

INFORMATION BROCHURE 2018-19 for Undergraduate, Post graduate and Research Programmes



डा बी आर अम्बेडकर राष्ट्रीय प्रौद्योगिकी संस्थान जालन्धर Dr B R Ambedkar National Institute of Technology Jalandhar









DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR-144011, PUNJAB, INDIA EPABX-0091-181-2690301-02, 2690453, FAX: 0091-181-2690320, WEBSITE: www.nitj.ac.in

Со	nte	nts

Details			Page Number
Vision, mission, quality policy			iv
Say No to Ragging			V
Contact Details of important functionaries of the institute		vi	
Academic Cal	endar		vi
1.		INTRODUCTION	1
	1.1	Location	
	1.2	Campus	
	1.3	Collaboration	
2.		PROGRAMMES OF STUDY	1
	2.1	Undergraduate programmes	
	2.2	Post graduate and research programmes	
	2.2.1	Two year regular MTech programme	
	222	Two year regular MSc Programme	
	223	Two year regular MBA programme	
	2.2.0		
3	2.2.4		2
5.	2.1		2
	3.1	Authission under JEE(main)	
	3.2	DASA admission 2015 (15% supplementary seats)	
	3.2.1	Admission under DASA scheme 2015-16	
	3.2.2	Academic eligibility	
	3.2.3	Residential requirement	
	3.2.4	Application fee payment	
	3.2.5	Submission of application	
	3.2.6	Seat allotment procedure	
	3.3	Academic system	
	3.3.1	Credits	
	3.3.2	Grades	
	3.3.3	Structure of grading system	
	334	Grade point averages	
	3.4	Rules and regulations for BTech programmes	
	3/1	Registration	
	312		
	2.4.2	Credite requirements for registration	
	3.4.3		
	3.4.4	Late registration	
	3.4.5	Addition, Deletion, Audit and Withdrawal from courses	-
	3.4.6	Attendance Criteria Requirement	
	3.4.7	Absence during the Semester	
	3.4.8	Academic performance monitoring	
	3.4.9	Measures for helping SC/ST	ļ
	3.4.10	Change of branch	
	3.4.11	Special requirement for degree	
	3.4.12	Discipline	
	3.4.13	Requirement of minimum credits to be earned for registration	
		to a higher semester	
	3.4.14	Requirements to be fulfilled for BTech Dearee	1
	3.4.15	Slow Pace Scheme	1
	3.4.16	Power to Modify	1
4	00	Admission to MTech (full time) programme	8
<u>т</u>	11	Registration	
	4.2	Pogulations for MTach (full time)	1
	4.2	Modification in the scheme of m tack programme	4
	4.3	Advancement of the scheme of the tech programme	40
5		Admission to Intech (part time)	12
6		Admission to MSc Programme	12
	6.1	MSc Degree requirements	
	6.2	Regulations of MSc programme	
7		Admission to MBA (Full Time) programme	14
	7.1	Regulations for MBA programme	
8		Admission to PhD (full time) programme	14
	8.1	Regulations for PhD programme	

0.2	PhD (part time)	
8.3	Provision of Makeup examination for UG/PG Programmes	
8.4	Revision of grant of project to the BTech /MTech/Ph.D Students	
8.5	Provisions of Seminar grant for attending International/National Conference to UG/PG student	
8.6	Summer/Winter Contact courses to B Tech / PG students	
8.7	Improvement in CGPA	
8.8	Fee Refund	
8.9	Seat Matrix for UG Programmes	
8.10	Seat Matrix for CCMT 2015 (MTech-Full Time)	
8.11	Seat Matrix for MSc	
8.12	Seat Matrix for MBA	
8.13	Seat Matrix for PhD	
9	Semester fee and other charges	24
9.1	Mode of payment	
10	Power to modify	24
11	Awards	25
11.1	Institute awards/ Medals	
11.2	Scholarship	05
12	Hostels	25
13	Common facilities and co-cumcular activities	27
13.1	Controp	
13.2	Book shop	
13.0	Students counselling service (SCS)	
13.4	Technical Club	
13.6	Benevolent fund scheme	
13.7	Medical facilities	
13.8	Bank and post office	
13.9	Newsletter	
13.10	Identity cards	
13.11	Curricular activities	
	DEPARTMENTS	
1.	Chemistry	28
2.	Humanities and Management	30
3.	Mathematics	31
4.	Physics	31
5.	Bio-technology	32
6.	Chemical Engineering	33
7.	Civil Engineering	34
8.	Computer Science and Engineering	35
Э.	Electronics and Communication Engineering	30
10.	Industrial and Production Engineering	37
11.	Instrumental and Control Engineering	38
12.	Mechanical Engineering	40
13.	Textile Technology	41
		10
14.	Physical Education and Sports	42
15.	NCC (National Cadet Corps)	44
10.	Computer Centre	44
11.	Contro of Training And Placement	45
10.		46
20	Central Workshop	46
	Abbreviations	47
	NIT Jalandhar IT infrastructure usage Policy	48
	Undertaking with respect to NIT, Jalandhar IT Usage Policy	50
	Telephone Directory (Alphabetical)	51

Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR-144011, INDIA



VISION

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

MISSION

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

QUALITY POLICY

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

SAY NO TO RAGGING NIT Jalandhar – A RAGGING FREE CAMPUS

According to UGC guidelines, the definition of ragging states that any conduct whether by words spoken or written or by an act which has the effect of teasing, treating of handling with rudeness any other student, indulging in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the student to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of sham or embarrassment so as to adversely affect physique or psyche of a fresher or a junior student.

