Using Titanium Dioxide Doped With Lanthenum And Neodymium.	Ongoing	Joint	Dr Ajay Bansal	4-07-2014

**Research Publications (National conference) :**

S.No	Title of paper	Conference	Year	Authors as on the article
1.	Synthesis and Characterisation of capped ZnS nanoparticles and its applications in sunlight assisted photocatalytic degradation of methyl orange dye	National Conference at Institute of Chemical Technology, Mumbai	February 13-14, 2015	Navneet Kumar, Rubal Preet and C K Jain

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Title of course	Name of organizer	Dates	Funded by
Current Opportunities and New Directions in Chemical Sciences and Technology	Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar - 144011	December 7-13 <sup>th</sup> , 2015	TEQIP-II
Recent Trends in Applied Mathematics	Department of Mathematics, Dr B R Ambedkar National Institute of Technology, Jalandhar - 144011	November 30 <sup>th</sup> – December 4 <sup>th</sup> , 2015	TEQIP-II

**Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Advances in Chemical & Environmental Engineering (ACEE 2016)	NIT Jalandhar, Department of Chemical Engineering	22-23 April, 2016	TEQIP-II

**Any other significant achievement:****Book Chapter**

Rubal Preet, Ajay Bansal, Renu Gupta, Sukhdeep Kaur 2015, "Synthesis and Assessment of the Photocatalytic activities of undoped and Mn-Doped ZnO Nanoparticles", Nanotechnology Novel Perspective and Prospects, Mc Graw Hill, 1-16:256-264

Dr. N. K. Srivastava

**PG guidance:**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13212010	Isheeta Singh	Pretreatment of rice straw using sodium hydroxide for biofuel and biorefinery application	Completed	Joint	Dr. Sachin Kumar SSS-NIRE, Kapurthala	20.8.2015
13212019	Arti Verma	Bioprocessing thermotolerant isolate NIRE-M for the production of lignocellulytic enzymes for biofuel production	Completed	Joint	Dr. Sachin Kumar SSS-NIRE, Kapurthala	20.5.2015
14212015	Subhashini Pandey	Enhanced Hydrolytic Activity of Ortho Positioned Amphiphilic Pyridine Aldoxime in the Micellar Medium	Completed	Joint	Dr. Praveen K. Vemula	12.8.2016
14212019	Shweta Kalia	Study on Optimization of Various Factors for Production and Purification of Extracellular Alkaline Lipase from <i>Aspergillus fumigatus</i>	Completed	Joint	Dr N Basak	12.8.2016

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Recombinant microbial bioremediation for the treatment of heavy metals	Journal of Chemical Engineering and its Innovation	1.1,	1-26	2015	<b>N. K. Srivastava</b> , M. K. Jha, T. R. Sreekrishnan, S. Bajpai
2.	Homology Modeling of DNA polymerases of Herpesviridae family and structure-based virtual screening for inhibitor identification	Journal of Applied Pharmaceutical Science	5(12),.	48-55	2015	Subhashini Pandey, Jitender Kumar, <b>N. K. Srivastava</b> , Somdatt

**Book Chapter**

Parmvir Singh, Rishab Jain, **Nirmal Kumar Srivastava**, Kaushik Shandilya and Jayendra Solanki, Chapter: Synthesis of Manganese oxide nanoparticles using similar process and different precursors-A comparative study, Advances in Nanotechnology, Vol. 13, ISBN: 978-1-63482-367-8, Nova Science Publishers Inc., New York, USA, 2015.

**DEPARTMENT OF CIVIL ENGINEERING****DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	14	No. of PhD completed	02
No. of Journal publications(National)	02	No. of new PhD students enrolled	01
No. of International Conferences attended	03	No. of new PG students completed	27
No. of National Conferences attended	03	No. of new PG students enrolled	22
No. of STC/Workshops conducted	01	No. of faculty members enrolled for higher qualifications	02
No. of Conferences conducted	01	No. of faculty members upgraded qualifications	--
No. of expert talks/special lectures delivered by Faculty	03	Any other important information	--
No. of expert talks organized	--		

**1. FACULTY**

S. No.	Name	Position	Qualifications
1.	Dr. A. K. Agnihotri	Professor	PhD, University of Roorkee
2.	Dr. A. P. Singh	Professor	PhD, P.T.U Jalandhar
3.	Dr. S. P. Singh	Professor	PhD, University of Roorkee
4.	Mr Davinder Singh	Assistant Professor	ME, P.U. Chandigarh
5.	Dr. Rizwan Ahmad Khan	Assistant Professor	PhD, IIT Delhi
6.	Ms Shailja Bawa	Assistant Professor	ME, P.U. Chandigarh

**2. ACADEMIC PROGRAMMES****Undergraduate Programmes**

- Bachelor of Technology in Civil Engineering

**Postgraduate Programmes**

- Master of Technology in Structural and Construction Engineering (Full Time and Part Time)
- Ph D (Full Time and Part Time)

**3. LIST OF LABORATORIES**

Structures Testing Laboratory

Concrete Technology Laboratory

CAD Laboratory

Environmental Engineering Laboratory

Hydraulics Laboratory

Geotechnical Engineering Laboratory

Structural Analysis Laboratory

Surveying Laboratory

**4. RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****Faculty 1: Dr. A. K. Agnihotri****PhD guidance**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
M K Kaushik	Leachate drainage through waste scrap tire chips and gravel bed in landfill leachate drainage system.	Completed	Joint	Dr Ajay Bansal, NIT Jalandhar	March, 2016

**PG guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Jagdish Raj	Technical study for reducing the cost of concrete lining of canal by improving drainage system behind lining	Completed	Sole	----	2015
Aakash yadav	Comparison and strength behaviour of geocell reinforced black cotton soil mixed with pond ash and tire chips.	Completed	Joint	Dr Akash priyadarshee	2015
Manish Yadav	Behaviour of geocell shredded tyres reinforced sand under triaxial loading	Completed	Joint	Dr Akash priyadarshee	2015
Gourav Dhane	Strength and stiffness behaviour of geocell reinforced sand mixed with pond ash.	Completed	Joint	Dr Akash priyadarshee	2015
Karma Hissey Lepcha	Study on square footing supported on geocell - tire crumb reinforced granular soil	Completed	Joint	Dr Akash priyadarshee	2015
Dhiraj Kumar	Behaviour of geocell reinforced granular soil under circular footing	Completed	Joint	Dr Akash priyadarshee	2015

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Volume Number	Page No	Publication year	Authors as on the article
1.	Assessment of Ground Water Quality and Feasibility of Tire Derived Aggregates for use as Leachate Drainage Material	Electronic Journal of Geotechnical Engineering	210.09	3113 - 3136	2016	Anchal Sharma, M. K. Kaushik, Sanjeev Naval, Arvind Kumar, Ajay Bansal
2.	Estimation of Service life for Tire Derived Aggregates Drainage Layer of Leachate Collection System	Electronic Journal of Geotechnical Engineering	210.09	3453 - 3473	2016	Disha Thakur, M. K. Kaushik, Arvind Kumar, Ajay Bansal
3.	Drainage performance of different sizes of tire chips used alone and mixed with natural aggregates as leachate drainage layer material	Journal of Geotechnical and Geological Engineering	--	--	published online, Jan 21, 2016	M. K. Kaushik, Arvind Kumar, Ajay Bansal
4.	Behaviour of Eccentrically inclined Loaded Footing Resting on Fiber-Reinforced Soil	Geomechanics and Engineering -An International Journal	10(2)	155-174	February 2016	Arshdeep Kaur, Arvind Kumar
5.	Performance Assessment of Gravel – Tire Chips mixes as Drainage layer Material using real active MSW landfill leachate	Journal of Geotechnical and Geological Engineering	--	--	Published online, June 2, 2015	M. K. Kaushik, Arvind Kumar, Ajay Bansal
6.	Geo-Environmental Prospectives and Development Plans for a new MSW landfill site using Tire Chips as Leachate Drainage Materials	International Electronic Journal of Geotechnical Engineering	19 (Z6)	17495-17513	2015	M.K.Kaushik, Arvind Kumar, Ajay Bansal

**Faculty 2: Dr. A. P. Singh****PG guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Shivam Pal	Ht effect on response reduction factor of Braced steel frames	Completed	Sole	NA	2015
Mohammad Jaisal M	Comp study and Design of an industrial Building	Completed	Joint	S.Chiranjad evi	2015
	Comparative Study of Static and Dynamic Analysis of Multistoreyed	Completed	Sole	-	2015



Rashad M	Buildings				
Sharath Kumar	Effect of anfenings in shear wall	Completed	Joint	Er Vishal Gautam	2015
Azharudheen KT	Effect of Floating column in seismic response of Multistorey Building	Completed	Sole	-	2015
Yogesh Kumar	Response of steel Fibre Reinforced concrete members	Completed	Joint	Dr. Harinder Singh	2015

**Faculty 3: Dr. S. P. Singh****PhD guidance**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Roshan Lal	Investigations on Reinforced Concrete Corner Joints under Opening Moments	Completed	Joint	Dr N P Devgan, Dr Bhupinder Singh	July 2015
Sumit Arora	Flexural Fatigue Performance of Concrete made with RCA	In progress	Sole	-	-
Navdeep Singh	Carbonation Resistance of Self Compacting Concrete containing Recycled Concrete Aggregates	In progress	Sole	-	-
Kanish Kapoor	Durability Properties of Self Compacting Concrete made with Recycled Concrete Aggregates	In progress	Joint	Dr Bhupinder Singh	-
Shailja Bawa	Flexural Fatigue Performance of Steel-Polypropylene Hybrid Fibre Reinforced Self Compacting Concrete	In progress	Sole	-	-
Dilraj Singh	Properties of Pervious Concrete made with Recycled Concrete Aggregates and Cement Additions	In progress	Sole	-	-

**PG guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Anup Kumar	Strength properties of steel fibre reinforced concrete containing mineral admixtures	Completed	Sole	-	2015
Vikramjeet	Strength and water permeation properties of concrete made with high volume fly ash	Completed	Sole	-	2015
Agam	Strength development and water permeation of concrete containing steel slag as partial replacement of fine aggregates	Completed	Sole	-	2015
Manpreet Singh	Optimizing shear wall locations in multi-story buildings	Completed	Sole	-	2015
P D Shah	Validation of Design Procedure for Failure Control Mechanism of D and K braced EBF: Pushover Analysis	Completed	Sole	-	2015

**Research Publications (International journals):**

S.No	Title of paper	Journal Name	Volume Number	Page No	Publication year	Authors as on the article
1.	Flexural Fatigue Analysis of Concrete made with 100% Recycled Concrete Aggregates	Journal of Materials and Engineering Structures	2	77-89	2015	Sumit Arora
2.	Mean and Design Fatigue Lives of SFRC Containing Cement based Materials	Magazine of Concrete Research	Available online 21 July 2015			Gurbir Kaur, S K Kaushik
3.	Analysis of flexural fatigue failure of concrete made with 100% coarse recycled concrete aggregates	Construction and Building Materials	102	782-791	Jan, 2016	Sumit Arora

**Continuing Education /QIP Short Term Lectures /Special lectures Delivered:**

S.No	Title of Lecture/Lecture Series	Date, Place and Programme where lectures delivered	Other relevant information
1.	High Performance Concrete: Testing for Durability-I	15 June 2015, Short Term Course, NIT Jalandhar, 15-19 June 2015	---
2.	High Performance Concrete: Testing for Durability-II	16 June 2015, Short Term Course, NIT Jalandhar, 15-19 June 2015	---
3.	Demonstration: Durability Testing	18 June 2015, Short Term Course, NIT Jalandhar, 15-19 June 2015	---

**Faculty 4: Mr. Davinder Singh****Faculty 5: Dr. Rizwan Ahmad Khan****PhD guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Ms. Chiranjia Kumari Devi	Utilisation of Nanomaterial in concrete Composites	Pending	Sole		2015

**PG guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Mr. Nitin Lamba	Seismic and Moving Load Analysis of Shaped Cable Stayed Bridge	Completed	Sole	----	2015
Mr. Pramod Kumar	Progressive Collapse Analysis of a Existing Reinforced Concrete Building Using ETABS	Completed	Sole	----	2015
Mr. Amit Yadav	Seismic Vulnerability Assessment of Irregular RC Building Using Pushover Analysis	Completed	Sole	----	2015
Mohd. Sharique	Dynamic and Buckling Analysis of Sandwich Composite Laminated Plate	Completed	Sole	----	2015
Mr. Parmender Gill	Comparison of Various Procedures for Progressive Collapse Analysis of Multi Storey Residential RC Building	Completed	Sole	----	2015
Mr. Manpreet Singh	Study of Strength and Flexural Performance of Marble Dust Concrete	Completed	Sole	----	2015

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Volume Number	Page No	Publication year	Authors as on the article
1.	Nonlinear Three Dimensional Dynamic Analyses of Titanium Drilling Riser	Journal of Offshore Structures and Technology ISSN: 2349-8986	Vol. 2(2)	---	2015	Rizwan A. Khan Abhishek Khandelwal and Suhail Ahmad

2.	Fatigue Durability Assessment of Suspended Piping System under Random Loads"	Journal of Materials Science & Surface Engineering ISSN: 2348-8956	Vol. 3(3)	272 - 279	2015	Rizwan A. Khan
3.	A Comprehensive Analysis of the Advances in Green Buildings Sector	Journal of Alternate Energy Sources and Technologies. ISSN: 2230-7982(online), ISSN: 2321-5186(print)	Vol. 6(3)	---	2015	Rizwan A. Khan, Milind Sharma and Snimardeep Singh,
4.	Durability Properties of Self Compacting Concrete containing Fly ash, Lime powder and Metakaolin.	Journal of Materials and Engineering Structures ISSN 2170-127X)	Vol. 2, I-4	----	2016	Rizwan A Khan and Atul Sharma
5.	The effect of coal bottom ash (CBA) on mechanical and durability characteristics of concrete.	Journal of Building Materials and Structures, ISSN: 2353-0057)	Vol. 3, I-1	31-42	2016	Rizwan A Khan and Atluri Ganesh

**Faculty 6: Ms Shailja Bawa****PG guidance:**

Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ completed
Asif Basheer	Durability and Mechanical Properties of Concrete containing Steel Slag as Partial Replacement for Fine Aggregates	Completed	Sole	-	2015
Prabhat Solanki	Buckling Analysis of Laminated Composite Plate using Ansys	Completed	Sole	-	2015
Nitish P	Optimization of link section in Eccentrically Braced Frame	Completed	Sole	-	2015
Preetpal Singh	Stabilization of Expensive Soil Using Grass Ash and Lime	Completed	Sole	-	2015

**Research Publications (National journals)**

S.No	Title of paper	Journal Name	Volume Number	Page No	Publication year	Authors as on the article
1.	Influence of Fly Ash on the properties of soil: A Review	Journal of Civil Engineering and Environmental Technology	Volume 3	39-43	March, 2016	Preetpal Singh, Shailja Bawa, Akash Priyadarshi and Gurjeet Kumar
2.	Influence of Tire Chips on the behaviour of soil", Journal of Civil Engineering and Environmental Technology	Journal of Civil Engineering and Environmental Technology	Volume 3	23-27	March, 2016	Preetpal Singh, Shailja Bawa, Akash Priyadarshi and Gurjeet Kumar

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty:**

Title of course	Name of organizer	Dates	Funded by
Role of ICT in driving Government performance	By National Productivity Council at Goa	Dec14-18, 2015	----
Current Opportunities and New Directions in Chemical Science and Technology	Department of Chemistry, NIT, Jalandhar	Dec 07-13, 2015	----
Recent Trends in Applied Mathematics	Department of Mathematics, NIT, Jalandhar	Nov 30-Dec 04, 2015	----
International UKIERI Concrete Congress: Concrete Research Driving Profit and Sustainability	Congress Organizing Committee with Dr S P Singh as Congress Secretary	November 2-5, 2015	----
International Conference on Fatigue Durability and Fracture Mechanics	IISc, Bangalore	Sept 28-30, 2015	----
International Conference on Fatigue Durability and Fracture Mechanics	IISc, Bangalore	May 28-30, 2015	----

**2. Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
International UKIERI Concrete Congress: Concrete Research Driving Profit and Sustainability	Congress Organizing Committee with Dr S P Singh as Congress Secretary	November 2-5, 2015	----
High Performance Concrete: Past, Present and Future	Dr S P Singh and Dr Rizwan A Khan	June 15-19, 2015	TEQIP-II

**3. Membership of professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr S P Singh	Annual	American Concrete Institute (ACI), USA	01210261
Dr S P Singh	Annual	International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), France.	----

**4. Consultancy services completed/ongoing:**

S.No	Title	Year	Agency	Coordinator/Dept.	Project cost
1.	Design/vetting of Structure Design of Buildings				Rs 5,00000/-
Strong liaison is maintained with the civil engineering construction industry by way of rendering consultancy services related to structural design of Reinforced Concrete commercial and industrial structures, material testing, concrete mix design etc.					

**5. Projects Completed/On Going/sponsored projects**

S.No	Title	Year	Agency	Coordinator/Dept.	Project cost
1.	Material Testing and Characterization of concrete (FIST-DST), (In progress)	2011-2016	DST	Dr S P Singh	Rs. 102 Lacs

**6. Details of faculty who have enrolled for higher qualifications:**

Name of Faculty	Date of joining	Qualification of the faculty for which enrolled	Year of attaining the qualification	Present Designation
Mr. Davinder Singh	Aug 8, 2014	PhD	----	Assistant Professor
Ms. Shailja Bawa	Aug 8, 2014	PhD	----	Assistant Professor

**7. Any other significant achievement**

- Dr S P Singh received Thomas Howard Medal for Best Paper Award 2015 from Institution of Civil Engineers, UK on October 9, 2015 in London. The paper was authored by Gurbir Kaur, S P Singh and S K Kaushik.
- Dr Rizwan Ahmad Khan received "Young Concrete Engineer Award 2015" by Indian Concrete Institute (ICI) - Ultratech Cement, 2015.

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING****DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	41	No. of PhD completed	02
No. of Journal publications(National)	NIL	No. of new PhD students enrolled	07
No. of International Conferences attended	05	No. of New PG students completed	29
No. of National Conferences attended	02	No. of New PG students enrolled	31
No. of STC/ Workshops conducted	03	No. of faculty members enrolled for higher qualifications	NIL
No of conferences conducted	NIL	No. of faculty members upgraded qualifications	02
No of expert talks delivered by faculty	13	Any other important information	-
No. of expert talks organized	05		

**FACULTY**

Name	Position	Qualifications
Dr R. K. Sarin	Professor	Ph.D
Dr Arun Khosla	Associate Professor	Ph.D
Dr Mamta Khosla	Associate Professor	Ph.D
Dr B. S. Saini	Associate Professor	Ph.D
Dr R. K. Sunkaria	Assistant Professor	Ph.D
Dr Indu Saini	Assistant Professor	Ph.D
Dr Deepti Kakkar	Assistant Professor	Ph.D
Dr Ashish Raman	Assistant Professor	Ph.D
Dr Neetu Sood	Assistant Professor	Ph.D
Dr Balwinder Raj	Assistant Professor	PhD

**ACADEMIC PROGRAMMES****Undergraduate Programmes**

- B. Tech. in **Electronics and Communication Engineering**

**Postgraduate Programmes**

- M. Tech. in **Electronics and Communication Engineering**
- M. Tech. in **VLSI Design**

**Full Time PhD****LIST OF LABORATORIES**

- Basic Electronics Lab
- Communication System Lab
- Devices & Circuits Lab
- Microwave Engineering Lab
- Digital Signal Processing Lab
- VLSI Design Lab
- Embedded System Lab
- Biomedical Signal Processing and Telemedicine Lab
- Emerging Technologies Lab
- Nano Electronics Research Lab
- Medical Imaging and Computational Modeling of Physiological System Research Lab

**Laboratory development**

Sr no	Item purchased	Laboratory	Price (Rs.)	Laboratory in charge
1.	Silvaco EDA Tool	VLSI Lab	14,70,000	Dr R. K. Sarin, Dr Mamta Khosla
2.	FPGA Boards	VLSI Lab	2,15,438	Dr R. K. Sarin, Dr Mamta Khosla
5.	Wireless Sensor Network kit	Communication System lab	1,53,000	Dr Deepti Kakkar
6.	Experimental boards of Analog and Digital Communication	Communication System lab	6,36,188	Dr Deepti Kakkar

**RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****Faculty 1: Dr R K Sarin****PhD guidance: 08**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
08404036	Ashish Raman	Design and Study of Low Phase Noise RF Wide band Delay Cell for Integrated Applications	Completed	Sole		Completed in Nov, 2015
11404001	Ankush Chunn	Design And Performance Analysis of Low Power ADCs for UWB Receiver	Ongoing	Sole		4 <sup>th</sup> August 2013
12404001	S. Intekhab Amin	Device Design Consideration and Performance Analysis of Multiple gate Junctionless Transistor	Ongoing	Sole		7 <sup>th</sup> August 2012
13504001	Sunny Anand	Design And Performance Analysis of Doping-Less TFET	Ongoing	Sole		5 <sup>th</sup> August 2013
13804001	Shikha Sukhija	Design of Low Profile Antennas of Different Configurations for Bio Medical Applications	Ongoing	Joint	Dr Sarabjeet Singh	5 <sup>th</sup> August 2013
13804002	Harmandar Kaur	Performance Evaluation and Enhancement by using Improvement Measures in MIMO-OFDM Systems	Ongoing	Joint	Dr Mamta Khosla	6 <sup>th</sup> August 2013
14804001	Gurmohan Singh	Design and Performance Analysis of Quantum Cellular Automata Based Nanocomputing Circuits	Ongoing	Joint	Dr Balwinder Raj	12th August 2014
15504002	Davinder Singh	MIMO Wireless Communication (Broad Area)	Ongoing	Sole		Aug, 2015

**PG guidance: 03**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14204023	ADIL AL AYUBI	A Low Profile Microstrip Patch antenna for biomedical application and its effect with DGS.	Simulation part and Hardware Implementation is completed and write up is in progress.	Sole		23-07-2014/-
14204017	VIKAS SHARMA	A Microstrip Patch antenna for determining the moisture content in soil.	Simulation work completed hardware design and write up is in progress.	Joint	Dr. Balwinder Raj	23-07-2014/-
14219003	SK SAFIUL BAKSH	Design of SOI-type compound junction less field effect transistor and its performance evaluation.	Designs of devices in Atlas (Silvaco) are done. Simulation results are compared. Thesis writing and organization of graphs in MS-Word are on progress.	Sole		02-07-2014 /-

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	An Analysis on Ambipolar Reduction Techniques for Charge Plasma Based Tunnel FETs	Journal of Nanoelectronics and Optoelectronics	11	1-8	2016 (doi:10.1166/jno.2016.1922)	Sunny Anand, R.K.Sarin
2	Analog Performance Investigation of Dual Electrode Based Doping-Less Tunnel FET	Journal of Computational Electronics	15 (1)	94-103	2016. (DOI: 10.1007/s10825-015-0771-4)	Sunny Anand, S. Intekhab Amin, R.K. Sarin
3	Performance Analysis of Charge Plasma based Dual Electrode Tunnel FET,	Journal of Semiconductors	37 (5)		2016	Sunny Anand, S. Intekhab Amin, R.K. Sarin
4	Dual Material Gate Doping-Less Tunnel FET with Hetero Gate Dielectric for Enhancement of Analog/RF performance	Journal of Computational Electronics, <b>accepted</b>				Sunny Anand, R.K.Sarin
5	Performance Investigation of InAs Based Dual Electrode Tunnel FET on the Analog/RF Platform	Superlattices and Microstructures, <b>accepted</b>				Sunny Anand, R.K.Sarin

**Faculty 2: Dr Arun Khosla****PhD guidance: 08**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
08404032	Deepti Kakkar	Spectrum Sensing in Multihop Networks for Cognitive Radios	Completed	Joint	Dr Moin Uddin	Completed in Jan,2016
13504007	Parulpreet	Optimized Localization in Dynamic WSNs	Ongoing	Joint	Dr Mamta Khosla Dr Anil Rose	Jan, 2014
13804004	Anurag Sharma	Technological Interventions for Diagnosis and Learning in Children with Autism Spectrum Disorder	Ongoing	Joint	Dr Mamta Khosla Dr Yogeswara Rao M	Jan, 2014
14804002	Gunjan Gandhi	Localization in WSNs using UWB Impulse Radio	Ongoing	Sole		Aug, 2014
14504003	Ganjendra Singh	Anomaly Detection for Video Surveillance Systems	Ongoing	Sole		Aug, 2014
12404002	Imtiyaz Anwar	Study and Analysis of Deweathering Techniques	Ongoing	Sole		July, 2012
15504003	Kulbhushan	Healthcare IT	Ongoing	Sole		Aug, 2015
13504010	Satbir Singh	Multimodal Object Tracking based upon information Fusion	Ongoing	Sole		Jan, 2014

**PG guidance: 08**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14204011	Saswati Pal	Eye Tracker based Human Computer Interaction	Thesis writing In progress	Sole		2014 (Enrolment)
14204025	Naveen Kumar Mangal	Frozen Shoulder Rehabilitation using Microsoft KINECT	Thesis writing In progress	Sole		2014 (Enrolment)
14204021	Alakh Niranjan Kumar Sinha	High Accuracy Time of Flight Calculation for Ultrasonic Anemometer	Thesis writing In progress	Sole		2014 (Enrolment)
14204022	Vipin Prakash Yadav	Design and Implementation of Ultrasonic Anemometer	Thesis writing In progress	Sole		2014 (Enrolment)
13204002	Kunal Patel	Demand Side Management in Smart Grid Network	Completed	Sole	-	2015 (Completed)
13204009	Yadvendra Yadav	Thermal Management of 15 Watt LED lighting System using different Heat Sinks and Layout Designs	Completed	Sole	-	2015 (Completed)
13204008	Shubham Gupta	Thermal Analysis of LED Street Light at System Level for Improved Performance using Extruded Surface	Completed	Sole	-	2015 (Completed)
13204027	Jessy Riamaya Khonglah	Low Cost Webcam Based Eye Tracker	Completed	Sole	-	2015/ (Completed)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Autonomous Integration of Distributed Energy Sources and Home Appliances Coordination Scheme in Future Smart Grid Networks in	Elsevier, Procedia Computer Science, 4 <sup>th</sup> International Conference on Eco-friendly Computing and Communication Systems(ICECCS 2015)	70	538-549	2015	K Patel, Arun Khosla, J Khonglah
2	Home Energy Management Systems in future smart grid networks: A systematic review	1st International conference on Next generation computing technologies(NGCT) 2015	DOI:10.1109/NGCT.2015.7375165	479-483	2015	Kunal Patel, Arun Khosla
3	Low cost Webcam based eye tracer for communication through the eyes of young children with ASD	1st International Conference on Next Generation Computing Technologies(NGCT 2015), IEEEExplore digital library	DOI: 10.1109/NGCT.2015.7375255	925-928	2015	J Khongla, Arun Khosla
4	Classification of foggy images for vision enhancement	Signal Processing and Communication(ICSC), 2015 International Conference	DOI: 10.1109/ICSPCom.2015.7150653	233-237	16-18 March 2015	Anwar, Ml. Khosla, A
5	Spatial Domain Color Image Enhancement based on Local Processing	Proc. IEEE Conf. Signal Processing & Integrated Networks, SPIN			2016	G singh, Arun Khosla, and Md. Imtiyaz Anwar



**Faculty 3: Dr Mamta Khosla****PhD guidance: 06**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
15504005	Shashi Bala	VLSI Design (Broad Area)	Ongoing	Sole	-	Aug, 2015
13504007	Parulpreet	Optimized Localization in Dynamic WSNs	Ongoing	Joint	Dr Arun Khosla Dr Anil Rose	Jan, 2014
13804004	Anurag Sharma	Technological Interventions for Diagnosis and Learning in Children with Autism Spectrum Disorder	Ongoing	Joint	Dr Arun Khosla Dr Yogeswara Rao M	Jan, 2014
13504002	Amandeep Singh Rehal	Modeling of CNT FET and its Application for Design of SRAM	Ongoing	Joint	Dr Balwinder Raj	Aug, 2013
13504006	Sanjeev Kumar Sharma	Analysis of Nanowire FET and its Application as Low Power Sensor Design	Ongoing	Joint	Dr Balwinder Raj	Jan, 2013
13804002	Harmandar Kaur	Study of MIMO-OFDM Systems	Ongoing	Joint	Dr R K Sarin	Aug, 2013

**PG guidance: 06**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14204016	Sumit Kumar Saxena	Random Impulse Noise Removal from Color Videos using Fuzzy Mean Filters	Thesis writing in progress	Sole		2014 (Enrolment)
14204024	Akshay Verma	Grid and Fuzzy Based Stable Energy- efficient Clustering Algorithm for WSN	Thesis writing in progress	Sole		2014 (Enrolment)
14219005	Ankita	Implementation of DDC Algorithm in Array Group Receiver (AGR)	Thesis writing in progress	Sole		2014 (Enrolment)
13219009	Vagela Hardik	Design and Analysis of Tunnel FET for Low power CMOS circuit Applications	Completed	Joint	Dr Balwinder Raj	2015 (Completed)
13204001	Bibhudatta Mohapatra	Design and Simulation of DAB System using Symbol Timing Synchronizing Method	Completed	Sole		2015 (Completed)
13204007	Harender Singh	Optimized Localization in WSN	Completed	Sole		2015 (Completed)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Comparative Analysis of Carbon Nanotube Field Effect Transistors and Nanowire Transistors for Low Power Circuit Design	Journal of Nanoelectronics and Optoelectronics	11 (3)	388-393	2016	Amandeep Singh, Mamta Khosla and Balwinder Raj
2	Comparative Analysis of Carbon Nanotube Field Effect Transistors	IEEE Global Conference on Consumer Electronics (IEEE-GCCE 2015), Osaka, Japan	DOI: 10.1109/GCCE.2015.7398601	552 – 555	27- 30 Oct 2015	Amandeep Singh, Mamta Khosla, Balwinder Raj

3	Performance Enhancement of Junctionless Nanowire FET with Laterally Graded Channel Doping and High-k Spacers	IEEE Global Conference on Consumer Electronics (IEEE-GCCE 2015), Osaka, Japan	DOI:10.1109/GCCE.2015.7398608	556 – 559	27-30 Oct 2015	Sanjeev Kumar Sharma, Mamta Khosla, Balwinder Raj
4	A Gaussian approach for analytical subthreshold current model of cylindrical nanowire FET with quantum mechanical effects	Microelectronics Journal, Elsevier	53	65–72	2016	Sanjeev Kumar Sharma, Balwinder Raj, Mamta Khosla
5	Subthreshold Performance of In1-xGaxAs based Dual Metal with Gate Stack Cylindrical/Surrounding Gate Nanowire MOSFET for Low Power Analog Applications	Journal of Nanoelectronics and Optoelectronics <b>Accepted</b>			2016	Sanjeev Kumar Sharma, Balwinder Raj, Mamta Khosla
6	Comparative Analysis of MOSFET, CNTFET and NWFET for High Performance VLSI Circuit Design: A Review	Journal of VLSI Design Tools and Technology (JoVDTT) <b>Accepted</b>			2016	Sanjeev Kumar Sharma, Balwinder Raj, Mamta Khosla
7	<b>Book Chapter</b> Technological Tools and Interventions to Enhance Learning in Children with Autism. In Supporting the Education of Children with Autism Spectrum Disorders	IGI Global, Hershey, PA 17033-1240, USA <b>Accepted</b>			2016	Anurag Sharma, Arun Khosla, Mamta Khosla, Yogeswara Rao M.

**Faculty 4: Dr B S Saini****PhD guidance: 04**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
09404031	Amritpal Singh	Assessment of Cardiovascular Variability in Supine and Standing Postures	Thesis Submitted	Joint	Dr. Dilbag Singh	18 <sup>th</sup> Jan 2010 (enrolment)
10404031	Gaurav sethi	Analysis of Abdominal CT Images for Tissue Characterization	Thesis Submitted	Sole		25 <sup>th</sup> July 2010 (enrolment)
11404003	Kirti Rawal	Analysis of Heart Rate Variability in Menstrual Cycle of Women	Presubmission Report Submitted	Sole		4 <sup>th</sup> Aug 2011 (enrolment)
15504001	Atul Kumar Verma	Biomedical Signal/Image Processing	Ongoing	Joint	Dr Indu Saini	06 <sup>th</sup> Aug 2015 (enrolment)

**PG guidance: 07**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13204023	Dharmendra Gurve	An Improved Lossy and Lossless ECG Data Compression using ASCII Character Encoding	Completed	Sole		2015 (Completed)

13204026	Trunal Jambholkar	QRS Detection using EWT based Algorithm	Completed	Joint	Dr indu Saini	2015 (Completed)
13204011	Atul Kumar Verma	Image Denoising using Alexander Fractional Hybrid filter	Completed	Sole		2015 (Completed)
13204017	Katragadda Vamsi Krishna	Super Resplution Image Reconstruction by Adaptive Auto Regressive Model	Completed	Sole		2015 (Completed)
14204010	Leena B. R.	Combined Wavelet and Variable Block size Fractal Coding for ECG Data Compression	Thesis work is under progress	Sole		2014 (Enrolment)
14204020	Jaiverdhan	Hybrid SVD and ASWDR based Image Compression and Operative Convolution based Transmission	Thesis work is under progress	Sole		2014 (Enrolment)
14204026	Sawalkar Pooja Mahadev	A Secure data Hiding Algorithm via Secret Fragment visible Mosaic Images by Enhanced Reversible Contrast Mapping	Thesis work is under progress	Sole		2014 (Enrolment)

#### Research Publications (International journals)

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	An alternative approach to approximate entropy threshold value (r) selection: application to heart rate variability and systolic blood pressure variability under postural challenge	Medical & Biological Engineering & Technology, Springer	54(5)	723-732	DOI:10.1007/s11517-015-1362-z, 2015	Amritpal Singh, BS Saini, Dilbag Singh
2.	Multiscale Joint Symbolic Transfer Entropy for Quantification of Causal Interactions between Heart Rate and Blood Pressure Variability under Postural Stress	Fluctuation and Noise Letters	14 (3)	15500 31-1-15	2015	Amritpal Singh, BS Saini, and Dilbag Singh
3.	An Adaptive technique for Multiscale approximate Entropy (MAEbin) Threshold (r) Selection: Application to Heart Rate Variability (HRV) and Systolic Blood Pressure Variability (SBPV) under Postural Stress	Australasian Physical & Engineering Sciences in Medicine, Springer			March 2016 DOI 10.1007/s13246-016-0432-3	Amritpal Singh, BS Saini, and Dilbag Singh
4.	A new Baroreflex Sensitivity Index based on Improved Hilbert–Huang transform for Assessment of Baroreflex in supine and standing postures"	Biocybernetics and bio m edical engineering, Elsevier	36	355 – 365	2016	Amritpal Singh, BS Saini, and Dilbag Singh

5.	Segmentation of Cancerous Regions in Liver Using an edge based and phase congruent region enhancement method	Computer and Electrical Engg, Elsevier	46	78-96	2015	G. Sethi, B. S. Saini, and D. Singh
6.	Computer aided diagnosis using flexi-scale curvelet transform using improved genetic algorithm	Australasian Physical & Engineering Sciences in medicine, Springer	38(4)		2015 DOI: 10.1007/s13246-015-0389-7.	G. Sethi, and B. S. Saini
7.	Computer aided diagnosis of abdomen diseases from CT images	Biocybernetics and Biomedical Engg, Elsevier.	36(1)	42-55	2015. DOI: 10.1016/j.be.2015.10.008	G. Sethi, and B. S. Saini
8.	Segmentation of abdomen diseases using active contours in CT images	Biomedical Engineering: Application Basis and Communication, World Scientific	27	15500 47-15500 54	2015	G. Sethi, and B. S. Saini
9.	Computer Aided Abdomen Disease Diagnosis using Curvelet based Texture Analysis with Progressive Classification	International Journal of Biomedical engineering and Technology. Inderscience. <b>Accepted.</b>				G. Sethi, and B. S. Saini
10.	Adaptive correlation dimension method for analyzing Heart Rate Variability during Menstrual Cycle	Australasian Physical & Engineering Sciences in Medicine, Springer	38 (3)	509-523	2015	K Rawal, B S Saini and I Saini
11.	Detection and Analysis of Heart Rate Variability in Young and Postmenopausal women in Different Postures	Journal of Biomedical Photonics and Engineering	2 (2)	02030 1-1-02030 1-5	2016	K Rawal, B S Saini and I Saini
12.	Design of tree structure matched wavelet for HRV signals of Menstrual Cycle	Journal of Medical Engineering and Technology, Taylor and Francis			2016 <a href="http://dx.doi.org/10.3109/03091902.2016.1162213">http://dx.doi.org/10.3109/03091902.2016.1162213</a>	K Rawal, B S Saini and I Saini
13.	An Improved Lossy And Lossless Combined ECG Data Compression Using ASCII Character Encoding	International Journal of Medical Engineering and Informatics, Inderscience	December 2015, Article in Press			Dharmendra Gurve, Barjinder Singh Saini, Indu Saini

**Faculty 5: Dr R K Sunkaria****PhD guidance: 06**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12404003	Puneeta	Physiological variability analysis and quantification using non-linear techniques	Comprehensive Exam Completed	Sole	-	27 <sup>th</sup> July 2012
13504004	Aman kumar	Optimal Design of cosine modulated uniform and non-uniform filter banks	Comprehensive Exam Completed	Sole	-	06 <sup>th</sup> Aug 2013

14504002	Lakhan dev Sharma	Computer aided system design for cardiac health prognosis and disease classification	Comprehensive Exam Completed	Sole	-	04 <sup>th</sup> Aug 2014
13804006	Omkar Singh	Medical Signal Analysis	Comprehensive Exam Completed	Sole	-	Jan 2014
12404031	Ram Sevak Singh	Spectral and chaos investigation of heart rate variability time series	Comprehensive Exam Completed	Joint	Dr. BS Saini	30 <sup>th</sup> July 2014
15504006	Simarjot Kaur Randhawa	Biomedical image	In progress	Sole	-	21 <sup>st</sup> Jan 2016

**PG guidance:10**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13204012	Prateek Bansal	Impulse Noise Removal Using Median Filter	Completed	Sole	-	2015 (Completed)
13204018	Shafi M N	An Efficient Wavelet Based ECG Denoising Using Level Dependent Thresholding	Completed	Sole	-	2015 (Completed)
13204022	Himanshu Yadav	Color Based Segmentation of Colored Ultrasound Images Using K-Means Clustering Algorithm	Completed	Sole	-	2015 (Completed)
13204028	Udaya Pratap	ECG Compression Using Compressed Sensing Technique	Completed	Sole	-	2015 (Completed)
14204015	V. Chaitanya Reddy	Image processing	Thesis writing in progress	Sole	-	2014 (Enrolment)
14204012	Drub Jyoti Nath	Image processing	Thesis writing in progress	Sole	-	2014 (Enrolment)
14204027	Rakesh Asery	Image processing	Thesis writing in progress	Sole	-	2014 (Enrolment)
15204004	Antarpreet Kaur Bedi	Image processing	In progress	Sole	-	2015 (Enrolment)
15204010	Sushmita Yadav	Image processing	In progress	Sole	-	2015 (Enrolment)
15204013	Gurjinder Singh	Image processing	In progress	Sole	-	2015 (Enrolment)

**Research Publications (International journals: Published/Accepted)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Exploring total cardiac variability in health pathophysiological subject using improved refined multi-scale entropy	Journal of medical biological engineering and computing			Feb. 2016(In Press)	Puneeta Marwaha and Ramesh Kumar Sunkaria
2	Improved sample entropy for measuring complexity of cardiac time series signals	Journal of Australasian physical and engineering sciences in medicine			Feb 2016 (In Press)	Puneeta Marwaha and Ramesh Kumar Sunkaria

3	Empirical wavelet transform based delineator for arterial blood pressure waveforms	Journal of bio-algorithms and med-system			April 2016 (In Press)	Omkar Singh and Ramesh Kumar Sunkaria
4	A robust QRS detection using novel pre-processing techniques and kurtosis based enhanced efficiency	Measurement, Elsevier	8 (3)	194-204	2016	Lakhan Dev Sharma, Ramesh Kumar Sunkaria
5	Optimal Selection of Threshold Value 'r' for Refined Multiscale Entropy	Journal of Cardiovascular Engineering and Technology	6 (3)	557-576	Sept 2015	Puneeta Marwaha and Ramesh Kumar Sunkaria
6	Designing of Computer Aided Diagnostic System for the Identification of Exudates in Retinal Fundus Images	Journal of Biomedical Engineering and Medical Imaging	2 (3)	29-40	June 2015	Santosh Kumar Mishra, Deepti Mittal and Ramesh Kumar Sunkaria

#### Research Publications (International Conferences: Published/Accepted)

S.No	Title of paper	Conference Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Impulse Noise Removal Using Modified Decision Based Unsymmetric Trimmed Median Filter with Histogram Estimation	Proceedings of IEEE International Conference on Advance Computing Conference, held at B.M.S College of Engineering, Bangalore, India.	DOI: 10.1109/IADC C.2015.7154752	468-471	12-13 June 2015	Prateek Bansal, Himanshu Yadav and Ramesh Kumar Sunkaria
2	Color Dependent K-Means Clustering for Color Image Segmentation of Colored Medical Images	Proceedings of IEEE International Conference First International Conference on 'Next Generation Computing Technologies' (NGCT-2015). Dehradun -INDIA,	DOI: 10.1109/NGC T.2015.7375241	858-862	4-5 Sept, 2015.	Himanshu Yadav, Prateek Bansal and Ramesh Kumar Sunkaria
3	ECG Compression via Compressed Sensing Using Lempel-Ziv-Welch Technique	proceedings of IEEE International Conference on First International Conference on 'Next Generation Computing Technologies' (NGCT-2015) Dehradun-INDIA	DOI: 10.1109/NGC T.2015.7375242	863-867	4-5th Sept, 2015	Udaya Pratap and Ramesh Kumar Sunkaria
4	Comparative study of fetal ECG elicitation using Adaptive Filtering Techniques	Advances in Electrical, Electronics, Information, Communication and Bio-Informatics, IEEE				Lakhan Dev Sharma, Rakesh Asery, Ramesh Kumar Sunkaria, Deepti Mittal
5	Fog detection using GLCM based features and SVM	2nd Conference on Advances in Signal Processing IEEE				Rakesh Asery, Ramesh Kumar Sunkaria, Lakhan Dev Sharma, Aman Kumar

#### Faculty 6: Dr Indu Saini

##### PhD guidance: 03

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15504001	Atul Kumar Verma	Biomedical Signal/Image Processing	Ongoing	Joint	Dr B S Saini	06 <sup>th</sup> Aug, 2015
14504001	Shaweta Luthra	Analysis of Biomedical Signals during Stress	Ongoing	Sole	-	08 <sup>th</sup> Aug, 2014
14804003	Nitika Soni	Steganography and Compression Techniques for ECG Signal	Ongoing	Joint	Dr Butta Singh	08 <sup>th</sup> Aug, 2014

**PG guidance: 04**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13204013	Prakash Babu Sharma	Coherence analysis between Heart Rate Variability and Respiration using Empirical Wavelet Transform	Completed	Sole	-	11 <sup>th</sup> Aug 2015 (Completed)
13204015	Anmol Agarwal	Analysis of HRV and EEG with Audio Visual Stimuli using Nonlinear Techniques	Completed	Sole	-	11 <sup>th</sup> Aug, 2015 (Completed)
13204019	Tapish Verma	Aging effect on EEG using Music Stimulation: A Nonlinear study	Completed	Sole	-	11 <sup>th</sup> Aug, 2015 (Completed)
13204026	Trunal Jambholkar	QRS Detection using Empirical Wavelet Transform base Algorithm	Completed	Joint	Dr B S Saini	28 <sup>th</sup> July, 2015 (Completed)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Adaptive correlation dimension method for analyzing Heart Rate Variability during Menstrual Cycle	Australasian Physical & Engineering Sciences in Medicine, Springer	38 (3)	509-523	2015	K Rawal, B S Saini and I Saini
2	An Improved Lossy And Lossless Combined ECG Data Compression Using ASCII Character Encoding	International Journal of Medical Engineering and Informatics, Inderscience	Article in Press		2015	Dharmendra Gurve, Barjinder Singh Saini, Indu Saini
3	Detection and Analysis of Heart Rate Variability in Young and Postmenopausal women in Different Postures	Journal of Biomedical Photonics and Engineering	2 (2)	02030 1-1-02030 1-5	2016	K Rawal, B S Saini and I Saini
4	Design of tree structure matched wavelet for HRV signals of Menstrual Cycle	Journal of Medical Engineering and Technology, Taylor and Francis	<a href="http://dx.doi.org/10.3109/03091902.2016.1162213">http://dx.doi.org/10.3109/03091902.2016.1162213</a>		2016	K Rawal, B S Saini and I Saini
5	Design of matched wavelet using improved Genetic algorithm for HRV analysis of the menstrual cycle and postmenopausal women	Journal of Biomedical Research, Elsevier <b>First Revision submitted</b>			2016	K Rawal, B S Saini and I Saini
6	<b>Book Chapter</b> Analysis of HRV during the Menstrual Cycle and Postmenopause	Computational Tools and Techniques for Biomedical Signal Processing in IGI Global ( <b>Book Chapter Accepted</b> )			2015	K Rawal, B S Saini and I Saini

**Faculty 7: Dr Deepti Kakkar****PG guidance: 04**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14204004	Ekta Dogra	Modified Binary Firefly Algorithm (MBFA) for optimal allocation of spectrum in cognitive radio systems	Ongoing	Sole		2014 (Enrolment)
14204005	Aradhana Turkey	Relay node selection based reduced energy consumption in Heterogeneous Wireless Sensor Network	Ongoing	Sole		2014 (Enrolment)
14204008	Rathod Virendar	Human machine interface based robotic wheelchair controlled using P300 wave and SVM	Ongoing	Joint	Dr. Ashish Raman	2014 (Enrolment)
14204009	Midhun M.V	Speech disorder connectivity with brain wave/ EEG for autism spectrum disorder	Ongoing	Sole		2014 (Enrolment)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Spectrum Sensing over Rayleigh Fading in Multihop Cooperative Networks	Journal of Multimedia Technology & Recent Advancements	3(1)	1-8	2016	Deepti Kakkar, Arun Khosla, Moin Uddin

**Faculty 8: Dr Ashish Raman****PhD guidance: 01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
15504007	Sarabdeep Singh	VLSI Design (Broad Area)	Ongoing	Sole		Jan 2016 (Enrolment)

**PG guidance: 08**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13219004	Deep Shekhar	Designing of Low Power Charge Pump Circuit with Minimum Current Mismatch for High Speed PLL Applications	Completed	Solo		July 2013 (Enrolment)
13219003	Jitendra Krihna Arya	Design of Novel CMOS 5T-SRAM Cell for Low Power Consumption and Small Area Application in 65nm Technology	Completed	Solo		July 2013 (Enrolment)
13204014	Jittu Ramesh	Optimization of Sensing Parameters using PSO, GA Algorithms for Cognitive Radio	Completed	Solo		July 2013 (Enrolment)
14204003	Tanya Singh Chauhan	Denoised Wavelet Packet entropy based Spectrum sensing in Cognitive Radios	Ongoing	Sole		2014 (Enrolment)



14219002	Suchitra Kumari	High speed, low power memristor based 1 bit memory cell	Ongoing	Sole		2014 (Enrolment)
14214004	Gagan Kumar	Pressure sensor based on TFET	Ongoing	Sole		2014 (Enrolment)
14204007	Amit Kumar Vijay	Genetic algorithm based optimization in Cognitive Radio	Ongoing	Joint	Dr Indu Saini	2014 (Enrolment)
14204008	Rathod Virendar	Human machine interface based robotic wheelchair controlled using P300 wave and SVM		joint	Dr. Deepti Kakkar	July 2014 (Enrolment)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Design and analysis of RF-low power and low-phase noise CMOS ring oscillator for fully integrated RF communication systems technologies	Int. J. Information and Communication Technology	8 (1)	79-94	2016	Ashish Raman and R K Sarin
2	A 180 nm Transmission Gate Based Micro-Power Ring Oscillator for Wireless Telemetry Applications	Wulfenia Journal	22(12)		2015	Ashish Raman and R K Sarin
3	A Review on Charge Pump Circuits for PLL Applications	<i>Journal of VLSI Design Tools and Technology</i>	5(3)	1-11p	2015	D. Shekhar, A. Raman
4	Optimization of Sensing Parameters Using PSO, GA Algorithms for Cognitive Radio	Recent Trends in Sensor Research & Technology Journal	2 (3)	23-30	2015	Juttu Ramesh, Ashish Raman

**Faculty 9: Dr Neetu Sood****PhD guidance: 03**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12403001	Amandeep Kaur Sohal	Design & Development of an optimized energy efficient Algorithm for Wireless Sensor Networks	Ongoing	Joint	Dr. Ajay Kr. Sharma	July, 2012
13504003	Sandeep Verma	Lifetime optimization for a heterogeneous wireless sensor network with multiple data sinks	Ongoing	Joint	Dr. Ajay Kr. Sharma	Aug, 2013
13504005	Anukul Pandey	Electrocardiogram Compression, Encryption and its OFDM based Wireless Transmission & Reception	Ongoing	Joint	Dr. B S Saini, Dr. Butta Singh	Aug, 2013

**PG guidance: 03**

Roll .No	Name of Candidate	Title	Status	Sole or Joint	Name of Joint supervisor	Date of enrolment/ Completed
13204021	Arun Kumar	Sparse channel estimation for ofdm based System using RZA-NLMF adaptive sparse Sensing algorithm	Completed	Sole		June 2015 (Completed)
13204005	Deepak Palsania	PAPR reduction of SC-FDMA system using nonlinear companding transform	Completed	Sole		June 2015 (Completed)
13204025	Naveen Kumar	Compressed spectrum sensing and sparse channel estimation in ofdm based cognitive radio	Completed	Sole		June 2015 (Completed)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Compressed channel estimation for wideband cognitive radio	International Journal of Basic and applied Engineering and Research	2	830-834	2015	Naveen Kumar, Neetu Sood
2	Application of compressed sampling for spectrum sensing and channel estimation in cognitive radio	International journal of mobile communication, Inder science.	Communicated (Under Review)			Naveen Kumar, Neetu Sood

**Research Publications (International conferences) (PG)**

S. No	Title of paper	Conference Name	DOI	Page No	Publication year	Authors as on the article
1	Fast and efficient compressive spectrum sensing for wideband cognitive radio network	IEEE 2nd International Conference on Recent Trends in Information Systems (ReTIS-15)	10.1109/ReTIS.2015.7232858	87-91	9-11th July, 2015	Naveen Kumar, Neetu Sood
2	A fuzzy neural network based reasoning and learning approach for efficient spectrum management in cognitive radio	IEEE International Conference on Signal Processing, Computing and Control (ISPC-15)	10.1109/ISPC.2015.7375057	365-370	24-26th September, 2015	Naveen Kumar, Neetu Sood
3	Time Domain Sparse Channel Estimation for OFDM system using Adaptive Sparse Sensing Based Reweighted Zero Attracting Normalize Least Mean Forth algorithm	International Conference on Telecommunication Technology and Management (ICTTM)	ISBN: 9780992680053	-NA-	11 <sup>th</sup> - 12 <sup>th</sup> April 2015	Arun Kumar, Neetu Sood
4	PAPR Reduction of SC-FDMA System Using NCT Technique	International Conference on Telecommunication Technology and Management (ICTTM)	ISBN: 9780992680053	-NA-	11 <sup>th</sup> - 12 <sup>th</sup> April 2015	Deepak Palsania, Neetu Sood
5	Application of Compressed Sensing in Cognitive Radio	<u>4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA)</u>	10.1007/978-81-322-2695-6_10	107-117	25 October, 2015	Naveen Kumar, Neetu Sood

**Faculty 10: Dr. Balwinder Raj****PhD guidance: 05**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
15504004	Jeetendra Singh	Design and Performance Analysis Memristor for Circuits Applications	In progress	Sole		July 2015
13504002	Amandeep Singh Rehal	Modeling of CNT FET and its Application for design of SRAM	Ongoing	Joint	Dr Mamta Khosla	Aug, 2013
13504006	Sanjeev Kumar Sharma	Analysis of Nanowire FET and its application as low power sensor design	Ongoing	Joint	Dr Mamta Khosla	Jan, 2013
12404004	Sunil Kumar	Design and Analysis of Tunnel FET Device for Low Power SRAM cell	In progress	Sole		July 2012
13804003	Neeraj Jain	Nano Scale FINFET Modeling and Simulation for Analog Circuit Design	In Progress	Sole		July 2013

**PG guidance: 08**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14219008	Gonugunta Saiphani kumar	Performance analysis of CNTFET based SRAM cell designs	Thesis writing in progress	Sole		2014 (Enrolment)
14204002	Aakash Jain	Gate-All-Around Cylindrical Nanowire MOSFET As A Photo Sensing Applications	Thesis writing In progress	Sole		2014 (Enrolment)
14219007	Sudhir Kumar Singh	Performance Analysis of AlGaIn/GaN HEMT and enhancement of current with change in parameters	In progress	Sole		2014 (Enrolment)
14204017	Vikas sharma	Patch Antenna Technique for the Determination of Moisture Content in Soil	Thesis writing In progress	Joint	Dr. R. K. Sarin	2014 (Enrolment)
13204004	Mr. Purnendu Misra	Text -Line Extraction of Language Independent Handwritten Documents in 'Offline' Mode	Completed	Sole		July 2015 (Completed)
13219002	Mr. Mohit Kumar Saini	Temperature Dependent modelling of Memristor and Logic Circuit Implementation	Completed	Sole		July 2015 (Completed)
13219001	Mr. Shashank Dubey	Analytical Modeling of ALGAAS/ GAAS HEMT for SRAM Cell Design	Completed	Sole		July 2015 (Completed)
13219009	Mr. Vaghela Hardik Tejabhai	Design and analysis of Tunnel FET for future CMOS circuit application	Completed	Joint	Dr. Mamta Khosla	July 2015 (Completed)

**Research Publications (International journals)**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Compact channel potential analytical Modeling of DG-TFET based on Evanescent-mode Approach	Journal of Computational Electronics, Springer	14 (2)	820-827	July 2015	Sunil Kumar and Balwinder Raj
2	Temperature Dependent Modeling and Performance Evaluation of Multi-Walled CNT and Single-Walled CNT as Global Interconnects	Journal of Electronic Materials, Springer	44 (12)	4825-4835	Dec 2015	Karmjit Singh, Balwinder Raj
3	Performance and analysis of temperature dependent Multi-walled Carbon Nanotubes as Global Interconnects at different technology nodes	Journal of Computational Electronics, Springer	14 (2)	469-476	June 2015	Karmjit Singh, Balwinder Raj
4	Influence of Temperature on MWCNT bundle, SWCNT bundle and Copper interconnects for Nanoscaled Technology nodes	Journal of Materials Science: Materials in Electronics. Springer	26 (8)	6134-6142	2015	Karmjit Singh, Balwinder Raj

5	Impact of HfO <sub>2</sub> in Graded Channel Dual Insulator Double Gate MOSFET	Journal of Computational and Theoretical Nanoscience, American Scientific Publishers	12 (6)	950-953	April 2015	Sumit Singh; Yadav, Shekhar; Rahul, Jagdeep; Srivastava, Anurag; Balwinder Raj
6	Process Variability Aware Low Leakage Reliable Nano Scale DG-FinFET SRAM Cell Design Technique,	Journal of Nanoelectronics and Optoelectronics,	10 (6)	810-817,	December 2015	Khandelwal, S., Gupta, V., Balwinder Raj, and Gupta, R D.,
7	FinFET based 6T SRAM Cell Design: Analysis of Performance Metric, Process Variation and Temperature Effect.	Journal of Computational and Theoretical Nanoscience, ASP, USA,	12	2500-2506,	Dec 2015	Khandelwal, S., Balwinder Raj, and Gupta, R D.,
8	Design and Simulation of Low Power Stacked SRAM Cell	International Conference on Electrical and Electronics Engineering held at Pattaya, Thailand from			11-12 July 2015	Balwinder Raj
9	Modeling of DG-Tunnel FET for Low Power VLSI Circuit Design	Eighth International Conference on Contemporary Computing (IC3), IC3-2015 - Systems (Hardware & Software), IEEE Computer Society, JIIT, Noida, India,			20-22 Aug 2015	Sunil Kumar and Balwinder Raj
10	Thermally Aware Modeling and Performance for MWCNT Bundle as VLSI Interconnects for High Performance Integrated Circuits	IEEE Global Conference on Consumer Electronics (IEEE-GCCE 2015), Osaka, Japan			27 <sup>th</sup> to 30 <sup>th</sup> Oct 2015	Karmjit Singh, Balwinder Raj
11	Comparative Analysis of Carbon Nanotube Field Effect Transistors	IEEE Global Conference on Consumer Electronics (IEEE-GCCE 2015), Osaka, Japan			27 <sup>th</sup> to 30 <sup>th</sup> Oct 2015	Amandeep Singh, Mamta Khosla, Balwinder Raj
12	Performance Enhancement of Junctionless Nanowire FET with Laterally Graded Channel Doping and High-k Spacers	IEEE Global Conference on Consumer Electronics (IEEE-GCCE 2015), Osaka, Japan			27 <sup>th</sup> to 30 <sup>th</sup> Oct 2015	Sanjeev Kumar Sharma, Mamta Khosla, Balwinder Raj

## 2. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty

Name of Faculty	Title of course	Name of organizer	Dates	Funded by
Dr Mamta Khosla	STC on Recent Trends in Software Engineering and Knowledge Mining	Dept. of Computer Science & Engineering, NITJ	June 1-5, 2015	TEQIP II
Dr B S Saini	Comprehensive Electrocardiography	IIT Roorkee, under MHRD Scheme on GIAN	01 week, Feb 23-27, 2016	TEQIP-II
Dr B S Saini	Recent Trends in Applied Mathematics	Society for Promotion of Mathematics, Department of Mathematics, Dr B R Ambedkar National Institute of Technology, Jalandhar	01 week, Nov 30 – Dec 04, 2015	TEQIP-II

Dr B S Saini	Current Opportunities and New Directions in Chemical Sciences and Technology	Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar	01 week, Dec 07-13, 2015	TEQIP-II
Dr R K Sunkaria	Workshop on Cloud Computing and Big Data Analytics	NIT Jalandhar	May 19-19, 2015	NIT Jalandhar
Dr R K Sunkaria	Recent Trends in Software Engineering and Knowledge Mining (RTSEKM-2015)	NIT Jalandhar	June 1-5, 2015	NIT Jalandhar
Dr Indu Saini	STC on Recent Trends in Software Engineering and Knowledge Mining	Dept. of Computer Science & Engineering, NITJ	June 1-5, 2015	TEQIP II
Dr Balwinder Raj	IEEE 4 <sup>th</sup> Global Conference on Consumer Electronics (GCCE-2015)	Osaka International Convention Center, Japan	Oct 27-30, 2015	DST, Govt. of India
Dr Balwinder Raj	International Conference on Contemporary Computing (IC3-2015)	Jointly organized by Jaypee Institute of Information Technology and University of Florida held at IIIT Noida	Aug 20- 22, 2015	TEQIP-II, NIT Jalandhar
Dr Balwinder Raj	International Conference on Electrical and Electronics Engineering,	Innovative Research Group, Pattaya, Thailand	July 11-12, 2015.	CPDA, NIT Jalandhar
Dr Balwinder Raj	A workshop on Quality Initiatives in Technical & Higher Educational Institutes (In Compliance with NBA & NAAC Accreditation)	Engineering Staff College of India, Hyderabad	Oct 7 – 9, 2015	NIT Jalandhar

### 3. Short Term Courses/Workshops/Seminars organized:

Title of course	Name of organizer	Dates	Funded by
One-Week Self Financed Short Term Course on "Electronics and Communication Systems Design Aspects"	Dept. of Electronics & Communication Engineering	May 25 - 29, 2015	Self Financed
Member, Technical Programme Committee, 09 <sup>th</sup> IEEE International Conference (INDIACOM-2015) on Computing for Sustainable Global Development,	Bharati Vidyapeeth, New Delhi	March 11-13, 2015	Bharati Vidyapeeth, New Delhi.
organized Expert talk by Professor Vinod Kumar, Deputy Director, IIT Roorkee	Dr Ramesh Kumar Sunkaria, Dr R K Sarin , Dr B S Saini	June 17, 2015	NIT Jalandhar
Need for IPRs for Engineers and Researchers and new career opportunities in IPR	Dr B S Saini Dr Indu Saini	June 2, 2015	TEQIP-II
Special Session on "Microelectronics and VLSI Design" in IEEE 4 <sup>th</sup> Global Conference on Consumer Electronics (GCCE-2015)	Dr Balwinder Raj chaired special session in Conference held at Osaka International Convention Center, Japan	October 27-30, 2015	IEEE Consumer Electronics Society

### 4. Expert talks delivered:

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
MEMS and Applications	Dr R K Sarin	E & I Dept. Kashmir University	Oct 30, 2016	Invited talk
Accelerating Evolutionary designs with GPU Computing	Dr Arun Khosla	Global Institute of Management & Emerging Technologies, Amritsar.	July 8, 2015	FDP "Emerging Trends in Artificial Intelligence"
Improving Research Ecosystem at NITJ	Dr Arun Khosla	One-Week Self Financed Short Term Course on "Electronics and Communication Systems Design Aspects", Dept. of ECE, NITJ	May 25, 2015	Short Term Course on "Electronics and Communication Systems Design Aspects" from 25-27 May, 2015

Evolutionary Design of Type 2 Fuzzy System	Dr Mamta Khosla	Global Institute of Management & Emerging Technologies, Amritsar.	July 8, 2015	FDP "Emerging Trends in Artificial Intelligence"
Type-2 Fuzzy Logic Systems – Some Insights	Dr Mamta Khosla	One-Week Self Financed Short Term Course on "Electronics and Communication Systems Design Aspects", Dept. of ECE, NITJ	May 26, 2015	Short Term Course on "Electronics and Communication Systems Design Aspects" from 25-27 May, 2015
Basic DSP Operations and Its Application	Dr Ramesh Kumar Sunkaria	Department of Electronics and Communication Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	May 27, 2015	STC
Signals and Systems	Dr Ramesh Kumar Sunkaria	Rayat-Bahra Institute of Engineering and Technology, Hoshiarpur	March 04, 2015	Seminar
Classification of ECG signal using SVM	Dr Indu Saini	One-Week Self Financed Short Term Course on "Electronics and Communication Systems Design Aspects", Dept. of ECE, NITJ	May 27, 2015	Short Term Course on "Electronics and Communication Systems Design Aspects" from 25-27 May, 2015
Introduction to OFDM Systems	Dr Neetu Sood	One-Week Self Financed Short Term Course on "Electronics and Communication Systems Design Aspects", Dept. of ECE, NITJ	May 25, 2015	Short Term Course on "Electronics and Communication Systems Design Aspects" from 25-27 May, 2015
FinFET Device and Its Application for Memory Design	Dr. Balwinder Raj	STC on "Recent Trends on VLSI Design and Communication Systems" held at ECE Dept., SLIET Longowal, Punjab,	June 05, 2015	Short Term Course (STC) from 01 <sup>st</sup> to 05 <sup>th</sup> June 2015.
Novel Semiconductor Devices and Its Applications	Dr. Balwinder Raj	FDP on "Emerging Trends in Engineering Technology at Panjab University SSG Regional Centre, Hoshiarpur	July 8, 2015	Faculty Development Program on "Emerging Trends in Engineering Technology (ETET-2015)" 6 <sup>th</sup> to 10 <sup>th</sup> July 2015.
Nano-Electronics and Its Tools Cum Research Directions on dated	Dr. Balwinder Raj	FDP on "Emerging Trends in management & IT Education" being organized by KCL Institute of Management & Technology Jalandhar,	Dec. 17, 2015	Faculty Development Programme (FDP) (14-20 Dec 2015)
Semiconductor Device Modeling	Dr. Balwinder Raj	STC on "Electronics and Communication System Design Aspects" held at ECE Dept., NIT Jalandhar, Punjab	May 29, 2015	Self Financed Short Term Course (STC) on 25 to 29 May 2015.

#### 5. Membership to professional bodies

Name of faculty	Type of membership	Organization	Membership number
Dr R K Sarin	FIETE MIEEE	IETE IEEE	
Dr Arun Khosla	Life Member	CSI	
Dr Arun Khosla	Life Member	ISTE	18324
Dr Arun Khosla	Fellow	IETE	
Dr. B S Saini	Annual	IEEE, IEEE-EMBS	92675959
Dr. B S Saini	Life Member	IETE	M230080
Dr. Ramesh Kumar Sunkaria	Life Member	ISTE	
Dr. Ramesh Kumar Sunkaria	Member	IEEE	91215738
Dr. Ramesh Kumar Sunkaria	Member	IEEE Engineering in Medicine and Biology Society	1-1728678160
Dr. Ramesh Kumar Sunkaria	Member	IEEE Signal Processing Society	1-1728678160
Dr. Ramesh Kumar Sunkaria	Member	IEEE Computer Society	1-1728678160
Dr. Ramesh Kumar Sunkaria	Member	IEEE Information Theory Society	1-1728678160
Dr. Balwinder Raj	Annual Member	IEEE& Electron Devices Society (EDS), USA	90274244
Dr. Balwinder Raj	Life Member	Indian Society for Technical Education (ISTE), IIT(Delhi)	LM-93041

Dr. Balwinder Raj	Life member	Institution of Electronics and Telecommunication Engineers ( <b>IETE</b> ), New Delhi, India	M-231963
Dr. Balwinder Raj	Life member	Punjab Academy of Sciences, Patiala, India	L-1234

#### 6. Projects Completed/On Going/sponsored projects

S.No	Title	Year	Agency	Coordinator /Dept.	Project cost (Rs)
1	C2SD SMDP	2014	MCIT, Govt. of India	Dr R K Sarin Dr Ashish Raman	1.3 crore
2	Characterization of Semiconductor Devices	2013-2018	DST FIST	Dr. Arun Khosla Dr. Balwinder Raj Dr. Mamta Khosla	1.65 Crore
3	Smart Human Tracking System	2015	TEQIP-II	Dr R K Sunkaria	25,000
4	Tranquil Space System	2015-16	TEQIP-II	Dr R K Sunkaria	47300
5	Image Based Distinct Multiple Objects Count Using Cell Based High Order Local Autocorrelation in FPGA	2015-16	TEQIP-II	Dr R K Sunkaria	47200
6	Modified Solar Power based Vehicle for Physically Challenged Person	2015	TEQIP-II	Dr Indu Saini Dr Neetu Sood	19000
7	Post Accident Remedy System	2015-16	TEQIP-II	Dr Mamta Khosla Dr Balwinder Raj	8150
8	Generation of Electricity from Biogas with Gas Leakage Detection	2015	TEQIP-II	Dr Indu Saini	15000
9	Air Surveillance Drone	2015-16	TEQIP-II	Dr Anand Joseph Vaz Dr Indu Saini	50000

#### 7. Upgraded Qualifications

Name of faculty	date of joining	Highest qualification of the faculty	year of attaining the qualification	Present Designation
Dr Ashish Raman	07 September 2007	Ph.D.	Nov 2015	Assistant Professor
Dr Deepti Kakkar	21 August,2007	Ph.D.	Jan 2016	Assistant Professor

#### 8. Any other significant achievement:

- Dept. of ECE submitted 03 Project Proposals to IMPRINT, Govt. of Indi:
  - Cloud Based Intelligent Health Monitoring System (Proposal no. 6754)"
  - Low Cost Efficient Solar System for Agriculture Applications
  - NITJ Technology Center for Autism
- Dr Balwinder Raj won the **Best Paper Award** for research paper titled "Design and Simulation of Low Power Stacked SRAM Cell" in International Conference on Electrical and Electronics Engineering, held in Pattaya, Thailand on 11-12 July 2015.
- Dr Balwinder Raj received International Travel Grant for **Young Scientists** of Department of Science and Technology (DST), Government of India, to present research paper in IEEE GCCE conference in Osaka, Japan, 27-30 Oct. 2015.

**DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING  
DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	10	No. of PhD completed	02
No. of Journal publications(National)	20	No. of new PhD students enrolled	06
No. of International Conferences attended	01	No. of New PG students completed	20
No. of National Conferences attended		No. of New PG students enrolled	20
No. of STC/ Workshop/ courses attended	08	No. of faculty members enrolled for higher qualifications	--
No. of STC/ Workshops conducted	01	No. off faculty members upgraded qualifications	02
No of conferences conducted	--	Any other important information	--
No of expert talks delivered by faculty	02		
No. of expert talks organized	04		

**FACULTY**

Sr. No.	Name	Position	Qualifications
3.	Dr A K Jain	Professor	PhD
4.	Er Narinder Singh	Associate Professor	MTech
5.	Dr Dilbag Singh	Associate Professor	PhD
6.	Dr S K Pahuja	Associate Professor	PhD
7.	Er Roop Pahuja	Associate Professor	MTech (PhD thesis submitted)
8.	Dr Sheela Tiwari	Associate Professor	PhD
9.	Dr Rajesh Kumar Singla	Associate Professor	PhD
10.	Dr Kuldeep Singh Nagla	Associate Professor	PhD

**ACADEMIC PROGRAMMES****Undergraduate Programmes**

- B. Tech. in **Instrumentation and Control Engineering**

**Postgraduate Programmes**

- M. Tech. in **Control and Instrumentation Engineering**
- M. Tech. Part Time in **Control and Instrumentation Engineering**
- Full and part Time Ph D Programme in **Instrumentation and Control Engineering**

**LIST OF LABORATORIES**

- Analytical Instrumentation Laboratory
- Biomedical Instrumentation Laboratory
- Computing Laboratory
- Control Engineering Laboratory
- Electrical Machines Laboratory
- Fabrication Unit and Transducers Laboratory
- Human Machine Interface Laboratory
- Measurement and Circuit Laboratory
- Microprocessor based Instrumentation Laboratory
- Process Control Instrumentation Laboratory
- Robotics Laboratory
- Signal Processing Laboratory
- Virtual Instrumentation Laboratory
- Wireless Networks Laboratory



**RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****Faculty1: Dr A K Jain****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment / Completed
09406001	Mahendra Kumar	Performance Tradeoff in Quality of Service for IEEE802.11 Wireless LANs	Completed	Sole	--	Completed
11406001	Ajay Roy	QoS Enhancement in Wimax Networks	Open House Pre-submission Seminar on 12.08.2016	Sole	--	
12406001	Shashank Tripathi	Investigation into QoS for Integrated UMTS and WLAN Networks	Comprehensive held	Sole	--	
14506002	Amanjot Singh Toor	Development of Cluster based Routing Protocol in Wireless Sensor Networks	Comprehensive held on	Sole	--	

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214016	Sunil Kumar Gupta	Performance Evaluation of Quality of Service of IEEE 802.11 Based Mobile Ad-hoc Networks Using FTP Application	<b>Completed</b>	Sole	-	June, 2015
14214016	Tarun Pathak	-	<b>In progress</b>	Sole	-	July, 2014
14214017	Nitesh Gupta	-	<b>In progress</b>	Sole	-	July, 2014
14214019	Vikrant Sharma	-	<b>In progress</b>	Sole	-	July, 2014
15214002	Ditendra Kumar	-	<b>In progress</b>	Sole	-	July, 2015
15214020	Lalit Kumar Gupta	-	<b>In progress</b>	Sole	-	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Comparative Performance Analysis of WiMAX Networks with CBR traffic on various Routing Protocols	IJCNT journal	3 (1)		2015	Ajay Roy, <b>A.K. Jain</b>
2.	Performance Analysis of Mobility in the Integrated UMTS and WLAN Network for Interactive Service	International Journal of Computing and Network Technology,	4(2)	59-65	2016	Shashank Tripathi, A K Jain
3.	Mobility Performance Analysis in the Integrated UMTS and WLAN Network for Background Service	International Journal of Research in Management, Science and Technology	4 (1)	01-07	2016	Shashank Tripathi, A K Jain

**Research Publications (National journals)**

<b>S. No.</b>	<b>Title of paper</b>	<b>Journal Name</b>	<b>Vol. No.</b>	<b>Page No</b>	<b>Publication year</b>	<b>Authors as on the article</b>
1.	Comparative Performance Analysis of Inter-Domain Routing in Integrated UMTS and WLAN Ad Hoc Networks with CBR Conversational Traffic Class on Various Routing Protocols	Current Trends in Information Technology	5 (3)	21-34	2015	AKJ, S Tripathi,
2.	Performance of Inter-Domain Routing Protocols for Interactive Services under QoS Guarantee in A UMTS-HSDPA and WLAN Ad Hoc Networks	Journal of Instrumentation Technology & Innovations	5 (3)	1-17	2015	AKJ, S Tripathi
3.	Background Service QoS in Integrated UMTS-HSDPA and WLAN Ad Hoc Networks with Various InterDomain Routing Protocols",	Journal of Computer Technology & Applications	6 (3)	31-59	2015	AKJ, S Tripathi
4.	Comparative Performance Analysis of Inter-Domain Routing Protocols in Integrated HSDPA and WLAN Ad Hoc Networks with Streaming Traffic	Journal of Communication Engineering & Systems	5 (3)	7-18	2015	AK Jain, S Tripathi
5.	A Review on Wireless Sensor Network	Journal of Mobile Computing, Communications & Mobile Networks	2 (2)	10-13	2015	Amanjot Singh Toor, <b>A.K.Jain</b>
6.	Mobility Management in UMTS-WLAN Interworking Networks : A Survey	<i>J. Multimed. Technol. Recent Adv</i>	2 (1)	1-11	2015	S. Tripathi and <b>A. K. Jain</b>
7.	WLAN and UMTS QoS: A Survey	Journal of Telecommunication, Switching Systems and Networks	1 (3)	20-29	2015	S Tripathi, AK Jain
8.	Bluetooth Technology: A Survey	Journal of Multimedia Technology & Recent Advancements	2 (1)	17-21	2015	Amanjot Singh Toor, <b>A.K.Jain</b>
9.	Performance Analysis of Mobility over the Integrated UMTS and WLAN Network in different Mobility Models with Vertical Handoff Prediction Algorithms using Streaming Service	Recent Trends in Electronics and Communication Systems	3 (1)	01-12	2016	Shashank Tripathi, A K Jain
10.	QoS Analysis of the Integrated UMTS and WLAN Network in Different Mobility Models with Prediction Algorithms Assisted Vertical Handoff using Conversational Traffic	Journal of Web Engineering & Technology	3 (1)	07-19	2016	Shashank Tripathi, A K Jain

**Faculty2: Mr Narinder Singh****M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214009	Neeraj Kumar	Study of Automation in Pneumatic Conveying System Using PLC Ladder Logic at Nalco Aluminium Plant	Completed	Sole	--	June, 2015
13214020	Kumar Amit Raj	Fuzzy Control of Quarter Car Active Suspension System	Completed	Sole	--	June, 2015
13214021	Ravindra Kumar	Fuzzy Logic Control of Single Link Flexible Manipulator	Completed	Sole	--	June, 2015
13214022	Vivek Kumar Maurya	Optimal Control of Quarter Car Active Suspension System	Completed	Sole	--	June, 2015
14214001	Gyanesh Chandra	-	In progress	Sole	--	July, 2014
14214004	Navneet Pathak	-	In progress	Sole	--	July, 2014
14214010	Shailendra Chaudhary	-	In progress	Sole	--	July, 2014
14214024	Harveer Singh	-	In progress	Sole	--	July, 2014
15214008	Nareesh Kumar Baghel	-	In progress	Sole	--	July, 2015
15214014	Gurpreet Kaur	-	In progress	Sole	--	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Robust Control of Two Link Rigid Manipulator	International Journal of Information and Electronics Engineering	5(3)	198-203	May, 2015	Pawan Singh Yadav and Narinder Singh
2.	Fuzzy Control of Vehicle Active Suspension System	International Journal of Mechanical Engineering and Robotics Research	2	144-148	April, 2016	Narinder Singh
3.	Robust Control of Vehicle Active Suspension System	International Journal of Control and Automation	4	149-160	April, 2016	Narinder Singh

**Research Publications (International Conferences)**

S. No.	Title of paper	Conference Name	Place	Dates	Year	Authors as on the article
1.	Fuzzy Control of Vehicle Active Suspension System	8 <sup>th</sup> International Conference on Computer and Electrical Engg. (ICCEE- 2015)	Paris, France	Oct 8-9, 2015	2015	Narinder Singh

**Faculty3: Dr Dilbag Singh****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14506004	Helen Mary M C	Biomedical Signal Processing	Comprehensive Held on 04.02.2016	Sole	--	
14506001	Abdullah Bin Queyam	Feto-Maternal Monitoring	Comprehensive Held on 04.02.2016	Joint	Dr S K Pahuja	
15506006	Mukesh Kumar	Biomedical Signal Processing	In progress	Joint	Dr K K Deepak	

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214024	Kamal Kumar	Empirical Mode Decomposition Based Atrial Fibrillation Detection	Completed	Sole	-	June, 2015
13214027	Umesh Kumar	Multitaper Power Spectral Density Estimation For Heart Rate Variability	Completed	Sole	-	June, 2015
14214007	Tarun Rawat	-	In progress	Sole	-	July, 2014
14214009	Siddhartha Khanna	-	In progress	Sole	-	July, 2014
14214012	Vishwajeet	-	In progress	Sole	-	July, 2014
15214011	Mahima	-	In progress	Sole	-	July, 2015
15214015	Shubhankar Mandal	-	In progress	Sole	-	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	An adaptive technique for multiscale approximate entropy (MAEbin) threshold (r) selection: application to heart rate variability (HRV) and systolic blood pressure variability (SBPV) under postural stress	International Journal of Australasian Physical & Engineering Sciences in Medicine, Springer Netherlands		1-13	2016	Amritpal Singh, Barjinder Singh Saini, Dilbag Singh

**Research Publications (National journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Normal limits of the electrocardiogram in Indians	<i>Journal of Electrocardiology</i>	48 (4)	652-668	July-August, 2015	Peter W. Macfarlane, Suzanne M. Lloyd, <b>Dilbag Singh</b> , Satish Hamde, Elaine Clark, Brian Devine, Bernard G. Francq, Vinod Kumar
2.	An alternative approach to approximate entropy threshold value (r) selection: application to heart rate variability and systolic blood pressure variability under postural challenge	<i>Medical &amp; Biological Engineering &amp; Technology</i>	DOI:10.1007/s11517-015-1362-z,		August 2015	Amritpal Singh, BS Saini, <b>Dilbag Singh</b>
3.	Multiscale Joint Symbolic Transfer Entropy for Quantification of Causal Interactions between Heart Rate and Blood Pressure Variability under Postural Stress	<i>Fluctuation and Noise Letters</i>	14 (3)	1-15	2015	Amritpal Singh, BS Saini, and <b>Dilbag Singh</b>
4.	Granger Causality Approach on Cardiovascular System during Postural Change	<i>Indian Journal Of Physiology and Pharmacology</i>	59 (5)	47	Nov., 2015	Helen Mary M C, Dilbag Singh and K K Deepak
5.	A new baroreflex sensitivity index based on improved Hilbert Huang transform for assessment of baroreflex in supine and standing postures	<i>Journal of Biocybernetics and Biomedical Engineering, Elsevier</i>	36 (2)	355-365	2016	Amritpal Singh, Barjinder Singh Saini, Dilbag Singh

**Faculty4: Dr S K Pahuja****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14506001	Abdullah Bin Queyam	Feto-Maternal Monitoring	Comprehensive Held on 04.02.2016	Joint	Dr Dilbag Singh	
14506003	Ramesh Kumar Meena	Medical Imaging using Electrical Impedance Tomography	Comprehensive Held on 04.12.2015	Joint	Dr Amit Sengupta	
15506003	Jyoti Thakur	Bio Medical	In progress	Sole	--	

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214001	Ramawatar Meena	Online Monitoring of Breathing Pattern, Body Temperature and PPG Signal	Completed	Joint	Er Roop Pahuja	June, 2015
13214002	Swapnil Mohite	Object Identification and Peak Detection of Bio Signals	Completed	Sole	--	June, 2015
13214023	Rakhi Kumari	Measurement of Heart Rate Variability Using PPG and APG Signal	Completed	Sole	--	June, 2015
14214005	Nivedita Sethy	--	In progress	Sole	--	July, 2014
14214011	Praveen Kumar	--	In progress	Sole	--	July, 2014
14214013	Sumit Kumar	--	In progress	Sole	--	July, 2014
15214005	Bhuvnesh Kumar Meena	--	In progress	Sole	--	July, 2015
15214016	Manpreet Singh	--	In progress	Sole	--	July, 2015

**Research Publications (National journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	'Phantom based Analysis and Validation using Electrical Impedance Tomography	Journal of Instrumentation Technology and Innovation	5 (3)	17-23	2015	Kumar R, Pahuja SK, Sengupta A
2.	LabVIEW-based Virtual Instrument for Simulation of Doppler Blood Flow Velocimetry of Umbilical Artery	Journal of Instrumentation Technology and Innovations	6 (1)	1-9	2016	Abdullah Bin Queyam, Sarwan Kumar Pahuja, Dilbag Singh

**Faculty5: Er Roop Pahuja****M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214001	Ramawatar Meena	Online Monitoring of Breathing Pattern, Body Temperature and PPG Signal	Completed	Joint	Dr S K Pahuja	June, 2015
13214003	Shafaf A M	Development of Water Management System for Home Automation Networks	Completed	Sole	--	June, 2015
13214008	Amar Nath Prajapati	Design and Implementation of Novel Automated Snow Depth Sensing System	Completed	Sole	--	June, 2015
13214012	Prakash Rathod	Demand –Based Control of HVAC System for Indoor Air Quality and Thermal Comfort	Completed	Sole	--	June, 2015

14214014	Himanshu Gupta	--	In progress	Sole	--	July, 2014
14214020	Navjeet Kaur	--	In progress	Sole	--	July, 2014
14214023	Aman Kumar	--	In progress	Sole	--	July, 2014
15214006	Avijeet Kumar	--	In progress	Sole	--	July, 2015
15214019	Deepti Singh	--	In progress	Sole	--	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Web-enabled Simulated and Remote Control Virtual Laboratory of Transducer	International Journal of Modern Education and Computer Science	7 (4)	12-23	April, 2015	Vaibhav Gautam, Roop Pahuja

**Research Publications (National journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Implementation of Greenhouse Climate Control Simulator Based on Dynamic Model and Vapor Pressure Deficit Controller	Engineering in Agriculture, Environment and Food	available online 14 May, 2015.			Roop Pahuja, Harish Kumar Verma, Moin Uddin
2.	Design and Implementation of a Novel Automated Snow Depth Sensing System	Journal of Sensors and Instrumentation	1	1-18	April, 2016 <i>doi:10.7726/jsi.2016.1001</i>	Amar Nath Prajapati and Roop Pahuja

**Faculty 6 : Dr Sheela Tiwari****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14806001	Ashutosh Bahadoria	Power System Operation and Control	In progress	Sole	--	
15506004	Vishal Vishnoi	--	In progress	Sole	--	

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214006	Sagar	Heuristic Algorithm-Based PID Controller For Bio-Chemical Reactor System	Completed	Sole	--	June, 2015
14214002	Vipul Raja	--	In progress	Sole	--	July, 2014
14214003	Habby Thomas	--	In progress	Sole	--	July, 2014
14214022	Kartik S Prakash	--	In progress	Sole	--	July, 2014
15214003	Jacob Sebastian	--	In progress	Sole	--	July, 2015
15214004	Vipulnath T V	--	In progress	Sole	--	July, 2015
15214018	Kaushal Kishor	--	In progress	Sole	--	July, 2015

**Faculty 7: Dr Rajesh Kumar Singla****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15506001	Akshay Katyal	--	In progress	Sole	--	July, 2015

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214005	Sneha Gupta	Effective Alarm Management in Process Industries	Completed	Sole	-	June, 2015
13214011	Pankaj Kumar Vaishanav	P300 Detection For Human Machine Interface	Completed	Sole	-	June, 2015
13214014	Shashank Garg	Real Time Automatic Speech Recognition	Completed	Sole	-	June, 2015
14214008	Harsh Sahu	--	In progress	Sole	--	July, 2014
14214018	Sagar Jatana	--	In progress	Sole	--	July, 2014
14214021	Trilok Kumawat	--	In progress	Sole	--	July, 2014
15214010	Yamini Gogna	--	In progress	Sole	--	July, 2015
15214012	Vikash Kumar	--	In progress	Sole	--	July, 2015
15214017	Ravi Kumar	--	In progress	Sole	--	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	BCI: An Optimized Speller using SSVEP	International Journal of Biomedical Engineering and Technology, Inderscience Publisher (Article in Press).			2016	Irshad Ahmad Ansari, Rajesh Singla
2.	Types of Hybrid Modalities in Brain Computer Interface Systems : A Review	International Journal of Biomedical Engineering and Technology, Inderscience Publisher (Article in Press).			2016	Rajesh Singla, Sagar Jatana

**Research Publications (National journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	SSVEP and ANN based optimal speller design for Brain Computer Interface	Journal of Computational Science and Techniques	2 (2)	338-349	2015	IA Ansari, R Singla, M Singh

**Faculty 8: Dr Kuldeep Singh Nagla****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15506005	Ravinder Singh	--	In progress	Sole	--	July, 2015

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13214010	Nidhi Jain	Corner Extraction from Indoor Environment for Mobile Robot Mapping	Completed	Sole	--	June 2015
13214013	Y Prem Kumar	Mobile Robot Environment Mapping using Sonar Sensor	Completed	Sole	--	June 2015
13214025	Tarlok Singh	Collision Avoidance of Mobile Robot Using Vector Field Histogram	Completed	Sole	--	June 2015
14214015	Rahul Kumar Sharma	--	In progress	Sole	--	July, 2014
14214025	Rini Sharma	--	In progress	Sole	--	July, 2014
14214026	Archana Khurana	--	In progress	Sole	--	July, 2014
15214001	Deepak Bhola	--	In progress	Sole	--	July, 2015
15214009	Rajneesh Pratap Singh	--	In progress	Sole	--	July, 2015
15214013	Kirti Singh	--	In progress	Sole	--	July, 2015

**Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

Name of the Faculty	Title of course	Name of organizer	Dates	Funded by
Dr Sheela Tiwari	Workshop on Grid Integration of Renewable Energy Source	IIT Delhi	18.04.2015 to 19.04.2015	
Dr Kuldeep Singh Nagla	STC on Integrated Automation Technologies	IIT Delhi	01.06.2015 to 06.06.2015	
Dr Kuldeep Singh Nagla	One day workshop on AISHE	MHRD, Delhi	22.09.2015	
Dr Dilbag Singh	IEEE Smart Tech Workshop	Bangalore	25.09.2015 to 26.09.2015	
Dr S K Pahuja	International Conference on Indo-Global summit and expo on Helathcare	New Delhi	05.10.2015 to 07.10.2015	
Dr Kuldeep Singh Nagla, Member Rashtrya Avishkar Abhiyan, NITJ	Two days Workshop on Rashtrya Avishkar Abhiyan	Department of SE&L, MHRD, New Delhi	16.11.2015 to 17.11.2015	
Dr S K Pahuja	Workshop on Smart grid Communications and Cyber Security Systems	CPRI, Bangalore	18.11.2015 to 20.11.2015	
Dr S K Pahuja	Two day Workshop on Grounding Practices	Central Power Research Institute, Bangalore	28.01.2016 to 29.01.2016	
Dr Dilbag Singh	GIAN Course on Comprehensive Electrocardiography	Indian Institute of Technology, Roorkee	23.02.2016 to 27.02.2016	



**Visit****Short Term Courses/Workshops/Seminars organized:**

Title of course	Name of organizer	Dates	Funded by
Two day Workshop on Virtual Labs (BTech/ MTech and PhD)	Department of Instrumentation and Control Engineering	29.09.2015 to 30.09.2015	

**Expert talks delivered:**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
IPR	Dr Kuldeep Singh Nagla	Shaheed Bhagat Singh State Technical Campus (SBSSTC) Ferozepur (AICTE sponsored FDP)	27.05.2015	
Medical Imaging (Electrical Impedance tomography)	Dr S K Pahuja	Faculty Development Programme	09.07.2015	

**Expert talks organized:**

Sr. No.	Name	Address	Topic	Date
1.	Prof H S Ranu	President, American Orthopaedic Biomechanics Research Institute, Atlanta	Contribution to Orthopaedic Biomechanics	01.10.2015
2.	Dr Amit Sengupta	Professor, Senior Consultant in Obstetrics & Gynecology, Fortis-Hiranandani, Divine Hospitals, Mumbai	An overview of bio-medical & Bio-engineering and Basic research methodologies	04.12.2015
3.	Dr K K Deepak	Professor of Physiology, All India Institute of Medical Science, New Delhi	The Role of Physiology and BME in transnational Research	04.02.2016
4.	Dr Dinesh Bhatia	Head, Department of Biomedical Engineering, North-Eastern Hill University, Shillong	Functional Electrical Stimulation (FES) for Physically Challenged	04.02.2016

**Membership to professional bodies:**

Name of Faculty	Type of Membership	Organization	Membership Number
Dr A K Jain	Annual Life Member	IEEE ISTE	M92954278 LM 8852
Er Narinder Singh	Life Member	IE, IETE	107815/6, 102863
Dr Dilbag Singh	Life Member Life Member Life Member Annual Life Member Life Member	ISTE Instrument Society of India (ISOI), IISc Bangalore Biomedical Engineering Society of India Member IEEE-EMBS Fellow IEI Fellow IETE	LM22453 LM833 L939 M90778042 F-1151440 F-230069
Dr S K Pahuja	Life Member	ISTE	LM 22452
Dr Sheela Tiwari	Life Member	ISTE	LM 26873
Dr K S Nagla	Annual Life Member Life Member	Student member of IEEE Member of RAS (Robotics & Automation Society) India Innovator Association	No. 80428592 - -

**Consultancy services completed/ongoing:**

- Collaborative consultancy on performance testing of Bhaba and Tulang SHPs in Himachal Pradesh during May

25-28, 2015 with AHEC, IIT Roorkee (Dr Dilbag Singh).

- R&D consultant to Steinbeis GmbH & Co. KG für Technologietransfer, Willi-Bleicher-Strasse 19, Germany (Dr K S Nagla).