IMPORTANT INSTRUCTIONS FOR THE STUDENTS

- · According to Hon'ble Supreme Court of India, Ragging in Educational Institutions is banned.
- Ragging is a Cognizable Offence.
- · Students are advised not to indulge in Ragging.
- Ragging entails heavy fines and/or suspension/expulsion.
- Ragging is an undesirable social offence, which is totally banned in the Institute.
- In case the applicant for admission in the institute is found to have indulged in ragging in the past or if it is noticed later that he has indulged in ragging, admission may be refused or he/she shall be expelled from the institution.
- In case of Ragging, please do not keep quiet, report it to the Authorities immediately.

• It is mandatory for the parents to report immediately to the Authorities of the Institute in case their wards inform them about ragging.

PUNISHABLE INGREDIENTS OF RAGGING

- Abetment to ragging
- Criminal conspiracy to rag
- Unlawful assembly and rioting while ragging
- Public nuisance created during ragging
- Violation of decency and morals through ragging
- Injury to body, causing hurt or grievous hurt
- Wrongful restraint
- Wrongful confinement
- Use of criminal force
- · Assault as well as sexual offences or unnatural offences
- Extortion
- · Criminal trespass
- Offences against property
- Criminal intimidation
- · Attempts to commit any or all of the above mentioned offences against the victim(s)
- Physical or psychological humiliation
- All other offences following from the definition of "Ragging"

PUNISHMENT

Depending upon the nature and gravity of the offence as established by the Anti-Ragging Committee of the institution, the possible punishment for those found guilty of Ragging at the Institution level shaped any one or any combination of the following:

- Suspension from attending classes and academic privileges
- · Withholding/ Withdrawing scholarship/ fellowship and other benefits
- · Debarring from appearing in any test/ examination or other evaluation process
- Withholding results
- Debarring from representing the institution in any regional, national or international meet, tournament, youth festival etc.
- · Suspension expulsion from the hostel
- Rustication from the institution for period ranging from 1 to 4 semesters
- Expulsion from the institution and consequent debarring from admission to any other institution for a specified period
- Fine ranging between Rupees 25,000/- and Rupees 1 Lakh

• Collective punishment: When the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment

• Fresher who do not report the incidents of ragging either as victims or as witnesses shall also be punished suitably.

As per the directions of the Hon'ble Supreme Court of India, if any incident of ragging comes to the notice of authority, the concerned student shall be given liberty to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the Institute"

CONTACT DETAILS OF IMPORTANT FUNCTIONARIES OF THE INSTITUTE

Name	Designation	Email ID	
Prof. Lalit Kumar Awasthi	Director	director@nitj.ac.in	
Dr S K Mishra	Registrar	registrar@nitj.ac.in	
Dr B S Kaith	Dean (Academic)	da@nitj.ac.in	
Dr S P Singh	Dean (Planning & Development)	deanpd@nitj.ac.in	
Dr A L Sangal	Dean (Students Welfare)	dsw@nitj.ac.in	
Dr Arvind Bhardwaj	Dean (Research &Consultancy)	drc@nitj.ac.in	
Dr S K Sinha	Dean (Faculty Welfare)	dfw@nitj.ac.in	
Dr Raman Bedi	Associate Dean (Academic-PG)	as.dapg@nitj.ac.in	
Dr Anish Sachdeva	Associate Dean (Academic-UG)	as.daug@nitj.ac.in	
Dr Dilbag Singh	Associate Dean (Planning & Development)	as.dpd@nitj.ac.in	
Dr A K Choudhary Dr Rohit Mehra	Associate Dean (Students Welfare)	as.dsw@nitj.ac.in as1.dsw@nitj.ac.in	
Dr A Mukhopadhyay	Associate Dean (Research & Consultancy)	as.drc@nitj.ac.in	
Dr S Bajpai Dr N Basak	Associate Dean (Faculty Welfare)	as.dfw@nitj.ac.in as1.dfw@nitj.ac.in	
Wardens	Hostel No	Email	
Dr Vinay Midha	Chief Warden	midhav@nitj.ac.in	
Dr L P Singh	Senior Warden Hostel No.1 & 2	singhl@nitj.ac.in	
Dr Avtar Singh	Warden Hostel No.1	avtars@nitj.ac.in	
Dr Pawan Kumar Verma	Warden Hostel No.2	vermapk@nitj.ac.in	
Dr Abhinav Pratap Singh	Senior Warden Hostel No. 3 ,4 & 5	jaiswarsinghap@nitj.ac.in	
Dr Mohit Tyagi	Warden Hostel No. 3 & 4	tyagim@nitj.ac.in	
Dr Nitin Naresh Pandhare	Warden Hostel No.5	pandharenn@nitj.ac.in	
Dr Jatinder Kumar Ratan	Senior Warden Hostel No. 6,7 & 7E	kumarj@nitj.ac.in	
Dr Dilbagh Panchal	Warden Hostel No. 6	panchald@ntij.ac.in	
Dr Manoj Kumar	Warden Hostel No. 7 &7E	kumarm@nitj.ac.in	
Dr Uma Shanker	Senior Warden MHB Block A & MHB Mess	shankeru@nitj.ac.in	
Dr Varun Sharma	Warden MHB Block A & MHB Mess	sharmav@nitj.ac.in	
Dr Virender Singh	Senior Warden MHB Block B & F	singhv@nitj.ac.in	
Dr Anjireddy Bhavanam	Warden MHB Block B & F	bhavanama@nitj.ac.in	
Dr Jaspreet Rajput	Senior Warden GH-1,2 & MGH	rajputj@nitj.ac.in	
Dr Indu Chauhan	Warden Girls Hostel No:-1	chauhani@nitj.ac.in	
Dr Anee Mohanty	Warden GH-2 & MGH	mohantya@nitj.ac.in	
Dr Tarun Sehgal	Medical Officer	sehgalt@nitj.ac.in	