#### Projects Completed/On Going/sponsored projects

##### Project Received

- Indo-Korean R&D project on Shared Autonomy System in Field Mobile Robots. Project awarded in May, 2015 (Project Code ROK-30 no INT/Korea/P-25 dated 07/07/2015) Funding agency Department of Science and Technology (DST), Ministry of Science & Technology, Government of India and Ministry of Science, ICT (Information/Communication Technology) and Future Planning (MSIP) of the Republic of South Korea.
- Dr S K Pahuja and Mr Abdullah Bin Queyam submitted and presented of R&D Project entitled “Feto-Maternal Monitoring System”, under TEQIP-II, NIT- Jalandhar, submitted on September, 2015 and presented on October, 2015.
- Dr S K Pahuja and Mr Ramesh Kumar Meena submitted and presented of R&D Project entitled “Design and Implementation of EIT Based Hardware for Feto-Maternal Monitoring”, under TEQIP-II, NIT- Jalandhar, submitted on September, 2015 and presented on October, 2015.
- Er Roop Pahuja and Ms Navjeet Kaur submitted and presented of R&D Project entitled “Design and Implementation of an Intelligent Kitchen Model for Smart Homes”, under TEQIP-II, NIT- Jalandhar, submitted on September, 2015 and presented on October, 2015.

#### Patents and Industrial designed

- Patent liquid Level measurement apparatus , **patent in process for financial assistance at DST New Delhi** , Inventor Dr KS Nagla, Y Prem Kumar (presented in October, 2015)
- patent entitled “Photocatalytic degradation of organic contaminants in open water, channels” **in process for financial assistance at DST New Delhi**. Inventors Dr Jatinder Kumar, Dr KS Nagla. (presented in October, 2015)

#### Copy Rights

- Program tool for multisensor data fusion: focused on mobile robots mapping, Copy Right © Diary no 3390/2015-co/SW dated 08/04/2015
- Program tool for corner extraction using laser range finder focused on mobile robot mapping applied for copy right © Diary Number 3390/2015-CO/SW, April, 2015.

#### Upgraded qualifications

Name of faculty	date of joining	Highest qualification of the faculty	year of attaining the qualification	Present Designation.
Dr Rajesh Singla	2008	PhD	2015	Associate Professor

#### Any other significant achievement:

#### Short Term Courses/Training Programs/ Seminars/ Conferences/ Workshops/ Symposia attended by the students

Name of the Students	Title of course	Name of organizer	Dates
Umesh Kumar, Kamal Kumar, Tarun Rawat and Vishwajeet M Tech Student	Short Term Training programme on Small Hydropower Development	sponsored by Ministry of New and Renewable Energy, GOI, organized by Alternate Hydro Energy Centre, IIT- Roorkee	25/05/2015 to 29/05/2015
Helen Mary M C Research Scholar	Short Term Training programme on Small Hydropower Development	sponsored by Ministry of New and Renewable Energy, GOI, organized by Alternate Hydro Energy Centre, IIT- Roorkee	20/05/2015 to 25/05/2015

Tarun Rawat M Tech Student	Two days Workshop on Grounding Practices	Central Power Research Institute, Bangalore	28/01/2016 to 29/01/2016
Vishal Vishnoi Research Scholar	Short Term Course on Nature Inspired Algorithm and Its Applications	Kolkata	08/02/2016 to 12/02/2016
Mukesh Kumar Research Scholar	Training Course on Comprehensive Electrocardiology	Indian Institute of Technology, Roorkee	23/02/2016 to 27/02/2016
Vishwajeet M Tech Student	Training Course on Comprehensive Electrocardiology	Indian Institute of Technology, Roorkee	23/02/2016 to 27/02/2016

**Student Placement (Batch - 2012-16)**

Sr. No.	Roll No.	Candidate Name	Batch	Company Placed
1.	12106003	AJAY KUMAR DHANKAR	2012-16	AVANTI
2.	12106005	AKSHAY CHOUDHARY	2012-16	CAPGEMINI
3.	12106008	AMIT SINGH BHATTI	2012-16	VIRTUSA
4.	12106010	ANAND KUMAR PANDEY	2012-16	CAPGEMINI
5.	12106014	ANOOB SAMDANI	2012-16	TCS
6.	12106015	ANUJ KUMAR BHATI	2012-16	CAPGEMINI
7.	12106017	ARMAAN KATARIA	2012-16	TCS, ALSTOM, HONDA POWER
8.	12106018	ARNAV ARORA	2012-16	INFOSYS, TECHNIP
9.	12106020	AVINASH SHAH	2012-16	INFOSYS
10.	12106021	AYUSH GARG	2012-16	FUTURES FIRST
11.	12106024	DALJEET SINGH	2012-16	HINDUSTAN TIMES
12.	12106026	DHANESH BHANDARI	2012-16	INFOSYS
13.	12106029	DIVYA GARG	2012-16	CAPGEMINI
14.	12106030	GANESH CHOUDHARY	2012-16	INFOSYS
15.	12106032	GOPESH	2012-16	MUSIGMA
16.	12106033	GURDIP SINGH	2012-16	DS GROUP
17.	12106037	HARENDRA LEGA	2012-16	AKASH
18.	12106041	JASPREET KAUR	2012-16	TECHNIP
19.	12106042	JYOTI OJHA	2012-16	INFOSYS
20.	12106043	KAMAL PREET SINGH	2012-16	VIRTUSA
21.	12106044	KIRAN	2012-16	TCS
22.	12106046	LIVNOOR BRAR	2012-16	ALSTOM, MUSIGMA
23.	12106047	LOVEPREET KHULLAR	2012-16	WAYS2CAPITAL
24.	12106048	MANJINDER KAUR	2012-16	TCS
25.	12106051	MEENAKSHI BANSAL	2012-16	AVANTI
26.	12106053	MONIKA KUMARI	2012-16	TCS
27.	12106054	ANAMIKA DADHICH	2012-16	VIRTUSA
28.	12106055	SUNITA BENIWAL	2012-16	INFOSYS
29.	12106060	NEETU SINGH	2012-16	DS GROUP
30.	12106061	PRAGYA MALOO	2012-16	EXL
31.	12106062	PULKIT KAPOOR	2012-16	MUSIGMA
32.	12106064	PUSHPENDRA PANDEY	2012-16	TCS, LNT
33.	12106070	SAKSHAM JINDAL	2012-16	TCS, LNT

34.	12106072	SAURABH PATHAK	2012-16	TCS, VEDANTA
35.	12106073	SAVY GARG	2012-16	TCS
36.	12106078	SHUBHAANKAR SRIVASTAVA	2012-16	MUSIGMA
37.	12106079	SHUBHAM ROHILLA	2012-16	VIRTUSA
38.	12106080	SOUTRIK PRASAD MAITI	2012-16	ORIENT
39.	12106081	SUBHAM KALITA	2012-16	LNT
40.	12106082	TARUN KUMAR GUPTA	2012-16	MUSIGMA
41.	12106084	VIVEK SINGLA	2012-16	ALSTOM
42.	12110041	MEGHANA SUDAN	2012-16	TCS
43.	12110073	SURBHI BANSAL	2012-16	MUSIGMA
44.	12112070	SHUBHAM SHEKHAR	2012-16	CAPGEMINI, LNT

**GATE-2015**

Name	Rank
RatanSingh Rathore	48
Suray Mittal	63
VaishaliVerma	130
Ayush Jain	221
SamvirjitKanwar	360
SumitNibhwani	422
AnkurGour	438
Pawan Kumar	453
Shivani Yadav	453
Bharat Tukadiya	458
Bhala Ram	526
HarshitaSinghal	526

**GATE-2016**

Name	Rank
Avinash Kumar Shah	2
Subham Kalita	16
ArmaanKataria	39
Saksham Jindal	70
Pushpendra Pandey	134
Amrinder Singh	286
Monika Kumari	430
SunitaBeniwal	504
Saurabh Pathak	504
Meghana Sudan	776
Bhupinder Singh	1182
ShubhamShekhar	1289
Arnav Arora	1486
DivyaGarg	1582
Vivek Singla	1685
Manspinder Singh	1730
Tarun Kumar Gupta	1799
Gurdip Singh	1809
Gopesh	1830
Ganesh Choudhary	1900
Manjinder Singh	1941

**GRE-2016**

Name	Marks
Akshay Choudhary	325

**DEPARTMENT OF MATHEMATICS  
DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	08	No. of PhD completed	
No. of Journal publications(National)	01	No. of new PhD students enrolled	
No. of International Conferences attended	03	No. of New PG students completed	08
No. of National Conferences attended		No. of New PG students enrolled	17
No. of STC conducted	01	No. of faculty members enrolled for higher qualifications	
No of conferences conducted		No. off faculty members upgraded qualifications	
No of expert talks delivered by faculty	05	Any other important information	
No. of expert talks organized			

**FACULTY**

Name	Position	Qualifications
Dr Geeta Partap	Associate Professor & Head	Ph. D.
Dr Jaspal Singh	Professor	Ph. D.
Dr Sheo Kumar	Professor	Ph. D.
Dr Damanjit Kaur	Associate Professor	Ph. D.
Mrs Alka Bhalla	Associate Professor	M. Phil.
Dr Raghaw Raman Sinha	Assistant Professor	Ph. D.

**ACADEMIC PROGRAMMES****Postgraduate Programmes**

- M. Sc. in Mathematics

**RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****Faculty 1: Dr Jaspal Singh****Ph D guidance: 01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
14521001	Isha Garg	Inequalities and positivity properties of some special matrices.	On going		Dr Jaspal Singh	

**PG guidance:02**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13321005	Gursimral Pal	Convex Functions and Inequalities	Completed	Sole		May, 2015
13321008	Preeti	Quasi Convex Functions and Inequalities	Completed	Sole		May, 2015

**1. Short Term Courses/Workshops/Seminars organized: 01**

Title of course	Name of organizer	Dates	Funded by
Recent Trends in Applied Mathematics	Dr. R R Sinha and Dr Jaspal Singh	Nov 30 - Dec.04, 2015	TEQIP-II

- 2. Any other significant achievement:** Visited Abdul Salam International Centre for Theoretical Physics, Trieste, Italy during June 23 - July14, 2015 as Senior Associateship.

**Faculty 2: Dr Sheo Kumar****Ph D guidance: 01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
12412101	Inderdeep Singh	Haar wavelet methods for PDEs and Intergral Equations	On going	Sole		27-07-2012

**PG guidance: 02**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13321007	Himanshu Rayal	Study on Haar Wavelet Methods for Numerical Solutions of Integral Equations	Completed	Sole		May, 2015

**Research Publications (International journals)- 07**

S.N o	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
01	Numerical solution of wave equation using Haar wavelets	International Journal of Pure and Applied Mathematics (Bulgaria)	98 (4)	457-469	2015	Inderdeep Singh, Sangeeta Arora & Sheo Kumar
02	Comparative study of Haar wavelet with numerical methods for partial differential equations	International Journal of Pure and Applied Mathematics (Bulgaria)	101 (4)	485-503	2015	Sangeeta Arora, Inderdeep Singh, Yadwinder Singh & Sheo Kumar
03	Numerical solution of damped forced oscillator problem using Haar wavelets	<i>Iranian Journal of Numerical Analysis and Optimization, (Iran)</i>	5 (1)	73-83	2015	Inderdeep Singh & Sheo Kumar
04	Galerkin-least square B-spline approach towards advection-diffusion equation	Applied Mathematics & Computation (Elsevier)	261	128-140	2015	<i>Sharanjeet Dhawan, Samir Kumar Bhowmik &amp; Sheo Kumar</i>
05	Approximate solution of convection-diffusion equation using Haar wavelet	Italian Journal of Pure and Applied Mathematics (Italy)	35	143-154	2015	Inderdeep Singh & Sheo Kumar
06	Efficiency and accuracy of numerical solution of Laguerre's differential equation using Haar wavelet	International Journal of Pure and Applied Mathematics (Bulgaria)	104 (4)	495-508	2015	<i>Inderdeep Singh, Sangeeta Arora and Sheo Kumar</i>
07	<i>Haar wavelet method for some nonlinear Volterra integral equations of the first kind</i>	<i>Journal of Computational and Applied Mathematics (Elsevier)</i>	292	541-552	2016	<i>Inderdeep Singh and Sheo Kumar</i>

**Faculty 3: Dr Damanjit Kaur****PG guidance:01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13321004	Jannat	Series solution of Laguerre's Differential Equation with Mathematica	Completed	Sole		May, 2015
13321010	Gurwinder Kaur	Solution of Hermite Differential Equation using Frobenius method with Mathematica	Completed	Sole		May, 2015

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty: 02**

Title of course	Name of organizer	Dates	Funded by
Recent Trends in Applied Mathematics	Deptt of Mathematics, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Nov 03-Dec. 04, 2015	TEQIP-II
Advances in Nuclear and Particle Physics: Present and Future	Deptt of Physics, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Feb. 07-12, 2016	TEQIP-II

**Faculty 4: Dr Geeta Partap**

**Ph D guidance: 01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
14521002	Nitika Chugh	Mathematical Modelling and Vibration Analysis of Microstretch Thermoelastic structures.	On going	Sole		07-08-2014

**PG guidance:01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
13321002	Vikas Kumar	Dispersion of Waves in Viscoelastic Plates.	Completed	Sole		May, 2015

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty: 02**

Title of course	Name of organizer	Dates	Funded by
International Conference on Modeling, Simulation and Optimizing Techniques (ICMSOT-2015)	Department of Mathematics, D. A.V.College, Jalandhar. Punjab, India	Feb. 12-14, 2015	DST
Advances in Nuclear and Particle Physics: Present and Future	Deptt of Physics, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Feb. 07-12, 2016	TEQIP-II

**2. Expert talks delivered: 01**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Linear Programming	Dr Geeta Partap	Recent Trends in Applied Mathematics	Dec. 04, 2015	STC

- 3. Any other significant achievement:** Organized a short term course on "Recent Trends in Applied Mathematics" as a chief coordinator held at Dr. B. R. Ambedkar N. I. T., Jalandhar, India, sponsored by TEQIP-II during Nov 03-Dec. 04, 2015.

**Faculty 5: Mrs Alka Bhalla**

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty: 02**

Title of course	Name of organizer	Dates	Funded by
Recent Trends in Applied Mathematics	Deptt of Mathematics, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Nov 03-Dec. 04, 2015	TEQIP-II
Advances in Nuclear and Particle Physics: Present and Future	Deptt of Physics, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Feb. 07-12, 2016	TEQIP-II

**2. Expert talks delivered: 01**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Probability distribution Theory	Mrs Alka Bhalla	Recent Trends in Applied Mathematics	Dec. 04, 2015	STC

**Faculty 6: Dr R R Sinha****PG guidance: 01**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/Completed
13321003	Manavjot Kaur	Estimation of Ratio of Two Population Means using Auxiliary Attribute and Character in Presence of Non-Response.	Completed	Sole		May, 2015
13321006	Neema Lama	Estimation of Product of Two Population Means using Auxiliary Attribute and Character in Presence of Non-Response.	Completed	Sole		May, 2015

**Research Publications (International journals)- 01**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Estimation of mean using double sampling the non-respondents with known and unknown variance	International Journal of Computing Science and Mathematics	6(5)	442-458	2015	R. R. Sinha and Vinod Kumar

**Research Publications (National journals) : 01**

S.No	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Families of Estimators for Finite Population Variance Using Auxiliary Character Under Double Sampling the Non-respondents	National Academy Science Letters, (Springer)	38(6)	501-505	2015	R. R. Sinha and Vinod Kumar

**1. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty: 03**

Title of course	Name of organizer	Dates	Funded by
International Conference on Modeling, Simulation and Optimizing Techniques (ICMSOT-2015)	Department of Mathematics, D. A.V.College, Jalandhar. Punjab, India	Feb. 12-14, 2015	DST
Current Opportunities and New Directions in Chemical Sciences and Technology	Deptt of chemistry, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Dec. 07-13, 2015	TEQIP-II
Advances in Nuclear and Particle Physics: Present and Future	Deptt of Physics, Dr. B. R. Ambedkar N. I. T., Jalandhar, India	Feb. 07-12, 2016	TEQIP-II

**2. Short Term Courses/Workshops/Seminars organized: 01**

Title of course	Name of organizer	Dates	Funded by
Recent Trends in Applied Mathematics	Dr. R R Sinha and Dr Jaspal Singh	Nov 30 - Dec.04, 2015	TEQIP-II

**3. Expert talks delivered: 03**

Title of talk	Name of expert	Event of talk delivered	Date of talk	Event/STC/Seminar/Workshop
Estimation of population parameters under large sample approximation	Dr R R Sinha	Multi-track conference on Sciences, Engineering and Technical Innovations: IMCT-2015	May 23, 2015	Conference
Non- Sampling Errors	Dr R R Sinha	Recent Trends in Applied Mathematics	Dec. 04, 2015	STC
Sampling Techniques and Distribution	Dr R R Sinha	Advanced Techniques in Research	March 25-31, 2016	One week Faculty Development Programme

**4. Any other significant achievement:**

Chaired a session in the Multi-track conference on Sciences, Engineering and Technical Innovations: IMCT-2015, held at CT Institute of Engineering, management and Technology, Jalandhar, Punjab, India on May 22-23, 2015.



**DEPARTMENT OF MECHANICAL ENGINEERING****DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	22	No. of PhD completed	01
No. of Journal publications(National)	02	No. of new PhD students enrolled	09
No. of International Conferences attended	06	No. of PG students completed	18
No. of National Conferences attended	02	No. of New PG students enrolled	22
No. of STC/ Workshop/ courses attended	03	No. of faculty members enrolled for higher qualifications	NIL
No. of STC/ Workshops conducted	NIL	No. of faculty members upgraded qualifications	NIL
No of expert talks delivered by faculty	19		
No. of expert talks organized	NIL		

**FACULTY**

Sr. No.	Name	Position	Qualifications
1	Joseph Anand Vaz	Professor	PhD
2	Subhash Chander	Associate Professor	PhD
3	R.S.Bharj	Associate Professor	PhD
4	Rajeev Kukreja	Associate Professor	PhD
5	Pramod Kumar	Associate Professor	PhD
6	Ajay Trehan	Associate Professor	M.Tech
7	Dinesh Kumar Shukla	Associate Professor	PhD
8	Raman Bedi	Associate Professor	PhD
9	S.K.Tiwari	Associate Professor	PhD
10	S.S. Sandhu	Assistant Professor	PhD

**ACADEMIC PROGRAMMES**

## Undergraduate Programmes

- B. Tech. in Mechanical Engineering

## Postgraduate Programmes

- M. Tech. in Mechanical Engineering

## Doctoral Programmes

- PhD in Mechanical Engineering (Full Time)
- PhD in Mechanical Engineering (Part Time)

**LIST OF LABORATORIES**

- Strength of Materials Laboratory
- Fluid Machinery Laboratory
- Heat Transfer and Heat Engine Laboratory
- Theory of Machines
- Computer Aided Design Laboratory
- Refrigeration and Air Conditioning Laboratory
- Mechanical Measurement Laboratory
- Vibration Laboratory
- Automobile Engineering Laboratory
- Experimental Stress Analysis Laboratory
- Automation and Mechatronics Laboratory

**RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)****JOSEPH ANAND VAZ****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509009	Arvind Pathak	BIO-MECHANICS	In Progress	Sole	-----	July, 2015

**M.Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209022	Vivek Soni	Use of PID in finger actuation	In Progress	Sole	-----	July, 2015
15209011	Hardik Savsani	Related to Mechatronics and Use of PID in finger actuation	In Progress	Sole	-----	July, 2015
13209011	Abhisak Sharma	Development of an Experimental Test Rig for Understanding the Musculoskeletal Actuation System of Human Hand	Completed	Sole	-----	July, 2015
12209010	MS Milton	Development of an Experimental Set up for real time Tendon Motion Control and Force Measurement for the Musculoskeletal Actuation System of Human Hand	Completed	Sole	-----	July, 2015
13209014	Arvind Kumar Pathak	Integrating Dynamic System Simulation Using Bond Graph with Animation	Completed	Sole	-----	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Bond Graph Model of Extensor Mechanism of Finger based on Hook-String Mechanism", Mechanism and Machine Theory	Mechanism and Machine Theory	91	187-208	2015	Kanwalpreet Singh, Geneviève Dauphin-Tanguy
2.	Bond graph modeling of dynamics of soft contact interaction of a non-circular rigid body rolling on a soft material	Mechanism and Machine Theory	86	265-280	2015	Shashank Tripathi, A K Jain

**Conferences Publications (International and National)**

S. No.	Title of paper	Conference Name	Place	Dates	Year
1	Modeling and Simulation of a Three-Joint Prosthetic Finger Actuated by Remaining Functional Natural Fingers: A Bond Graph Approach	2nd Int. and 17th National Conf. on Machines and Mechanisms (iNaCoMM2015)	-----	Dec. 2015	2015
2.	Simulation of Impact and Rolling Contact Dynamics between a Rigid Body and a Soft Material using Multibond Graph Approach	2nd Int. and 17th National Conf. on Machines and Mechanisms (iNaCoMM2015)	-----	Dec. 2015	2015

**SUBHASH CHANDER****PhD Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509002	Parampreet Singh	SWIRLING FLAMES	In Progress	Sole	-----	July, 2015
10409002	Satpal Singh	Stability and heat transfer characteristics of dual swirling flame impinging on a flat surface	Completed	Sole	-----	June, 2015

**M.Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209014	Sourabh Gupta	Solar thermal energy storage using PCM	In Progress	Sole	-----	July, 2015
15209016	Dhramveer singh	Solar thermal energy storage using PCM	In Progress	Sole	-----	July, 2015
15209023	Vikas Kumar Chauhan	Solar thermal energy storage using PCM	In Progress	Sole	-----	July, 2015
13209002	Sidharth	CFD Analysis of Solar Air Heater with Artificial Rib Roughness on Heated surface	Completed	Sole	-----	July, 2015
13209023	Devinder Singh Bhogal	Mathematical Modelling of ThermoAcoustic Combustion Instability in Gas Turbines	Completed	Sole	-----	July, 2015

**Research Publications (International and National Journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Heat Transfer Characteristics of Dual Swirling Flame Impinging On a Flat Surface	<i>International Journal of Thermal Sciences</i>	89	1-12	2015	Harish Palani Naga Surya, Sajeesh Parayil, Utsab Banerjee, Ashis Kumar Sen
2.	Evaluation of Heating Capabilities of Dual Swirling Flame under Fuel Lean Conditions	<i>Open Journal of Heat, Mass and Momentum Transfer</i>	3(1)	1-13	2015	Satpal Singh
3.	Thermo-Hydraulic Performance Due to Relative Roughness Pitch in V-Down Rib With Gap in Solar Air Heater Duct—Comparison With Similar Rib Roughness Geometries	<i>Renewable and Sustainable Energy Reviews</i>	43	1159-1166	2015	Sukhmeet Singh
4.	Performance Analysis of Solar Air Heater Duct Roughened with Multigap V-Down Ribs Combined with Staggered Ribs	<i>Renewable Energy</i>	91	484-500	2016	Narinderpal Singh Deo, J.S.Saini
5.	Effect of Alterations in V-down Rib on the Performance of an Artificially Roughened Solar Air Heater Duct	<i>American Journal of Heat and Mass Transfer</i>	3(4)	259-279	2016	Narinderpal Singh Deo, J.S.Saini
6.	Numerical Simulation of Heat Transfer Characteristics of Methane/air Swirling Turbulent Flame impinging on Flat Surface	SAE Technical Paper, Issue: 2016-01-1340	---	---	2016	Vikram Dang

**RS BHARJ****PhD Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509001	GURUKAMAL NAIN SINGH	ALTERNATIVE FUEL	In Progress	Sole	-----	July, 2015

**M Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209007	Brijesh Kumar	DPF	In Progress	Sole	-----	July, 2015
15209013	Hardik	Alternate fuel	In Progress	Sole	-----	July, 2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	International Journal of Research in Advent Technology	International Journal of Current Engineering and Technology	5(1)	477-485	Feb, 2015	Narinder Singh
2	Study on Solar Hybrid System for Cold Storage	IJRMST (International Journal of Research in Management, Science & Technology)	3	72-74	2015	Surender Kumar, Rajinder Kumar
3	Robust Control of Vehicle Active Suspension System	International Journal of Control and Automation	4	149-160	April, 2016	Narinder Singh

**Conferences Publications (International and National)**

S. No.	Title of paper	Conference Name	Place	Dates	Year
1.	Study on Solar Hybrid System for Cold Storage	4 <sup>th</sup> International conference on Evolution in Science & Technology and EYNE on Entrepreneurial Management (ESTEEM-2015)	PPIMT Campus, Hlsar	26-27 March 2015	2015

**RAJEEV KUKREJA****PhD Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509004	SUKHDEEP SINGH	THERMAL MANAGEMENT OF ELECTRONIC COMPONENT	In Progress	Sole	-----	July, 2015

**M.Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209012	Ukani Palash	Heat conservation using PCM in communication tower	In Progress	Sole	-----	July, 2015
15209020	Sunil Kumar Sharma	Analysis of performance VCRS using nano refrigerant	In Progress	Sole	-----	July, 2015
13209008	Sandeep Yadav	Performance, Simulation and Optimization of Shell and Tube Heat Exchanger using Genetic Algorithm	Completed	Sole	-----	July, 2015
13209024	Uday Shankar Chaudhary	CFD Simulation of Evaporative Cooling by Water Spraying System	Completed	Sole	-----	July, 2015

**Conferences Publications (International and National)**

S. No.	Title of paper	Conference Name	Place	Dates	Year
1.	Flow boiling characteristics of Refrigerants in microchannels	4 <sup>th</sup> National Conference on RAC (NCRAC-15)	Chennai-India	October, 28-30	2015
2.	Two phase heat transfer and flow regimes of R-134a and R-410a during condensation in Horizontal Micro-Fin tubes	9 <sup>th</sup> International Conference on Multi-phase Flow	Florence-Italy	May, 22-27	2016

**Projects Undertaken**

- DST Project worth ₹ 38 lacs was awarded under Extra Mural Research Scheme on study of Flow Regime based on condensation characteristics of refrigerants in macro and micro channels.

**Short Term Courses Attended**

- STTP on Wind Energy Technology at NIWE Chennai from March, 14-18, 2016.

**PRAMOD KUMAR****PhD Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509007	MILLAN KUMAR	MATERIAL FAILURE	In Progress	Sole	-----	July, 2015
15509006	SUDHANSU SEKHAR DAS	SOLAR PV PANELS	In Progress	Sole	-----	July, 2015

**M.Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209001	Prabhat Kumar	Heat conservation using PCM in communication tower	In Progress	Sole	-----	July,2015
15209027	Dhirendra Kumar	Fabrication of photovoltaic model for thermal analysis and application	In Progress	Sole	-----	July,2015
13209005	Sunil Kumar Saini	Simulation and Design of Materials for Solar Cells	Completed	Sole	-----	July,2015
13209013	Surya Pratap Singh	Effect of Various Chemical Treatments on the Damping and Water Absorption Property of Coconut Fibre reinforced Polymer Composite	Completed	Sole	-----	July,2015
13209020	Shubham Kushwaha	Molecular Dynamic Simulation of Polymer/ Carbo Nano Tube Composite to predict the elastic property	Completed	Sole	-----	July,2015
11209033	Kapil Sharma	Solar Photo Voltaic System- Its Design and Utilization	Completed	Sole	-----	July,2015
13209021	Om Prakash	Applications of Solar Photo Voltaics to Power Stand- Alone area and Street Lighting	Completed	Sole	-----	July,2015

**Research Publications (International journals)**

S.No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Characterization of fibrous assembly from lime peels extract	International Journal of Pharmacology, Phytochemistry and Ethnomedicine	1	27-36	2015	Himansu Shekhar Mohapatra, Arobindo Chatterjee
2.	Characterization of Film for medical Textiles Application	Tekstilec	58 (4)	268-273	2015	Himansu Shekhar Mohapatra, Arobindo Chatterjee
3.	Experimental investigation of dynamic properties of fiber reinforced composites	Composites: Mechanics, Computations, Applications: An International Journal	6(4)	307-320	2015	Sharma S., Chandra R., Kumar N.
4.	Thermo-mechanical characterization of multi-walled carbon nanotube reinforced polycarbonate composites: A molecular dynamics approach	Comptes Rendus Mecanique	343 (5-6)	371-396	2015	Sharma S., Chandra R., Kumar N.
5.	Molecular dynamics simulation of functionalized SWCNT-polymer composites	Journal of Composite Materials	-----	doi: jcm.sagepub.com.	2016	Sharma S., Chandra R., Kumar N.

**Project Undertaken**

- FIST Program of DST in Level-1 of Engineering Sciences DST Sanction letter: 15 Nov 2012 SR/FST/ETI-323/2012 of Rs 112 Lacs (250kN Servo hydraulic Dynamic universal Testing Machine)

**AJAY TREHAN****M.Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209006	Vijender Haldkhar	Solar thermal storage system	In Progress	Sole	-----	July, 2015
15209009	Kamal Kant	Solar energy	In Progress	Sole	-----	July, 2015
13209019	Avinash Kumar	Design and Analysis of Parabolic Solar Trough	Completed	Sole	-----	July, 2015
13209007	Tej Bahadur Singh	Design and Performance Evaluation of Biomass Gassifier Cooking Stove cum Water Heater	Completed	Sole	-----	July, 2015

**DK SHUKLA****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509005	MAYUR PARTAP SINGH	WELDING	In Progress	Sole	-----	July, 2015

**M. Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209021	Aditya Sharma	Exeperimental investigation of heat input on dissimilar Al alloys butt joint using plasma arc welding	In Progress	Sole	-----	July, 2015
13209022	Surya Kumar Pandey	Parametric Study on Mild Steel using Gas Metal Arc Welding	Completed	Sole	-----	July, 2015
13209017	Shailendra Kumar Pandey	Influence of Process parameters on Weld Bead Geometry and Mechanical properties in GTAW	Completed	Sole	-----	July, 2015

**RAMAN BEDI****PhD guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509003	AKHIL KHAJURIA	WELDING	In Progress	Sole	-----	July, 2015

**M. Tech guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209002	Ashish Tyagi	Effect of temperature on damping of composite material	In Progress	Sole	-----	July, 2015
15209004	Anita Kaisth	Vibration analysis of composite material	In Progress	Sole	-----	July, 2015
15209019	Mohit	Mechanical property of composite by DMA	In Progress	Sole	-----	July, 2015
13209004	Rohit Kumar	Durability Properties of Polyester Polymer Concrete Composite containing Fly Ash and Glass Fibre	Completed	Sole	-----	July, 2015

13209001	Gourav	Effect of Silane Coupling agent on the mechanical properties of Polyester polymer concrete composite containing Fly Ash and Glass Fibre	Completed	Sole	-----	July, 2015
13209015	Sunil Kumar Pal	Studies on Curing Conditions of Epoxy Polymer Concrete containing Silica Fume and Glass Fibre	Completed	Sole	-----	July, 2015

**Research Publications (International Conferences)**

S. No.	Title of paper	Conference Name	Place	Dates	Year
1.	Flexural Fatigue of Plain and Glass Fibre Reinforced Polymer Concrete Composites	9 <sup>th</sup> International Concrete Conference	Dundee, Scotland	4-6 July 2016	2016

**SK TIWARI****PhD Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15509008	TANVEER SINGH	WELDING	In Progress	Sole	-----	July, 2015

**M.Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209008	Ashish Gupta	Condition monitoring(gear falt analysis)	In Progress	Sole	-----	July, 2015
15209010	Gopal Chand	Condition monitoring (gear falt analysis)	In Progress	Sole	-----	July, 2015

**SS SANDHU****M.Tech Guidance**

Roll No	Name of Candidate	Title	Status	Sole or joint	Name of joint supervisor	Date of enrolment/ Completed
15209017	Asharam Chauhan	Related to multicylinder diesel engine	In Progress	Sole	-----	July, 2015
15209024	Pushker Singh	Related to multicylinder diesel engine	In Progress	Sole	-----	July, 2015
13209006	Rakesh Kumar	A study on Performance and Emissions characteristics of CI Engine using Green Diesel	Completed	Sole	-----	July, 2015
11209034	Mandeep Singh	Performance and Emissions characteristics of CI Engine Fuelled with Blends of Argemone Biodiesel and Diesel	Completed	Sole	-----	July, 2015

**Research Publications (International and National Journals)**

S.N.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Performance and emission characteristics of an indirect injection (IDI) multi-cylinder compression ignition (CI) engine using diesel/ <i>Argemone maxicana</i> biodiesel blends	<u>RSC Advances</u>	110 (5)	91069-91081	2015	Mandeep Singh, Sarbjot Singh Sandhu
2.	Review and Prospects of Bitter Apricot oil as an alternative feedstock for Biodiesel Production- An Indian perspective.	International Journal of Oil, Gas and Coal Technology	12(4)	425-439	2016	Virender Singh Gurau, Sarbjot Singh Sandhu, Anil Kumar Sarma

4.	Experimental Study on Storage and Oxidation Stability of Bitter Apricot Kernel Oil Biodiesel	Energy and Fuels	30 (10)	8377–8385	2016	Virender Singh Gurau, Mudit Shankar Agarwal, Amit Sarin, and Sarbjot Singh Sandhu*.
5.	Experimental Investigations on Castor Biodiesel as an Alternative Fuel for Single Cylinder Compression Ignition Engine	Environmental Progress & Sustainable Energy			2016	Akash Deep, Sarbjot Singh Sandhu, and Subhash Chander*
6.	Process optimization for biodiesel production from indigenous non-edible Prunus armeniaca oil	Advances in Energy Research	4(3)	189-202	2016	Deepak Singh, Veerendra Kumar, S.S. Sandhu and A.K. Sarma

#### Conferences Publications (International and National)

S. No.	Title of paper	Conference Name	Place	Dates	Year
1	Fuel Induction Techniques For A Hydrogen Fuelled Engine". International Journal of Arts & Sciences	(IJAS) International Conference for Technology and Science at Florence	Florence, Italy	June, 16-19	2015
2	A review on production of biodiesel from Prunus Armeniaca and its physico-chemical characteristics	National Conference on Recent Trends & Innovations in Engineering Science, Technology and Management	India	April, 12	2016
3	Effect on performance and emission characteristics of CI engine using biodiesel produced from high FFA non-edible seed oil (Azadirachta Indica)	National conference on Recent Advances in Bio-energy Research	India	Feb., 25-27	2016

#### Short Term Course organized

Title of course	Name of organizer	Dates	Funded by
Advanced Engine Technologies (With Open ECUs)	Dr. Sarbjot Singh Sandhu, Dr. R.S. Bharg	15th Oct to 16th Oct 2015	TEQIP-II

#### Ongoing Research Projects

Year	Title of the Project	Funding Agency	Total Cost
2012	Comparative Performance Evaluation Emission and Combustion Characteristics of a Compression Ignition Engine using Castor Bio-Diesel	DST	16.67 lacs



## PLACEMENT DETAILS

## Batch 2011-15

Sr.no	Date	Name of the Company	Pakage	Slected Student
1	12&13.8.2014	Oreacle Finance	5.56	Jaspreet Singh
2	19.8.2014	ITC	8.84	Mitesh Dhayal
3		L&T PPO	5	Ayush Singhla
4	2&3.9.2014	TCS	3.18	Anant Pal
				Akash Mehta
				Lakshay Singla
				Bharat Mehta
				Shubham Garg
				Tanvir Mangat
				Ankur Sethi
				Eeman Ahluwalia
				Anuj Gupta
				Rajpal Singh
				Lokesh Gupta
				Bharat Kumar
				Amir Qureshi
				Manoj Kumar
				Atul Rai
				Rohit
				Kanish Middha
5	4&5.09.2014	Infosys	3.15	Mayank
				Sukhbinder Singh
				Vinay Garg
				Gautam
				Hemant Singhania
				Kashish Gupta
				Neeraj Bawa
				Pawan Partap
6	12&13.09.2014	Mu-Sigma	4.5	Sachin Agarwal
				Suresh Kumar Nagi
				Aamir qureshi*
7	10.10.2014	Samsung Engineering	5.33	Tanvir mangat*
				Anant pal*
8	16.10.2014	Maruti	5.5	Aakash Mehta*
				Sachin Agarwal*
				Ankur Sethi*
				SoMESH*
9	9&10.10.2014	IBM	3.15	Anju Gupta
				Bharat Mehta*
				ARUN KASHYAP
				MADHUR
				HARSHIT
				MANEESH
				PURUSHARTHI
				DALJEET
10	20&21.10.2014	Hero Motocorp.	6.5	KESHAV
				SOMESH
				Arun Kumar
11	6&7.11.2014	Tata Motors	5.6	Deepinder Jot Singh
				Nikhil Kumar Kushwaha
				Mayank*
				Santosh Khushwaha
				Prince Goyal
	18.11.2015	Saint Gobain	5.5	Gurjot Singh
				Arshdeep Singh
				Vinay Garg*

12	11.12.2014	Orient Electrical	4.5	Atul Rai*
13	23.12.2014	Subros	3	Anshul garg
				Asgar Ahmad
				Mohd Afaq
				MD Arshad Ali
14	16.01.2015	SKECI	5	Kanish Middha*
15	2.02.2015	Bunge	4.5	Lakshay Singla*
16	22.2.2015	Bhushan Steel Ltd.,	4.56	Vinay Garg*
				Sushil Kumar
				Rajpal Singh*
17	24.02.2015	Honda Cars	4.8	Poly Gera
18	13.02.2015	EvalueServe	4.5	Ajay Singh
19		Ashok Layland	3.5	Surya Teja
20	27.02.2015	United Breweries Ltd.	4.5	Rohit*
21	04.03.2015	DESL Energy	3.57	Ankit Verma
				Ankit Verma*
22	10.03.2015	BPCL	11	Rishab Gaba
				Tejeshwar
				Rahul
				Mohd Afaq*
				ManojDhingra
23	20.01.2015	Indraprastha Gas Limited	5	Tejeshwar Rai Salhan*
				Anuj Gupta*
				Deepak Goyal
				Neeraj Bawa*
				Lakshay Singla
24	10.04.2015	Punj Lloyd	4.5	Vinay Garg
25	29.04.2015	GlaxoSmithKline	5.81	Daljeet Singh*
26	30.04.2015	Jaeco Rebuilding	3.3	Satnam Singh
27	15.05.2015	Delhivery	6	Neeraj Bawa
				Sukhbinder Singh*
				Asgar Ahmad*
				V S Rahul *
				Deepak Sanger
				Asgar Ahmad*
				Lokesh Gupta*
				Eeman Ahluwalia*
28	15.05.2015	Ways2Capital	3.45	hemant Singhania*
				MadHUR*
29	20.05.2015	Siemens	5.5	Atul prashar
				Ankit Badala
				Himanshu Sirka
				Himanshu Sirka*
				Manan Sharma
				Harshit Jain*

**Batch 2012-16**

Sr.no	Date	Name of the Company	Package	Selected Student
1	30.8.2015	Mu-Sigma	4.5	Arpit Jain
				Abhishek Garg
				Dipin Jindal
				Abhishek Kumar
2	06.09.2015	Infosys	3.18	Kumar Saurabh
				Shashi Bhushan Singh

3	13.09.2015	Tata Motors	5.1	Rajat Sharma
				Raghav Sharma
				Pulkit Khandwi
				Vanshaj Kulshreshhta
				Rohit Saini
				Arvindev Singh
				Sanam Sharma
4	13.09.2015	Maruti Suzuki India Limited	5.5	Manpreet Sharma
				Arpit Jain*
				Souparna Satpati
				Ayush Kaushal
5	8 & 9.10.2015	Virtusa	5	Arpit Dhoni
				Vaibhav A
				Chirag Garg
6	18.09.2015	SML ISUZU LTD	6	Ankur Vats
				Navroop Singh
7	23.10.2015	L&T Construction	5.11	Mokarram Iqbal
				Kshitij Kansal*
8	1.11.2015	Lava International Limited	5.5	Gaurav Lasod
9	23&24.11.2015	Hero Moto Corp.	6.5	kshiti Kansal
10	27.11.2015	Ashok Leyland	3.4	Manjinder Singh
11	26.11.2015	Vedanta	7.2	Shubham Goyal
				Shashi Bhushan Singh*
12	1.12.2015	AIS Glass India	3.75	Raghav Mahajan
13	4.12.2015	A.K Vidyamandir	4.25	Simran Juneja
14	9.12.2015	Kota Experts	5	Anurag Sharma
15	11.12.2015	IOLCP	4.2	Akshay Modi
16		D S Group	4	Sidharth Gupta
				Karan Kapoor
17		Aakash Institute	6	Simran Juneja*
18	4.12.2015	Honda Cars	4.8	Suman Kumar
				Shubham Aggarwal
				Nitin Kant
				Sahil Aggarwal
				Prateek Grover
19	22.12.2015	Siemens	5.5	Sidharth Gupta*
				Karan Kapoor*
				Raghav Rathi
				Raghav Mahajan*
20	18&19.1.2016	Jubilant	5	Ankush Kamboj
21		Orient Electric	5	Ankush Kamboj*
22	9.2.2016	Lafarge	5	Shivam Chaurasia
24	22.02.2016	DM Consulting	4.3	Uday Veer Singh
23	27.02.2016	Hindustan Times	4.5	Piyush Himanshu
24	16&17.03.2016	IGL	7	Dipin Jindal*
				Abhishek Garg
				Anurag Sharma *
				Satbir Singh
				Akashay Modi *
25		Sunpharma	5.5	Aneesh
				Anurag
				Ganesh
				Satbir Singh*
26	11.8.2016	Mahindra & Mahindra	5.75 Lac	Mr. Brajendra Singh
				Rakesh Kumar

**GATE-2016**

NAME	ROLL NO	RANK
Rajat sharma	12109064	75
Brajendra Vikram Singh	12109018	17916
Navroop Singh	12106059	9800
ankush Kumar kamboj	12109008	24000
Kshitij Kansal	12102035	336
VIKAS KUMAR SHUKLA	12109084	7000
Sanam Sharma	12109070	843

**ACHIEVEMENTS OF STUDENTS****BAJA SAE INDIA 2016 Achievements:**

- Lightest ATV (138.5 kg) in the history of BAJA SAE INDIA
- Top among all IIT's and NIT's that have participated in the event
- Lightest, fastest and strongest ATV among all 150 participating colleges.
- Winner of Raftaar, Hill Climb and Built Quality Award
- Won total prize money of ₹ 2.6 lacs
- Specially acknowledged by Mr. **Pawan Goenka** (Executive Director, Mahindra & Mahindra) and Mr. **Sudhir Gupte** (Convener, BAJA SAE INDIA)

## DEPARTMENT OF TEXTILE TECHNOLOGY (TT)

## DEPARTMENT FACULTY

Name	Academic / Professional Qualification	Post Held	Specialization
Dr. S K Sinha	Ph.D	HOD	Yarn Spinning, Advances Spinning Processes
Dr. S Ghosh	Ph.D	Professor	Modelling of weaving ,knitting and stitching process, Fabric Structure Property Relationship, Heat transfer and filtration
Dr. J N Chakraborty	Ph.D	Professor	Chemical Processing Pretreatment Colouration and Finishing Quality Assurance and Process Control
Dr. A. Mukhopadhyay	Ph.D	Professor	Fabric structure - property relationship Seam characterization, Aerosol Filtration, Statistical Methods and Design of Experiment
Dr. A Chatterjee	Ph.D	Associate Professor	Fibre Science, Composites, Comfort Properties of Textiles, Conductive Textiles
Dr. N Bhowmick	PhD	Associate Professor	Short staple Spinning, Textile Testing Medical Application of Textiles, Textile for Water Filtration
Mr. M D Roy	M Tech	Associate Professor	Fabric Manufacture, Quality Control, Marketing Management
Dr. A K Choudhary	PhD	Associate Professor	Garment Manufacturing, Pulse Jet Filtration
Dr. Vinay Midha	PhD	Associate Professor	Needle-punch nonwovens, Sewing thread-fabric interaction, Project Management
Dr. Monica Sikka	Ph D	Associate Professor	Medical Textiles, Knitting Technology
Dr. K V P Singh	PhD, PDF	Assistant Professor	Garment Comfort

## Academic Programmes

- B Tech in TextileTechnology
- M Tech in TextileTechnology
- Ph.D programme in TextileTechnology

## International Journals

- Ghosh, Subrata**, Prabhakara Chary, and Sukumar Roy. "Development of Warp Yarn Tension During Shedding: A Theoretical Approach." Journal of The Institution of Engineers (India): Series E 96.2 (2015): 107-124..
- Kumar, Pawan, **Sujit Kumar Sinha**, and **Subrata Ghosh**. "Moisture management behaviour of modified polyester wool fabrics." Fashion and Textiles 2.1 (2015): 1-17.
- Sikka, M. P.**, **S. Ghosh**, and **A. Mukhopadhyay**. "Mathematical modeling to predict the sub-bandage pressure on a conical limb for multi-layer bandaging." Medical engineering & physics (2016).
- Kumar, Pawan, S. K. Sinha, and Subrata Ghosh. "Estimation of pore size and porosity of modified polyester/PVA blended spun yarn." Fibers and Polymers 17.9 (2016): 1489-1496.
- Mukhopadhyay, Arunangshu**, and Harshad S. Bawane. "Emission of Fine Particles and Ageing Behavior of PTFE Finished Filter Media during Industrial Pollution Control." Environment and Pollution 4.4 (2015): 58.
- Mukhopadhyay, Arunangshu**, Vipul Pandit, and Kamal Dhawan. "Effect of high temperature on the performance of filter fabric." Journal of Industrial Textiles 45.6 (2016): 1587-1602.
- Ray, N. C., **A. Mukhopadhyay**, and **V. K. Midha**. "Response of Slub Characteristics on Tensile Properties of Injected Slub Yarn." Journal of The Institution of Engineers (India): Series E 97.1 (2016): 47-53.
- Chavhan, Md Vaseem, and **Arunangshu Mukhopadhyay**. "Fibrous Filter to Protect Building Environments from Polluting Agents: A Review." Journal of The Institution of Engineers (India): Series E 97.1 (2016): 63-73.

9. Ray, Nemai Chandra, **Arunangshu Mukhopadhyay**, and **Vinay Kumar Midha**. "Impact of Abrasion on Mass Loss and Surface Appearance of Woven Fabrics Made with Injected Slub Yarn in Weft." *Journal of The Institution of Engineers (India): Series E* 97.2 (2016): 99-106.
10. **Midha, Vinay**, S. Suresh Kumar, and M. Nivas Kumar. "Investigation on permeability and moisture management properties of different denim fabrics after repeated laundering." *The Journal of The Textile Institute* (2016): 1-8.
11. **Midha, Vinay Kumar**, and S. Suresh Kumar. "Effect of seam angle on seam puckering in lightweight woven fabrics." *The Journal of The Textile Institute* 106.4 (2015): 395-401.
12. **Midha, Vinay Kumar**, ShivKumar Hiremath, and Vaibhav Gupta. "Optimizing aqua splicer parameters for lycra- cotton core spun yarn using Taguchi method." *Journal of The Institution of Engineers (India): Series E* 96.2 (2015): 131-138.
13. Kaur, Amandeep, **J. N. Chakraborty**, and Kashyap Kumar Dubey. "Enzymatic Functionalization of Wool for Felting Shrink-Resistance." *Journal of Natural Fibers* 13.4 (2016): 437-450.
14. Amandeep Kaur and **J N Chakraborty**, 'Influence of pH in bromelain treatment on wool for anti-felting and reduced pilling behaviour: An objective assessment approach', *Journal of Textiles (Hindwai)*, Volume 2015, Article ID 230879, 1-7
15. Dhiman, G. & **Chakraborty, J. N.** (2015). "Antimicrobial performance of cotton finished with triclosan, silver and chitosan". *Fashion and Textiles*, 2 (13), December, pp 1-14.
16. Amandeep Kaur, **J N Chakraborty** and Kashyap Dubey 'Functionalisation of wool for felting shrink-resistance', *Journal of Natural Fibres*, 13:4 (2016), pp. 437-450, DOI: 10.1080/15440478.2015.1043686
17. Amandeep Kaur and **J N Chakraborty**, 'Controlled eco-friendly shrink-resist finishing of wool using bromelain', *Journal of Cleaner Production*, 108 (2015), pp 503-513
18. Shelly Khanna, Swati and **J N Chakraborty**, 'Performance assessment of Fragrance finished cotton with cyclodextrin assisted anchoring hosts, *Fashion & Textiles*, 2 (1), October, 2015, 2-1
19. **Arobindo Chatterjee**, B. Manivannan & Subhankar Maity (2016): Electroconductive Palmyra Fibers By In Situ Polymerization of Pyrrole, *Journal of Natural Fibers*, DOI: 10.1080/15440478.2016.1193082
20. Pratibha Singh, **Arobindo Chatterjee**, and **Subrata Ghosh**, Vertical wicking tester for monitoring water transportation behavior in fibrous assembly, *Review of Scientific Instruments* 87, 105114 (2016); doi: 10.1063/1.4964469.
21. **Arobindo Chatterjee**, Pratibha Singh and **Subrata Ghosh**, Application of Transistors in Textiles: Monitoring Water Transportation Behaviour in Fibrous Assemblies, *Journal of The Institution of Engineers (India): Series E*, 2016, DOI 10.1007/s40034-016-0088-2.
22. Himansu Shekhar Mohapatra, **Arobindo Chatterjee** and Pramod Kumar, Characterization of Fibrous assembly from Lime Peel Extract, *International Journal of Pharmacology, Phytochemistry and Ethnomedicine* Online: 2015-12-02 ISSN: 2297-6922, Vol.1, pp27-36, doi:10.18052/www.scipress.com/IJPPE.1.27
23. Himansu Shekhar Mohapatra, **Arobindo Chatterjee** and Pramod Kumar, Characterization of Film for Medical Textiles Application, *Tekstilec*, 2015, letn. 58(4), str. 268-273, DOI: 10.14502/Tekstilec2015.58.268-273.

#### International Conferences

1. Subhankar Maity and **Arobindo Chatterjee**, Adsorption of Polypyrrole onto Textile Surface at Liquid Solid Interface by In-Situ Polymerization, *International Conference on Redefining Textiles Cutting Edge Technology of the Future (RTCT 2016)*, April 8-10, 2016, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab-144011, INDIA (Oral). ISBN 13: 978-93-525498-0-1, page 28.
2. **Arobindo Chatterjee** and Subhankar Maity, Non-metallic/polymeric electro-conductive textiles for novel applications, *International Conference on Advanced Materials for Power Engineering*, 11-13 December, 2015, Mahatma Gandhi University, Kottayam, Kerala, India (Oral). Book of abstract, IL40, PP 40.
3. Effect of Process Parameters on Tensile Properties of Threads during High Speed Lockstitch Sewing, **Vinay Midha**, *International Conference on Manufacturing and Textile Engineering*, Dubai, May 2015.
4. Medical textiles to prevent pressure ulcers in bedridden and elderly patients, **Monika Sikka**, Hyder Khan, *Redefining Textiles: Cutting Edge Technology Of The Future (Rtct-2016)*, Jalandhar, 2016.
5. Neural Network Model for Predicting Sub Bandage Pressure of High Compression Bandages, **Monika Sikka, Mukhopadhyay A**, TBIS Melbourne, Australia 2016.
6. Dyeing of cotton with sulphur dyes using alkaline enzymes as alternate reducing systems, **J N Chakraborty** and Priyadarshi Jaruhar, *AATCC International Conference Williamsburg, Virginia, US*, 2016.
7. "Study and characterization of the emitted particles in pulse jet filtration" **A K Chaudhary, A Mukhopadhyay**, *Filtech -2015*, Cologne, Germany
8. Emission of Fine Particles and Ageing Behaviour of PTFE Finished Filter Media during Industrial Pollution Control, **A Mukhopadhyay** and Harshad S. Bawane 16th World Conference AUTEX 2016. Ljubljana, Slovenia, 08th to 10th June 2016.

9. Effect of Fabric Type and Dust Concentration on Filtration Performance, **A Mukhopadhyay** and Soumya Ranjan Swain, Filtech -2015, February 24-26, 2015 Cologne, Germany.
10. New test rigs for characterizing filter media. **A Mukhopadhyay** and **A K Choudhary**, 2015 Cologne, Germany. February 24-26, 2015.

#### Workshops organized:

Apparel Product Design, 11-13 Feb 2016, organized under TEQIP-II, coordinated by Dr. K V P Singh

#### Workshops Attended: --

#### Short Term Course organized: --

#### Short term Course Attended:

A MUKHOPADHYAY, Attended TEQIP II Short-Term Course on "Nation-Wide Program for Faculty Development towards Effective Teaching and Pedagogical Practices Phase I" from 9th to 11th of October, 2015 at The Centre for Educational Technology, Indian Institute of Technology Kharagpur.

#### Conference Attended:

1. **Arobindo Chatterjee**, International Conference on Redefining Textiles Cutting Edge Technology of the Future (RTCT 2016), April 8-10, 2016, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab-144011, INDIA
2. **Arobindo Chatterjee** International Conference on Advanced Materials for Power Engineering, 11-13 December, 2015, Mahatma Gandhi University, Kottayam, Kerala, India.
3. **Vinay Midha**, International Conference on Manufacturing and Textile Engineering, Dubai, May 2015.
4. **Monika Sikka** Redefining Textiles: Cutting Edge Technology Of The Future (Rtct-2016), Jalandhar, 2016.
5. **Mukhopadhyay A**, TBIS Melbourne, Australia 2016.
6. **J N Chakraborty**, AATCC International Conference Williamsburg, Virginia, US, 2016.
7. **A K Chaudhary**, Filtech -2015, February 24-26, Cologne, Germany
8. **A Mukhopadhyay**, 16th World Conference AUTEX 2016, Ljubljana, Slovenia, 08th to 10th June 2016.
9. **A Mukhopadhyay**, Filtech -2015, February 24-26, 2015 Cologne, Germany.

#### 1. Ongoing Research Projects

Year	Title of the Project	Funding Agency	Total Cost	Name of the PI
2011-2015	Design of Pulse-jet Filtration Apparatus, Financial Assistance from Instrument Development Division, Department of Science & Technology, GOI.	DST	Rs 52.28 lac	Dr A Mukhopadhyay
2016	Designing of Fabric Tensile Impact Testing Instrument	DST	Rs 36.00 lacs	Dr A Mukhopadhyay
2015	Design of instrument for positive thread feeding in sewing machine' sanctioned by Department of Science and Technology, GOI.	DST	Rs 22.11 lacs	Dr V Midha

**COMPUTER SCIENCE AND ENGINEERING**  
**DEPARTMENTAL SUMMARY**

No. of Journal publications(International)	47	No. of PhD completed	02
No. of Journal publications(National)	--	No. of new PhD students enrolled	01
No. of International Conferences attended	12	No. of New PG students completed	48
No. of National Conferences attended		No. of New PG students enrolled	28
No. of STC/ Workshop/ courses attended	04	No. of faculty members enrolled for higher qualifications	--
No. of STC/ Workshops conducted	02	No. off faculty members upgraded qualifications	01
No of conferences conducted	--	Any other important information	--
No of expert talks delivered by faculty	8		
No. of expert talks organized	2		

**1. Faculty**

Sr. No.	Name	Position	Qualifications
1	Prof. Ajay K. Sharma	Professor (On Lien)	Ph D
2	Prof. A. L. Sangal	Professor	Ph D
3	Dr Harsh K Verma	Associate Professor & Head (CC)	Ph D
4	Dr Renu Dhir	Associate Professor & Head (CS)	Ph D
5	Dr Geeta Sikka	Associate Professor	Ph D
6	D K Gupta	Associate Professor	M. Tech
7	Rahul Aggarwal	Lecturer (Selection Scale)	B.Tech.
8	Dr. Rajneesh Rani	Assistant Professor	Ph D
9	Dr. Paramvir Singh	Assistant Professor	Ph D

**2. Academic Programmes****Undergraduate Programmes**

- B. Tech. in Computer Science and Engineering

**Postgraduate Programmes**

- M. Tech. (Full Time) in Computer Science and Engineering
- M. Tech. (Full Time) in Information Security
- M. Tech. (Part Time) in Computer Science and Engineering
- PhD (Full Time) in Computer Science and Engineering
- PhD (Part Time) in Computer Science and Engineering

**3. LISTOF LABORATORIES**

- Information and Security Lab under ISEA by MCIT, New Delhi.
- Operating Systems Laboratory
- RDBMS & Programming Language Laboratory
- Data Communication & Computer Networks Laboratory
- Microprocessor ,Digital Circuit & Logic Design Laboratory
- Wireless Sensor Networks Laboratory
- Embedded System Laboratory
- Computer Graphics Laboratory
- Computer Programming Laboratory
- Project Lab. For M Tech.



- Wireless and Optical Networks Laboratory
- Microprocessor Laboratory

#### 4. RESEARCH AND DEVELOPMENT ACTIVITIES (Faculty wise)

##### Faculty 1: Dr. Ajay K Sharma

##### Ph D guidance

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	09403004	Ms. Deepti Gupta	Performance Investigations and Design of Energy Efficient Routing Protocols for Wireless Sensor Networks	Completed	Sole	-	2015
2	09403034	Ms. GausiaQazi	Impact of Laser Originating Impairments and Design of Improved Laser Source for IM-DD SCM Lightwave Systems	Submitted	Joint	Dr. Moin Uddin	On going
3	09403031	Mr. NischayBahl	Impact of Laser Originating Impairments and Design of Improved Laser Source for IM-DD SCM Lightwave Systems	Submitted	Joint	Dr Harsh K Verma	On going
4	11403033	Ms. Nonita	Optimized Hybrid Algorithm for Heterogeneous Wireless Sensor Network	On going	Sole	-	On going
5	12403001	Amandeep Kaur Soahal	Design and Development of an Optimized Energy Efficient Algorithm for Wireless Sensor Networks	On going	Joint	Dr. Neetu Sood	On going
6	12403002	Parteek Gupta	Performance Evaluation and Optimization of Hybrid Protocols For Wireless Sensor Networks	On going	Sole	-	On going

##### Research Publications (International journals)

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Asymptotic multicast throughput analysis and energy efficiency in WSN under double Nakagami fading channel using Extreme value theory	International Journal of Electronics and Communication SCI Indexed – Thomson Reuters	69(9)	1346-1353	2015	Bahl, Nischay, <b>Ajay K. Sharma</b> , and Harsh K. Verma
2	On the Energy Utilization of WSN communications using Space-Time Block Coding over BPSK and M-QAM modulations	Wireless Information Networks – SPRINGER	22(3)	180-187	2015	Bahl, Nischay, <b>Ajay K. Sharma</b> , and Harsh K. Verma
3	Cost analysis of hybrid adaptive routing protocol for heterogeneous wireless sensor network	Sadhana – SPRINGER SCI Indexed – Thomson Reuters	41(3)	283-288	2016	Sharma, Nonita, <b>Ajay K. Sharma</b>
4	On the Energy Efficiency of WSN Communications Operating Under Non-coherent M-FSK and M-QAM Modulations	Wireless Information Networks – SPRINGER	23(3)	222-230	2016	Bahl, Nischay, <b>Ajay K. Sharma</b> , and Harsh K. Verma

**Faculty 2: Dr. A L Sangal****Ph D guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / completed
1	09403003	Mr. Sandeep Mehmi	Simulation Modeling and Security Analysis of Cloud Computing of Smart Grid of India using Artificial Neural Networks	On going	Joint	Dr Harsh K Verma	2016
2	09403033	Mr. Sunil Gupta	A Novel Authentication Protocol Against Malicious Attack in Wireless Sensor Networks	Submitted	Joint	Dr Harsh K Verma	2015
3	10403001	Mr. Abhinav Bhandari	A Mitigation Framework for Defending Against Flooding Based Distributed Denial of Service Attacks	On going	Joint	Dr Krishan Kumar	On going
4	10403003	Ms. Ramanpreet Kaur	Distributed Security Architecture for Distributed denial of Service Defense	On going	Joint	Dr Krishan Kumar	On going
5	14503001	Mr. Himanshu	Computer Network	On going	Joint	Dr Harsh K Verma	On going

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	"Destination Address Entropy Based Detection and Traceback Approach against Distributed Denial of Service Attacks."	International Journal of Computer Network and Information Security	8	9-20	2015	Abhinav Bhandari, <b>A. L. Sangal</b> , and Krishan Kumar.
2	"Characterizing flash events and distributed denial-of-service attacks: an empirical investigation."	Security and Communication Networks	9	2222-2239	2016	Abhinav Bhandari,, <b>A. L. Sangal</b> , and Krishan Kumar.
3	Modeling and simulation of adaptive Neuro-fuzzy based intelligent system for predictive stabilization in structured overlay networks	Engineering Science and Technology, an International Journal	In press	-	2016	Ramanpreet Kaur, <b>Amrit Lal Sangal</b> , Krishan Kumar
4	"Economic Viability of Smart Grid Cloud in India."	International Journal of Grid and Distributed Computing	9.2	61-72	2016	Sandeep Mehmi, <b>Amrit Lal Sangal</b> , Harsh K Verma, Kulwinder Parmar

**Research Publications (Conferences)**

S.No	Title of paper	Conference Name	Volume Number	Page No	Publication year	Authors as on Article
1.	"Comparative Analysis of Cloudlet Completion Time in Time and Space Shared Allocation Policies During Attack on Smart Grid Cloud."	Procedia Computer Science	94	435-440.	2016	Sandeep Mehmi, Harsh K. Verma, and <b>A. L. Sangal</b> .

**Faculty 3: Dr Renu Dhir****Ph D guidance**

<b>S. No</b>	<b>Roll No</b>	<b>Name of Candidate</b>	<b>Title</b>	<b>Status</b>	<b>Sole or Joint candidate</b>	<b>Name of Joint supervisor</b>	<b>Date of enrolment / Completed</b>
1	09403032	Ms. Rajneesh Rani	Multi-level script identification for printed documents	Completed	Joint	Dr. G S Lehal	2015
2	11403001	Mr. VineetMehan	A novel multi-quadrant integrated and secure approach of re-watermarking and fingerprinting for colored digital images	Submitted	Joint	Dr. Yadwinder Singh Brar	On going
3	12403031	Ms. Kawaljeet	Software Modularization Using Nature Inspired Algorithms	On going	Joint	Dr. Paramvir Singh	On going
4	11403031	Ms. Pooja	Network Security	On going	Sole	-	On going
5	11403032	Ms. Taqdir	Image processing for face recognition	On going	Sole	-	On going
6	11403034	Ms. Tanvi	Network Security	On going	Sole	-	On going
7	13503004	Rahul Mallik	Image processing	On going	Joint	Dr. S K mittal	On going
8	13803004	Ms. Gurdipkaur	Framework to detect, analyze and report zero-day malware with minimum false positives	On going	Joint	Dr. Maninder	On going
9	14503002	Ishan Kumar	Natural language processing	On going	Sole	-	On going
10	14503005	Ms. Amandeep Kaur	Image processing	On going	Sole	-	On going

**M Tech guidance**

<b>S. No</b>	<b>Roll No</b>	<b>Name of Candidate</b>	<b>Title</b>	<b>Status</b>	<b>Sole or Joint</b>	<b>Name of Joint supervisor</b>	<b>Date of enrolment / Completed</b>
1	11203032	Ashish Kalia	A novel artificial neural network based binarization technique for historical document images	Completed	Sole	-	15.01.2016
2	11203047	Rajdeep Kaur	Medical image registration by using edge correlative deviation index on GPU	Completed	Sole	-	09.11.2016
3	12203033	BhavnaBakhetia	Sentiment analysis and senti word dictionary for movies review	Completed	Sole	-	15.01.2016
4	12203041	PalviJassi	Performance enhancement of Vanets using a novel geographical clustering scheme for efficient routing	Completed	Sole	-	15.01.2016
5	12203039	Mukesh Kumar	Binarization of degraded document images using morphological operators	Completed	Sole	-	15.01.2016
6	11203042	Navjot Kaur	Detection of black hole node in wireless sensor networks using DSR protocol	Completed	Sole	-	17.08.2015

7	11203043	Navpreet Kaur	Estimation of heart health status based on diagnostic parameters	Completed	Sole	-	3.08.2015
8	13203001	Rahul Kumar	Pattern analysis and machine intelligence on semi-supervised kernel mean shift clustering With pairwise constraints: a kernel approach	Completed	Sole	-	3.08.2015
9	13203010	Lovely Kumari	An image fusion technique for multi focus images in discrete cosine transform domain	Completed	Sole	-	On going
10	13223006	TabrejAhmad Khan	Enhanced steganography technique using extended xor algorithm	Completed	Joint	Ms. Rajneesh Rani	0.08.2015
11	13203009	YashpalJitarwal	An enhanced technique for classification of fruits using shape color and texture feature	Completed	Sole	-	3.08.2015
12	13203005	Manoj Kumar	Enhancement of AodvZigbee mesh routing topology and performance evaluation based on clustering	Completed	Sole	-	7.08.2015

#### Research Publications (International journals)

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	A review of metaphase chromosome image selection techniques for automatic karyotype generation	Medical & Biological Engineering & Computing	-	1-11	2015	TanviVermaRenuDhir
2.	A Review of Metaphase Chromosome Image Selection Techniques for Automatic Karyotype Generation	Journal of International Federation for Medical and Biological Engineering	-	-	2015	TanviVermaRenuDhir
3.	A Novel Elliptic Curve Cryptography Based Approach of Re-Watermarking for Cheque Transaction System	<i>Journal of Discrete Mathematical Sciences &amp; Cryptography, Taylor &amp; Francis</i>	18(3)	219-235	2015	V. Mehan RenuDhir Y. S. Brar
4.	Hybrid Black Hole Algorithm for Bi-Criteria Job Scheduling on Parallel Machines	International Journal of Intelligent Systems and Applications	-	-	2015	KawalJeet RenuDhir Paramvir Singh
5.	Software Architecture Recovery using Genetic Black Hole Algorithm	ACM SIGSOFT Software Engineering Notes	40(1)	1-5	2015	K Jeet RenuDhir
6.	A Multi-quadrant Integrated and Secure Model of Multiple Watermarking	<i>Journal of open Source Development</i>	1(2)	15-28	2015	V. Mehan RenuDhir Y. S. Brar
7.	A Review of Metaphase Chromosome Image Selection Techniques for Automatic Karyotype Generation	Journal of International Federation for Medical and Biological Engineering	-	-	2015	TanviVermaRenuDhir

**Faculty 4: Dr Harsh K Verma****Ph D guidance**

<b>S. No</b>	<b>Roll No</b>	<b>Name of Candidate</b>	<b>Title</b>	<b>Status</b>	<b>Sole or Joint candidate</b>	<b>Name of Joint supervisor</b>	<b>Date of enrolment / Completed</b>
1	13503002	Ms. Aruna Malik	Design and Analysis of Text and Image based Steganography Technique	On going	Joint (FT)	Dr. GeetaSikka	On going
2	13503003	Mr. SaurabhNamdev	Information Security	On going	Joint	Dr. GeetaSikka	On going
3	13803005	Ravindra Singh Kumar	Information Security	On going	Sole	-	On going
4	13803006	Balraj Singh	Computer Network	On going	Joint	Dr H S Johal	On going
5	14503001	Mr. Himanshu	Computer Network	On going	Joint	Dr. A L Sangal	On going
6	14803001	Mr. Manoj Kumar	Computer Network	On going	Joint	Dr. RenuDhir	On going
7	14803002	Mr. Naveen Bilandi	Computer Network	On going	Joint	Dr. GeetaSikka	On going

**M Tech guidance**

<b>S. No</b>	<b>Roll No</b>	<b>Name of Candidate</b>	<b>Title</b>	<b>Status</b>	<b>Sole or Joint candidate</b>	<b>Name of Joint supervisor</b>	<b>Date of enrolment / Completed</b>
1	11203035	Gurjit Kaur	Data hiding using pvd and 3D playfair cipher	Completed	Sole	-	19.08.2015
2	11203033	Bhavneesh Sohal	A HMM integrated SVM model for hindi speech recognition	Completed	Sole	-	19.08.2015
3	13203020	Manish Jain	Amendment of route repair in Manet by the virtue of routing relinquishment	Completed	Sole	-	24.08.2015
4	13203013	Pawan Kumar	Smart personality prediction classification system for judging the career of a person through graphology	Completed	Sole	-	4.08.2015
5	13223008	Sandeep Mehra	Assortment and correlation among distinct routing protocols in IEEE 802.11 based Manet using ftp	Completed	Sole	-	19.08.2015
6	13203007	Suresh	Improving the spatial complexity of huffmancoding using preorder sucesor technique	Completed	Sole	-	4.08.2015
7		Mukesh Kumar	Binarization of degraded document images using morphological operators	Completed	Sole	-	

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	"A Modified Pixel-Value Differencing Image Steganographic Scheme with Least Significant Bit Substitution Method"	International Journal of Image, Graphics and Signal Processing	7.4	68-74	2015	Aruna Mallik, Geeta Sikka, and <b>Harsh K. Verma.</b>
2.	"Asymptotic multicast throughput analysis and energy efficiency in WSN under double Nakagami fading channel using Extreme value theory."	AEU-International Journal of Electronics and Communications	69.9	1346-1353	2015	Nischay Bahl, Ajay K. Sharma, <b>Harsh K Verma</b>
3	"On the Energy Utilization of WSN communications using Space-Time Block Coding over BPSK and M-QAM modulations."	International Journal of Wireless Information Networks	22.3	180-187	2015	Nischay Bahl, Ajay K. Sharma, <b>Harsh K Verma</b>
4	"A high capacity text steganography scheme based on LZW compression and color coding"	Engineering Science and Technology, an International Journal	In press	-	2016	Aruna Mallik, Geeta Sikka, and <b>Harsh K. Verma.</b>
5	"A high payload data hiding scheme based on modified AMBTC technique."	Multimedia Tools and Applications	-	1-17	2016	Aruna Mallik, Geeta Sikka, and <b>Harsh K. Verma</b>
6	"On the Energy Efficiency of WSN Communications Operating Under Non-coherent M-FSK and M-QAM Modulations."	International Journal of Wireless Information Networks	23.3	222-230.	2016	Nischay Bahl, Ajay K. Sharma, <b>Harsh K Verma</b>
7	"Economic Viability of Smart Grid Cloud in India."	International Journal of Grid and Distributed Computing	9.2	61-72	2016	Sandeep Mehmi, Amrit Lal Sangal, <b>Harsh K Verma</b> , Kulwinder Parmar
8	"Analysis and design of protocol for enhanced threshold proxy signature scheme based on RSA for known signers."	Wireless Personal Communications	80.3	1281-1345.	2015	Raman Kumar, <b>Harsh Kumar Verma</b> , Renu Dhir.
9	"An image interpolation based reversible data hiding scheme using pixel value adjusting feature."	Multimedia Tools and Applications	-	1-22	2016	Aruna Mallik, Geeta Sikka, and <b>Harsh K. Verma</b>
10	"A High Capacity Data Hiding Scheme Using Modified AMBTC Compression Technique"	International Arab Journal of Information Technology	Accepted	-	-	Aruna Malik, Geeta Sikka, and <b>Harsh K Verma</b>

**Research Publications (Conferences)**

S.No	Title of paper	Conference Name	Volume Number	Page No	Publication year	Authors as on Article
1	"A new framework for cloud storage confidentiality to ensure information security"	Symposium on Colossal Data Analysis and Networking (CDAN)	-	-	2016	Deepak Singh, <b>Harsh K. Verma</b>
2	"Hash_RC6—Variable length Hash algorithm using RC6."	International Conference on Advances in Computer Engineering and Applications (ICACEA),	-	-	2015	Aggarwal, Kirti, and <b>Harsh K. Verma.</b>

3	"Comparative Analysis of Cloudlet Completion Time in Time and Space Shared Allocation Policies During Attack on Smart Grid Cloud."	Procedia Computer Science	94	435-440.	2016	Sandeep Mehmi, Harsh K. Verma, and A. L. Sangal.
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**Faculty 5: Dr Geeta Sikka****Ph D guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	13503002	Ms. Aruna Malik	Design and Analysis of Text and Image based Steganography Technique	On going	Joint (FT)	Dr. Harsh K Verma	On going
2	13503003	Mr. Saurabh Namdev	Information Security	On going	Joint (FT)	Dr. Harsh K Verma	On going
3	13803003	Ms. Aarti	Software Engineering	On going	Sole	-	On going
4	13803007	Mr. Pushpendra Rajput	Software Engineering	On going	Sole	-	On going
5	14503003	Mr. Utsav Upadhyay	Big Data	On going	Sole	-	On going
6	15503001	Urvashi	Cyber Security Using Data Mining	On going	Sole	-	On going

**M Tech guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	13203024	Sunil Kumar Suman	Hierarchical agglomerative clustering using merge sort and binary merge techniques	Completed	Sole	-	19.08.2015
2	13223004	Vikas Singh	A hybrid model for noise removal in social media mining and its comparative analysis with logistic regression and neural network	Completed	Sole	-	21.08.2015
3	13203014	Monika	Particle swarm optimization based hierarchical agglomerative clustering for software modularization	Completed	Joint	Dr. Paramvir Singh	18.08.2015
4	13203011	Gaurav Ganesh Dhakar	An improved technique to distinguish or match any pair of time series data	Completed	Sole	-	31.08.2015
5	13203017	Akash Kumar Tyagi	Enhanced locality sensitive hashing by reusing hash function calculation and cache conscious data structure	Completed	Sole	-	31.08.2015
6	13203021	Shallu Sarvari	Efficient and Scalable Collection of Dynamic Metrics using Map Reduce	Completed	Joint	Dr. Paramvir Singh	31.08.2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	A Modified Pixel-Value Differencing Image Steganographic Scheme with Least Significant Bit Substitution Method	International Journal of Image, Graphics and Signal Processing	7(4)	68-74	2015	Aruna Malik, <b>GeetaSikka</b> , and Harsh K Verma
2.	An investigation on the effect of cross project data for prediction accuracy.	International Journal of System Assurance Engineering and Management	7(1)	1-26	2016.	Aarti, <b>GeetaSikka</b> , RenuDhir
3	A High Payload Data Hiding Scheme Based on Modified AMBTC Technique	Multimedia tools and applications, Springer, Impact Factor 1.35 (Accepted)	-	-	-	Aruna Malik, <b>GeetaSikka</b> , and Harsh K Verma
4	A High Capacity Data Hiding Scheme Using Modified AMBTC Compression Technique	International Arab Journal of Information Technology, Impact Factor 0.58 (Accepted)	-	-	-	Aruna Malik, <b>GeetaSikka</b> , and Harsh K Verma
5	An Image Interpolation based Reversible Data Hiding Scheme Using Pixel Value Adjusting Feature	Multimedia tools and applications, Springer, Impact Factor 1.35 (Accepted)	-	-	-	Aruna Malik, <b>GeetaSikka</b> , and Harsh K Verma
6	A High Capacity Text Steganography Scheme based on LZW Compression and Color Coding	Engineering Science and Technology an International Journal, Elsevier (Accepted)	-	-	-	Aruna Malik, <b>GeetaSikka</b> , and Harsh K Verma

**Research Publications (Conferences)**

S.No	Title of paper	Conference Name	Volume Number	Page No	Publication year	Authors as on Article
.	Efficient and Scalable Collection of Dynamic Metrics using MapReduce.	Asia-Pacific Software Engineering Conference (APSEC). IEEE, 2015	-	127-134	2015	Shallu Sarvari, Paramvir Singh, <b>GeetaSikka</b>

**Faculty 6 : Sh. D K Gupta****M Tech guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	13223005	Deepika Kamboj	Efficient scalar multiplication over elliptic curve	Completed	Sole	-	31.08.2015
2	13203018	ParulNabiyal	Reducing buffer overhead in a reliable multicasting protocol for manets	Completed	Sole	-	21.08.2015
3	13203026	NiluKumari	Improved teen protocol in wsn	Completed	Sole	-	21.08.2015
4	13223001	Anshu Chauhan	Detection of packet dropping nodes in manet using DSR protocol	Completed	Sole	-	1.08.2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Detection of Packet Dropping Nodes in MANET using DSR Routing Protocol	International Journal of Computer Applications	123 (7)		2015	Chauhan, Anshu, <b>D. K. Gupta</b> , and Manoj Kumar Sah



2	Improved TEEN Routing Protocol with Multi Hop and Multi Path in Wireless Sensor Network	International Journal of Computer Applications	129 (7)	11-16	2015	Kumari, Nilu, D. K. Gupta, and Manoj Kumar
3	An improved Halftone Visual Secret Sharing Scheme for gray-level images based on error diffusion in forward and backward direction	2015 Fifth International Conference on Advanced Computing & Communication Technologies IEEE.	-	125-130	2015	Kamboj, Aman, and <b>D. K. Gupta</b>
4	Energy Efficient Routing Protocol for Wireless Sensor Networks with Multiple Sinks	Advances in Computing and Communication Engineering (ICACCE), 2015 Second International Conference on. IEEE, 2015	-	84-88	2015	Sah, Manoj Kumar, <b>D. K. Gupta</b> , and Pooja Rani

**Faculty 7: Dr. Rajneesh Rani****M Tech guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	13203015	Visakh R	An effective approach for image inpainting using combined method	Completed	Sole	-	31.08.2015
2	13203003	NeetuKumari	Offline signature verification and forgery detection using contour based features	Completed	Sole	-	17.08.2015
3	13223009	Manoj Kumar	Writer identification for Devanagari script	Completed	Sole	-	20.08.2015
4	13203012	Ms. Deepika	New lattice based and metric based analysis for class cohesion	Completed	Sole	-	17.08.2015
5	13203016	Pawan Kumar Mangal	Offline signature verification based on statistical feature using signature length	Completed	Sole	-	21.08.2015
6	13223002	BanavathRavi nder	An efficient method for reversible data hiding in encrypted images	Completed	Sole	-	21.08.2015
7	14203018	JagmohanSa hu	Words and characters segmentation for handwritten devanagari script	Completed	Sole	-	
8	14203005	MonuVerma	Significant Secret image sharing Based on Boolean operation	Completed	Sole	-	
9	14223002	Rajat Kumar Mehta	Pattern Generation and Symmetric-key encipher	Completed	Sole	-	
10	14203024	PranaySakha re	Identification of Olfactory Receptors using a parametric Model	Completed	Sole	-	

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1	Strong Threshold Secret Image Sharing Base on Boolean Opertion	International Conference on ComputingCommunication and Automation (ICCCA 2016)-IEEE-2016	-	--	2016	MonuVerma <b>Dr Rajneesh Rani</b>
2	Pattern Generation and Symmetric Key Block CIPHERING Using Cellular Automata	2016 Intl. Conference on Advances in Computing, Communications and Informatics (ICACCI), Sept. 21-24, 2016, Jaipur, India,IEEE-2016	-	2723-2726	2016	Rajat Kumar Mehta <b>Dr Rajneesh Rani</b>

**Faculty 8: Dr Paramvir Singh****Ph D guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	13503001	Mr. Karanpreet Singh	Network Security	On going	Joint	Krishan Kumar	On going
2	13803002	Mr. Arvind Mahindru	Software Engineering	On going	Sole	-	On going
3	13803001	Ms. Shruti Aggarwal	Software Engineering	On going	Sole	-	On going
4	14503004	Ms. Satnam Kaur	Software Engineering	On going	Sole	-	On going
5	14803004	Ms. Sandeep Kaur	Software Engineering	On going	Sole	-	On going
6	14803003	Ms. Harleen Kaur	Software Engineering	On going	Sole	-	On going

**M Tech guidance**

S. No	Roll No	Name of Candidate	Title	Status	Sole or Joint candidate	Name of Joint supervisor	Date of enrolment / Completed
1	13203002	Rahul	Product and process metrics based software fault prediction using statical regression models	Completed	Sole	-	18.08.2015
2	13203008	Vandana Chahal	Adaptive genetic approach of test case prioritization	Completed	Sole	-	18.08.2015
3	13203014	Monika	Particle swarm optimization based hierarchical agglomerative clustering for software modularization	Completed	Joint	Dr. GeetaSikka	18.08.2015
4	13203021	Shallu Sarvari	Efficient and Scalable Collection of Dynamic Metrics using Hadoop Map Reduce	Completed	Shared	Dr. GeetaSikka	31.08.2015

**Research Publications (International journals)**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Optimization of AODV Protocol using enhanced DCF-MAC for IEEE 802.11g MANET,	Advanced Engineering and Global Technology	3(9)	1189-1192	2015	Bal Krishan, <b>Paramvir Singh</b>
2.	A systematic review of IP traceback schemes for denial of service attacks	Computers and Security. SCI Indexed Elsevier	56	111-139,	2016	Karanpreet Singh, <b>Paramvir Singh</b> , Krishan Kumar

3	Enhancing AES using Novel Block Key Generation Algorithm and Key Dependent S-boxes International	Cyber-Security and Digital Forensics,	5(1)	30-45	2016	Harpreet Singh, <b>Paramvir Singh</b>
4	Comparative performance analysis of calling context profiling data structures	International Journal of Systems Assurance and Management (Springer)	Accepted	-	2016	Prita and <b>Paramvir Singh</b>
5	Impact analysis of application layer DDoS attacks: A simulation study	International Journal of Intelligent Engineering Informatics (Inderscience)	In Press	-	2016	Karanpreet Singh, <b>Paramvir Singh</b> and Krishan Kumar
6	Hybrid Black Hole Algorithm for Bi-Criteria Job Scheduling on Parallel Machines	International Journal of Intelligent Systems and Applications (ISSN: 2074-9058), MECS Press	In Press	-	2015	KawalJeet, RenuDhir and <b>Paramvir Singh</b>

**Research Publications (Conferences)**

S.No	Title of paper	Conference Name	Volume Number	Page No	Publication year	Authors as on Article
1.	Efficient and Scalable Collection of Dynamic Metrics using MapReduce	Asia-Pacific Software Engineering Conference (APSEC). IEEE, 2015	-	127-134	2015	Sarvari, Shallu <b>Paramvir Singh</b> , GeetaSikka.
2.	An Empirical Investigation into Code Smells Elimination Sequences for Energy Efficient Software	Asia Pacific Software Engineering Conference (APSEC), 2016	-	-	2016	Garima Dhaka and <b>Paramvir Singh</b>
3.	Validating Software Evolution of Agile Projects using Lehman's Laws	International Conference on Computational Techniques in Information and Communication Technology (ICCICT), IPU, New Delhi	-	-	2016	Gurpreet Kaur and <b>Paramvir Singh</b>
4.	Modularizing software systems using PSO optimized hierarchical clustering	International Conference on Computational Techniques in Information and Communication Technology (ICCICT), IPU, New Delhi	-	-	2016	Monika and <b>Paramvir Singh</b>

**Research Publications (International Journals) contributed by the Ad Hoc Faculty**

S. No.	Title of paper	Journal Name	Vol. No.	Page No	Publication year	Authors as on the article
1.	Cloud Computing Challenges: A survey	International Journal of Computer Science and Engineering Technology	6	602	2015	<b>Amandeep Kaur</b> <b>Jobanpreet Kaur</b> <b>Ashish Kumar</b> <b>Amit Dogra</b>
2.	A survey on face detection techniques.	International Journal of Computer Technology and Applications	6	761	2015	<b>Amandeep Kaur</b> <b>Jobanpreet Kaur</b>
3.	Assesment of Teaching Learning Process	ISTE Section Annual Convention (SAC-2015), NIT Hamirpur	1	73-79	2015	<b>Rajmohan Singh</b>
4.	Performance Evaluation of AQM Algorithms for PGM based group communication in Centralized Multicasting Network	International Journal of Modern Trends in Engineering and Research	02	508	2015	<b>Ashish Kumar</b>

**5. Short Term Courses/Training Programs/Seminars/Conferences/Workshops/Symposia attended by the faculty**

<b>Title of course</b>	<b>Organizers</b>	<b>Dates</b>	<b>Funded by</b>	<b>Name of the Faculty</b>
Recent Trends in Soft Ware Engineering and Knowledge Mining (RTSEKM)	NIT Jalandhar	01-05 June, 2015	TEQIP-II	<b>Mr. D. K. Gupta</b>
Recent Trends in Soft Ware Engineering and Knowledge Mining (RTSEKM)	NIT Jalandhar	01-05 June, 2015	TEQIP-II	<b>Mr. Rahul Aggarwal</b>

**6. Short Term Courses/Workshops/Seminars organized:**

<b>Title of course</b>	<b>Name of organizer</b>	<b>Dates</b>	<b>Funded by</b>
Cloud Computing and Big Data Analytics	Dr. RenuDhir Mr. D K Gupta Dr. GeetaSikka Dr. Rajneesh Rani Mr. Ashish Kumar Ms. Jobanpreet Kaur Mr. Amit Kumar Mr. Raj Mohan Singh	19.05.2015	TEQIP-II
Recent Trends in Soft Ware Engineering and Knowledge Mining (RTSEKM-2015)	Dr. RenuDhir Dr. H.K. Verma Dr. GeetaSikka Dr. Paramvir Singh Dr. Rajneesh Rani	01-05 June, 2015	TEQIP-II

**7. Expert talks delivered:**

<b>Title of talk</b>	<b>Name of expert</b>	<b>Event of talk delivered</b>	<b>Date of talk</b>	<b>Event/STC/ Seminar/ Workshop</b>
Why Mine Data?	Dr. GeetaSikka	Recent Trends in Computational Techniques organized by DAV College, Jalandhar	April 20-26, 2015	Workshop
Session Chair	Dr. GeetaSikka	International Multi Track Conference on Science, Engineering and Technical Innovations held at CT Institute of Engineering, Management and Technology, Jalandhar	May 22-23, 2015	Conference
Why Mine Data?	Dr. GeetaSikka	International Multi Track Conference on Science, Engineering and Technical Innovations held at CT Institute of Engineering, Management and Technology, Jalandhar	May 22-23, 2015	Conference
Role of IT Services	Dr. GeetaSikka	Make in India Campaign held at CT College, Jalandhar	Jun 08-13, 2015	Event
Statistica – Data Mining Tool	Dr. GeetaSikka	TEQIP-II sponsored One Week Short Term Course on “Recent Trends in Software Engineering and Knowledge Mining” organized by Department of CSE, NIT Jalandhar	Jun 01-05, 2015	STC
Coordinator	Dr. GeetaSikka	Short term course organised under TEQIP-II “Recent Trends in Software Engineering and Knowledge Mining”	Jun 01-05, 2015	STC
Chief Coordinator	Dr. GeetaSikka	One day Workshop under TEQIP-II “Cloud Computing and Big Data Analytics”	May 19, 2015	Workshop
Machine Learning Applications	Dr. RenuDhir	Research Trends in Computation Techniques	April 16-22, 2015	National Workshop

**8. Expert talks organized:**

<b>Title of talk</b>	<b>Name of expert</b>	<b>Event of talk delivered</b>	<b>Date of talk</b>
Cloud computing and security	Ashish Saxena	AkashSaxena Memorial	01.05.2015
DDOS attack and mitigation	Ashish Saxena	AkashSaxena Memorial	17.02.2016

**9. Membership to professional bodies**

Name of faculty	Type of membership	Organization	Membership number
Dr. A L Sangal	Life Membership	ISTE, New Delhi	
Dr. A L Sangal	Life Membership	Computer Society of India	
Dr. Ajay K Sharma	Life Membership	Optical Society of America	USA. (LM ID-361253).
Dr. Ajay K Sharma	Life Membership	Computer Society of India, Mumbai, India.	LM-Associate: 01099298
Dr. Ajay K Sharma	Life Membership	Advanced Computing & Communications Society	ID: 619838
Dr. Ajay K Sharma	Life Membership	Indian Institute of Science, Bangalore, India	L284M1100306
Dr. Ajay K Sharma	Life Membership	Indian Society for Technical Education New Delhi, India.	LM-11724
Dr Harsh K Verma	Annual	IEEE@Computer Society	92158765
Dr Harsh K Verma	Life Membership	Computer Society of India, Mumbai	
Dr Harsh K Verma	Life Membership	Indian Society for Technical Education (I.S.T.E.), New Delhi	
DrParamvir Singh	Professional Membership	IEEE ,USA	92939007
DrParamvir Singh	Life Membership	ISTE, New Delhi	LM-93050
Amandeep Kaur	Annual	Computer Society of India	
Ashish Kumar	Annual	Computer Society of India	I1503424
DeepikaSethi	Annual	Computer Society of India	I1503413
Jobanpreet Kaur	Annual	Computer Society of India	I1503415
KamalPreet Kaur	Annual	Computer Society of India	I1503418
Kirti Bhandari	Annual	Computer Society of India	I1503412
Navreet Kaur	Annual	Computer Society of India	I1503411
RenuVerma	Annual	Computer Society of India	
Rupali	Annual	Computer Society of India	
Jagreeti Kaur	Annual	Computer Society of India	I1503419
Amit Kumar Dogra	Annual	Computer Society of India	
Vinay Kumar Singh	Annual	Computer Society of India	
BhalePardeep Kumar	Annual Life Membership	Computer Society of India IAENG IEEE	I1503422 159532 92529389

**10. Consultancy services completed/ongoing:** **None**

**11. Projects Completed/On Going/sponsored projects:**

Participating Institute of Information Security Education and Awareness (ISEA) Project

Phase-II initiated by the Ministry of Communications and IT, New Delhi.

Principal Investigator: Dr Harsh K. Verma

Co-Investigator: DrRenuDhir

**12. Details of faculty, who have upgraded qualifications:**

- Rajneesh Rani completed Ph D in Computer Science and Engg. In Dec, 2015

**13. Details of faculty who have enrolled for higher qualifications: None**

**14. Any other significant achievement:**

Name	Achievements
CS Dept. – NBA visit	NBA team successful visit to the Department during 22-24 April, 2016 in connection with accreditation of B.Tech. Programme.
CS Dept	The CSE Department procured books worth <b>1 Lakh</b> under the <b>Information Security Education and Awareness Programme</b> in the Departmental Library.
Manisha Gupta	Bagged second position in the Inter-branch TT league, also in the college TT team Bagged 4 <sup>th</sup> position in Inter Technology University Table Tennis (Girls) Tournament held at PEC, Chandigarh September 2015
VartikaBhan	Two times consecutive Winner of Dance Concert organized by Kerela Overseas association(contemporary). Received A certificate for completing 75 SSL Hours by the President of The U.S.A
Rahul Sethi	Winner of CODE-UNLOCK on Techniti 2015 Winner of DAVIET Coding League Winner of battle of bands at GNDU Gurdaspur (As a guitarist)
Ketan	State champion in Drawing
RoopaRauniyar	Got Maabolipunjabipurushkaar
Tarun Sharma	State Topper in Computer Skills in International Assessment for Indian Schools conducted by University of New South Wales
Mandeep Singh	Achieved All-India rank 28 (45 global rank) in CODECHEF's JULY15 Long Challenge Qualified CodeChefSnackdown 2015, Round 1 A with global rank 364 (Username-dcodedragon ) Secured 1st rank (175 global rank) in college in CODECHEF's June Challenge 2015
Priya Bansal	Executive member of team cultural society
Ajay Devanda	Got World Rank 111 in August Long Challenge on CodeChef among 7000+ participants worldwide
Tushar Malhotra	Got the 99.99% in proficiency test(2 <sup>nd</sup> rank in country)
Aman Garg	Bagged 6th rank in Test Of Potential, Techfest
Jayanti Lal	Pursued National Award In Scouting Got Third Rank In B Plan Organised By Techniti Achieved 9000rank At CodeChef
Gaurav Chaudhary	Got 5 <sup>th</sup> position in B Plan in TechNiti
GirirajMaheshwari	Won 1st prize in spark-Techniti
GirirajMaheshwari	Secured Second rank in Digital Treasure Hunt organized in TECHNITI'15 at NIT Jalandhar
Vasu Dev Garg	Got 3rd position in Code Unlocked in Techniti15 2nd prize in play competition(group) of Utkansh 2015
Rajesh Gupta Prashant Kumar Singh Kushagara Gupta	Represented NIT Jalandhar at ACM ICPC (International Collegiate Programming Contest) Amritapuri onsite Regionals (Asia), ranked 182 among 1530 teams in online qualifying contest and 108 among 280 teams in the onsite regional contest.
Raj Kunwar Singh Shubham Kaushik Shailendra Kumar Yadav	Represented NIT Jalandhar at ACM ICPC (International Collegiate Programming Contest) Kharagpur onsite Regionals (Asia), ranked 237 among 464 teams in online qualifying contest and 28 among 80 teams in the onsite regional contest.
Piyush Shukla	1st position in HackNITJ, an online coding contest held at Hackerearth
Rajesh Gupta	2 <sup>nd</sup> position in HackNITJ, an online coding contest held at Hackerearth
Ankit Luthra	Won the event Weardroid (Android in Wearables) organised by Google Developer Group Jalandhar at NIT Jalandhar and got appraised as Google Ambassador
Raj Kunwar Singh	2nd rank (India) in Codechef – September Long Challenge 2015
Deepak	Winner of Volleyball Game (Boys) in Inter Technology University Basketball Tournament held at NIT Kurukshetra September 2015
ArunMourya	Bagged 3 <sup>rd</sup> position in Basketball Game in Sports Fest UDGHOSH 2015 held at IIT Kanpur on October, 2015
Priyanka Bharti	Bagged 4 <sup>th</sup> position in Basketball Game in Sports Fest UDGHOSH 2015 held at IIT Kanpur on October, 2015
Sukhdeep Singh	Bagged 4 <sup>th</sup> position in Inter Technology University Table Tennis (Boys) Tournament held at PEC, Chandigarh September 2015
Simran	Bagged 3 <sup>rd</sup> position in Inter Technology University Table Tennis (Girls) Tournament held at PEC, Chandigarh September 2015
KamyaBatra	Winner in Inter Technology University Badminton (Girls) Tournament held at PEC Chandigarh September 2015

Mr Prashant Kumar Singh	Was awarded AkashSaxena Memorial Scholarship of Rs 10,000/- on account of his ranking First in order of merit upto Sixth semester.
Samarth Godara	Bagged the <b>3<sup>rd</sup> prize</b> in <b>Graffiti competition</b> in the Cultural Fest (Utkansh) held from 11 <sup>th</sup> - 13 <sup>th</sup> March,2016 at NIT, Jalandhar Bagged the <b>3<sup>rd</sup> prize</b> in <b>Canvas Painting</b> in the Cultural Fest (Utkansh) held from 11 <sup>th</sup> - 13 <sup>th</sup> March,2016 at NIT, Jalandhar Bagged the <b>3<sup>rd</sup> prize</b> in <b>Mad Ads</b> in the Cultural Fest (Utkansh) held from 11 <sup>th</sup> - 13 <sup>th</sup> March,2016 at NIT, Jalandhar Bagged the <b>1<sup>st</sup> prize</b> in <b>Robotic Event (Robothon)</b> in the Technical Fest (TechNiti) held from 5 <sup>th</sup> - 8 <sup>th</sup> November,2015 at NIT, Jalandhar Bagged the <b>3<sup>rd</sup> prize</b> in <b>Robotic Event (Batbot)</b> in the Technical Fest (TechNiti) held from 5 <sup>th</sup> - 8 <sup>th</sup> November,2015 at NIT, Jalandhar Bagged the <b>3<sup>rd</sup> prize</b> in <b>Robotic Event (Goodnight)</b> in the Technical Fest (TechNiti) held from 5 <sup>th</sup> - 8 <sup>th</sup> November,2015 at NIT, Jalandhar
Amandeep Bartia,	B Tech IV year student of CSE Dept. bagged the <b>2<sup>nd</sup> prize</b> in <b>Technical paper presentation</b> in the Technical Fest (TechNiti) held from 5 <sup>th</sup> - 8 <sup>th</sup> November,2015 at NIT, Jalandhar
ShivaniDalal	M Tech II-year student of CSE Dept. bagged the <b>3<sup>rd</sup> prize</b> in <b>Yoga</b> competition in the Cultural Fest (Utkansh) held from 11 <sup>th</sup> - 13 <sup>th</sup> March,2016 at NIT, Jalandhar

#### 15. Student Placement (Batch - 2012-16)

Sl. No.	Name	Name of Company	Package/Annum in Lacs	Number of student/Company
1.	Mehakinder	Amazon	27	3
2.	Prashant Kumar Singh			
3.	Surpriya Arora			
4.	Navdeep Singh	Amdocs	4.5	1
5.	Arpan Tyagi	Axtia	7	9
6.	Dilsher Singh Mann			
7.	Harkirat Singh			
8.	Laveena Sachdeva			
9.	Navneet Kamboj			
10.	Pearl Gupta			
11.	Saraswati Guneja			
12.	Shivbhagwan Mahala			
13.	Tanya Bansal			
14.	Dikshant	Bombardier	5.25	2
15.	Sunil Prakash			
16.	Sukhdeep Singh	Cadence	9	1
17.	Devashish Rai	Capgemini	4.5	2
18.	Payal Agrawal			
19.	Vikas Kumar	C-Dot	9.5	1
20.	Piyush Shukla	Drishti-Soft Solutions	16.85	2
21.	Shubham			
22.	Priyanka	Edynamic	3.5	2
23.	Pankaj Shukla			
24.	Prachi Goel	Futures First	9.2	1
25.	Amandeep Singh Ghotra	Indiamart	3.9	1
26.	Raj Kunwar Singh	Infoedge	7.3	2
27.	Gazal			
28.	Priyanka Bharati	Ivp	6.5	1
29.	Shubham Bansal	Jugnoo	10.8	3
30.	Sudhanshu			
31.	Vijay Kumar			
32.	Mahima Choudhary	Maruti	5.5	1

33.	Vinit Kumar Gautam	MuSigma	4.5	1
34.	Navneet Bansal	Nagarro	5	3
35.	Pramod Kumar Yadav			
36.	Ankit Luthra			
37.	Hemant Prajapati	Newgen	5.5	2
38.	Neha Mishra	Oracle	8	7
39.	Ayush Sharma			
40.	Harshdeep Singh			
41.	Jaideep Singh			
42.	Anjali Sharma			
43.	Siddharth Sharma			
44.	Swati Kumari			
45.	Vivek Kumar			
46.	Kashish Luthra	Oxigen	8	2
47.	Paras Miglani			
48.	Ravi Prakash	Playbuff	4.2	2
49.	Tanu Choudhary	Power2SME	7	4
50.	Ashok Kumar Bhukhar			
51.	Jatin Raaj Bansal			
52.	Madhuri Behl			
53.	Jeenat Parihar			
54.	Agam Mahajan	Practo	20	2
55.	Kushagra Gupta			
56.	Arun Maurya	Reliance Jio Infocomm	5.3	4
57.	Kunwar Dev Singh			
58.	Manbir Singh			
59.	Babita Bashal			
60.	Rahul Pareek	Sap Labs	8	1
61.	Shailendra Kumar Yadav	Sapient	4.5	2
62.	Simran Kaur			
63.	Ankush Bansal	Shopclues	8	3
64.	Hitesh Kumar			
65.	Ms Kalpana Meena			
66.	Kanchan Singh	Virtusa	5	5
67.	Kanwar Partap Singh			
68.	Sonam Sharma			
69.	Sushmita Chaudhary			
70.	Veenja Ram Patel			
71.	Dipesh Kumar	Ways2Capital	3.2	1
72.	Rajesh Gupta	Works Applications	35	3
73.	Shubham Kaushik			
74.	Vipul Agarwal			

**Summary (Placements 2016)**

Max CTC	35 LPA
Min CTC	3.2 LPA
Average Package	8.66 LPA
Students >= 5	65
Students >= 10	14



**GATE-2015**

<b>Roll Number</b>	<b>Name</b>	<b>Gate Score</b>	<b>Gate Rank</b>
15203008	RashmiJakhmola	603	1752
15203013	Shikha Mahajan	599	1821
15203011	VikalpRavi Jain	591	1970
15203002	Parminder Kaur Gill	565	2451
15203015	PritamKumari	557	2603
15223006	AvinashSirohi	555	2683
15203021	Akshay Sharma	538	3101
15203010	Rohit Nagar	531	3274
15223004	Kirti Kaur Sahota	527	3400
15223005	CharuGuleria	523	3523
15223003	Yukti Mehta	518	3664
15203003	NithinChandran K	477	4945
15203004	Santosh T Punase	475	4987
15203009	Sagar Mal Nitharwal	462	5664
15203017	Vijay Gaur	430	7247
15203001	Bhupender Singh Madhanian	419	7910
15203012	Navdeep Singh	406	8734
15223001	Pankaj Gandhi	394	9589
15203022	Mukesh Kumar	371	11571
15203018	Twinkle Sao	363	12330
15203016	AnjanaChoudhary	335	15382
15203007	Waqar Rashid	314	18381
15203023	Monika	306	19490

## एचआरडी/हिन्दी प्रकोष्ठ

- मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत, गुजरात में दिनांक 14-15 मई 2015 को आयोजित दो दिवसीय अखिल भारतीय राजभाषा संगोष्ठि में संस्थान की तरफ से डा अवधेश कुमार चौधरी, समन्वयक, राजभाषा एवं श्री शलभ कुमार तिवारी ने भाग लिया।
- इस संगोष्ठि में एनआईटी जालन्धर को वर्ष 2014 के दौरान उत्कृष्ट कार्य हेतु दिनांक 14 मई 2015 को राजभाषा शील्ड प्रदान किया गया।
- राजभाषा समिति के अगले सत्र (अप्रैल 2015 से अप्रैल 2016) के लिए छात्र समिति का गठन किया गया। जो निम्न प्रकार से है:-

पदनाम	नाम	विभाग	वर्ष
छात्र प्रमुख	पंकज शुक्ला	संगणक विज्ञान व अभियान्त्रिकी	तृतीय
	पायल मिश्रा	जानपद अभियान्त्रिकी	तृतीय
	शीतल	कणवैद्युतिकी व संचार अभियान्त्रिकी	तृतीय
संयुक्त सचिव	सृष्टि सिन्हा	कणवैद्युतिकी व संचार अभियान्त्रिकी	तृतीय
	चेतन शर्मा	जानपद अभियान्त्रिकी	तृतीय
	गोविन्द	वस्त्र प्रौद्योगिकी	तृतीय
	श्रुति सिंगला	वस्त्र प्रौद्योगिकी	तृतीय
आयोजक सचिव	राकेश विश्नोई	रासायनिक अभियान्त्रिकी	तृतीय
कार्यकारी सचिव	हर्ष	वस्त्र प्रौद्योगिकी	तृतीय
	राकेश	यान्त्रिकी अभियान्त्रिकी	तृतीय
	अंकुश कम्बोज	यान्त्रिकी अभियान्त्रिकी	तृतीय
डेकोरेशन सचिव	पुष्पा	जानपद अभियान्त्रिकी	तृतीय
	अरमान कटारिया	औद्योगिक व उत्पादन अभियान्त्रिकी	तृतीय
	यामिनी	जैव-प्रौद्योगिकी	तृतीय
परिक्रमा-15 संपादक सचिव	इमरान	रासायनिक अभियान्त्रिकी	तृतीय
	स्मृति सिन्हा	कणवैद्युतिकी व संचार अभियान्त्रिकी	तृतीय
	नेहा मीना	जैव-प्रौद्योगिकी	तृतीय
प्रचार व प्रायोजकता सचिव	अनामिका	उपकरणीकरण व नियंत्रण अभियान्त्रिकी	तृतीय
	स्मृति सिन्हा	कणवैद्युतिकी व संचार अभियान्त्रिकी	तृतीय
	गणेश	यान्त्रिकी अभियान्त्रिकी	तृतीय

- संस्थान के चार मुख्य स्थानों (प्रशासनिक भवन (खण्ड-1 एवं 11), केन्द्रीय पुस्तकालय तथा आई टी ब्लॉक) पर राजभाषा स्केच बोर्ड लगवाया गया तथा संस्थान के कर्मियों के हिन्दी शब्द संसाधन को बढ़ाने हेतु प्रतिदिन एक हिन्दी शब्द को प्रस्तुत किया जा रहा है।
- राजभाषा विभाग, मानव संसाधन विकास मंत्रालय, भारत सरकार के वार्षिक कार्यक्रमानुसार सभी फाईलों, रजिस्ट्रों, उपस्थिति पंजिकाओं का द्विभाषी नामाकरण का कार्य किया गया।
- संस्थान में राजभाषा हिन्दी में कार्य करने हेतु कर्मियों के प्रोत्साहित करने के उद्देश्य से संस्थान के विभिन्न भागों में विभिन्न प्रकार के उद्घरण (कोट्स) का बोर्ड लगवाने का कार्य किया गया।

7. संस्थान के सभी कार्यालयों, प्रयोगशालाओं, संकायों के नाम का द्विभाषीकरण करने हेतु प्रयासरत।
8. संस्थान की वेबसाइट को द्विभाषी बनाने हेतु राजभाषा समिति कार्यरत है।
9. 27/07/2015 माननीय श्री नरेन्द्र सिंह मेहरा, अनुसंधान अधिकारी (कार्यान्वयन), उत्तरी क्षेत्रीय कार्यान्वयन कार्यालय-1 द्वारा संस्थान के निरीक्षण/विचार-विमर्श हेतु संस्थान में आगमन।
10. संस्थान के सभी कंप्यूटरों में यूनिकोड संस्थापन (इंस्टॉलेशन) का कार्य किया गया।
11. 14-28 सितम्बर 2015 के दौरान के दौरान संस्थान द्वारा हिन्दी पखवाड़ा का आयोजन किया गया जिसके अंतर्गत हिन्दी से संबंधित विभिन्न प्रकार के गतिविधियाँ भी करवाई गई।
12. पखवाड़े के अंतर्गत 15/09/2015 को संस्थान की वार्षिक हिन्दी पत्रिका "परिक्रमा-15" का लोकार्पण एवं सांस्कृतिक कार्यक्रम का आयोजन किया गया।
13. पखवाड़े के अंतर्गत संस्थान के कर्मियों के लिए राजभाषा-समिति द्वारा 18 सितम्बर, को अनुवाद एवं हिन्दी लेखन प्रतियोगिता तथा 21 सितम्बर 2015 को वाद विवाद प्रतियोगिता का आयोजन किया गया।
14. पखवाड़े के दौरान छात्र राजभाषा समिति द्वारा छात्रों के मध्य जासूसी निगाहें, काव्य कला, सोच भाई सोच, चलचित्र द्वंद एवं ऑनलाईन प्रतियोगिता "रहस्यम्" का सफलतापूर्वक आयोजन किया गया।
15. 30/09/2015 को हिन्दी पखवाड़े के समापन पर एक नाटक "जब शहर हमारा सोता है" का मन्चन जालन्धर के "युवा थिएटर" के कलाकारों द्वारा किया गया, साथ ही पखवाड़े के दौरान आयोजित करवाये गए प्रतियोगिताओं के विजेताओं तथा "परिक्रमा-15" सर्वश्रेष्ठ रचनाओं हेतु संस्थान के कर्मियों के साथ-साथ छात्रों प्रशस्ति पत्र तथा पुरुस्कार संस्थान के माननीय निदेशक महोदय द्वारा प्रदान किया गया।

पुरुस्कार विजेताओं की सूची निम्न प्रकार से है:-

● संस्थान के पुरुस्कृत कर्मियों की सूची

अनुवाद व हिन्दी लेखन प्रतियोगिता (18/09/2015)			
क्र.सं.	प्रतियोगी का नाम	प्राप्तांक (50 अंक में से)	स्थान
1.	श्रीमती हर्ष मल्होत्रा	39	प्रथम
2.	श्री अरुण राम	36.5	द्वितीय
3.	श्री सुनील अरोड़ा	33	तृतीय
4.	श्री अमरजीत सिंह	32	चतुर्थ
5.	श्री जतिन्दर सिंह	32	चतुर्थ
वाद-विवाद प्रतियोगिता (21/09/2015)			
1.	श्री सुनील अरोड़ा श्री अश्वनी शर्मा	प्रथम	
3.	श्रीमती हर्ष मल्होत्रा श्री सुखमिन्दर सिंह	द्वितीय	
5.	श्री जतिन्दर सिंह श्री अभय शर्मा	तृतीय	
पत्रिका "परिक्रमा-2015" में सर्वश्रेष्ठ आलेख			
क्र.सं.	लेखक का नाम	आलेख	स्थान
1.	प्रोफेसर नवीन चन्द कोठियाल	भारत में बुलेट ट्रेन : एक कदम साकार होते स्वप्न की ओर	प्रथम
2.	डा शैलेन्द्र बाजपेयी	नौजवानों में रोजगार संतुष्टि की समस्या एवं निवारण	द्वितीय

● संस्थान के पुरुस्कृत छात्रों की सूची

क्र.सं.	प्रतियोगी का नाम	स्थान
जासूसी निगाहें		
1.	श्री अनमोल गर्ग, स्नातक द्वितीय वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग	प्रथम
2.	श्री रिषिराज, स्नातक द्वितीय वर्ष, रासायनिक अभियांत्रिकी विभाग	
3.	सुश्री राजलक्ष्मी, स्नातक द्वितीय वर्ष, औद्योगिक व उत्पादन अभियांत्रिकी विभाग	
4.	श्री प्रशान्त राज, स्नातक प्रथम वर्ष, औद्योगिक व उत्पादन अभियांत्रिकी विभाग	द्वितीय
5.	श्री धीरेन्द्र कुमार, स्नातक प्रथम वर्ष, यांत्रिकी अभियांत्रिकी विभाग	
6.	श्री अभिषेक वर्मा, स्नातक प्रथम वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग	
7.	श्री वैभव त्रिपाठी, स्नातक द्वितीय वर्ष, रासायनिक अभियांत्रिकी विभाग	तृतीय
8.	श्री विवेक कुमार, स्नातक द्वितीय वर्ष, सूचना प्रौद्योगिकी विभाग	
9.	सुश्री प्राची गोयल, स्नातक द्वितीय वर्ष, रासायनिक अभियांत्रिकी विभाग	
काव्य कला		
10.	श्री विपुल तिवारी, स्नातक द्वितीय वर्ष, जैव-प्रौद्योगिकी विभाग	प्रथम
11.	श्री लखन, स्नातक द्वितीय वर्ष, जानपद अभियांत्रिकी विभाग	द्वितीय
12.	सुश्री कृतिका, स्नातक प्रथम वर्ष, जैव-प्रौद्योगिकी विभाग	तृतीय
सोच भाई सोच		
13.	श्री आयुष्मान मुखर्जी, स्नातक द्वितीय वर्ष, उपकरणीकरण व नियंत्रण अभियांत्रिकी विभाग	प्रथम
14.	श्री मयंक यादव, स्नातक द्वितीय वर्ष, उपकरणीकरण व नियंत्रण अभियांत्रिकी विभाग	
15.	श्री वागीश दीक्षित, स्नातक द्वितीय वर्ष, जानपद अभियांत्रिकी विभाग	
16.	सुश्री प्रतिभा, स्नातक तृतीय वर्ष, उपकरणीकरण व नियंत्रण अभियांत्रिकी विभाग	द्वितीय
17.	श्री महेन्द्र नायल, स्नातक तृतीय वर्ष, रासायनिक अभियांत्रिकी विभाग	
18.	सुश्री हिमानी नेगी, स्नातक तृतीय वर्ष, संगणक विज्ञान व अभियांत्रिकी विभाग	
19.	सुश्री श्रेया सिंह, स्नातक तृतीय वर्ष, जैव-प्रौद्योगिकी विभाग	तृतीय
20.	सुश्री कविता राव, स्नातक तृतीय वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग	
21.	सुश्री पाटला पुट्टुस, स्नातक तृतीय वर्ष, उपकरणीकरण व नियंत्रण अभियांत्रिकी विभाग	
चलचित्र द्वंद		
22.	श्री अंकित कुमार, स्नातक प्रथम वर्ष, रासायनिक अभियांत्रिकी विभाग	प्रथम
23.	श्री दिव्यांश शर्मा, स्नातक प्रथम वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग	
24.	श्री शौर्य, स्नातक प्रथम वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग	

25.	सुश्री मनीषा गुप्ता, स्नातक तृतीय वर्ष, संगणक विज्ञान व अभियांत्रिकी विभाग	द्वितीय स्थान	
26.	सुश्री प्रिया यादव, स्नातक तृतीय वर्ष, उपकरणीकरण व नियंत्रण अभियांत्रिकी विभाग		
27.	सुश्री अंजली कुमारी, स्नातक तृतीय वर्ष, संगणक विज्ञान व अभियांत्रिकी विभाग		
28.	श्री रजनीश राज, स्नातक प्रथम वर्ष, औद्योगिक व उत्पादन अभियांत्रिकी विभाग	तृतीय स्थान	
29.	श्री कुशाग्र तनय, स्नातक प्रथम वर्ष, यांत्रिकी अभियांत्रिकी विभाग		
रहस्यम्			
1.	श्री रजनीश गौतम, स्नातक द्वितीय वर्ष, जैव-प्रौद्योगिकी विभाग	प्रथम	
2.	श्री शुभम गुप्ता, स्नातक तृतीय वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग	द्वितीय	
3.	श्री राहुल कुमार, स्नातक तृतीय वर्ष, खनन अभियांत्रिकी विभाग	तृतीय	
पत्रिका “परिक्रमा-2015” में छात्रों द्वारा रचित सर्वश्रेष्ठ आलेख			
क्र.सं.	लेखक का नाम	आलेख	स्थान
1.	सुश्री शालू माथुर, स्नातक द्वितीय वर्ष, रासायनिक अभियांत्रिकी विभाग	इंसान बड़ा या धर्म	प्रथम
2.	सुश्री भाविका, स्नातक द्वितीय वर्ष, सूचना प्रौद्योगिकी विभाग	तकनीकी दुनिया के सत्यम् शिवम् सुन्दरम्	द्वितीय
3.	श्री विशाल श्रीवास्तव, स्नातक तृतीय वर्ष, वस्त्र प्रौद्योगिकी विभाग	अंतरिक्ष में भारत	तृतीय
4.	सुश्री हीरामयी, स्नातक द्वितीय वर्ष, जैव-प्रौद्योगिकी विभाग	सर्वश्रेष्ठ स्केचिंग हेतु	विशिष्ट पुरुस्कार
परिक्रमा-15 के छात्र संपादक-गण			
क्र.सं.	छात्र का नाम, वर्ष व विभाग		
1.	श्री इमरान खान, स्नातक अन्तिम वर्ष, रासायनिक अभियांत्रिकी विभाग		
2.	श्री अभिषेक त्रिपाठी, स्नातक तृतीय वर्ष, जानपद अभियांत्रिकी विभाग		
3.	श्री अभय सिंह नाथावत, स्नातक तृतीय वर्ष, औद्योगिक व उत्पादन अभियांत्रिकी विभाग		
4.	सुश्री अंकिता नेगी, स्नातक तृतीय वर्ष, जैव-प्रौद्योगिकी विभाग		
5.	सुश्री स्मृति सिन्हा, स्नातक अन्तिम वर्ष, कणवैद्युतिकी व संचार अभियांत्रिकी विभाग		
6.	सुश्री नेहा मीना, स्नातक अन्तिम वर्ष, जैव-प्रौद्योगिकी विभाग		

16. डा नवीन चन्द कोठियाल, संकायाध्यक्ष, संकाय कल्याण ने मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा इंस्टीट्यूट ऑफ फिजिक्स, पोस्ट सैनिक स्कूल, भुवनेश्वर में दिनांक 23-24 नवम्बर 2015, को आयोजित दो दिवसीय अखिल भारतीय राजभाषा संगोष्ठि में संस्थान का प्रतिनिधित्व किया।
17. हिन्दी प्रकोष्ठ संस्थान के सभी नाम पट्टिकाओं को द्विभाषी बनवाने हेतु प्रयासरत् है।
18. प्रकोष्ठ ने संस्थान की वार्षिक-कैलेण्डर-2016, टेबल कैलेण्डर-2016 एवं नव वर्ष ग्रीटिंग कार्ड मुद्रण करवाने का कार्य किया।
19. संस्थान में 11 से 13 मार्च 2016 के दौरान आयोजित होने वाले सांस्कृतिक कार्यक्रम "उत्कांश-16" में हिन्दी प्रकोष्ठ ने हास्य कवि सम्मेलन एवं अन्य सात विभिन्न प्रतियोगिताओं (भारत दर्शन, काव्य कला, प्रज्ञांश, जासूसी निगाहें, फिल्मी संग्राम, वाद-विवाद) का सफलतापूर्वक आयोजन किया।

20. हास्य कवि सम्मेलन" में राष्ट्रीय स्तर के कवि श्री सुरेश अलबेला एवं श्री लोकेश महाकाली जी आमन्त्रित थे।

उत्कांश-16 के अन्तर्गत आयोजित प्रतियोगिताओं के विजेताओं की सूची निम्न तालिका में दर्शाई गई है।

क्र. सं.	प्रतियोगिता	विजेता	स्थान
1.	भारत दर्शन	ध्रुव कुशवाहा	प्रथम
		प्रकाश पाठक	द्वितीय
		राहुल मंडीवाल	तृतीय
2.	काव्य कला	पुनित मिश्रा	प्रथम
		कार्तिक शर्मा	द्वितीय
		श्रद्धा गुप्ता	तृतीय
3.	प्रज्ञांश	विनोद कुमार कुमावत	प्रथम
		सुरभि खरे	द्वितीय
		शेशांक शेखर	तृतीय
4.	जासूसी निगाहें	अतुल गोयल	प्रथम
		नितेश गोयल	द्वितीय
		ध्रुव कुशवाहा	तृतीय
5.	फिल्मी संग्राम	पियूष शुक्ला	प्रथम
		अमित कुमार वर्मा	द्वितीय
		वीरांगना कश्यप	तृतीय
6.	वाद-विवाद	पियूष शर्मा	प्रथम
		साहिल शर्मा	द्वितीय
		शीतल	तृतीय

**11.12 FINANCE & ACCOUNT DETAIL**

भारतीय लेखा परीक्षा तथा लेखा विभाग  
कार्यालय प्रधान निदेशक लेखा परीक्षा (केन्द्रीय), चण्डीगढ़

Indian Audit & Accounts Department  
Office of The Principal Director of Audit (Central), Chandigarh



क्रमांक: पी.डी.ए. (सी)/के. व्यय/SAR NITJ-2015-16/2016-17/ 2134 दिनांक: 30/03/2017

सेवा मे,

सचिव,  
शिक्षा विभाग,  
मानव संसाधन विकास मंत्रालय,  
भारत सरकार  
नई दिल्ली - 110001

विषय: Dr. B. R. Ambedkar National Institute of Technology, Jalandhar के वर्ष 2015-16 के लेखाओं पर पृथक लेखापरीक्षा प्रतिवेदन

महोदय,

कृपया Dr. B. R. Ambedkar National Institute of Technology, Jalandhar के वर्ष 2015-16 के लेखाओं पर पृथक लेखापरीक्षा प्रतिवेदन (Separate Audit Report) संसद के दोनों सदनों के समक्ष प्रस्तुत करने हेतु सलंगन पायें। संसद में प्रस्तुत होने तक प्रतिवेदन को गोपनीय रखा जाए।

संसद में प्रस्तुत करने के उपरांत प्रतिवेदन की पांच प्रतियाँ इस कार्यालय को भी भेज दी जाएँ।

कृपया इस पत्र की पावती भेजें।

भवदीय,

— हस्ता —

प्रधान निदेशक

संलग्न: उपरोक्त अनुसार

उपरोक्त की प्रतिलिपि वर्ष 2015-16 की पृथक लेखापरीक्षा प्रतिवेदन की प्रति सहित आवश्यक कार्यवाही हेतु Director, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar को प्रेषित की जाती है।

उप-निदेशक (केन्द्रीय व्यय)

प्लॉट नं. 20-21, सेक्टर - 17ई, चण्डीगढ़ - 160017

Plot No. 20-21, Sector-17E, Chandigarh - 160017

दूरभाष/ Tel.No. 0172 - 2782020

फैक्स/ FAX No: 0172 - 2782021 / 2783974

ई-मेल/ Email: pdacchandigarh@cag.gov.in

**Separate Audit Report of the Comptroller & Auditor General of India on the Accounts of Dr. B. R. Ambedkar National Institute of Technology, Jalandhar for the year ended 31 March 2016**

We have audited the Balance Sheet of Dr. B. R. Ambedkar National Institute of Technology, Jalandhar as at 31 March 2016, Income & Expenditure Account and Receipts & Payments Account for the year ended on that date under Section 19(2) of the Comptroller & Auditor General's (Duties, Powers & Conditions of Service) Act, 1971 read with Section 22(2) of the National Institute of Technology Act, 2007. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This Separate Audit Report contains the comments of the Comptroller & Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the Law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any, are reported through Inspection Reports/ CAG's Audit Reports separately.
3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.
4. Based on our audit, we report that:
  - i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit.
  - ii) The Balance Sheet and Income and Expenditure Account dealt with by this Report have been drawn up in the format prescribed by the Ministry of Human Resources



Development, Government of India vide order No. 29-4/2012-FD dated 17 April 2015.

- iii) In our opinion, proper books of accounts and other relevant records have been maintained by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar in so far as it appears from our examination of such books.
- iv) We further report that:

**A. Balance Sheet**

**A.1 Source of funds**

**Current liabilities and Provisions (Schedule 3): Rs.70.68 crore**

**A.1.1 Security Deposit Students: Rs.0.82 lakh**

Above does not include security deposits received from students amounting to Rs.3.63 crore which have been booked under Earmarked/Endowment Funds (Schedule 2). This has resulted in understatement of Current liabilities and Provisions and overstatement of Earmarked/Endowment Funds by Rs.3.63 crore.

**A.1.2 Unutilised Grants: Rs.4.22 crore**

Unutilised Grants have been depicted as Rs.4.22 crore instead of actual balance of Rs.20.15 crore. This has resulted in understatement of Current liabilities and overstatement of Corpus/Capital Fund by Rs.15.93 crore.

**A.1.3 Outstanding expenses (Annexure C): Rs.34.77 crore**

(a) Above does not include provision for deductions from the gross salary on account of income tax, GPF contribution/New Pension Scheme, recovery of employee advance, etc for the month of March 2016 amounting to Rs.45.83 lakh though liability for net salary payable has been created. This has resulted in understatement of Current Liabilities and Provisions as well as expenditure for the year by Rs.45.83 lakh.

(b) Provision for liabilities amounting to Rs.38.00 lakh has not been created for arrears of Dearness Allowance for the months of January to March 2016. This has resulted in understatement of Current Liabilities and Provisions as well as expenditure for the year by Rs.38.00 lakh.

**A.2 Application of funds****A.2.1 Fixed Assets (Schedule-4): Rs.353.38 crore****Buildings/WIP (Additions): Rs.19.72 crore**

- (a) Above includes works of Rs.15.86 crore which were under progress as on 31 March 2016 but were wrongly included under the head Fixed Assets. This has resulted in understatement of Work in Progress and overstatement of Buildings by Rs.15.86 crore.
- (b) Above includes an advance of Rs.56.25 lakh given to CPWD for construction work “Additional Rooms in T-I (24 Nos.) quarters”. As the work has not been started till date and no expenditure has been incurred, the amount of Rs.56.25 lakh should have been shown as advances in “Loans, Advances and Deposits” (Schedule 8). This has resulted in understatement of Loans, Advances and Deposits and overstatement of Fixed Assets by Rs.56.25 lakh.
- (c) Above includes equipments amounting to Rs.21.83 lakh under head Buildings which should have been included in Equipments. This has resulted in understatement of equipments and overstatement of buildings by Rs.21.83 lakh.
- (d) Above includes CPU card & Software for Engineering Department amounting to Rs.0.66 lakh which should have been included in Intangible assets. This has resulted in understatement of Intangible assets and overstatement of Buildings by Rs.0.66 lakh.

**A.2.2 Current Assets (Schedule 7)****Term Deposits: Rs.82.86 crore**

Above includes Investment made in term deposits out of Earmarked Funds amounting to Rs.69.39 crore which should be shown under separate Schedule “Investment from Earmarked/Endowment funds” (Schedule-5) as per the revised format of Accounts for Central Educational Institutions. This resulted in overstatement Current Assets and understatement of Investment from Earmarked/Endowment funds by Rs.69.39 crore.

**A.2.3 Loans, Advances and Deposits (Schedule 8)****(a) Grant Receivable: Nil**

Above does not include the grants receivable for the year 2015-16 amounting to Rs.6.00 crore which had also been sanctioned during 2015-16 but received on 25 April 2016. This has resulted in understatement of Loans, Advances and Deposits as well as Current Liabilities by Rs.6.00 crore.



**(b) Fee Receivable from students: Rs.5.21 lakh**

Above does not include Rs.29.29 lakh on account of fees receivable from students pertaining to the period/session upto 31 March 2016. This has resulted in understatement of Loans, advances and Deposits as well as Income for the year 2015-16 by Rs.29.29 lakh.

**B. Income and Expenditure Account****B.1 Academic Fees (Schedule 9): Rs.21.14 crore**

Above includes Rs.4.58 crore on account of tuition fees received by the Institute in January 2016 pertaining to the session April-2016 to June-2016. This has resulted in overstatement of Income (academic receipts) for the year 2015-16 as well as Corpus/capital Fund and understatement of Current Liabilities by Rs.4.58 crore for the year 2015-16.

**B.2 Income from Investment (Schedule 11): Rs.4.49 lakh**

As per the revised format of accounts for Central Educational Institutions income from investments made out of Earmarked Funds has to be depicted in "Income from Investment" (Schedule 11) and then transferred to the respective head of Earmarked Funds under Schedule 2. It was noticed that Institute has not depicted the interest earned on investments made out of Earmarked Funds amounting to Rs.636.88 lakh in "Income from Earmarked Funds" (Schedule 11) but has directly transferred the same to the Earmarked Funds (Schedule 2) which is contrary to the provisions of revised format of accounts.

**B.3 Prior period Income (Schedule 14): Rs.00**

Above does not include Rs.14.56 lakh on account of academic fees pertaining to previous year 2014-2015 but received during 2015-16. This has resulted in overstatement of Academic Receipts (Schedule 9) and understatement of Prior Period Income (Schedule 14) by Rs.14.56 lakh.

**C. Receipt and Payment Account  
Grant received**

Above includes Non-Plan Grant-in-Aid amounting to Rs.20.00 crore which has been depicted as Plan. Similarly, Plan Grant-in-Aid amounting to Rs.3.98 crore has been depicted as Non-Plan.

**D. Significant Accounting Policies (Schedule 23)**

A reference is invited to Significant Accounting Policy at SI. No. 4 which states that

Depreciation on fixed assets has not been provided. The policy is in contravention to the revised format of accounts for Central Educational Institutions which requires charging of depreciation on the fixed assets.

**f. Notes on Accounts (Schedule 24)**

A reference is invited to Note on accounts at SI. No. 11 which states that the provision for the gratuity and leave encashment has been made in accounts. Though the provision of Rs.30.53 crore in respect of Gratuity and Leave Encashment has been made, the same has not been made on actuarial valuation basis. This is contrary to the revised format of accounts for Central Educational Institutions and AS-15 of ICAI which requires provision to be made on actuarial basis. No provision, however, was made in the accounts in respect of pension.

**f. General**

**Net impact of Audit comments on the Annual Accounts**

Net impact of Audit comments on the Annual Accounts of Dr. B. R. Ambedkar National Institute of Technology, Jalandhar for the year ending 31 March 2016 is as under:

- i Asset understated by Rs.6.29 crore.
- ii Liabilities understated by Rs.27.35 crore.
- iii Deficit for the year understated by Rs.5.12 crore.
- iv Corpus/Capital Fund overstated by Rs.21.06 crore.

**G. Grant-in-Aid**

**G.1** Out of the available fund of Rs.104.17 crore (Plan-Non Recurring Rs.37.27 crore and Non-Plan-Recurring Rs.66.90 crore), including Grant- in-Aid received during the year Rs.29.98 crore (Plan-Non Recurring Rs.9.98 crore and Non Plan-Recurring Rs.20.00 crore), previous year balance of Rs.55.93 crore (Plan-Non Recurring Rs.27.29 crore and Non Plan-Recurring Rs.28.64 crore), and internal income of Rs.18.26 crore, the Institute could utilize sum of Rs.84.02 crore (Plan-Non Recurring Rs.27.49 crore and Non Plan-Recurring Rs.56.53 crore), leaving unspent balance of Rs.20.15 crore (Plan Rs.9.78 crore and Non plan Rs.10.37 crore).


**G.2** The opening balance of Grant-in-Aid Plan-Non Recurring was Rs.27.29 crore whereas the same was shown as Rs.27.73 crore in the Schedule 3(c).



**G.3** The opening balance of Grant-in-Aid Non Plan-Recurring was Rs.28.64 crore and expenditure thereagainst was Rs.56.53 crore whereas the same was shown as Rs.9.34 crore and Rs.29.34 crore respectively in the Schedule 10.

- v) Subject to our observations in the preceding paragraphs, we report that the Balance Sheet, Income and Expenditure Account and Receipts & Payments Account dealt with by this report are in agreement with the books of accounts.
- vi) In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India:
  - a. In so far as it relates to the Balance Sheet, of the state of affairs of Dr. B. R. Ambedkar National Institute of Technology, Jalandhar as at 31 March 2016; and
  - b. In so far as it relates to Income & Expenditure Account, of the deficit for the year ended on that date.

**For and on behalf of the C & AG of India**



**Principal Director of Audit  
(Central), Chandigarh**

**Place: Chandigarh  
Date:**

**Dr B R Ambedkar National Institute of Technology, Jalandhar**  
**FINANCIAL POSITION AS ON 31.03.2016**

**Plan (Non Recurrign)**

Opening balance as on 01.04.2015	Grant in aid released during 2015-2016	Total amount available	Expenditure from 01.04.2015 to 31.03.2016	Unspent lanace as on 31.03.2016
<b>2729.08</b>	<b>998.00</b>	<b>3727.08</b>	<b>2748.86</b>	<b>978.22</b>

**Non Plan (Recurrign)**

Opening balance as on 01.04.2015	Grant in aid released during 2015-2016	Income during 2015-2016	Total amount available	Expenditure from 01.04.2015 to 31.03.2016	Unspent lanace as on 31.03.2016
<b>2864.13</b>	<b>2000.00</b>	<b>1826.39</b>	<b>6690.52</b>	<b>5653.04</b>	<b>1037.48</b>

**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

G T ROAD AMRITSAR BYE PASS, JALANDHAR

Balance Sheet as at 31.03.2016

(Amount -Rs)

Source of Funds	Schedule	Current Year	Previous Year
Corups /Capital Fund	1	3359246517.60	3203431087.34
Designated/Earmarked/Endowment Funds	2	852609130.75	739414752.09
Current Liabilites and Provisions	3	706780296.07	872838847.27
<b>TOTAL</b>		<b>4918635944.42</b>	<b>4815684686.70</b>
<b>Application of Funds</b>			
Fixed Assets	4	3533823157.76	3245565151.59
Tangible Assets 3244658197.59			
Intangible Assets 906954.00			
Capital Works-in-progress 0.00			
INVESTMENTS-FROM EARNMARKED/ENDOWMENT FUNDS	5	0.00	0.00
Long Term			
Short Term			
Investments-others	6	0.00	0.00
CURRENT ASSETS	7	1076503110.62	1381830783.20
LOAN, Advances & Deposits	8	308309676.04	188288751.91
<b>TOTAL</b>		<b>4918635944.42</b>	<b>4815684686.70</b>
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	24		

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY,  
JALANDHAR**

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED ON 31.03.2016**

(Amount -Rs)			
<b>Income</b>	<b>Schedule</b>	<b>Current Year</b>	<b>Previous Year</b>
Academic Receipts	9	211371111.50	177367999.00
Grants/Subsidies	10	293355331.51	436508799.49
Income from Investments	11	448768.79	29928578.23
Interest Earned	12	24783180.00	8755248.00
Other Income	13	3044527.00	3401925.00
Prior Period Income	14	0.00	0.00
<b>Total (A)</b>		<b>533002918.80</b>	<b>655962549.72</b>
<b>EXPENDITURE</b>			
Staff payments and Benefit (Establishments Expenses)	15	454843910.00	320574204.60
Academic Expenses	16	122678004.75	69333229.00
Administrative and General Expenses	17	80318669.96	40840383.89
Transportation Expenses	18	1452921.00	992616.00
Repair and Maintenance	19	6151989.00	2537314.00
Finance Cost	20	0.00	0.00
Depreciation	4	0.00	14000.00
Other Expenses	21	0.00	0.00
Prior Period Expenses	22	0.00	0.00
<b>Total (B)</b>		<b>665445494.71</b>	<b>434291747.49</b>
<b>Balance being excess of Income over expenditure</b>			
<b>Balance being excess of expenditure over Income</b>		132442575.91	221670802.23
Transfer to / from Corpus funds		0.00	0.00
<b>BALANCE BEING SURPLUS/DEFICITS CARRIED TO CAPITAL FUND</b>		<b>132442575.91</b>	<b>221670802.23</b>
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	24		

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

G.T. ROAD AMRITSAR BYE PASS, JALANDHAR

**RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2016**

Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year
I Opening Balance			Expenses		
(1) Cash Balance (Include Imprest)	1,233,689.80	1,370,130.80	a) Establishment Expenses	370193032.00	322759490.60
(2) Bank Accounts			b) Academic Expenses	127075544.75	60316929.00
In Current & Saving Accounts	668,145,248.65	433,992,007.10	c) Administration Expenses	60406241.00	39281128.81
			d) Transportation Expenses	1510983.00	934554.00
In Deposit Accounts	711,886,631.00	1,122,869,475.00	e) Repair & Maintenance Expenses	6119046.00	2648241.00
Grant Received (Sch-3 (c))			f) Fianance Cost	0.00	0.00
...Grant from Central Government (Plan)	200,000,000.00	150,000,000.00	g) Other Expenses	0.00	0.00
...Grant from Central Government (Non-Plan)	39,800,000.00	270,000,000.00			
...Accrued Grant					
III Academic Receipts	211,371,111.50	177,367,999.00	h) Prior Period Expenses		
IV Receipts Against Earmarked/Endowment Fund			II. Payment Against Earmarked/Endowment Fund	21829652.66	21,551,328.99
...Student Fund	26,387,277.12	0.00	III Payment Against Sponsored Projects	17799435.00	10,468,381.00
...Hostel fund	7,620,179.50	0.00	IV Payment Against Sponsored Fellowship and Scholar Ship	0.00	0.00
...CPF & GPF Fund	38,375,216.00	0.00	V Investments and Deposit made	0.00	0.00
....Loan & Advances Fund	795,213.29	0.00	a) Out of Earmarked/Endownments Funds	0.00	0.00
....Security Fund	9,259,097.69	38,461,854.79	b) Out of Own Funds	0.00	0.00
...Scholarship Fund	1886327.00	7,740,185.95	VI Term Deposit with Schedule	0.00	0.00
Examination Fund	11,783,581.68	41,288,347.45			
...Consultancy Fund	3,113,808.13	1,017,666.69	VII. Expenditure on Fixed Assests and Capital		
...Students Aid Fund	5055.00	5,073,500.00	...Plant Grant	274885754.17	128487163.00
...College Development Fund	39,006,100.92	0	....Sponsored Projects	9981193.00	1514931.00
...Institution Gold Fund	28722.00	9,215,079.00	....Earmarked Funds	3391059.00	832298.00
....NIT Workshop Seminar Fund	11974.00	1,100,830.00	VIII Other Payment Include Statutory Payment	337769.00	0.00
...Benevolent Fund	152,893.00	0	IX Other Payment Include Statutory	260682.25	0.00
...Rajiv Gandhi Drinking Water Scheme	0	22,787,180.00	X Deposites & Advance	0.00	0.00
...Akash Saxena Memorial Scholarship Fund	5,805.00	0	XI Other Payments	1239449.00	0.00
			Loans Given to Employee	0.00	5509355.00
V Receipts Against Sponsored Projects	23,874,583.56	160,306.00	Other payment (including Interfund)	90518287.00	37567964.29
VI Receipts Against Sponsored Fellowship and Scholarship	0	0	Payment of TDS	286653.00	0.00
VII Income on Investments	0	10,693.00	Securities Paid	0.00	17758.00
....Earmarked /Endownments Funds			Payment to Staff for Expenses in Advance	14435520.00	1417358.00
VIII Interest Received on		7,886,521.44	Payment of excess fee received from students	#REF!	0.00
...Bank Deposit	24,783,180.00	0	Interest accrued on term deposit	19158909.13	0.00
...Loan and Advance	0.00	0	Payments to Students	0.00	12736108.00
....Saving Bank account	448,768.79	0	Payments of Students Co-op Security	0.00	0.00

IX Investments encashed			Payments of Library & Lab Security	0.00	0.00
X Term Deposits with Scheduled Bank encashed	0	7,729,239.00	Clearance of Cheques issued last year	0.00	369520577.00
	0	1,026,009.00	Payment to Creditors & Other Exp.	24274946.96	5237579.00
XI Other income (including Prior Period Income)	3,044,527.00	34,066,746.23	XII Closing Balance		
XII Deposits and Advances			a) Cash In Hand (Include the Imprest)		
XIII Miscellaneous Receipts including Statutory Receipts	0.00	0	Main A/c	498160	
XIV Any Other Receipts	7492387.30	0	Sponsored Projects	115000	
Excess Received from Students	5,509,355.00	3,401,925.00	Others	224759	
Received of EMD	183,147.00	0	Stamps in hand	<u>12876.80</u>	850795.80
Medical Policy	-586,192.00	1,172,219.00			1233689.80
Time Barred Cheque	0.00	0			
Other Receipts (Including Interfund)	126,264,128.90	13,013,858.00	b) Bank Balance		
Receipts from students	330050.71	356,179.00	In Current & Saving Accounts		
Interest Accrued on Term Deposit	0.00	1,687,460.00	Main A/c	94837732.29	
NPS Trust	292566.00	125,122.00	Sponsored Projects	30616899.21	
Imprest of ISEA Project	20000.00	33,743,458.34	Others	<u>120737750.30</u>	246192381.82
Outstanding exp	668639.00				668145248.65
Interest accrued on term deposits	0.00	15,402,722.35	In Deposit Accounts		
prepaid exp	108539.00		Main A/c	106234830	
			Sponsored Projects	8181170	
			Others	<u>714256797</u>	
				828634037.00	711,886,631.00
<b>Total</b>	<b>2,163,301,611.54</b>	<b>2,402,066,714.14</b>	<b>Total</b>	<b>#REF!</b>	<b>2,402,066,714.14</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016

(Amount - Rs)

	Current Year	Previous Year
<b>CAPITAL FUND (A)</b>		
Balance of the beginning of the year	3245578437.59	3114744045.59
Add Contributions towards Corpus/Capital Fund		0.00
Add: Grants from UGC, Government of India and State Government to the Extent Utilized for capital expenditure	274885754.17	128487163.00
Add Assets Purchased out of Earmarked Funds	3391059.00	832298.00
Add Assets Purchased out of Sponsored Projects, where ownership vests in the Institution	9981193.00	1514931.00
Add Assets Donated/Gifts Received	0.00	0.00
Add Other Additions	0.00	0.00
<b>Total(a)</b>	<b>3533836443.76</b>	<b>3245578437.59</b>
<b>Suplus /(Deficifit)opening Balance</b>	<b>-42147350.25</b>	<b>263818152.48</b>
(Less): Excess of Expenditure over Income Transferred from the Income & Expenditure Account	-132442575.91	-221670802.23
Add: Excess of Income Over Expenditure Transferred from the income & Expenditure Account		
Add: Grants from UGC, Government of India and State Government and State Government to the extent utilized for Revenue Expenditure		
<b>Total (b)</b>	<b>-174589926.16</b>	<b>-42147350.25</b>
<b>Total (a+b)</b>	<b>3359246517.60</b>	<b>3203431087.34</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULE 2 FORMING PART OF BALANCE SHEET AS ON 31.03.2016**

(Amount -Rs)

Earmarked /Endowment Fund	Student Fund	Hostel Fund	CPF&GPF	Loan & Advances	Security Fund	Scholar ship Fund	Examination Fund	Consultancy Fund	Student's Aid Fund	College Development Fund	Institution Gold Medal	NIT Workshop Seminar	Benevolent Fund	Rajiv Gandhi Drining Water Scheme	Akash Sexna Memorial Scholarship	Total
a) Opening Balance	94649211.89	20488875.61	361654559.97	15970153.63	29950428.05	395452.61	44829303.77	7412705.11	99970.34	162058105.98	283809.34	244724.31	1182049.91	30142.00	149099.56	739398592.08
b) Addition during the year	18928550.00	6420000.50	11656045.00	0.00	5350000.00	0.00	3690500.00	2228334.00	0.00	22145500.00	0.00	0.00	53540.00		0.00	70472469.50
c) Income from Investments made of the Funds																0.00
d) Accured Interest on the Investments Advance	7002614.12	1126247.00	25926022.00	728183.29	3652116.69	1776097.00	4224811.68	832744.13	0.00	16607273.92	0.00	0.00				61876109.83
e)Interest on Saving Bank a/c	331943.00	71438.00	71734.00	67030.00	256981.00	110230.00	445880.00	52730.00	5055.00	253327.00	28722.00	11974.00	99353.00		5805.00	1812202.00
f) Other Receipts/income	124170.00	2494.00	721415.00				3422390.00									4270469.00
<b>Total (A)</b>	<b>121036489.01</b>	<b>28109055.11</b>	<b>400029775.97</b>	<b>16765366.92</b>	<b>39209525.74</b>	<b>2281779.61</b>	<b>56612885.45</b>	<b>10526513.24</b>	<b>105025.34</b>	<b>201064206.90</b>	<b>312531.34</b>	<b>256698.31</b>	<b>1334942.91</b>	<b>30142.00</b>	<b>154904.56</b>	<b>877829842.41</b>
Utilisation/Exp. Towards objects of the Funds																
i) Capital Expenditure	241818.00	3095792.00		0.00	0.00	0.00	53449.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	3391059.00
ii) Revenue Expenditure	9655021.00	1949406.00	3267402.00	399.00	2912889.66	135606.00	2119428.00	1769272.00	0.00	229.00	0.00	0.00	0.00		20000.00	21829652.66
<b>Total (B)</b>	<b>9896839.00</b>	<b>5045198.00</b>	<b>3267402.00</b>	<b>399.00</b>	<b>2912889.66</b>	<b>135606.00</b>	<b>2172877.00</b>	<b>1769272.00</b>	<b>0.00</b>	<b>229.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>20000.00</b>	<b>25220711.66</b>
<b>Closing balance at the year end (A-B)</b>	<b>111139650.01</b>	<b>23063857.11</b>	<b>396762373.97</b>	<b>16764967.92</b>	<b>36296636.08</b>	<b>2146173.61</b>	<b>54440008.45</b>	<b>8757241.24</b>	<b>105025.34</b>	<b>201063977.90</b>	<b>312531.34</b>	<b>256698.31</b>	<b>1334942.91</b>	<b>30142.00</b>	<b>134904.56</b>	<b>852609130.75</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016

**SCHEDULE 2A, ENDOWMENT FUNDS**

1. Sr No.	2. Name of the Endowment	Opening Balance		Additions during the year		Total		Expenditure on the object during the year	Closing Balance		Total 10+11
		3. Endowment	4. Accumulated Interest	5. Endowment	6. Interest	7. Endowment (3+5)	9	10. Endowment	11. Accumulated Interest		
	Total										

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016****SCHEDULES 3 - CURRENT LIABILITIES AND PROVISIONS**

<b>CURRENT LIABILITIES</b>	<b>Details</b>	<b>Current Year</b>	<b>Previous Year</b>
1. Deposits From Staff		0.00	0.00
2. Deposits from Students			
...Hostel Security	0.00		0.00
...Mess Security	0.00		0.00
...Library and Lab Security	0.00		0.00
Student Co-op. Security	0.00		0.00
Security Deposit Students	82000.00		82000.00
...Tuition Fee Received in advance	0.00		0.00
...Hostel Rent from students	0.00		0.00
....Other payable to Students	858961.72	940961.72	1024292.00
3. Sundry Creditors:			
a) for Goods			
<b>Annexure 'A'</b>	10283217.30		4058521.00
b) Others	0.00	10283217.30	92309.00
4. Deposit -others (Including, EMD, Security, Deposit) <b>Annexure 'D'</b>	3585204.00	3585204.00	3402057.00
5. Statutory Liabilities: (TDS,GPF,WC Tax, CPF, GIS, NPS)			
a) Overdue	0.00		0.00
b) Others			
<b>Annexure 'B'</b>	854575.00	854575.00	865297.00
GIAN ACCOUNT	1360000.00		
6. Other current Liabilities (GPF, CPF, NPS, etc.)		0.00	327047.00
a) Salary			
b) Receipts against Sponsored Projects <b>Sch-3A</b>	55861551.51		59748595.95
c) Fee Received in Advance of Main Account (April to June-2015)			43920240.00
d) Unutilised Grants <b>Sch 3 C</b>	42236796.83		277322551.00
e) Unutilised Grants Sch-10	0.00		93355331.51
f) Time Barred Cheques	2704333.92		2704333.92
g) Inter-Fund Balances	230051238.79		103787109.89
h) Medical Policy	2164142.00		2750334.00
i) Scholarship & Other Payable	7598338.00		7105797.00
j) Outstanding Exp <b>Annexure 'C'</b>	347683618.00		271149278.00
k) Design of Pulse Jet Filtration			
l) Tequip-II	100000.00		100000.00
m) Cheques Issued but not presented			
n) CCB Nagpur	35000.00		35000.00
o) NPS Trust	292566.00		
p) IMPREST OF ISEA PROJECT	20000.00		
q) DST Fist (CY) Deptt.	1008753.00	691116338.05	1008753.00
<b>TOTAL (A)</b>		<b>706780296.07</b>	<b>872838847.27</b>
<b>PROVISIONS</b>			
1. For Taxation		0.00	0.00
2. Gratuity		0.00	0.00
3. Superannuation Pension		0.00	0.00
4. Accumulated Leave/Encashment		0.00	0
5. Trade Warranties/Claims		0.00	0
6. Others (specify)		0.00	0
<b>TOTAL (B)</b>		<b>0.00</b>	<b>0</b>
<b>TOTAL (A+B)</b>		<b>706780296.07</b>	<b>872838847.27</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016**

<b>SCHEDULE - 3(a) SPONSORED PROJECTS</b>								
							<b>Amount in Rupees</b>	
<b>1 Sr No.</b>	<b>2. Name of the Project</b>	<b>Opening Balance</b>					<b>Closing Balance</b>	
		<b>3. Credit</b>	<b>4. Debit</b>	<b>5. Receipts /Recoveries during the year</b>	<b>6. Total</b>	<b>7. Expenditure during the year</b>	<b>8. Credit</b>	<b>9. Debit</b>
1	Application of Buildings Blocks from Morita Baylis	421660.00		321157.00	742817.00	235017.00	<b>507800.00</b>	
2								
3	Comparative Performance Eva Emission & Combustion	61740.00		809211.00	870951.00	433831.00	<b>437120.00</b>	
4	Design of Pulse Jet Filtration	554422.00		0.00	554422.00	271349.00	<b>283073.00</b>	
5	Design of Intrument for +ve Thread Feeding	0.00		1232681.00	1232681.00	325703.00	<b>906978.00</b>	
6	DST FIST Civil Deptt.	5125356.00		207065.00	5332421.00	0.00	<b>5332421.00</b>	
7	DST FIST CY Deptt.	1769818.00		110724.00	1880542.00	0.00	<b>1880542.00</b>	
8	DST FIST ECE Deptt.	0.00		9243354.00	9243354.00		<b>9243354.00</b>	
9	DST FIST ME Project	10696213.00		430804.00	11127017.00	48594.00	<b>11078423.00</b>	
10	DST FIST Textile Project	1631648.00		35146.00	1666794.00	1666794.00	<b>0.00</b>	
11	Earthquake Resistant Design of Reinforced Concrete	19531.82		587.00	20118.82	0.00	<b>20118.82</b>	
12	Electro Magnetic Structure of Hydrons at Low Q2 Physics	43679.00		2170.00	45849.00	0.00	<b>45849.00</b>	
13	Electro Optic Dielectirc Studies in Nano Material	388802.00		211339.00	600141.00	365134.00	<b>235007.00</b>	
14	Engg Properties of Fibre Reinforced Soil	6692.12		69.00	6761.12	0.00	<b>6761.12</b>	
15	Evaluation of Incylinder Comb. Of Bio Diesel	245187.00		9905.00	255092.00	0.00	<b>255092.00</b>	
16	Generalised & Transverse Momentum Dependent Parton Distrb.	366723.00		216720.00	583443.00	244829.00	<b>338614.00</b>	
17	GSDMA Project	28487.27		1150.00	29637.27		<b>29637.27</b>	
18	Hypron Semi Laptonic Weak Decays Chiral	5419.00		218.00	5637.00	0.00	<b>5637.00</b>	
19	Influence of Reinforcement Detaliling Concrete Beam	727905.00		29407.00	757312.00	0.00	<b>757312.00</b>	
20	Information Security Awareness Project	0.00		3688288.00	3688288.00	1072963.00	<b>2615325.00</b>	
21	Investigation of Dumping in Fibre Reinformced Comp.	357139.00		14192.00	371331.00	0.00	<b>371331.00</b>	
22	Measurement of Radmon Thoron & their Progeny Dist.	96633.00		959428.00	1056061.00	452045.00	<b>604016.00</b>	
23					0.00		<b>0.00</b>	

24	Modn. Of Chemical Process Control Lab	100000.00		3838.00	103838.00	0.00	<b>103838.00</b>	
25	Modn. Of Concrete Structure Lab	610750.00		24675.00	635425.00	0.00	<b>635425.00</b>	
26	Modn of Environmental Engg. Lab	1393026.00		56279.00	1449305.00	0.00	<b>1449305.00</b>	
27	Natioanl Mission on Edu. THR Information & comm.	28255.00		1138.00	29393.00	22758.00	<b>6635.00</b>	
28	Natural Product Inspired Design	0.00		484949.00	484949.00	514881.00	<b>-29932.00</b>	
29	NKN Project				0.00		<b>0.00</b>	
30	Optimization of Prod. Process of PP Carbon Nano	128230.00		5181.00	133411.00	0.00	<b>133411.00</b>	
31	Real Time Share Autonomy System	0.00		1180214.00	1180214.00	117792.00	<b>1062422.00</b>	
32	Some Universal features of Nuclear Structure	400550.00		217257.00	617807.00	241092.00	<b>376715.00</b>	
33	Special Manpower Development Programme	4229.00		1923028.00	1927257.00	92673.00	<b>1834584.00</b>	
34	Strangeness & Charmness in Heavy Ion	200638.00		309063.00	509701.00	211123.00	<b>298578.00</b>	
35	Study on Treatment of Ground Water	0.00		101919.00	101919.00	101919.00	<b>0.00</b>	
36	Tequip	297150.30		26422.00	323572.30	0.00	<b>323572.30</b>	
37	Tequip-II	34057712.44		1834056.56	35891769.00	21199311.00	<b>14692458.00</b>	
38	Y Radiation	0.00		182949.00	182949.00	162820.00	<b>20129.00</b>	
	<b>Total</b>	<b>59767595.95</b>	<b>0.00</b>	<b>23874583.56</b>	<b>83642179.51</b>	<b>27780628.00</b>	<b>55861551.51</b>	<b>0.00</b>

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### DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016							
SCHDULE 3(B) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS				(Amount in Rupees)			
1 Sr No.	2. Name of Sponsore	Opening Balance As on 01.04.2015		Transactions during the year		Closing as on 31.03.16	
		3	4	5	6	7	8
		CR	DR	CR	DR	CR	DR
1	University Grants Commission						
2	Ministry.....						
3	Others (specify individually)						
	Total						

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**SCHEDULE 3 (C) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS**

	Amount in Rupees	
	<b>Current Year</b>	<b>Previous Year</b>
<b>A. Plan grants:</b>		
Balance B/F	277322551.00	255809714.00
Add" Receipts during the year		
:Received during the year	39,800,000.00	150,000,000.00
: Accrued but not received		0.00
Total (a)	317122551.00	405809714.00
Less Refunds		0.00
Less: Utilized for Revenue Expenditure		0.00
Less: Utilized for Capital Expenditure	274885754.17	128487163.00
Total (b)	274885754.17	128487163.00
<b>Unutilized carried forward (a-b)</b>	<b>42236796.83</b>	<b>277322551.00</b>
<b>B.UGC grants</b>		
Balance B/F	0.00	0.00
Add" Receipts during the year	0.00	0.00
Total (c)	0.00	0.00
Less Refunds	0.00	0.00
Less: Utilized for Revenue Expenditure	0.00	0.00
Less: Utilized for Capital Expenditure	0.00	0.00
Total (d)	0.00	0.00
Unutilized carried forward (c-d)	0.00	0.00
<b>C, UGC Grants Non Plan Balance B/F receipts during the year</b>		
Balance B/F	0.00	0.00
Add" Receipts during the year	0.00	0.00
Total (e)	0.00	0.00
Less Refunds	0.00	0.00
Less: Utilized for Revenue Expenditure	0.00	0.00
Less: Utilized for Capital Expenditure	0.00	0.00
Total (f)	0.00	0.00
Unutilized carried forward (e-f)	0.00	0.00
<b>D, Grants from State Govt.</b>		
Balance B/F	0.00	0.00
Add" Receipts during the year	0.00	0.00
Total (g)	0.00	0.00
Less Refunds	0.00	0.00
Less: Utilized for Revenue Expenditure	0.00	0.00
Less: Utilized for Capital Expenditure	0.00	0.00
Total (hf)	0.00	0.00
Unutilized carried forward (g-h)	0.00	0.00
<b>*Grand total (A+B+C+D)</b>	<b>42236796.83</b>	<b>277322551.00</b>

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S No.	Assests Heads	Gross Block				Depreciation Block					Net Block	
		Cost as on 01.04.2015	Addition	Deduction	Total	Dep.Upto 31.03.2015	Add During the year	Deductions/ Adjustments	Rate of Dep.	Total Depreciation	Balance as on 31.03.2015	Balance as on 31.03.2016
1	2	3	4	5	6	9	10	12	11	13	14	
<b>A</b>	<b>Civil Works (Additions and Alternation)</b>				0.00							
1	Land (Freehold)	38681580.07			38681580.07							38681580.07
2	Building/work in Progress	2474011180.51	197209105.00		2671220285.51							2671220285.51
3	Amenities Provided by State Govt. in Addition of Lab	40625899.00			40625899.00							40625899.00
4	Making REC a Centre of Excellence	38999571.43			38999571.43							38999571.43
5	Roads (college Dev. Fund)	1435391.00			1435391.00							1435391.00
a	<b>Equipments</b>				0.00							0.00
1	Lab Equipments	350673463.03	52604477.00		403277940.03							403277940.03
2	Modernisation of Lab	42864527.23			42864527.23							42864527.23
<b>b</b>	<b>Plant &amp; Machinery</b>				0.00							0.00
1	Bain Mar & Two Burner	105156.00			105156.00							105156.00
2	Chapati Making Machine	997500.00			997500.00							997500.00
3	Coffee Machine	15356.00			15356.00							15356.00
4	Cooking Bhatti	10859.00			10859.00							10859.00
5	Deep Freezer	45915.00			45915.00							45915.00
6	Electric Chimney		383000.00		383000.00							383000.00
7	Fly Killer	101825.00			101825.00							101825.00
8	Gyssers	228333.00			228333.00							228333.00
9	Lawn Mover	82965.00			82965.00							82965.00
10	LED		148950.00		148950.00							148950.00
11	Mess Systems	349200.00			349200.00							349200.00
12	Mixi	9000.00			9000.00							9000.00
13	Pressure Cooker	19150.00			19150.00							19150.00

14	Puffer Plate	3315.00			3315.00							3315.00
15	Refrigerator	40000.00			40000.00							40000.00
16	Sports Amenities	554520.00	87000.00		641520.00							641520.00
17	Spy Pen Cameras				0.00							0.00
18	Briggs & Stratton Engine	28625.00			28625.00							28625.00
19	Utensils	1036027.00	1200675.00		2236702.00							2236702.00
20	Vertical Blends	47436.00			47436.00							47436.00
21	Wall Fans	1500.00			1500.00							1500.00
22	Water Cooler, Purifier, etc.	894596.00			894596.00							894596.00
23	ECG Machine	45000.00			45000.00							45000.00
<b>C</b>	<b>Office &amp; Office Equipments</b>				0.00							0.00
1	Other Facilities	23636624.00	1492668.00		25129292.00							25129292.00
2	Other Fixed Assets	10384370.80			10384370.80							10384370.80
3	Vaccum Cleaner	23480.00			23480.00							23480.00
4	Photocopier	340173.00			340173.00							340173.00
5	Weighing Machine	68933.00			68933.00							68933.00
6	Digital Camera/ CCTV Cameras	582275.00	175000.00		757275.00							757275.00
7	Air Conditioner	1910997.00			1910997.00							1910997.00
8	Audio Visual Teaching Equipments	3152726.00			3152726.00							3152726.00
9	Library Books	23148333.94	1248667.00		24397000.94							24397000.94
10	Medical Equipments	338722.10			338722.10							338722.10
11	Office Equipments	69365690.36	15729821.17	31270.00	85064241.53							85064241.53
12	Sports Amenities	3168087.38			3168087.38							3168087.38
13	Telephone Exchange	2692293.87			2692293.87							2692293.87
14	PA Systems	62354.00			62354.00							62354.00
15	LED TV	116800.00			116800.00							116800.00
16	DTH System	7252.00			7252.00							7252.00
<b>D</b>	<b>Furniture, Fixture &amp; Fittings</b>				0.00							0.00
1	Exhaust Fan	0.00			0.00							0.00

2	Electric Installation	0.00			0.00							0.00
3	Furniture, Fixture & Fittings	88621578.48	16869497.00		105491075.48							105491075.48
4	Sign Board	0.00			0.00							0.00
E	<b>Computer Oeripherale</b>				0.00							0.00
1	Computer	499113.00	1090216.00		1589329.00							1589329.00
2	Printers	224304.00			224304.00							224304.00
3	Projectors	0.00			0.00							0.00
4	Network Equipments	0.00			0.00							0.00
5	UPS Battery	110395.00	34750.00		145145.00							145145.00
	<b>Total (A)</b>	<b>3220362393.20</b>	<b>288273826.17</b>	<b>31270.00</b>	<b>3508604949.37</b>	0.00	<b>0.00</b>	0.00	0.00%	<b>0.00</b>	<b>0.00</b>	<b>3508604949.37</b>
B	<b>Capital Works in Prograss (B)</b>				0.00							0.00
C	<b>Intangible Assets (C)</b>											
	Software	906954.00			906954.00							906954.00
	E-Jpurnals	0.00			0.00							0.00
	Patents	0.00	2500.00		2500.00							2500.00
	<b>Total (c)</b>	<b>906954.00</b>	<b>2500.00</b>	<b>0.00</b>	<b>909454.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>909454.00</b>
D	Vehicle	9323813.39	12950.00		9336763.39							9336763.39
E	Assets Merged from Projects	10802696.00	0.00		10802696.00							10802696.00
F	Assets acquired but payment not released	0.00			0.00							0.00
H	Water Supply	4169295.00			4169295.00							4169295.00
	<b>Grand Total (A+B+C)</b>	<b>3245565151.59</b>	<b>288289276.17</b>	<b>31270.00</b>	<b>3533823157.76</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3533823157.76</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF Balance sheet as on 31.03.2016

Schedule 4 A-Plan (Fixed Assets)

(Amount in Rs)

S r No.	Assests Heads	Gross Block				Depreciation Block					Net Block	
		Cost as on 01.04.2015	Addition	Deduction		Dep.Upto 31.03.2015	Add During the year	Deductio ns/ Adjustm ents	Rate of Dep.	Total Deprecia tion	Balance as on 31.03.2015	Balance as on 31.03.2016
1	2	3	4	5	6	9	10	12	11	13	14	
<b>A</b>	Civil Works (Additions and Alternation)											
1	Land (Freehold)	38681580.07			38681580.07	0.00	0.00	0.00	2%	0.00	38681580.07	38681580.07
2	Building/work in Progress	2470211180.51	197209105.00		2667420285.51	0.00	0.00	0.00	2%	0.00	2470211180.51	2667420285.51
3	Amenities Provided by State Govt. in Addition of Lab	40625899.00			40625899.00	0.00	0.00	0.00	2%	0.00	40625899.00	40625899.00
4	Making REC a Centre of Excellence	38999571.43			38999571.43	0.00	0.00	0.00	2%	0.00	38999571.43	38999571.43
<b>a</b>	<b>Equipments</b>	0			0.00						0	0.00
1	Lab Equipments	239774543.03	43755734.00		283530277.03	0.00	0.00	0.00	8%	0.00	239774543.03	283530277.03
2	Modernisation of Lab	42864527.23			42864527.23	0.00	0.00	0.00		0.00	42864527.23	42864527.23
<b>b</b>	<b>Office &amp; Office Equipments</b>	0.00			0.00						0.00	0.00
1	Other Facilities	23636624.00	1492668.00		25129292.00	0.00	0.00	0.00	7.50%	0.00	23636624.00	25129292.00
2	Air Conditioner	1882667.00			1882667.00	0.00	0.00	0.00	7.50%	0.00	1882667.00	1882667.00
3	Audio Visual Teaching Equipments	3152726.00			3152726.00	0.00	0.00	0.00	7.50%	0.00	3152726.00	3152726.00
4	Library Books	22897991.94	1248667.00		24146658.94	0.00	0.00	0.00	10.00%	0.00	22897991.94	24146658.94
5	Medical Equipments	338722.10			338722.10	0.00	0.00	0.00	8.00%	0.00	338722.10	338722.10
6	Office Equipments	62695273.36	14398746.17	31270.00	77062749.53	0.00	0.00	0.00	7.50%	0.00	62695273.36	77062749.53
7	Sports Amenities	3168087.38			3168087.38	0.00	0.00	0.00	7.50%	0.00	3168087.38	3168087.38
8	Telephone Exchange	2692293.87			2692293.87	0.00	0.00	0.00	7.50%	0.00	2692293.87	2692293.87
<b>D</b>	<b>Furniture, Fixture &amp; Fittings</b>	0			0.00						0	0.00
1	Exhaust Fan	0.00			0.00	0.00	0.00	0.00	7.50%	0.00	0.00	0.00
2	Electric Installation	0.00			0.00	0.00	0.00	0.00	7.50%	0.00	0.00	0.00
3	Furniture, Fixture & Fittings	82653143.48	16809604.00		99462747.48	0.00	0.00	0.00	7.50%	0.00	82653143.48	99462747.48

4	Sign Board	0.00			0.00	0.00	0.00	0.00	7.50%	0.00	0.00	0.00
E	<b>Computer Oeripherale</b>	0.00			0.00						0.00	0.00
1	Computer	19163.00			19163.00	0.00	0.00	0.00	20.00%	0.00	19163.00	19163.00
2	Printers	0.00			0.00	0.00	0.00	0.00	20.00%	0.00	0.00	0.00
3	Projectors	0.00			0.00	0.00	0.00	0.00	20.00%	0.00	0.00	0.00
4	Network Equipments	0.00			0.00	0.00	0.00	0.00	20.00%	0.00	0.00	0.00
5	UPS Battery	0.00			0.00	0.00	0.00	0.00	20.00%	0.00	0.00	0.00
	<b>Total (A)</b>	<b>3074293993.40</b>	<b>274914524.17</b>	<b>31270.00</b>	<b>3349177247.57</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>3074293993.40</b>	<b>3349177247.57</b>
B	<b>Capital Works in Progress (B)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
C	Intangible Assets (C)											
	Software	755454.00			755454.00	0.00	0.00	0.00	40.00%	0.00	755454.00	755454.00
	E-Jpurnals	0.00			0.00	0.00	0.00	0.00		14000.00	0.00	0.00
	Patents	0.00	2500.00		2500.00	0.00	0.00	0.00		0.00	0.00	2500.00
	<b>Total (c)</b>	<b>755454.00</b>	<b>2500.00</b>	<b>0.00</b>	<b>757954.00</b>	<b>14000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>14000.00</b>	<b>755454.00</b>	<b>757954.00</b>
D	Vehicle	9323813.39			9323813.39	0.00	0.00	0.00		0.00	9323813.39	9323813.39
E	Assets Merged from Projects	10802696.00			10802696.00	0.00	0.00	0.00		0.00	10802696.00	10802696.00
F	Assets acquired but payment not released	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
H	Water Supply	4169295.00			4169295.00	0.00	0.00	0.00		0.00	4169295.00	4169295.00
	<b>Grand Total (A+B+C)</b>	<b>3099345251.79</b>	<b>274917024.17</b>	<b>31270.00</b>	<b>3374231005.96</b>	<b>14000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>14000.00</b>	<b>3099345251.79</b>	<b>3374231005.96</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016

Schedule 4B Non Plan (Fixed Assets)

(Amount-Rs)

<b>S No.</b>	<b>Assests Heads</b>	<b>Gross Block</b>				<b>Depreciation Block</b>					<b>Net Block</b>	
		<b>Cost as on 01.04.2015</b>	<b>Addition</b>	<b>Deduction</b>	<b>Total</b>	<b>Dep.Upto 31.03.2016</b>	<b>Add. During the year</b>	<b>Deductions/ Adjustments</b>	<b>Rate of Dep.</b>	<b>Total Depreciation</b>	<b>Balance as on 31.03.2015</b>	<b>Balance as on 31.03.2016</b>
1	2	3	4	5	6	9	10	12	11	13	14	
<b>A</b>	<b>Civil Works (Additions and Alternation)</b>											
1												
<b>a</b>	<b>Equipments</b>											
1	Lab Equipments											
<b>b</b>	<b>Office &amp; Office Equipments</b>											
<b>c</b>	<b>Furniture, Fixture &amp; Fittings</b>											
1	Exhaust Fan											
2	Electric Fan											
3	Furniture, fixture & Fittings											
4	Sign Board											
<b>d</b>	<b>Computer Peripherals</b>											
1	Computer											
2	Printer											
3	Projectors											
4	Network Equipments											
5	Software											
6	UPS Battery											
	<b>Total (A)</b>											
<b>B</b>	<b>Capital Works in Process (B)</b>											
<b>C</b>	<b>Intangible Assets (C)</b>											
	Assets Acquired but payment not made	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
	E-Journals											
	Patents											
	<b>Total (C)</b>											
	<b>Grant Total (A+B+C)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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# DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016

Schedule 4C - Projects (Fixed Assets)

(Amount-Rs)

S No.	Assests Heads	Gross Block				Depreciation Block					Net Block	
		Cost as on 01.04.2014	Addition	Deduction	Total	Dep.Upto 31.03.2015	Add. During the year	Deductions/ Adjustments	Rate of Dep.	Total Depreciat ion	Balance as on 31.03.2014	Balance as on 31.03.2015
1	2	3	4	5	6	9	10	12	11	13	14	
<b>A</b>	Civil Works (Additions and Alternation)											
1												
<b>a</b>	<b>Equipments</b>											
1	Lab Equipments	16965465.00	8848743.00		25814208.00	0.00	0.00	0.00		0.00	16965465.00	25814208.00
<b>b</b>	<b>Office &amp; Office Equipments</b>											
1	Library Books	250342.00			250342.00	0.00	0.00	0.00		0.00	250342.00	250342.00
2	Other Fixed Assets	9839088.80			9839088.80	0.00	0.00	0.00		0.00	9839088.80	9839088.80
3	Vaccum cleaner	23480.00			23480.00	0.00	0.00	0.00		0.00	23480.00	23480.00
4	Photo Copier	184573.00			184573.00	0.00	0.00	0.00		0.00	184573.00	184573.00
5	Office Equipments	302565.00			302565.00	0.00	0.00	0.00		0.00	302565.00	302565.00
6	Air Conditioner	28330.00			28330.00	0.00	0.00	0.00		0.00	28330.00	28330.00
7	Weighing Machine	9128.00			9128.00	0.00	0.00	0.00		0.00	9128.00	9128.00
8	Digital Camera	49200.00			49200.00	0.00	0.00	0.00		0.00	49200.00	49200.00
<b>c</b>	<b>Furniture, Fixture &amp; Fittings</b>											
1	Exhaust Fan	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
2	Electric Fan	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
3	Furniture, fixture & Fittings	798675.00			798675.00	0.00	0.00	0.00		0.00	798675.00	798675.00
4	Sign Board	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
<b>d</b>	<b>Computer Peripherals</b>											
1	Computer	479950.00	1090216.00		1570166.00	0.00	0.00	0.00		0.00	479950.00	1570166.00



2	Printer	224304.00			224304.00	0.00	0.00	0.00		0.00	224304.00	224304.00
3	Projectors	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
	Network Equipments	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
5	Software	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
6	UPS Battery	97395.00			97395.00	0.00	0.00	0.00		0.00	97395.00	97395.00
	<b>Total (A)</b>	29252495.80			39191454.80	0.00	0.00	0.00	0.00	0.00	29252495.80	39191454.80
<b>B</b>	<b>Capital Works in Process (B)</b>											
<b>C</b>	<b>Intangible Assets (C)</b>											
1	Computer Software	151500.00			151500.00	0.00	0.00	0.00		0.00	151500.00	151500.00
2	E-Journals	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
3	Patents	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
<b>D</b>	<b>Under TEQIP</b>											0.00
a	<b>Equipments</b>	93933455.00			93933455.00	0.00	0.00	0.00		0.00	93933455.00	93933455.00
b	<b>Office &amp; Office Equipments</b>	5812764.00	42234.00		5854998.00	0.00	0.00	0.00		0.00	5812764.00	5854998.00
c	<b>Furniture, Fixture &amp; Fittings</b>	5004557.00			5004557.00	0.00	0.00	0.00		0.00	5004557.00	5004557.00
d	<b>Civil Works</b>	3800000.00			3800000.00	0.00	0.00	0.00		0.00	3800000.00	3800000.00
<b>E</b>	<b>Under TEQIP-II</b>											0.00
	Printers	0.00			0.00		14000.00	0.00		14000.00	0.00	0.00
	Total (C)	108702276.00			108744510.00	0.00	14000.00	0.00		14000.00	108702276.00	108744510.00
	<b>0.00</b>	<b>137954771.80</b>	<b>9981193.00</b>	<b>0.00</b>	<b>147935964.80</b>	<b>0.00</b>	<b>28000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>14000.00</b>	<b>137954771.80</b>	<b>147935964.80</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016

Schedule 4D - Earmarked Funds (Fixed Assets)

(Amount-Rs)

<u>S No.</u>	<u>Assests Heads</u>	Gross Block				Depreciation Block					Net Block	
		<u>Cost as on 01.04.2015</u>	<u>Addition</u>	<u>Deduction</u>	<u>Total</u>	<u>Dep.Upto 31.03.2015</u>	<u>Add. During the year</u>	<u>Deductions/ Adjustments</u>	<u>Rate of Dep.</u>	<u>Total Depreciation</u>	<u>Balance as on 31.03.2015</u>	<u>Balance as on 31.03.2016</u>
1	2	3	4	5	6	9	10	12	11	13	14	
<b>A</b>	Civil Works (Additions and Alternation)											
1	Roads (College Dev. Fund)	1435391.00			1435391.00	0.00	0.00	0.00		0.00	1435391.00	1435391.00
<b>a</b>	<b>Equipments</b>											
1	Lab Equipments	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
<b>b</b>	<b>Plant &amp; Machinery</b>											
1	Bain Marl & Two Burner	105156.00			105156.00	0.00	0.00	0.00		0.00	105156.00	105156.00
2	Chapati Making Machine	997500.00			997500.00	0.00	0.00	0.00		0.00	997500.00	997500.00
3	Coffee Machine	15356.00			15356.00	0.00	0.00	0.00		0.00	15356.00	15356.00
4	Cooking Bhatti	10859.00			10859.00	0.00	0.00	0.00		0.00	10859.00	10859.00
5	Deep Freezer	45915.00			45915.00	0.00	0.00	0.00		0.00	45915.00	45915.00
6	Fly Killer	101825.00			101825.00	0.00	0.00	0.00		0.00	101825.00	101825.00
7	Gysers	228333.00			228333.00	0.00	0.00	0.00		0.00	228333.00	228333.00
8	Lawn Mover	82965.00			82965.00	0.00	0.00	0.00		0.00	82965.00	82965.00
9	Mess Systems	349200.00			349200.00	0.00	0.00	0.00		0.00	349200.00	349200.00
10	Mixi	9000.00			9000.00	0.00	0.00	0.00		0.00	9000.00	9000.00
11	Pressure Cooker	19150.00			19150.00	0.00	0.00	0.00		0.00	19150.00	19150.00
12	Puffer Plate	3315.00			3315.00	0.00	0.00	0.00		0.00	3315.00	3315.00
13	Referigerator	40000.00			40000.00	0.00	0.00	0.00		0.00	40000.00	40000.00
14	Sports Amenities	554520.00	87000.00		641520.00	0.00	0.00	0.00		0.00	554520.00	641520.00
15	Briggs & Stratton Engine	28625.00			28625.00	0.00	0.00	0.00		0.00	28625.00	28625.00
16	Utensils	1036027.00	1200675.00		2236702.00	0.00	0.00	0.00		0.00	1036027.00	2236702.00

17	Vehicle	0.00	12950.00		12950.00	0.00	0.00	0.00		0.00	0.00	12950.00
17	Vertical Blends	47436.00			47436.00	0.00	0.00	0.00		0.00	47436.00	47436.00
18	Wall Fans	1500.00			1500.00	0.00	0.00	0.00		0.00	1500.00	1500.00
19	Water Cooler, Purifier, etc.	894596.00			894596.00	0.00	0.00	0.00		0.00	894596.00	894596.00
20	ECG Machine	45000.00			45000.00	0.00	0.00	0.00		0.00	45000.00	45000.00
21	Weighing Machine	59805.00			59805.00	0.00	0.00	0.00		0.00	59805.00	59805.00
22	Electric Chimney	0.00	383000.00		383000.00						0.00	383000.00
<b>c</b>	<b>Office &amp; Office Equipments</b>											
1	DTH System	7252.00			7252.00	0.00	0.00	0.00		0.00	7252.00	7252.00
2	Other Fixed Assets	545282.00			545282.00	0.00	0.00	0.00		0.00	545282.00	545282.00
3	LED	116800.00	148950.00		265750.00	0.00	0.00	0.00		0.00	116800.00	265750.00
4	Photo Copier	155600.00			155600.00	0.00	0.00	0.00		0.00	155600.00	155600.00
5	Office Equipments	555088.00	1323591.00		1878679.00	0.00	0.00	0.00		0.00	555088.00	1878679.00
6	Air Conditioner	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
7	PA Systems	62354.00			62354.00	0.00	0.00	0.00		0.00	62354.00	62354.00
8	Digital Camera	533075.00	175000.00		708075.00	0.00	0.00	0.00		0.00	533075.00	708075.00
<b>d</b>	<b>Furniture, Fixture &amp; Fittings</b>											
1	Exhaust Fan	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
2	Electric Fan	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
3	Furniture, fixture & Fittings	165203.00	59893.00		225096.00	0.00	0.00	0.00		0.00	165203.00	225096.00
4	Sign Board	0.00			0.00	0.00	0.00	0.00		0.00	0.00	0.00
	<b>TOTAL</b>	8252128.00	3391059.00	0.00	11643187.00	0.00	0.00	0.00	0.00	0.00	8252128.00	11643187.00

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<u>S No.</u>	<u>Assests Heads</u>	Gross Block				Depreciation Block					Net Block	
		<u>Cost as on 01.04.2015</u>	<u>Addition</u>	<u>Deduction</u>	<u>Total</u>	<u>Dep.Upto 31.03.2016</u>	<u>Add. During the year</u>	<u>Deductions/ Adjustments</u>	<u>Rate of Dep.</u>	<u>Total Depreciation</u>	<u>Balance as on 31.03.2015</u>	<u>Balance as on 31.03.2016</u>
1	2	3	4	5	6	9	10	12	11	13	14	
<b>e</b>	<b>Computer Peripherals</b>											
1	Computer Peripherals	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
2	Printers	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
3	Projectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
4	Network Equipments	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
5	Software	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
6	UPS Battery	13000.00		0.00	0.00	0.00	0.00	0.00		0.00	13000.00	13000.00
	<b>Total (A)</b>	8265128.00	3391059.00	0.00	11643187.00	0.00	0.00	0.00	0.00	0.00	8265128.00	11656187.00
<b>B</b>	<b>Capital Works in Progress (B)</b>											
<b>C</b>	<b>Intangible Assets (C)</b>											
1	Computer Software	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
2	E-Journals	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
3	Patents	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
4	Total (C)	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
	<b>Grand Total (A+B+C)</b>	8265128.00	3391059.00	0.00	11643187.00	0.00	0.00	0.00		0.00	8265128.00	11656187.00

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016

(Amount-Rs)

<b>SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS</b>			<b>Current Year</b>	<b>Previous Year</b>
1	In Centre government Securities		0.00	0.00
2	In State Government Securities		0.00	0.00
3	Other approved Securites		0.00	0.00
4	Shares		0.00	0.00
5	Debentures and Bonds		0.00	0.00
6	Term Deposits with Banks		0.00	0.00
7	Other (to be specified)		0.00	0.00
<b>TOTAL</b>			<b>0.00</b>	<b>0.00</b>

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31.03.2016

(Amount -Rs.)

<b>SCHEDULE-6 - INVESTMENTS-OTHERS</b>		<b>Current Year</b>	<b>Previous year</b>
1.In Centre Government secutities		0.00	0.00
2.in State Government Securites		0.00	0.00
3. Other approved Securities		0.00	0.00
4. Shares		0.00	0.00
5. Debentures And Bonds		0.00	0.00
6. Others( to be speciifed)		0.00	0.00
<b>TOTAL</b>		<b>0.00</b>	<b>0.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016**

<b>(Amount in Rs)</b>				
<b>SCHEDULES 7 .CURRENT ASSSETS:</b>	<b>Current Year</b>		<b>Previous year</b>	
<b>A. CURRENT ASSETS:</b>				
<b>1. Inventories:</b>				
a) Electrical Material			0.00	0.00
b) Stationery	782303.00		368930.35	0.00
c)Water Supply material			0.00	0.00
d) Misc. Items	43593.00		26676.97	0.00
e)Consumables		825896.00	169606.43	565213.75
<b>2. Sundry Debtors:</b>				
a) Debts Outstanding for a period exceeding six months			0	
b)Others		0.00	0	
<b>3. Cash balances in hand</b>				
Cash in hand(including Imprest)		837919.00	1218097.00	
stamps in hand		12876.80	15592.80	1233689.80
<b>4.Bank Balances:</b>				
a) With Scheduled Banks:				
Term Deposits(As per Annexure/Chart)		828634037.00	711886631.00	
Saving/Current Accounts(As per Annexure)		246192381.82	668145248.65	1380031879.65
<b>5. Post Office- Saving Accounts</b>		0.00		
<b>TOTAL</b>		<b>1076503110.62</b>		<b>1381830783.20</b>

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**ANNEXURE SHOWING THE BALANCES OF VARIOUS BANK ACCOUNTS AS AT 31.03.2016 FORMING  
PART OF SCHEDULE 7 OF THE BALANCE SHEET**

(Amount -Rs.)					
Sr. no.	Name of Account	Bank	A/c no.	Current Year	Previous year
<b>A</b>	<b>Main Account</b>				
1	Main Account	SBP	55088193207	71741503.81	176566518.06
2	Pension Fund A/c	Canara Bank	1502	5244174.40	5154729.40
3	Main Account NIT Campus	Canara Bank	13933	17852054.08	235904447.08
	<b>Total A</b>			<b>94837732.29</b>	<b>417625694.54</b>
<b>B</b>	<b>Other Accounts</b>				
1	Student Fund	SBP	55088195589	1853846.56	1144620.56
2	Student Fund	Canara Bank	990	12388602.24	72046195.24
3	Hostel Fund	SBP	55088195556	4694046.16	5583357.66
4	NIT CPF	SBP	55088195170	52886227.34	680937.34
5	NIT GPF		65167815353	2092774.00	65891030.00
6	Loans and Advances	SBP	55088195487	1714195.92	744495.92
7	Security fund	SBP	55088195443	6374270.69	349598.69
8	Security fund	Canara Bank	991	535656.70	13670946.36
9	Scholarship Account	SBP	55088195590	2214494.61	-7170479.39
10	Consultancy Account	Canara Bank	631	1856591.90	
11	Consultancy Account	SBP	55088195476	324552.91	1597447.81
12	Student Aid Fund	<b>SBP</b>	55088195498	130168.34	125113.34
13	College Development Fund	SBP	55088195771	7288654.98	22982518.98
14	Institution Gold Medal Account	SBP	55088195567	16275.34	15600.34
15	Workshop Seminar Account	SBP	55088195691	308380.31	296406.31
16	Benevolent Fund	SBP	55088195465	192218.91	132811.91
17	Rajiv Gandhi Drinking water Survey	Canara Bank	30328	30142	31262
18	Scheme				
19	Examination Cell	SBP	55088195261	1952818.49	1431065.49
20	Examination Cell	Canara Bank	992	5179452.28	19651344.28
21	Akash Sexena memorial Scholarship A/c	SBP	55088195192	4141.56	7332.56
	<b>Total B</b>			<b>102037511.2</b>	<b>199211605.40</b>
<b>C</b>	<b>Projects</b>				
1	Application of Buildings Blocks from Morita Baylis	SBP		507800	421660
2	Comparative Performance Eva Emmission & Combustion	SBP		437120	61740
3	Design of Pulse Jet Filtration	SBP		52377	208726
	Design of Intrument for +ve Thread Feeding	SBP		936157	0
4	DST FIST Civil Deptt.	Canara Bank		5332421	5125356
5	DST FIST CY Deptt.	Canara Bank		54571	52452
6	DST FIST ME Project	Canara Bank		11078423	10696213
7	DST FIST Project Textile	Canara Bank		0	1631648
8	DST FIST ECE Dept	SBP		1026537	0
9	Earthquake Resistant Design of Reinforced Concrete	Canara Bank		15118.82	14531.82
10	ElectroMagnetic Structure of Hydrons at low Q2 Physic	Canara Bank		45849.00	43679.00
11	Electro Optic Dielectric Studies in Nano Material	Canara Bank		235007.00	368802
12	Engg. Properties of Fibre Reinforced Soil	SBP		1761.12	1692.12
13	Evaluation of incylinder Comb. Of Biom Diesel	SBP		255092	245187
14	Generalised & Transverse Momentum	Canara Bank			

	Dependent Parton Distrib.			343411.00	366723.00
15	GSDMA Project	SBP		29637.27	28487.27
16	Hypron Semi Laptonic Weak Decays Chiral	Canara Bank		5637.00	5419
17	Infufluence of Reinforceent Detailing	Canara Bank			
	Concrete Beam			757312	727905
18	Investigation of Dumping in Fibrer	Canara Bank		875.00	875.00
	Reinforced Comp.	Canara Bank		365456	351264
19	Information Security Awareness Project	SBP		2731279	0
20	Measurement of Radon inoron & Their	SBP			
	Progeny Dist.			594016.00	86633.00
21	Modn. of Chemical Process Control Lab	SBP		98838.00	95000.00
22	Modn. of Concrete Structure Lab	SBP		635425.00	610750.00
23	Modn. of Environmental Engg. Lab	SBP		1449305.00	1393026.00
24	National Mission on Edu. THR information				
	& Comm.			6635.00	28255.00
25	NKN Project			0.00	0.00
26	Natural Product Inspired Design			0.00	0.00
27	Optimization of Prod. Pocess of PP				
	carbon Nano			133411.00	128230.00
28	Some Universal features of Nuclear	SBP			
	Structure			376715.00	400550.00
29	Special Manpower Development	SBP	,65233400342	1795152.00	0.00
	programme	SBP	,65004468132	4432.00	4229.00
30	Strangness & Charmness in Heavy Ion			298578.00	200638.00
					0.00
31	Real Time Share	SBP		992422.00	0.00
32	Y Radiation	SBP		20129	0.00
	Total C			30616899.21	23299671.21
D	Fee Account				
1	State Bank of Patiala		609	10019151.53	11912474.50
2	State Bank of Patiala		4806	0.00	5291326.95
3	Canara Bank			-95915.25	278614.75
4	ICICI Bank			310865.50	0.00
	Total D			10234101.78	17482416.20
e	Main Under OSC-Scheme				
1	Main Account(OSC)	SBP		1044323.00	1006734.00
2	OSC Scheme-canara	Canara Bank		420372.00	404048.00
	Total E			1464695.00	1410782.00
F	TEQIP				
1	TEQIP SBP	Canara Bank		126052.30	117274.30
2	TEQIP Canara Bank	SBP		436776.00	419132.00
	Total			562828.30	536406.30
G	TEQIP II				
1	State Bank of Patiala	SBP		4252173	6477078
2	Canara Bank			2186441	2101595
				6438614.00	8578673
	Total Bank Balance			246192381.82	668145248.65

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**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31.03.2016**

(Amount -Rs)				
<b>SCHEDULE 8-LOANS, ADVANCES AND DEPOSITS</b>	<b>Current Year</b>		<b>Previous year</b>	
<b>1. Advances to Employee:(Non Interest Bearing)</b>				
a) Salary	7166789.00		0.00	
b) Festival	0.00		0.00	
c) Medical Advance	0.00		0.00	
d) For Expenses(List Attached)	25838003.00	33004792.00	18569272.00	18569272.00
<b>2. Long Term Advances to Employee :(Interest Bearing)</b>				
a) Vehical Loan	0.00		0.00	
b) Home Loan	0.00		0.00	
c) Other to be Specified	0.00	0.00	5509355.00	5509355.00
<b>3. Advances and other amounts recoverable in cash or in kind or for value to be received:</b>				
a) Ocroi Receivable from PSPCL	1896436.00		2962716.00	
b) Interest Receivable from Bank on FDR (PROJECTS)	1759661.00		1922668.00	
c) Inter Fund Balances	195654514.84		106447875.84	
d) TDS Recoverable	659714.00		373061.00	
e) Fee Receivable from Students	520750.00		520750.00	
f) CCMT-2012	5000.00		5000.00	
g) Institute of Public Admn.	21349.00		21349.00	
h) House & Shop Rent	0		0.00	
i) Tech NIT	2500000.00		0.00	
j) Commandant CATC Camp	40935.00		0.00	
k) CPWD	0.00	203058359.84	0.00	112253419.84
<b>Prepaid Expenses</b>				
a) Insurance			60433	
b) AMC Charges		0.00	48106	108539.00
<b>Deposits</b>				
a) Telephone			0.00	
b) Lease rent(IAMR)			0.00	
c) security with PSPCL	1854076.00		1854076.00	
d) Security for LPG Connection	112258.00	1966334.00	112258.00	1966334.00
<b>Income Accrued:</b>				
a) On Investment from Earmarked/Endowment Funds	60263728.94		0.00	
b) On Investments-Others	8777012.26		0.00	
c) On Loan and Advance			0.00	
d) On Term Deposits		69040741.20	49881832.07	49881832.07
<b>Other-current assets receivable from UGC/Sponsored Projects</b>				
a) Debit balance in Sponsored Projects	1239449.00		0.00	
b) Debit balance in Sponsored fellowship & Scholarships	0.00		0.00	
c) Grant Receivable	0.00		0.00	
d) Other Receivable from UGC	0.00	1239449.00	0.00	0.00
<b>Claims Receivable</b>		0.00	0.00	0.00
<b>TOTAL</b>		<b>308309676.04</b>		<b>188288751.91</b>

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**ANNEXURE STATEMENT SHOWING OTHER ASSETS AS AT 31.03.2016 . FORMING PART OF SCHEDULE 8 OF BALANCE SHEET**

(Amount -Rs.)					
Sr. no.	Particular	Opening Balance Receivable	Received /adjusted during the year	Paid /Adjusted During the year	Amt Transferred to Current Assets
<b>A</b>	<b>Inter Fund/Branch Transection</b>				
1	Consultancy Fund	3251868.57	0.00		3251868.57
2	College Development Fund	51617372.09			51617372.09
3	Student Aid fund	25143.00	0.00	0.00	25143.00
4	Intitute Gold Medel Fund	55990.00	0.00	0.00	55990.00
5	Worshop Seminar Fund	51682.00	0.00	0.00	51682.00
6	Rajiv Gandhi Drinking Water Scheme	4960.00	0.00	0.00	4960.00
7	Scholarship A/c	8666079.56	0.00	0.00	8666079.56
8	Security Fund	13639046.97	2726.00		13636320.97
9	Teqip-II				0.00
10	Students Funds	4992891.00	226760.00		4766131.00
11	Measurement Projects				0.00
12	Hostel Funds	1317433.95		7268.00	1324701.95
13	Examination A/c	12869268.45			12869268.45
14	Fee Fund	12606341.25		15346963.00	27953304.25
15	Main A/c	1367094.00	1367094.00		0.00
16	NKN Projects	19000.00			19000.00
17	CPF&GPF Fund (SECURITY)	368246.00			368246.00
	CPF&GPF Fund (MAIN)	64186.00	0.00	61565144.00	61629330.00
18	Pension Fund	0.00		0.00	0.00
19	Loans & Advances	1000000.00	0.00	3084717.00	4084717.00
	<b>Total</b>	<b>111916602.84</b>	<b>1596580.00</b>	<b>80004092.00</b>	<b>190324114.84</b>
	<b>Receivable from others</b>				
1	Fee Receivable from Punjab Govt.	5330400.00			5330400.00
2	Anil Kumar				0.00
3	Aashim Sareen 05109001				0.00
4	Vikas Kumar				0.00
	<b>Total</b>	<b>5330400.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5330400.00</b>
	<b>Total (A+B)</b>	<b>117247002.84</b>	<b>1596580.00</b>	<b>80004092.00</b>	<b>195654514.84</b>

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## Annexure to Schedule 7 &amp; 8

## Statement showing investment and accrued income/interest as on 31.03.2016 forming part of Balance Sheet

	Particulars	Date of investment	FDRs as at 01.04.2015	Total accrued as at 01.04.2015	Date of Addition	Addition	Deduction		D.O. M	Maturity Value	Rate of interest	Current year interest	Total accrued as at 31.03.2016	TDS deducted during the year	Net Accrued as at 31.03.2016	Closing Balance of FDRs as at 31.03.16
							Principle	Intt								
A	CPF															
	FDR															
1	FDR with SBP	23/12/2013	2817036.00	330949.00			2817036.00	0.00	1/7/2015	3225731.00		70096.00	401045.00	0.00	401045.00	0.00
2	FDR with SBP	23/12/2013	8621.00	1013.00			8621.00	1227.00	1/7/2015	9872.00		214.00	1227.00	0.00	1227.00	0.00
3	FDR with SBP	23/12/2013	3857279.00	453167.00			3857279.00	549147.00	1/7/2015	4396837.00		95980.00	549147.00	9598.00	539549.00	0.00
4	FDR with SBP	23/12/2013	3583212.00	420960.00			3583212.00	510121.00	1/7/2015	4093350.00		89161.00	510121.00	0.00	510121.00	0.00
5	FDR with SBP	23/12/2013	6956055.00	817209.00			6956055.00	990326.00	1/7/2015	7965238.00		173087.00	990296.00	17309.00	972987.00	0.00
6	FDR with SBP	23/12/2013	5000000.00	587412.00			5000000.00	711827.00	1/7/2015	5699402.00		124415.00	711827.00	12442.00	699385.00	0.00
7	FDR with SBP	23/12/2013	5166437.00	606966.00			5166437.00	735540.00	1/7/2015	5915983.00		128556.00	735522.00	12856.00	722666.00	0.00
8	FDR with SBP	23/12/2013	7626515.00	895980.00			7626515.00	1085778.00	1/7/2015	8732968.00		189770.00	1085750.00	18977.00	1066773.00	0.00
9	FDR with SBP	23/12/2013	8262057.00	970644.00			8262057.00	1176260.00	1/7/2015	9460714.00		205584.00	1176228.00	20559.00	1155669.00	0.00
10	FDR with SBP	23/12/2013	5000000.00	587412.00			5000000.00	711827.00	1/7/2015	5699402.00		124415.00	711827.00	12442.00	699385.00	0.00
11	FDR with SBP	23/12/2013	5128450.00	602503.00			5128450.00	730114.00	1/7/2015	5872484.00		127611.00	730114.00	12762.00	717352.00	0.00
12	FDR with SBP	23/12/2013	8990837.00	1056255.00			8990837.00	1280016.00	1/7/2015	10295226.00		223718.00	1279973.00	22372.00	1257601.00	0.00
13	FDR with SBP	23/12/2013	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5725399.00		124415.00	711827.00	12442.00	699385.00	0.00
14	FDR with SBP	23/12/2013	5128450.00	602503.00			5128450.00	730114.00	1/7/2015	5872484.00		127611.00	730114.00	12762.00	717352.00	0.00
15	FDR with SBP	23/12/2013	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5725399.00		124415.00	711827.00	12442.00	699385.00	0.00
16	FDR with SBP	23/12/2013	5128450.00	602503.00			5128450.00	730131.00	1/7/2015	5872484.00		127611.00	730114.00	12762.00	717352.00	0.00
17	FDR with SBP	23/12/2013	2809399.00	330057.00			2809399.00	399971.00	1/7/2015	3216986.00		69906.00	399963.00	6991.00	392972.00	0.00
18	FDR with SBP	23/12/2013	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5725399.00		124415.00	711827.00	12442.00	699385.00	0.00
19	FDR with SBP	23/12/2013	5137300.00	603544.00			5137300.00	731391.00	1/7/2015	5882618.00		127831.00	731375.00	12784.00	718591.00	0.00
20	FDR with SBP	23/12/2013	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5725399.00		124415.00	711827.00	12442.00	699385.00	0.00
21	FDR with SBP	23/12/2013	5128450.00	602503.00			5128450.00	730131.00	1/7/2015	5872484.00		127611.00	730114.00	12762.00	717352.00	0.00

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22	FDR with SBP	23/12/2013	9502242.00	1116338.00			9502242.00	1352824.00	1/7/2015	10880825.00		236444.00	1352782.00	23645.00	1329137.00	0.00
23	FDR with SBP	29/10/14	2553147.00	99557.00					6/5/2016	2929359.00		251402.00	350959.00	0.00	350959.00	2553147.00
24	FDR with SBP	5/4/2014	6297878.00	596143.00					12/10/2015	7236627.00		609158.00	1205301.00	0.00	1205301.00	6297878.00
25	FDR with SBP	30/1/14/	6781045.00	733023.00			6781045.00	974127.00	8/8/2015	7755164.00		241104.00	974127.00	0.00	974127.00	0.00
26	FDR with SBP	30/01/14	6215958.00	671937.00			6215958.00	892949.00	8/8/2015	7108900.00		221012.00	892949.00	0.00	892949.00	0.00
27	FDR with SBP	13/09/14	9156429.00	466151.00			9156429.00	1351850.00	22/03/16	10508279.00		885276.00	1351427.00	0.00	1351427.00	0.00
28	FDR with SBP	13/09/14	9156429.00	466151.00			9156429.00	1351850.00	22/03/16	10508279.00		885276.00	1351427.00	0.00	1351427.00	0.00
29	FDR with SBP	13/09/14	9156429.00	466151.00			9156429.00	1351850.00	22/03/16	10508279.00		885276.00	1351427.00	0.00	1351427.00	0.00
30	FDR with SBP	13/9/2014	9156429.00	466151.00			9156429.00	1351850.00	22/03/16	10508279.00		885276.00	1351427.00	0.00	1351427.00	0.00
31	FDR with SBP	13/09/2014	9156429.00	466151.00			9156429.00	1351850.00	22/03/16	10508279.00		885276.00	1351427.00	0.00	1351427.00	0.00
32	FDR with SBP	6/10/2014	1212165.00	54005.00					14/04/16	1390780.00		119932.00	173937.00	0.00	173937.00	1212165.00
33	FDR with SBP	22/10/2014	6812814.00	276289.00					30/04/16	7816698.00		671720.00	948009.00	0.00	948009.00	6812814.00
34	FDR with SBP	22/10/2014	6812814.00	276289.00					30/04/16	7816698.00		671720.00	948009.00	0.00	948009.00	6812814.00
35	FDR with SBP	22/10/2014	6812814.00	276289.00					30/04/16	7816698.00		671720.00	948009.00	0.00	948009.00	6812814.00
36	FDR with SBP	6/10/2014	174494.00	7783.00			0.00	0.00	21/10/2017	224368.00		17264.00	25047.00	0.00	25047.00	174494.00
37	FDR with SBP	7/4/2014	968562.00	92772.00					7/10/2015	1112934.00		93828.00	186600.00	0.00	186600.00	968562.00
38	FDR with SBP	6/10/2014	8000000.00	370187.00					8/4/2016	9178819.00		792554.00	1162741.00	0.00	1162741.00	8000000.00
39	FDR with SBP	6/10/2014	8000000.00	370187.00					8/4/2016	9178819.00		792554.00	1162741.00	0.00	1162741.00	8000000.00
40	FDR with SBP	6/10/2014	8000000.00	370187.00					8/4/2016	9178819.00		792554.00	1162741.00	0.00	1162741.00	8000000.00
41	FDR with SBP	6/10/2014	8000000.00	370187.00					8/4/2016	9178819.00		792554.00	1162741.00	0.00	1162741.00	8000000.00
42	FDR with SBP	6/10/2014	8000000.00	370187.00					8/4/2016	9178819.00		792554.00	1162741.00	0.00	1162741.00	8000000.00
43	FDR with SBP	6/140/2014	6518114.00	301615.00					8/4/2016	7478574.00		645745.00	947360.00	0.00	947360.00	6518114.00
44	FDR with SBP				18/12/2015	1100000.00						25629.00	25629.00	0.00	25629.00	1100000.00
45	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
46	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
47	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
48	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
49	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
50	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
51	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00

52	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
53	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
54	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
55	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
56	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
57	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
58	FDR with SBP				6/7/2015	9000000.00			6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
59	FDR with SBP				6/7/2015	1542713.00			6/1/2017	1752717.00		100694.00	100694.00	0.00	100694.00	1542713.00
60	FDR with SBP	7/4/2014	21290.00	2040.00					14/4/2017	27497.00		2063.00	4103.00	0.00	4103.00	21290.00
	Total		<b>252194030.00</b>	<b>21106998.00</b>		<b>128642713.00</b>	<b>174009938.00</b>	<b>24630447.00</b>				<b>23823540.00</b>	<b>44930538.00</b>		<b>44659747.00</b>	<b>206826805.00</b>
B	<b>GPF</b>															
1	WITH SBOP GPF	7/8/2014	4878882.00	295299.00			4878882.00	461971.00	7/8/2015	5340852.00		166672.00	461971.00	0.00	461971.00	0.00
2	WITH SBOP GPF	7/8/2014	11970.00	1147.00					14/4/2017	15460.00		1160.00	2307.00	0.00	2307.00	11970.00
3	WITH SBOP GPF	17/01/14	1000000.00	111291.00					31/1/2017	1298921.00		99643.00	210934.00	0.00	210934.00	1000000.00
4	WITH SBOP GPF				18/12/2015	3000000.00			21/6/2017	3372094.00		69898.00	69898.00	0.00	69898.00	3000000.00
5	WITH SBOP GPF				8/8/2015	9000000.00			13/02/2017	10225136.00		505234.00	505234.00	0.00	505234.00	9000000.00
6	WITH SBOP GPF				8/8/2015	9000000.00			13/02/2017	10225136.00		505234.00	505234.00	0.00	505234.00	9000000.00
7	WITH SBOP GPF				8/8/2015	2204916.00			13/02/2017	2505063.00		123778.00	123778.00	0.00	123778.00	2204916.00
8	FDR WITH CANARA BANK GPF				30/4/15	3500000.00			6/8/2016	3893355.00		276661.00	276661.00	0.00	276661.00	3500000.00
9	FDR WITH CANARA BANK GPF	1/2/2015	9277732.00	42741.11					18/9/16	10598627.00		855057.00	897798.11	0.00	897798.11	9277732.00
10	FDR WITH CANARA BANK GPF	2/2/2015	2500000.00	29294.52					2/5/2016	2789258.00		238822.00	268116.52	0.00	268116.52	2500000.00
	Total		<b>17668584.00</b>	<b>479772.63</b>		<b>26704916.00</b>	<b>4878882.00</b>	<b>461971.00</b>				<b>2842159.00</b>	<b>3321931.63</b>		<b>3321931.63</b>	<b>39494618.00</b>
C	<b>Consultancy Fund</b>															
1	With canara Bank															
2	With canara Bank				1/5/2015	1200000.00			18/7/2016	1334864.00		100761.00	100761.00	0.00	100761.00	1200000.00
3	With canara Bank	17/4/14	1093817.00	99972.87			1093817.00	128515.00	5/7/2015	1222333.00		28542.00	128514.87	0.00	128514.87	0.00
4	WITH SBOP	9/7/2014	7332996.00	508976.00				0.00	4/7/2017	9413560.00		703440.00	1212416.00	0.00	1212416.00	7332996.00

	Total		8426813.00	608948.87		1200000.00	1093817.00	128515.00				832743.00	1441691.87		1441691.87	8532996.00
D	<b>Hostel Fund</b>												0.00			
1	With SBP	1/1/2014	3137558.00	367816.00				0.00	7/1/2017	4072256.00		0.00	367816.00	0.00	367816.00	3137558.00
2	With SBP	1/1/2014	3917271.00	459222.00				0.00	7/1/2017	5084251.00		557805.00	1017027.00	0.00	1017027.00	3917271.00
3	With SBP	1/1/2014	1391597.00	163142.00				0.00	7/1/2017	1806162.00		198158.00	361300.00	0.00	361300.00	1391597.00
4	With SBP	1/10/2014	1323750.00	62977.00					4/4/2016	1518961.00		132461.00	195438.00	227.00	195211.00	1323750.00
5	With SBP	7/4/2014	34770.00	3331.00			0.00	0.00	14/4/17	44908.00		1852.00	5183.00	0.00	5183.00	34770.00
6	With SBP				1/5/2015	5000000.00	5000000.00	145000.00	24/9/2015	5145000.00		145000.00	145000.00	0.00	145000.00	0.00
7	With SBP				8/10/2015	3000000.00			15/4/2017	3372094.00		0.00		0.00	0.00	3000000.00
	With SBP				27/7/15	3055832.00			1/2/2017	3471811.00		0.00	0.00		0.00	3055832.00
8	With canara Bank	17/4/14	2734045.00	249931.66			2734045.00	321787.00	5/7/2015	3055832.00		71855.00	321786.66	0.00	321786.66	0.00
9	With canara Bank	21/1/15	200000.00	2443.29					30/4/16	223141.00		19116.00	21559.29	0.00	21559.29	200000.00
	Total		12738991.00	1308862.95		11055832.00	7734045.00	466787.00				1126247.00	2435109.95	227.00	2434882.95	16060778.00
E	<b>Security Fund</b>															
1	With SBP	24/12/13	357639.00	41933.00			357639.00	50930.00	2/7/2015	409525.00		8997.00	50930.00	0.00	50930.00	0.00
2	With SBP	24/12/13	146991.00	13990.00			146991.00	20930.00	2/7/2015	168316.00		6940.00	20930.00	0.00	20930.00	0.00
3	With SBP	24/12/13	1462636.00	139213.00			1462636.00	208274.00	2/7/2015	1674835.00		69061.00	208274.00	0.00	208274.00	0.00
4	With SBP	24/12/13	297534.00	28319.00			297534.00	42368.00	2/7/2015	340700.00		14049.00	42368.00	0.00	42368.00	0.00
5	With SBP	6/1/2014	260770.00	24789.00					20/1/17	336448.00		25831.00	50620.00	2479.00	48141.00	260770.00
6	With SBP	24/12/13	876609.00	83435.00			876609.00	0.00	2/7/2015	1003787.00		41391.00	124826.00	0.00	124826.00	0.00
7	With SBP	24/12/13	75758.00	7211.00			75758.00	10787.00	2/7/2015	86749.00		3576.00	10787.00	0.00	10787.00	0.00
8	With SBP	24/12/13	1614190.00	189233.00			1614190.00	229855.00	2/7/2015	1848376.00		40622.00	229855.00	0.00	229855.00	0.00
9	With SBP	24/12/13	322065.00	38633.00			322065.00	47218.00	21/6/15	368790.00		8585.00	47218.00	0.00	47218.00	0.00
10	With SBP	24/12/13	535154.00	50936.00			535154.00	76903.00	2/7/2015	612794.00		25267.00	76203.00	0.00	76203.00	0.00
11	With SBP	24/12/13	595377.00	56688.00			595377.00	84779.00	2/7/2015	681754.00		28091.00	84779.00	0.00	84779.00	0.00
12	With SBP	24/12/13	539481.00	51348.00			539481.00	76820.00	2/7/2015	617749.00		25472.00	76820.00	0.00	76820.00	0.00
13	With SBP	24/12/13	312248.00	36614.00			312248.00	44462.00	2/7/2015	357549.00		7848.00	44462.00	0.00	44462.00	0.00
14	With SBP	1/4/2012	9850.00	1977.00			9850.00	1977.00	21/6/15	11827.00		0.00	1977.00	0.00	1977.00	0.00
15	With SBP	24/12/13	2108.00	255.00			2108.00	255.00	21/6/15	2414.00		0.00	255.00	0.00	255.00	0.00
16	With SBP	24/12/13	1852.00	231.00			1852.00	231.00	22/6/15	2121.00		0.00	231.00	0.00	231.00	0.00

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17	With SBP	7/8/2014	709955.00	42971.00			0.00	0.00	7/8/2017	845540.00		68073.00	111044.00	0.00	111044.00	709955.00
18	With SBP	9/7/2014	5515121.00	382799.00			0.00	0.00	4/7/2017	7079906.00		529054.00	911853.00	0.00	911853.00	5515121.00
19	With SBP				8/7/2015	7783847.00			7/1/2017	8843432.00		506157.00	506157.00	0.00	506157.00	7783847.00
20	With SBP				15/7/15	4000000.00			21/6/2017	4496125.00		93197.00	93197.00	0.00	93197.00	4000000.00
21	With canara Bank	17/1/15	2734045.00	50441.26			0.00	0.00	5/4/2016	3050383.00		262913.00	313354.26	0.00	313354.26	2734045.00
22	With canara Bank				2/4/2015	8868807.00	0.00	0.00	19/6/2016	9865545.00		811323.82	811323.82	0.00	811323.82	8868807.00
23	With canara Bank	17/4/14	5468089.00	499861.27			5468089.00	643572.00	5/7/2015	6111661.00		143711.00	643572.27	0.00	643572.27	0.00
24	With canara Bank				2/1/2016	3000000.00	0.00	0.00	2/7/2016	3113555.00		55625.00	55625.00	0.00	55625.00	3000000.00
25	With canara Bank				1/5/2015	4500000.00	0.00	0.00	18/7/2016	5005741.00		377855.21	377855.21	0.00	377855.21	4500000.00
26	With canara Bank	4/1/2015	2732262.00	59263.89			0.00	0.00	5/10/2017	3430924.00		258833.95	318097.84	0.00	318097.84	2732262.00
27	With canara Bank	30/1/15	2500000.00	38020.55			0.00	0.00	18/4/16	2789258.00		239643.71	277664.26	0.00	277664.26	2500000.00
	Total		27069734.00	1838161.97		28152654.00	12617581.00	1539361.00				3652116.69	5490278.66	2479.00	5487799.66	42604807.00
F	College Dev.Fund															
1	With SBP	1/1/2014	9321100.00	1093060.00			9321100.00	1325035.00	1/7/2015	10646135.00		231975.00	1325035.00	0.00	1325035.00	0.00
2	With SBP	23/12/13	5000000.00	587412.00			0.00	0.00		0.00		124432.00	711844.00	0.00	711844.00	5000000.00
3	With SBP	23/12/13	5319186.00	624910.00			5319186.00	757286.00	1/7/2015	6076472.00		132376.00	757286.00	0.00	757286.00	0.00
4	With SBP	1/1/2014	7787337.00	914873.00			7787337.00	1108674.00	1/7/2015	8896011.00		193801.00	1108674.00	0.00	1108674.00	0.00
5	With SBP	23/12/13	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5711844.00		124432.00	711844.00	0.00	711844.00	0.00
6	With SBP	23/12/13	5127397.00	602376.00			5127397.00	729982.00	1/7/2015	5857379.00		127606.00	729982.00	0.00	729982.00	0.00
7	With SBP	23/12/13	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5711844.00		124432.00	711844.00	0.00	711844.00	0.00
8	With SBP	23/12/13	5127397.00	602376.00			5127397.00	729982.00	1/7/2015	5857379.00		127606.00	729982.00	0.00	729982.00	0.00
9	With SBP	23/12/13	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5711844.00		124432.00	711844.00	0.00	711844.00	0.00
10	With SBP	23/12/13	5127397.00	602376.00			5127397.00	729982.00	1/7/2015	5857379.00		127606.00	729982.00	0.00	729982.00	0.00
11	With SBP	23/12/13	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5711844.00		124432.00	711844.00	0.00	711844.00	0.00
12	With SBP	23/12/13	5127397.00	602376.00			5127397.00	729982.00	1/7/2015	5857379.00		127606.00	729982.00	0.00	729982.00	0.00
13	With SBP	23/12/13	5000000.00	587412.00			5000000.00	711844.00	1/7/2015	5711844.00		124432.00	711844.00	0.00	711844.00	0.00
14	With SBP	23/12/13	5127397.00	602376.00			5127397.00	729982.00	1/7/2015	5857379.00		127606.00	729982.00	0.00	729982.00	0.00
15	With SBP	27/9/14	9813326.00	466860.00			0.00	0.00	4/4/2016	11262160.00		973522.00	1440382.00	0.00	1440382.00	9813326.00
16	With SBP	27/9/14	9813326.00	466860.00			0.00	0.00	4/4/2016	11262160.00		973522.00	1440382.00	0.00	1440382.00	9813326.00
17	With SBP	17/4/12	6963849.00	2006542.00			6963849.00	2059013.00	17/4/15	9022862.00		52471.00	2059013.00	0.00	2059013.00	0.00

18	With SBP	30/01/14	6777582.00	732643.00			6777582.00	973622.00	8/8/2015	7751204.00		240979.00	973622.00	0.00	973622.00	0.00
19	With SBP	30/01/14	6777582.00	732643.00			6777582.00	973622.00	8/8/2015	7751204.00		240979.00	973622.00	0.00	973622.00	0.00
20	With SBP	30/01/14	6777582.00	732643.00			6777582.00	973622.00	8/8/2015	7751204.00		240979.00	973622.00	0.00	973622.00	0.00
21	With SBP	22/10/14	5677345.00	230246.00			0.00	0.00	6/11/2017	7300043.00		559766.00	790012.00	0.00	790012.00	5677345.00
22	With SBP	22/10/14	5677345.00	230246.00			0.00	0.00	6/11/2017	7300043.00		559766.00	790012.00	0.00	790012.00	5677345.00
23	With SBP	22/10/14	5677345.00	230246.00			0.00	0.00	6/11/2017	7300043.00		559766.00	790012.00	0.00	790012.00	5677345.00
24	With SBP	22/10/14	5677345.00	230246.00			0.00	0.00	6/11/2017	7300043.00		559766.00	790012.00	0.00	790012.00	5677345.00
25	With SBP	6/10/2014	1038323.00	46257.00			0.00	0.00	14/04/16	1191322.00		102732.00	148989.00	0.00	148989.00	1038323.00
26	With SBP	30/01/14	251980.00	3465.00			0.00	0.00	8/8/2015	288608.00		23780.00	27245.00	0.00	27245.00	251980.00
27	With SBP	6/10/2014	273123.00	12175.00			273123.00	15054.00		288177.00		2879.00	15054.00	0.00	15054.00	0.00
28	With SBP	31/3/14	641547.00	61450.00			0.00	0.00	7/10/2015	737175.00		62149.00	123599.00	0.00	123599.00	641547.00
29	With SBP	7/4/2014	33690.00	3227.00			0.00	0.00	7/10/2015	38712.00		3264.00	6491.00	0.00	6491.00	33690.00
30	With SBP				8/8/2015	9000000.00	0.00	0.00	13/02/2017	10225136.00		505234.00	505234.00	0.00	505234.00	9000000.00
31	With SBP				8/8/2015	9000000.00	0.00	0.00	13/02/2017	10225136.00		505234.00	505234.00	0.00	505234.00	9000000.00
32	With SBP				8/8/2015	5541789.00	0.00	0.00	13/02/2017	6296172.00		311100.00	311100.00	0.00	311100.00	5541789.00
33	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
34	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
35	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
36	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
37	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
38	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
39	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
40	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
41	With SBP				8/7/2015	9000000.00	0.00	0.00	6/1/2017	10225136.00		587437.00	587437.00	0.00	587437.00	9000000.00
42	With SBP				8/7/2015	2466733.00	0.00	0.00	6/1/2017	2802520.00		161005.00	161005.00	0.00	161005.00	2466733.00
43	With SBP				18/12/15	800000.00	0.00	0.00	21/6/17	899225.00		18640.00	18640.00	0.00	18640.00	800000.00
44	With canara Bank	2/2/2015	8200000.00	96086.03			0.00	0.00	2/5/2016	9148763.00		96086.03	192172.06	0.00	192172.06	8200000.00
45	With canara Bank	2/2/2015	8200000.00	96086.03			0.00	0.00	2/5/2016	9148763.00		96086.03	192172.06	0.00	192172.06	8200000.00
46	With canara Bank	2/2/2015	8200000.00	96086.03			0.00	0.00	2/5/2016	9148763.00		96086.03	192172.06	0.00	192172.06	8200000.00
47	With canara Bank				7/5/2015	7750000.00						612604.00	612604.00	0.00	612604.00	7750000.00



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48	With canara Bank				7/5/2015	7750000.00						612604.00	612604.00	0.00	612604.00	7750000.00
49	With canara Bank				7/5/2015	7750000.00						612604.00	612604.00	0.00	612604.00	7750000.00
50	With canara Bank				7/5/2015	7750000.00						612604.00	612604.00	0.00	612604.00	7750000.00
	Total		174535898.00	15643202.09		138808522.00	100634326.00	15395058.00				16625914.09	32269116.18		32269116.18	212710094.00
G	<b>Examination Fund</b>															
1	With SBP	1/1/2014	469892.00	55212.00			469892.00	66904.00	1/7/2015	538064.00		11692.00	66904.00	0.00	66904.00	0.00
2	With SBP	1/1/2014	4455621.00	523452.00			4455621.00	523452.00	1/7/2015	5102042.00		110869.00	634321.00	0.00	634321.00	0.00
3	With SBP	6/10/2014	49380.00	2208.00			0.00	0.00				4886.00	7094.00	0.00	7094.00	49380.00
4	With SBP	1/2/2014	7346540.00	693109.00			0.00	0.00	15/02/17	9545925.00		731425.00	1424534.00	0.00	1424534.00	7346540.00
5	With SBP	1/2/2014	55903.00	6087.00			0.00	0.00	15/2/17	72638.00		5566.00	11653.00	0.00	11653.00	55903.00
6	With SBP	6/10/2014	97808.00	8911.00			0.00	0.00	18/4/16	112220.00		9677.00	18588.00	0.00	18588.00	97808.00
7	With SBP	9/7/2014	5864721.00	407065.00			0.00	0.00	4/7/2015	6420038.00		562591.00	969656.00	0.00	969656.00	5864721.00
8	With SBP				8/7/2015	5626752.00	0.00	0.00	6/1/2017	6392700.00		367262.00	367262.00	0.00	367262.00	5626752.00
9	With SBP				14/12/15	3000000.00	0.00	0.00	21/6/17	3372094.00		69898.00	69898.00	0.00	69898.00	3000000.00
10	With canara Bank				2/4/2015	3725804.00			19/6/16	4144537.00		340840.00	340840.00	0.00	340840.00	3725804.00
11	With canara Bank				2/4/2015	9500000.00			19/6/2016	10567676.00		869066.00	869066.00	0.00	869066.00	9500000.00
12	With canara Bank				2/1/2016	8000000.00			2/7/2016	8302813.00		148333.00	148333.00	0.00	148333.00	8000000.00
13	With canara Bank	17/4/14	4374472.00	422292.44			4374472.00	514858.00	5/7/2015	4889330.00		92565.56	514858.00	0.00	514858.00	0.00
14	With canara Bank	4/1/2015	5475258.00	118760.60			5475258.00	633504.00	23/03/16	6108762.00		514743.00	633503.60	0.00	633503.60	0.00
15	With canara Bank				29/3/16	6108762.00			5/10/2017	6875329.00		3941.00	3941.00	0.00	3941.00	6108762.00
16	With canara Bank	20/2/15	4000000.00	39890.41			0.00	0.00	9/5/2016	4462811.00		381457.00	421347.41	0.00	421347.41	4000000.00
	Total		32189595.00	2276987.45		35961318.00	14775243.00	1738718.00				4224811.56	6501799.01	0.00	6501799.01	53375670.00
H	<b>Akash Saxena</b>															
1	Post Office		120000.00	21767.00		0.00	120000.00	0.00	16/09/15	136400.00		0.00	21767.00	0.00	21767.00	0.00
2	With SBP				29/12/2015	125000.00			17/03/2017	134999.00		396.00	396.00	0.00	396.00	125000.00
	Total		120000.00	21767.00		125000.00	120000.00	0.00				396.00	22163.00	0.00	22163.00	125000.00
I	<b>Employee Benevolent Fund</b>															
1	With SBP	1/1/2014	626523.00	73607.00		0.00	0.00	0.00	6/1/2017	813148.00		62306.00	135913.00	0.00	135913.00	626523.00

2	With SBP	22/10/14	312254.00	27872.00		0.00	0.00	0.00	6/1/2017	401502.00		30787.00	58659.00	0.00	58659.00	312254.00
3	With SBP	7/4/2014	4053.00	389.00		0.00	0.00	0.00	14/4/17	5235.00		393.00	782.00	0.00	782.00	4053.00
	Total		<b>942830.00</b>	<b>101868.00</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>				<b>93486.00</b>	<b>195354.00</b>	<b>0.00</b>	<b>195354.00</b>	<b>942830.00</b>
J	<b>Scholarship A/C</b>															
1	With SBP	1/1/2014	1959495.00	230205.00		0.00	1959495.00	0.00	1/7/2015	2243778.00		54078.00	284283.00	0.00	284283.00	0.00
2	With SBP					2243778.00			6/1/2017	2543180.00		140786.00	140786.00	0.00	140786.00	2243778.00
3	With SBP	7/4/2014	4850.00	465.00			4850.00		7/10/2015	5573.00		258.00	723.00	0.00	723.00	0.00
4	With SBP				7/10/2015	5573.00			14/04/2017	6264.00		212.00	212.00	0.00	212.00	5573.00
5	With SBP				27/07/2015	9000000.00			1/2/2017	10225136.00		530307.00	530307.00	0.00	530307.00	9000000.00
6	With SBP				27/07/2015	3223322.00			1/2/2017	3662101.00		189928.00	189928.00	0.00	189928.00	3223322.00
7	With SBP															
8	With canara Bank															
9	With canara Bank	17/4/14	5468089.00	499861.27			5468089.00	643572.00	5/7/2015	6111661.00		143711.00	643572.27	0.00	643572.27	0.00
10	With canara Bank	2/2/2015	7500000.00	91623.29					30/4/16	8361839.00		716817.00	808440.29	0.00	808440.29	7500000.00
	Total		<b>14932434.00</b>	<b>822154.56</b>		<b>14472673.00</b>	<b>7432434.00</b>	<b>643572.00</b>				<b>1776097.00</b>	<b>2598251.56</b>	<b>0.00</b>	<b>2598251.56</b>	<b>21972673.00</b>
K	<b>Institution of Gold Medal</b>															
1	With SBP	24/12/13	130269.00	15595.00			130269.00	19077.00	22/6/15	149346.00		3482.00	19077.00	0.00	19077.00	0.00
2	With SBP	27/12/14	151527.00	18145.00			151527.00	22188.00	22/6/15	173715.00		4043.00	22188.00	0.00	22188.00	0.00
3	With SBP	27/12/14	5807.00	142.00		0.00	0.00	0.00	22/09/02017	7368.00		540.00	682.00	0.00	682.00	5807.00
4	With SBP				17/07/2015	323061.00			20/01/2017	367038.00		19982.00	19982.00	1999.00	17983.00	323061.00
	Total		<b>287603.00</b>	<b>33882.00</b>		<b>323061.00</b>	<b>281796.00</b>	<b>41265.00</b>				<b>28047.00</b>	<b>61929.00</b>	<b>1999.00</b>	<b>59930.00</b>	<b>328868.00</b>
L	<b>Student Fund</b>															
1	With canara Bank	4/1/2015	2768231.00	12752.87			0.00	0.00	30/5/16	3079345.00		255127.00	267879.87	0.00	267879.87	2768231.00
2	With canara Bank	17/4/14	5468089.00	499861.27			5468089.00	643572.00	5/7/2015	6111661.00		143711.00	643572.27	0.00	643572.27	0.00
3	With canara Bank				2/4/2015	9500000.00	0.00	0.00	19/06/16	10567676.00		869066.00	869066.00	0.00	869066.00	9500000.00
4	With canara Bank				2/4/2015	9500000.00	0.00	0.00	19/06/16	10567676.00		869066.00	869066.00	0.00	869066.00	9500000.00
5	With canara Bank				2/4/2015	9500000.00	0.00	0.00	19/06/16	10567676.00		869066.00	869066.00	0.00	869066.00	9500000.00
6	With canara Bank				2/4/2015	6768810.00	0.00	0.00	19/06/16	7529536.00		619215.00	619215.00	0.00	619215.00	6768810.00
7	With canara Bank				1/5/2015	7500000.00	0.00	0.00	18/07/16	8342901.00		629758.00	629758.00	0.00	629758.00	7500000.00

8	With canara Bank				1/5/2015	7500000.00	0.00	0.00	18/07/16	8342901.00		629758.00	629758.00	0.00	629758.00	7500000.00
9	With canara Bank				1/5/2015	7500000.00	0.00	0.00	18/07/16	8342901.00		629758.00	629758.00	0.00	629758.00	7500000.00
10	With canara Bank				1/5/2015	7500000.00	0.00	0.00	18/07/16	8342901.00		629758.00	629758.00	0.00	629758.00	7500000.00
11	With SBP	6/10/2014	73617.00	6707.00			0.00	0.00	14/4/16	84465.00		7284.00	13991.00	0.00	13991.00	73617.00
12	With SBP	8/7/2014	8797081.00	610597.00			0.00	0.00	4/7/2016	10477126.00		843887.00	1454484.00	0.00	1454484.00	8797081.00
13	With SBP	7/4/2014	73910.00	7080.00			0.00	0.00	7/10/2015	84927.00		7160.00	14240.00	0.00	14240.00	73910.00
	Total		17180928.00	1136998.14		65268810.00	5468089.00	643572.00				7002614.00	8139612.14	0.00	8139612.14	76981649.00
	<b>Main A/c</b>															
1	with SBP				1/4/2015	150000000.00	150000000.00	2898288.00	31/7/15	152898288.00		2898288.00	2898288.00	0.00	2898288.00	0.00
2	with SBP				1/5/2015	1000000.00	1000000.00	38219.00	30/10/15	1038219.00		38219.00	38219.00	0.00	38219.00	0.00
3	With canara Bank				12/10/2015	720000.00	720000.00	2397.00	11/11/2015	722397.00		2663.00	2663.00	0.00	2663.00	0.00
4	With canara Bank				11/11/2015	722397.00	722397.00	2672.00	11/12/2015	725069.00		2672.00	2672.00	0.00	2672.00	0.00
5	With canara Bank				11/12/2015	725069.00	725069.00	2682.00	10/1/2016	727751.00		2682.00	2682.00	0.00	2682.00	0.00
6	With canara Bank				10/1/2016	727751.00	727751.00	2692.00	9/2/2016	730443.00		2692.00	2692.00	0.00	2692.00	0.00
7	With canara Bank				9/2/2016	730443.00	730443.00	2702.00	10/3/2016	733145.00		2702.00	2702.00	0.00	2702.00	0.00
8	With canara Bank				10/3/2016	733145.00		1989.00	10/4/2016	735134.00		1989.00	1989.00	0.00	1989.00	733145.00
9	With canara Bank				12/10/2015	3045000.00	3045000.00	10136.00	11/11/2015	3055136.00		11262.00	11262.00	1126.00	10136.00	0.00
10	With canara Bank				11/11/2015	3055136.00	3055136.00	11300.00	11/12/2015	3066436.00		11300.00	11300.00	0.00	11300.00	0.00
11	With canara Bank				11/12/2015	3066436.00	3066436.00	5881.00	10/1/2016	3072317.00		5881.00	5881.00	0.00	5881.00	0.00
12	With canara Bank				29/10/2015	9000000.00	9000000.00	60842.00				60842.00	60842.00	0.00	60842.00	0.00
13	With canara Bank				29/10/2015	9000000.00	9000000.00	60842.00				60842.00	60842.00	0.00	60842.00	0.00
14	With canara Bank				29/10/2015	9000000.00	9000000.00	60842.00				60842.00	60842.00	0.00	60842.00	0.00
15	With canara Bank				29/10/2015	9000000.00	9000000.00	60842.00				60842.00	60842.00	0.00	60842.00	0.00
16	With canara Bank				29/10/2015	9000000.00	0.00	0.00	26/04/16	9332877.00		286644.00	286644.00	0.00	286644.00	9000000.00
17	With canara Bank				29/10/2015	9000000.00	0.00	0.00	26/04/16	9332877.00		286644.00	286644.00	0.00	286644.00	9000000.00
18	With canara Bank				29/10/2015	9000000.00	0.00	0.00	26/04/16	9332877.00		286644.00	286644.00	0.00	286644.00	9000000.00
19	With canara Bank				29/10/2015	9000000.00	0.00	0.00	26/04/16	9332877.00		286644.00	286644.00	0.00	286644.00	9000000.00
20	With canara Bank				29/10/2015	8000000.00	0.00	0.00	26/04/16	8295890.00		254795.00	254795.00	0.00	254795.00	8000000.00
21	With canara Bank				20/01/16	100000000.00	100000000.00	770545.00	10/3/2016	100770545.00		770545.00	770545.00	0.00	770545.00	0.00
22	With canara Bank				1/5/2015	180000000.00	180000000.00	6879452.00	29/10/2015	186879452.00		6879452.00	6879452.00	0.00	6879452.00	0.00
23	With canara Bank				13/4/15	61501685.00			19/10/16			5450984.00	5450984.00	0.00	5450984.00	61501685.00
24	With canara Bank	30/1/15	50000000.00	615753.00			50000000.00	647603.00				31850.00	647603.00	0.00	647603.00	0.00
25	With canara Bank	30/1/15	70000000.00	906644.00			70000000.00	906644.00				0.00	906644.00	0.00	906644.00	0.00
			120000000.00	1522397.00		586027062.00	599792232.00	12426570.00				17757920.00	19280317.00	1126.00	19279191.00	106234830.00
	<b>Tequip II</b>															
1	With SBP	6/10/2014	50243.00	4578.00								4971.00	9549.00	0.00	9549.00	50243.00
2	With SBP		25217.00	2421.00								2584.00	5005.00	0.00	5005.00	25217.00
3	With SBP	28/05/2014	5000000.00	399483.00								492759.00	892242.00	0.00	892242.00	5000000.00
4	With canara Bank	29/5/14	5000000.00	400055.95			5000000.00	695354.00	7/12/2015	5695354.00		295298.05	695354.00	0.00	695354.00	0.00
5	With canara Bank	29/5/14	5000000.00	400055.95			5000000.00	588478.00	16/08/15	5588479.00		188423.00	588478.95	0.00	588478.95	0.00
6	With canara Bank	29/5/14	8000000.00	624231.54			8000000.00	1216347.00				592115.46	1216347.00	0.00	1216347.00	0.00
	Total		23075460.00	1830825.44		0.00	18000000.00	2500179.00				1576150.51	3406975.95	0.00	3406975.95	5075460.00

	Loan & Advances															
1	With canara Bank	17/4/2014	8748943.00	799777.84			8748943.00	1029714.84				229937.16	1029715.00	0.00	1029715.00	0.00
2	With canara Bank	17/4/14	1093618.00	99972.87			1093618.00	129518.87				29546.13	129519.00	0.00	129519.00	0.00
3	With canara Bank	17/4/13			10/7/2015	7000000.00	7000000.00	267534.00				267534.00	267534.00	26753.00	240781.00	0.00
4	With canara Bank				6/1/2016	7240781.00	7240781.00	13192.00				13192.00	13192.00	1319.00	11873.00	0.00
5	With canara Bank				25/1/2016	7279407.00	7279407.00	79076.00				79076.00	79076.00	7908.00	71168.00	0.00
6	With canara Bank				29/3/16	7350575.00			5/10/2017	8272973.00		4743.00	4743.00	474.00	4269.00	7350575.00
7	With canara Bank				10/7/2015	2000000.00	2000000.00	76438.00				76438.00	76438.00	7644.00	68794.00	0.00
8	With canara Bank				6/1/2016	2068794.00	2068794.00	3769.00				3769.00	3769.00	377.00	3392.00	0.00
9	With canara Bank				25/1/2016	2079830.00	2079830.00	22593.00				22593.00	22593.00	2259.00	20334.00	0.00
10	With canara Bank				29/3/16	2100164.00			5/10/2017	2363705.00		1355.00	1355.00	136.00	1219.00	2100164.00
11	With canara Bank				31/3/2016	2500000.00										2500000.00
	Total		9842561.00	899750.71		39619551.00	37511373.00	1621835.71				728183.29	1627934.00	46870.00	1581064.00	11950739.00
	<b>Fees</b>															
1	With canara Bank				31/03/2016	7630000.00						1641.00	1641.00	0.00	1641.00	7630000.00
2	With canara Bank				31/03/2016	7630000.00						1641.00	1641.00	0.00	1641.00	7630000.00
3	With SBP				18/12/15	27500000.00	27500000.00	455935.00	16/3/16	27955935.00		455935.00	455935.00	0.00	455935.00	0.00
	Total		0.00	0.00		42760000.00	27500000.00	455935.00				459217.00	459217.00	0.00	459217.00	15260000.00
	<b>PENSION FUND</b>															
	With canara Bank				1/5/2015	2000000.00	0.00	0.00				142998.00	142998.00	0.00	142998.00	2000000.00
	<b>DST FIST (ECE)</b>															
	With canara Bank				5/5/2015	7500000.00	0.00	0.00				716817.00	716817.00	0.00	716817.00	7500000.00
	<b>DST FIST (CY)</b>															
	With SBP	5/5/2014	681170.00	54439.00			0.00	0.00				54166.00	108605.00	0.00	108605.00	681170.00
	Grand Total		711886631.00	49687015.81		1128622112.00	1011849756.00	62693785.71				83463623.14	133150638.95	52701.00	132827146.95	828658987.00

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NIT Jalandhar

**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY,  
JALANDHAR**

**List of Advances and Imprest Money given**

<b>Sr. no.</b>	<b>Particular</b>	<b>Imprest</b>	<b>Advance</b>	<b>Total</b>
1	Mod. of Chemical Process Lab	5000.00	0.00	5000.00
2	Measurement of Radon Thoron & Their Progeny Dist.	10000.00	0.00	10000.00
3	Investigation of Dumping in fibre			0.00
	Reinforced Comp.	5000.00	0.00	
4	Engg. Properties of Fibre			
	Reinforced Soil	5000.00	0.00	5000.00
6	Earthquake Resistant Design of Reinforced Concrete	5000.00	0.00	5000.00
9	Special Manpower Development Prog	15000.00	20000.00	35000.00
10	Consultancy Fund	0.00	80375.00	80375.00
11	Examination Fund	1000.00	0.00	1000.00
12	Advance to Staff(CPF&GPF)	0.00	8153441.00	8153441.00
14	Advance to Staff(Student Fund)	60000.00	8257002.00	8317002.00
17	Advance to Staff(Hostel Fund)	60897.00	541089.00	601986.00
18	JAgat Singh & sons	0.00	12000.00	12000.00
19	Sharma Cycle Store	0.00	3600.00	3600.00
20	Advances to staff(Main A/c)(List attached)	487644.00	5690898.00	6178542.00
22	CWICK IMPORTS CON. P. LTD.	0.00	76176.00	76176.00
23	Advances to staff(TEQUIP II)	0.00	3003422.00	3003422.00
24	Advances to staff(Real Time Share)	70000.00	0.00	70000.00
		<b>724541.00</b>	<b>25838003.00</b>	<b>26557544.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULE FORMING PART OF BALANCE SHEET AS ON 31.03.2016**

		<b>(Amount -Rs)</b>	
<b>SCHEDULE-9-ACEDMIC RECEIPTS</b>		<b>Current Year</b>	<b>Previous Year</b>
<b>FEE FROM STUDENTS</b>			
<b>Academic</b>			
a)	Tuition Fee	194777359.00	159500551.00
b)	Admission Fee	3705500.00	2920000.00
c)	Enrolments Fee	0.00	0.00
d)	Library Admission Fee	1482200.00	6131350.00
e)	Alumi Fee	1482200.00	1167175.00
f)	Counselling fee	0.00	80000.00
g)	Registration Fee	0.00	0.00
h)	Syllabus Fee	0.00	0.00
	<b>Total(A)</b>	<b>201447259.00</b>	<b>169799076.00</b>
<b>Examinations</b>			
a)	Admisson Test Fee	0.00	0.00
b)	Annual Exam Fee	0.00	0.00
c)	Mark Sheet, Certificate Fee & Transcripts	0.00	0.00
d)	Enterence Examination Fee	0.00	0.00
e)	Credit Fee	0.00	0.00
d)	Make up Exam fee	0.00	0.00
	<b>Total(B)</b>	<b>0.00</b>	<b>0.00</b>
<b>Other Fees</b>			
a)	Identitiy cards fee	0.00	0.00
b)	Fine/Misc. Fee	104000.00	195293.00
c)	Medical fee	64100.00	40600.00
d)	Backup fee	0.00	1425370.00
e)	Room Rent	8271000.00	4840150.00
	<b>Total(C)</b>	<b>8439100.00</b>	<b>6501413.00</b>
<b>Sale of Publication</b>			
a)	Sale of Admission Forms	0.00	0.00
b)	Sale of Syllabus and Question Paper Etc.	0.00	0.00
c)	Sale of Prospectus including admission forms	435752.50	118800.00
	<b>Total(D)</b>	<b>435752.50</b>	<b>118800.00</b>
<b>Other Acedmic Receipts</b>			
a)	Registration fee workshop, Programme & Seminar	0.00	0.00
b)	Thesis Submission fees	1049000.00	948710.00
	<b>Total(E)</b>	<b>1049000.00</b>	<b>948710.00</b>
	<b>Grant Total(A+B+C+D+E)</b>	<b>211371111.50</b>	<b>177367999.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31.03.2016****SCHEDULE 10- GRANTS/SUBSIDIES (IRREVOCABLE GRANTS RECEIVED)****(Amount in Rupees)**

Particulars	Plan			Total Plan	Non Plan	Current Year	Previous Year
	Govt. of India	UGC				Total	Total
		Plan	Specific Schemes				
Balance B/f	0.00	0.00	0.00	0.00	93355331.51	93355331.51	259864131.00
Add Receipts during the year	0.00	0.00	0.00	0.00	200000000.00	200000000.00	270000000.00
<b>Total</b>	0.00	0.00	0.00	0.00	293355331.51	293355331.51	529864131.00
Less Refund to UGC Balance Less:Utilised for							
Capital expenditure(A)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Less Refund to UGC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Balance</b>	0.00	0.00	0.00	0.00	293355331.51	293355331.51	529864131.00
Less : Utilised for Capital expenditure(A)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Balance</b>	0.00	0.00	0.00	0.00	293355331.51	293355331.51	529864131.00
Less:utilized for Revenue Expenditure(B)	0.00	0.00	0.00		293355331.51	293355331.51	436508799.49
<b>Balance C/F (C)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>93355331.51</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**  
**SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016**

SHEDULE 11-INCOME FROM INVESTMENTS		Earmarked Fund/Endownments Funds		Amount in Rupees Other Investments	
		Current year	Previous year	Current year	Previous year
<b>1)Interest</b>					
	a)On the Govt. Securities		0.00	0	0
	b)Other Bonds/ Debentures		0.00	0	0
2)Interest on Term depost			36550070.98	0.00	29928578.23
<b>3) Intome Accured but not due on term deposits/Interest Bearing Advance to Employee</b>			0.00		
4) Interest on Saving bank Accounts		448768.79	315313.00		
5) Others(Specify)			0.00		
<b>TOTAL</b>		448768.79	36865383.98	0.00	
<b>TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS</b>		0.00	36865383.98	0.00	29928578.23
<b>Balance</b>		<b>448768.79</b>	<b>Nil</b>		

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**  
**SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016**

SHEDULE 12-INTREST EARNED		Amount(Rs.)	
			Current year
<b>1) On Savings Accounts &amp; Term Deposits:</b>			
a) With Scheduled Banks		24783180.00	24783180.00
<b>2) On Loans:</b>			
a) Employees/Staff			
b) Others		0.00	0.00
<b>3) Interet on Debtors and Other receivables</b>			
a) With Non - Scheduled Banks		0.00	
b) Post Office Savings Accounts		0.00	
c) Others		0.00	0.00
<b>TOTAL</b>		<b>24783180.00</b>	<b>24783180.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016****SCHEDULE 13- OTHER INCOME****Amount in Rupees**

<b>A. Income from Land &amp; Building</b>	<b>Current year</b>	<b>Previous year</b>
<b>1. Hostel Room Rent</b>		
2. License fee	1738962.00	1878914.00
3. Hire Charges of Auditorium/Play ground /Conversion Centre, etc.	0.00	315889.00
4. Electricity charges recovered	0.00	0.00
5. Water charges recovered	0.00	0.00
<b>Total A</b>	<b>1738962.00</b>	<b>2194803.00</b>
<b>B Sale of Institute's Publication</b>	<b>0.00</b>	<b>922250.00</b>
<b>C Income from holding events</b>		
1. Gross Receipts from annual function/sports carnival		0.00
<b>Less: Direct expenditure incurred on the annual function/sports carnival</b>		0.00
<b>2. Gross Receipts from fetes</b>		<b>0.00</b>
<b>Less: Direct expenditure incurred on the fetes</b>		0.00
3. Gross Receipts for educational tours		0.00
Less: Direct expenditure incurred on the tours		0.00
4. Others(to be specified and separately disclosed)		0.00
<b>Total C</b>	0.00	0.00
<b>D Others</b>		0.00
1. Income from consultancy		0.00
2. RTI Fees		0.00
3. Income from Royalty		0.00
4. Sale of application form(recruitment)	0.00	0.00
5. Misc. receipts(Sale of tender form, waste paper, etc.)	371673.00	284872.00
6. Profit on Sale/disposal of Assets		0.00
a) Owned assets		0.00
b) Assets received free of cost		0.00
7. Grants/Donations from institutions, Welfare Bodies and International Organizations		0.00
8. Others		0.00
a) Computer and Internet Fee		0.00
b) ID card Charges		0.00
c) Income from Guest House	187650.00	0.00
d) income from Bus	24220.00	0.00
e) Misc. Income	564065.00	0.00
f) Library Fee and Magazine Fee	157957.00	0.00
<b>Total D</b>	<b>1305565.00</b>	<b>284872.00</b>
<b>Grand Total (A+B+C+D)</b>	<b>3044527.00</b>	<b>3401925.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016****SCHEDULE 14- PRIOR PERIOD INCOME****Amount in Rupees**

	<b>Current year</b>	<b>Previous year</b>
<b>Particulars</b>	<b>0.00</b>	<b>0.00</b>
1. Academic Receipts	0.00	0.00
2. Income from Investment	0.00	0.00
3. Interest earned	0.00	0.00
4. Depreciation Written Back Petrosectively	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY,  
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**SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31.03.2016  
SCHEDULE 15- STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)**

Particulars	Current year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Salary & Wages		265935406.00	265935406.00		232820942.00	232820942.00
b) Allowances and Bonus		580272.00	580272.00		0.00	0.00
c) Contribution to Provident Fund		14965108.00	14965108.00		18153671.00	18153671.00
d) Contribution to Other Fund(specify)		5653066.00	5653066.00		8396813.00	8396813.00
e) Staff Welfare Expenses			0.00		0.00	0.00
f) Retirement and Terminal Benefits		95576921.00	95576921.00		4198269.60	4198269.60
g) LTC facility		1831627.00	1831627.00		3783842.00	3783842.00
h) Medical Reimbursement		3472095.00	3472095.00		3726408.00	3726408.00
i) Children Education Allowance		3869674.00	3869674.00		4179190.00	4179190.00
j) Honorarium			0.00		1537169.00	1537169.00
k) Casual Labour		26332513.00	26332513.00		17369042.00	17369042.00
l) PDA		3530666.00	3530666.00		1144435.00	1144435.00
m) 10days leave Encashment		1259465.00	1259465.00		840249.00	840249.00
n) Income Tax		28827255.00	28827255.00		22744373.00	22744373.00
o) Contribution to NPS		3009842.00	3009842.00		1679801.00	1679801.00
	<b>0.00</b>	<b>454843910.00</b>	<b>454843910.00</b>	<b>0.00</b>	<b>320574204.60</b>	<b>320574204.60</b>

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SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016

**SCHEDULES 15 A - EMPLOYEES RETIREMENT AND TERMIN**

	Pension	Gratuity / Leave Encashment	Total
Opening balance as on 01.04.2015	0.00	227017419.00	227017419.00
Addition: Capitalized value of contributions received		1012951.00	1012951.00
Total (a)	0.00	228030370.00	228030370.00
Less: Actual Payment during the year (b)	10778294.00	7504932.00	18283226.00
Balance available as on 31.03.2016 (a-b)	-10778294.00	220525438.00	209747144.00
Provision required as on 31.03.2016	0.00	305307405.00	305307405.00
A Provision made in the Current Year	10778294.00	84781967.00	95560261.00
B Contribution to New Pension Scheme			0.00
C Medical Reimbursement to Retired Employees			0.00
D Travel to Hometown on Retirement			0.00
E Deposit linked Insurance Payment			0.00
Total (A+B+C+D+E)	10778294.00	84781967.00	95560261.00

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SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016

## SCHEDULE 16- ACADEMIC EXPENSES

	Current Year				Previous Year		
	Plan	Non Plan	Academic Receipt	Total	Plan	Non Plan	Total
a) Laboratory expenses	0.00	2673005.00		2673005.00		1786717.00	1786717.00
b) Field work/ Participation in conference	0.00			0.00		0.00	0.00
c) Expenses on Seminars/Workshops	0.00	208885.00		208885.00		0.00	0.00
d) Payment to visiting faculty	0.00	1946082.00		1946082.00		3068614.00	3068614.00
e) Examination	0.00	15960.00		15960.00		0.00	0.00
f) Student welfare expenses	0.00	122279.00		122279.00		0.00	0.00
g) Admission expenses	0.00			0.00		0.00	0.00
h) Convocatin expenses	0.00			0.00		0.00	0.00
i) Publication	0.00			0.00		0.00	0.00
k) Subscription expenses	0.00			0.00		0.00	0.00
l) Id Card charges	0.00			0.00		0.00	0.00
l) Culture expenses	0.00			0.00		0.00	0.00
m) Library recurring expenses	0.00	18994827.75		18994827.75		34985.00	34985.00
n) Phd & Mtech Stipend & contingency expenses	0.00	98704130.00		98704130.00		64442913.00	64442913.00
o) Sports expenses	0.00	12836.00		12836.00		0.00	0.00
p) Training & Placement expenses	0.00			0.00		0.00	0.00
1) Others (specify)	0.00			0.00		0.00	0.00
TOTAL	0.00	122678004.75	0.00	122678004.75	0.00	69333229.00	69333229.00

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SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016

**SCHEDULE 17- ADMINISTRATIVE AND GENERAL EXPENSES**

	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
A Infrastructure						
a) Electricity & Power		8,227,431.00	18227431.00		14,937,947.00	14937947.00
b) Water Charges		1214861.00	1214861.00		1123062.00	1123062.00
c) Insurance		73459.00	73459.00		35579.00	35579.00
d) Rent, Rates and Taxes (including property tax)			0.00		0.00	0.00
B Communication			0.00		0.00	0.00
a) Postage, Telephone, Fax and Internet Charges		248995.00	248995.00		231978.00	231978.00
C Others						
a) Campus Lighting		1513653.00	1513653.00		482931.00	482931.00
b) Professional Charges		3771345.00	3771345.00		0.00	0.00
c) Printing and Stationery (consumption)		3939765.83	3939765.83		2306372.48	2306372.48
d) Traveling and conveyance expenses		5904948.00	5904948.00		952246.00	952246.00
e) Horticulture Advance & Expenses		121414.00	121414.00		82923.00	82923.00
f) Stipend/means-cum-merit scholarship			0.00		0.00	0.00
g) Bank charges		86713.00	86713.00		191541.80	191541.80
h) Statutory Bodies Meeting and Various Meeting		28848.00	28848.00		565718.00	565718.00
i) Sweeping, cleaning expenses		670364.00	670364.00		286961.00	286961.00
j) Misc or Administrative expenses		10053252.00	10053252.00		2319006.61	2319006.61
k) Advertisement & Publicity		1927836.00	1927836.00		687329.00	687329.00
l) News paper, Magazine, E-Journals & Periodicals Subscription Fee		96399.00	96399.00		102410.00	102410.00
m) AMC Exp.		1105029.00	1105029.00		690040.00	690040.00
n) Audit fee & Professional Fee		289015.00	289015.00		1066365.00	1066365.00
o) HRD cell & Hindi Cell		74267.00	74267.00		227337.00	227337.00
p) Legal Penalty		25000.00	25000.00		58324.00	58324.00
q) Watch & Ward (Security)		15830006.00	15830006.00		14492313.00	14492313.00
r) ESIC stay order expenses		1615115.00	1615115.00		0.00	0.00
s) Loss on disposal of asset		13500954.13	13500954.13		0.00	0.00
TOTAL	0.00	80318669.96	80318669.96	0.00	40840383.89	40840383.89

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016****SCHEDULE 18- TRANSPORTATION EXPENSES**

Particulars	Amount in Rupees					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
<b>1 Vehicles (own by institution)</b>						
a) Running expenses		1452921.00	0.00		992616.00	992616.00
b) Repairs & maintenance		0.00	0.00		0.00	0
c) Insurance expenses		0.00	0.00		0.00	0
<b>2. Vehicle taken on rent/lease/Hiring</b>		0.00	0.00		0.00	0
a) Rent/lease/Hiring		0.00	0.00		0.00	0
b) Running expenses		0.00	0.00		0.00	0
Total	0.00	1452921.00	0.00	0.00	992616.00	992616.00

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016

**SCHEDULE 19- REPAIRS & MAINTENANCE**

Particulars	Amount in Rupees					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
Estate & Building Maintenance	0.00	2751273.00	2751273.00		0.00	0.00
Furniture & Fixure	0.00	0.00	0.00		0.00	0.00
Plan & Machinery	0.00	1527595.00	1527595.00		622917.00	622917.00
Office Equipment	0.00	0.00	0.00		0.00	0.00
Computer	0.00	0.00	0.00		0.00	0.00
Laboratory & Scientific Equipment	0.00	1873121.00	1873121.00		1432346.00	1432346.00
Audio Vidual Equipment	0.00	0.00	0.00		0.00	0.00
Cleaning Material & Service	0.00	0.00	0.00		0.00	0.00
Book Binding Charges	0.00	0.00	0.00		0.00	0.00
Vehicles	0.00	0.00	0.00		468178.00	468178.00
Estate Maintenance	0.00	0.00	0.00		0.00	0.00
Workshop	0.00	0.00	0.00		13873.00	13873.00
Total	0.00	6151989.00	6151989.00	0.00	2537314.00	2537314.00

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SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016

**SCHEDULE 20- FINANCE COSTS**

Particulars	Amount in Rupees					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Bank Charges		0.00	0.00	0.00	0.00	0.00
b) Other ( Specify)	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR****SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE YEAR ENDED ON 31.03.2016****SCHEDULE 21- OTHER EXPENSES****Amount in  
Rupees**

Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Provision of Bad and Doubtfuls Debts/Advances	0.00	0.00	0.00	0.00	0.00	0.00
b) Irrecoverable Balances Written -off	0.00	0.00	0.00	0.00	0.00	0.00
c) Grants/Subsidies to other institutions/organizations	0.00	0.00	0.00	0.00	0.00	0.00
d) Other (specify)	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

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Particulars	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses	0.00	0.00	0.00	0.00	0.00	0.00
2 Academic expenses	0.00	0.00	0.00	0.00	0.00	0.00
3 Administrative expenses	0.00	0.00	0.00	0.00	0.00	0.00
4 Transportation expenses	0.00	0.00	0.00	0.00	0.00	0.00
5 Repair & Maintenance	0.00	0.00	0.00	0.00	0.00	0.00
6 Other expenses	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR**

List of Advances under Main Account as on 31.03.2016

Balance as on 31-March-2016

A/c Head	Amount (Rs.)
A K JANE	2500.00
A MUKHOPADHAY	68000.00
ADITYA PRAKASH	9000.00
AJAY BANSAL	13920.00
AJAY TREHAN	28000.00
A K CHOUDHARY	68000.00
ALOK KUMAR	38960.00
AMIT KUMAR	10000.00
AMRIT LAL SANGAL	533119.00
AMRIT PAL SINGH	37663.00
ANISH SACHDEVA	5000.00
ANUP KUMAR	131650.00
ARUN KUMAR KHOSLA	50000.00
ASHA RANI	63300.00
ASHOK KUMAR	52767.00
AVTAR CHNAD	3005.00
BALWINDER RAJ	56200.00
BS KAITH	69000.00
BHISHAM ARORA	1000.00
BHULLER PARSAD	2767.00
DINESH KUMAR SHUKLA	10000.00
GURBACHAN SINGH	5637.00
GURDEEP SINGH	18093.00
GURMEJ SINGH DHALIWAL	55000.00
GURPREET SINGH	63300.00
HARPREET SINGH	92170.00
HEMANT THAPER	78896.00
JAGDISH KUMAR	2767.00
KANTA PARSHAD	2767.00
KULDEEP SINGH NAGLA	10500.00
KVP SINGH	159000.00
LP SINGH	100000.00
JYOTI BHARAJ	48442.00
KULDIP SINGH	2937.00
MAMTA KHOSLA	50000.00
MANJIT SINGH (ELEC)	-12983.00
NITJ ALUMINI ASSOCIATION	500000.00
N C KOTHIYAL	28594.00
PALWINDEER SINGH	3805.00
PARGAT SINGH	5000.00
PARMOD KUMAR	39200.00

PARMOD SHARMA	731600.00
POONAM ARORA	90988.00
PURCHASE DEPARTMENT	122138.00
R S BHARAJ	147351.00
RAJ KUMAR BANSAL	5264.00
RAJ RANI	2709.00
RAJBIR SAINI	264680.00
RAJIV KUKREJA	30000.00
RAJIV KUMAR ARORA	50000.00
RAJIV TREHAN	7800.00
RAKESH KAKKAR	35000.00
RAM KEWAL	2767.00
RAM NATH	2767.00
RAM PARSHD	2767.00
RECEIVALBE	83355.00
S K SINHA	30000.00
SANT SINGH	5179.00
SANDEEP KUMAR	2767.00
SANTOK KUMAR	2767.00
SARABJIT SINGH BAL	67600.00
SARABJIT SINGH BEDI	309000.00
SARABJIT SINGH SANDHU	66800.00
SARBRINDER KAUR	301100.00
SASWATI BISWAS	38960.00
SATISH KUMAR II	3005.00
SATISH KUMAR	2767.00
SATNAM SINGH	2767.00
SHALINDER	12000.00
SHARVAN KUMAR PAHUJA	60000.00
STUDY OF TRT OF GROUND WATER	80000.00
SUDESH KUMAR	45000.00
SUKHMINDER SINGH	358860.00
SUKHMINDER SINGH - II	32190.00
SUDARSHNA	42709.00
SURINDER KUMAR	2767.00
SURINDER PAL SINGH	9000.00
SURINDER SINGH	55470.00
TARO DEVI	2709.00
TEJWINDERS INGH	3855.00
UDAY BAHN	2767.00
VINAY MIDHA	8497.00
VISHAL SHARMA	56200.00
<b>Totals</b>	<b>5690898.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF  
TECHNOLOGY, JALANDHAR**

**Annexure A**

List of Creditors as on 31.03.2016	Amount (Rs.)
A/C Head	
ADOR FONTECH LTD	79231.00
ADVANCE TECHNOLOGY	532088.00
ADVANTAGE X	11430.00
AGILENT TECH INDIA	3422.00
AGMETAL INDIA PVT LTD	24965.00
ANSHUMANTECH PVT LTD	6464.00
BALJINDER SINGH	12940.00
BHARAT ENGG	37868.00
BIO CLEAN ENVIROMENTAL SERVICE	17482.00
DEEJAY CORP	94481.00
DESIGN TECH	146539.00
ECOSENSE SUSTAINABLE SOL	119175.00
ENTUPLE TECH PVT LTD	79125.00
EKLAVYA INFOSIS	224720.00
EPPENDORF INDIA LTD	79800.00
GENTECH MARKETING DISTRIBUTION	247597.00
GLOBAL STRATEGIC	8344.00
HANDA AND CHOPRA SALES	4333737.00
INGRAM MICRO INDIA PVT LTD	949896.00
KUMAR SONS	8803.00
KLOROFIL SCIENTIFIC CHANDIGARH	29250.00
MEDIA AISA LAB	50000.00
MITTAL ENTERPRISES	17410.00
MITUTOYO SOUTH ASIA PVT LTD	26218.00
MTS ENGG PVT LTD.	43212.00
MUSKAN EQUIPMENTS	7794.00
NARULA FLOOR & FURNISHING	907.00
NIO TEL SYSTEMS	51255.00
NIHARIKA TECHNOLOGY	236275.30
OSAW INDUSTRIES	2237.00
OST ELECTRONICS	76885.00
PACE INFO SOLUTIONS P. LTD.	1620280.00
PK INTERNATIONAL	439338.00
PMI INDIA (DESIGN OF +VE THREAD)	29179.00
PROLEFIC ENGG	27246.00
RASHTRIYA BARTAN BHANDAR	494.00
SHAKTI TRADERS	36091.00

SHIMADZU ASIA PACIFIC	215814.00
SIDWAL REFRIGRATION IND P LTD	0.00
SILICON NANO TECHNOLOGY PVT LTD	3507.00
SILICON ELECTRONICS PVT LTD	11576.00
STAR INDUTRIAL SOLUTIONS	24922.00
SWASTIC ELECTRIC	8922.00
THE MICRO INSTRUMENTS COMPANY	5839.00
TECHNO INSTRUMENTS	227283.00
VIJAY EXIM HOUSE	43244.00
VIRENDER SINGH	7.00
MUKHERJEE SCIENTIFIC CENTRE	29925.00
<b>Total</b>	<b>10283217.30</b>

## NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR

### Annexure B

List of Sututory Dues as on 31.03.2015	Amount (Rs.)
A/c Head	
TDS Payable	58223.00
NPS Payable	699040.00
EPF Payable	686.00
Service Tax Payable	95298.00
ESI Payable	184.00
GPF Payable	1144.00
<b>Grand Total</b>	<b>854575.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY,  
JALANDHAR  
DETAIL OF OUTSTANDING AS ON 31.03.2016**

**ANNEXURE "C"**

<b>Sr No.</b>	<b>PARTICULARS</b>	<b>Amount in (Rs.)</b>
1	SALARY & WAGES (TECH)	3362768.00
2	SALARY & WAGES (ADM)	2471017.00
3	SALARY & WAGES (FACULTY)	9683640.00
4	INCOM TAX	2261571.00
5	OTHER LOAN	384105.00
6	TA / DA	167729.00
7	TELEPHONE EXPENSES	8721.00
8	ELECTRICITY CHARGES	2151670.00
9	10 DAYS LEAVE ENCASHMENT	36143.00
10	CPF	1196735.00
11	LOAN & ADVANCE	273353.00
12	LIC	175127.00
13	GIS	20372.00
14	BENEVOLENT FUND	7610.00
15	STAFF CLUB	25775.00
16	FACULTY CLUB	23250.00
17	CPF	12037.00
18	CASUAL LABOUR	2528264.00
19	SALARY TECH (CONTRACT)	445326.00
20	SALARY FACULTY (CONTRACT)	5616518.00
21	ESI EMPLOYER CONTRIBUTION	149817.00
22	PURCHASE OF MATERIAL & CHEMICAL FOR LAB	38069.00
23	MEDICAL RE-IMBURSEMENT	200606.00
24	EPF EMPLOYER SHARE	380136.00
25	TA / DA & HONORARIUM TO EXPERTS	65700.00
26	PROFESSIONAL FEE	85000.00
27	MISC. EXP, INST FUNCTION, CONVOCATION	202000.00
28	Ph D AND M TECH CONTINGENCY EXPENSES	258600.00
29	MEETING EXPENSE	28848.00
30	EMPLOYER SHARE (NPS)	201823.00
31	STATIONARY & CONSUMABLE	85208.00
32	WATCH & WARD (SECURITY)	1324568.00
33	MATERIAL FOR WORKSHOP	50000.00
34	STIPHEND (Ph D)	4071844.00
35	PAYABLE (STUDENT FUND)	199633.00
36	STIPHEND ( M TECH)	2604000.00
37	LTC	9170.00
38	NEWS PAPER & MAGAZINE	6172.00
39	BACKUP POWER SYSTEM	10160.00
40	REPAIR & MAINTENANCE (OTHER ITEMS)	65780.00
41	ADVERTISEMENT	85642.00
42	HONORARIUM	160000.00
43	CHILDREN EDUCATION ALLOWANCE	108000.00
44	GRATUITY /LEAVE SALARY/PENSION CONT.	305307405.00
45	PAYABLE (MAIN)	1133706.00
	<b>Total</b>	<b>347683618.00</b>

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**DR. B. R. AMBEDKAR NATIONAL INSTITUTE OF  
TECHNOLOGY, JALANDHAR**

Details of EMD & Security Deposits

<b>Sr NO.</b>	<b>Particular</b>	<b>ANNEXURE "D"</b>
1	EMD under TEQIP (list attached)	226256.00
2	EMD under TEQIP -II	278887.00
3	EMD under Security Fund	2415914.00
4	Security Deposits under Security Fund	339400.00
5	EMD under Main Account	324747.00
	<b>Grand Total</b>	<b>3585204.00</b>

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**SCHEDULE SHOWING THE EMD PAYABLE FROM OSC SCHEME AS AT 31.03.2016 FORMING****PART OF SCHEDULE 3 OF THE BALANCE SHEET**

S No.	Particular	Cheque No.	Amount	Paid	Received	Total
1	M/s PROLIFIC ENGINEERS, NOIDA	Cheque No.324426 DT 15/11/08	1500.00			1500.00
2	M/S INDIAN TRADING CORP	Cheque No.003458 DT 17/11/08	1020.00			1020.00
3	M/S MARS EDPAL INSTRUMENT	Cheque No.794253 DT 20/11/08	1250.00			1250.00
4	M/S EXCEL TECHNOLOGIES	Cheque No.531655DT 18/11/08	850.00			850.00
5	M/S VINYTICS P LTD	Cheque No.034807 DT 19/11/09	700.00			700.00
6	M/S ADVANCE TECHNOLOGY	Cheque No.523043 DT 19/11/08	1300.00			1300.00
7	M/S META TECH INDUSTRIES	Cheque No.920244 DT 17/11/08	8000.00			8000.00
8	M/S PRECISION INDUSTRIES	Cheque No.876943 DT 17/11/08	2000.00			2000.00
9	M/S BIOTECH SYSTEM	Cheque No.105924 DT 19/11/08	6000.00			6000.00
10	M/S MACRO SCIENTIFIC	Cheque No.931173 DT 18/11/08	1000.00			1000.00
11	M/S VINYTICS P LTD	Cheque No.034808 DT 19/11/08	900.00			900.00
12	M/S TECHNICS	Cheque No.294055 DT 17/11/08	2640.00			2640.00
13	M/S SWAN ENVIROMENTAL P LTD	Cheque No.677980 DT 18/11/08	6000.00			6000.00
14	M/S SWAN ENVIROMENTAL P LTD	Cheque No.677984 DT 18/11/08	7800.00			7800.00
15	M/S TECHNICS	Cheque No.294053 DT 17/11/08	1415.00			1415.00
16	M/S TECHNICS	Cheque No.294054 DT 17/11/08	3300.00			3300.00
17	M/S RADICAL INSTRUMENT	Cheque No.013255 DT 18/11/08	2745.00			2745.00
18	M/S RADICAL INSTRUMENT	Cheque No.013181 DT 17/11/08	2745.00			2745.00
19	M/S PERCESION INDUSTRIES	Cheque No.876940 DT 17/11/08	250.00			250.00
20	M/S SWAN ENVIROMENTAL P LTD	Cheque No.677986 DT 18/11/08	5000.00			5000.00
21	M/S SWAN ENVIROMENTAL P LTD	Cheque No.677981 DT 18/11/08	6200.00			6200.00
22	M/S META TECH INDUSTRIES	Cheque No.920245 DT 17/11/08	8000.00			8000.00
23	M/S META TECH INDUSTRIES	Cheque No.920246 DT 17/11/08	4000.00			4000.00
24	M/S MACRO SCIENTIFIC WORKS P LTD	Cheque No.931172 DT 18/11/08	2600.00			2600.00
25	M/S METER TOLEDO INDIA P LTD	Cheque No.012773 DT 20/11/08	820.00			820.00
26	M/S METER TOLEDO INDIA P LTD	Cheque No.012272 DT 20/11/08	720.00			720.00
27	M/S BIOTECH SYSTEM	Cheque No.533213 DT 19/11/08	3500.00			3500.00



28	M/S SWAN ENVIROMENTAL P LTD	Cheque No.677985 DT 18/11/08	4000.00			4000.00
29	M/S LCGC CHROMATOGRAPHY SOLUTION	Cheque No.186292 DT 06/03/09	1300.00			1300.00
30	M/S LABORATORY GLASSWARE	Cheque No.046548 DT 13/03/09	1400.00			1400.00
31	M/S NEOTEL SYSTEM & SERVICE	Cheque No.729126 DT 12/03/09	15000.00			15000.00
32	M/S GENTIC MARKETING & DISTRIBUTION P LTD	Cheque No.008492 DT 09/03/09	11000.00			11000.00
33	M/S KGL SYSTEM AKNOWLEDGE CO	Cheque No.163359 DT 13/03/09	7000.00			7000.00
34	M/S SWAN ENVIROMENTAL P LTD	Cheque No.680922 DT 11/03/09	55000.00			55000.00
35	M/S SUN TECHNOLOGY	Cheque No.020965 DT 14/03/09	20000.00			20000.00
36	M/S INOVA LAB INSTRUMENTS	Cheque No.964302 DT 13/03/09	14780.00			14780.00
37	M/S BIOTECH SYSTEM	Cheque No.100192 DT 13/03/09	15000.00			15000.00
38	M/S ANTOPAAR INDIAN P LTD	Cheque No.010514 DT 12/03/09	28172.00			28172.00
39	M/S TRI ANGLE SIMULATION P LTD	Cheque No.028082 DT 12/03/09	8000.00			8000.00
40	M/S MACRO SCIENTIFIC WORKS P LTD	Cheque No.931676 DT 09/03/09	450.00			450.00
41	M/S BHARAT INSTRUMENT & CHEM	Cheque No.036092 DT 14/03/09	4000.00			4000.00
42	M/S MACRO SCIENTIFIC WORKS P LTD	Cheque No.931678 DT 09/03/09	700.00			700.00
43	M/S INNOVA LAB INSTRUMENT	Cheque No.964300 DT 13/03/09	590.00			590.00
44	M/S MACRO SCIENTIFIC WORKS P LTD	Cheque No.931679 DT 09/03/09	1000.00			1000.00
45	M/S IDEAS DESIGN SOLUTIN P LTD 3/9 S	Cheque No.551505	13000.00			13000.00
46	M/S LCGC CHROMATOGRAPHY SOLUTION	Cheque No.135964	600.00			600.00
47	M/S CHAWLA FURNISHERS	Cheque No.021097 DT 08/07/09	1500.00			1500.00
48	M/S INTERNATINAL ENVIRO. CONSUTING	Cheque No.647499	40000.00			40000.00
			<b>324747.00</b>			<b>324747.00</b>

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**SCHEDULE SHOWING THE EMD PAYABLE FROM OSC SCHEME AS AT 31.03.2016 FORMING  
PART OF SCHEDULE 3 OF THE BALANCE SHEET**

S No.	Particular	Cheque No.	Bank	Opening Balace	Received / Paid during the year	Amount (in Rs.)
1	M/s Precision Scientific & Testing Equipment, Gurgaon			42000.00		42000.00
2	M/S H & H Technologies Pvt Ltd. Chandigarh			2500.00		2500.00
3	M/S DS Dala Spec Pvt Ltd Chandigarh			2500.00		2500.00
4	M/S SNA Power Engineering Pvt Ltd.			12000.00		12000.00
5	M/S Electronic Teaching Aids, Delhi			1900.00		1900.00
6	M/S Electronic Teaching Aids, Delhi			600.00		600.00
7	M/S Avon Weighting System Ltd. Mumbai			3600.00		3600.00
8	M/S Universal Instrument Co.			20000.00		20000.00
9	M/S Harrison Pharma Machinery Pvt. Ltd. New Delhi			2500.00		2500.00
10	M/S Silicon Electronic Pvt. Ltd. Delhi			0.00		0.00
11	M/S Silicon Electronic Pvt. Ltd. Delhi			0.00		0.00
12	M/S Silicon Electronic Pvt. Ltd. Delhi			0.00		0.00
13	M/S Silicon Electronic Pvt. Ltd. Delhi			1500.00		1500.00
14	M/S Laboratory Instrument & Chemical, Ambala			900.00		900.00
15	M/S DeeJay Corporation Jalandhar			200.00		200.00
16	M/S Yorco Sales Pvt Ltd. New Delhi			700.00		700.00
17	M/S Prolific Enginereering Noida			1400.00		1400.00
18	M/S L D Anablab Instrument New Delhi			2500.00		2500.00
19	M/S Elico Ltd , New Delhi			2500.00		2500.00
20	M/S BioTECH SYSTEM, Chandigarh			3000.00		3000.00
21	M/S Chander Steel Industries, Hoshiarpur			5000.00		5000.00
22	M/S G E Health Care, Chandigarh			18000.00		18000.00
23	M/S Esbee Dynamed Pvt Ltd, Mumbai			4000.00		4000.00
24	M/S Indus International, New Delhi			4000.00		4000.00
25	M/S Elgen Technologies Pvt. Ltd. New Delhi			9000.00		9000.00
26	M/S Rolta India Ltd, Chandigarh			15000.00		15000.00
27	M/S Comsys Technologies, Panchkula			42000.00		42000.00
28	M/S Comsys Technologies, Panchkula			8500.00		8500.00
29	M/S Computer Care, Jalandhar			3856.00		3856.00
30	M/S Aligent Technologies, New Delhi			2250.00		2250.00
31	M/S Agmatel India, New Delhi			2250.00		2250.00
32	M/S Aligent Technologies, New Delhi			1500.00		1500.00
33	M/S Nuilab Equipment Co. P Ltd, Chandigarh			6600.00		6600.00
34	M/S Pelicon Equipments, Chennai			4000.00		4000.00
				<b>226256.00</b>		<b>226256.00</b>

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## Schedule 23

**NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR**  
**SIGNIFICANT ACCOUNTING POLICIES**

1. The financial statements are prepared on the basis of historical cost convention, unless otherwise stated and generally on the accrual method of accounting.
2. Fees from Students (except Tuition Fees), Sale of Admission Forms, Royalty and Interest on Saving Bank Account are accounted on cash basis.
3. Fixed assets are stated as cost of acquisition including inward freight, duties and expenses related to acquisition installation and commissioning. Gifted assets are valued at market value , if any
4. Depreciation on fixed assets is not provided for in the books of accounts. Assets are written off in the books as per the letter issued by the management of the Institute.
5. Valuation of inventories is done at cost or net realizable value whichever is less.
6. Long term investments are carried at their cost or face value whichever is lower. Short Term investments are carried at their cost or market price (if quoted) whichever is lower. The institute has been investing the plan fund in short term bank deposit on which interest is being provided on the basis of bank interest certificates.
7. Contingent Liabilities are shown in Schedule – 24.
8. Assets of small value of Rs.2000 or less are written off fully to income and expenditure account.
9. Accounting for Earmarked / Endowment fund and sponsored projects, schemes and programmes and income from such scheme is done according to directives issued by MHRD for preparation of financial statements to the Central Educational Institutions.
10. Accounting treatment of fellowships and sponsored projects has been done according to the directives issued by MHRD for preparation of Financial Statement of the Central Educational Institutions.
11. The financial statements have been prepared in accordance with the generally accepted accounting principles as applicable to the Govt. Funded institutions funded out of the grant-in-aid aids as per guideline as issued by the MHRD, Govt. of Indian and as per the format prescribed by Govt. of India MHRD.
12. Institute has received Plan Grant, which has been transferred to Schedule -3(c), and to the extent utilized for capital expenditure transferred to capital account in schedule 1 and Non-Plan Grant utilized for revenue expenditure, transferred to Income & Expenditure account. The amount of grant is accounted for in the books of accounts as and when the amount is received by the Institute.
13. The institute is exempted from Income Tax under section 10 (23c) of the Income Tax Act, 1961. Hence, no provision for income tax has been made in the books of accounts.

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## Schedule 24

## NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR

**Notes on Accounts**

1. Physical verification of inventory for the year 2015-16 has been done and the Stationery and consumables items are being purchased as and when requirement arises.
2. The unspent balance under of "Grant under Plan" and "Grant under Non –Plan" released by MHRD is brought to the notice of BOG / MHRD and it is carry forwarded to be spent in the next year, for the purpose it was released.
3. No Fixed Assets has been purchased out of Non Plan Funds as the institute is in receipt of Plan Grant for acquiring Fixed Assets. The Assets have been set up by credit to the Capital Fund in schedule.
4. No Patents have been acquired during the year under consideration.
5. There being no taxable income under Income Tax Act-1961, hence no provision for the income tax has been made.
6. Corresponding figures of the previous year has been regrouped /rearranged, wherever necessary.
7. The list of legal suit/ action brought/initiated against the Institute during the year 2015-16 and also pending legal cases against the Institute as at year end 31.03.2016 is attached herewith.
8. The guidelines for charging depreciation have been issued by MHRD in New Format and the effect of the same has not been given in the Balance Sheet retrospectively. As the institute has large volume of items of Fixed Assets and it is not feasible for it to comply with provisions in a very short time. Hence the depreciation cannot be charged this year. The institute needs proper time for the identification of the each and every item of the fixed assets, so that the depreciation can be charged. The provision for the purchase of fixed assets amounting to Rs. 88,82,667/- of the last year has now been reversed.
9. The institute has made payment in foreign currency for the small amount of 100\$ on regular basis for the Thesis submission fees.
10. Provision for the Expenses for the year 2015-16 has been made on the basis of expenditure pertaining to the month of March but incurred in April 2016.
11. The provision for the gratuity and leave encashment has been made in accounts.
12. Schedule 1 to 24 is annexed to and form an integral part of the balance sheet as at 31<sup>st</sup> March 2016 and Income & Expenditure Accounts for the year ended on that date.

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