For Phone numbers see Telephone Directory (Alphabetical) given at the end of this prospectus.

Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR Modified Academic Calendar – Odd Semester (UG, PG and Ph D Courses) July – December 2018

Days	July	August	September	October	November	December
SAT			1			1 End Sem Exam 1
SUN	1		2			2
MON	2		3 Janamas htami	1 1		3 End Sem Exam 2
TUE	3		4 1	2 Mahatma Gandhi's Birthday		4 End Sem Exam 3
WED	4	1** 1	5 2	3 2		5 End Sem Exam 4
THU	5	2** 2	6 3	4 3	1 1	6 End Sem Exam 5
FRI	6	3** Last day of Regn. with late fee 3	7 4	5 4	2 2	7 End Sem Exam 6
SAT	7	4	8	6	3	8 End Sem Exam 7
SUN	8	5	9	7	4	9
MON	9	6 4	10 Minor-I 5	8 5	5 3	10 B Tech 1 ⁴ year Engg Graphs (ME- 101) 8
TUE	10	7 5	11 Minor-I 6	9 6	6 4	11***
WED	11	8 6	12 Minor-I 7	10 7	7 Diwali (Deepavali)	12***
THU	12	9 7	13 8	11 8	8 5	13***
FRI	13	10 8	14 9	12 9	9 6	14***
SAT	14	11	15	13	10	15
SUN	15	12	16	14	11	16
MON	16	13 9	17 10	15 10	12 Pre-registration for Open Elective 7	17 ***
TUE	17	14 10	18 11	16 11	13 8	18 Showing of Answer Sheets
WED	18	15 Independence Day	19 12	17 NIT Celebration Day 12	14 9	19 Moderation of Grades
THU	19	16 11	20 13	18 13	15 10	20 Display of Grades
FRI	20	17 12	21 Muharram	19 Dussehra	16 Techniti (Classes suspended)	21 Submission of Awards to COE
SAT	21	18	22	20	17 Techniti	22
SUN	22	19	23	21	18 Techniti	23
MON	23* Start of Registration	20 13	24 14	22 Minor-II 14	19 11	24 Winter Vacation
TUE	24	21 14	25 15	23 Minor-II 15	20 12	25 Christmas Day
WED	25	22 Idu'l Zuha (Bakrid)	26 16	24 M aharishi Valmiki's Birthday	21 13	26
THU	26	23 15	27 17	25 Minor-II 16	22 # Notification of detainee students 14	27
FRI	27	24 16	28 18	26 17	23 Guru Nanak's Birthday	28
SAT	28	25	29	27	24	29
SUN	29	26	30	28	25	30
MON	30* Start of Classes and last day of Regn without late fee 1	27 17		29 18	26 End Sem Exam 15	31
TUE	31** 2	28 18		30 19	27 End Sem. Exam. 16	
WED		29 19		31 20	28 End Sem. Exam. 17	
THU		30 20			29 End Sem. Exam. 18	
FRI		31 21			30 End Sem. Exam. 19	
	Teaching Days: 02	21	18	20	19	08
├ ──	Cumulative	23	41	61	80	88
	Teaching Days: 02					

* Registration will be held in respective departments without fine from July 23-30, 2018.
** Thereafter registration will be done with Late fee of Rs. 500/- in respective department from July 31-August 03, 2018.
*** Final practical examinations.
Note 1: Winter vacation - December 24, 2018 to January 04, 2019. Start of Classes for even semester - January 07, 2019.
2. The payment of fees online does not amount to registration which must be done separately by the student in person at the department.
3. No registration after the last date with late fee (i.e. after 3" August, 2018) will be permitted under any circumstances

DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR-144011, INDIA

INTRODUCTION

Dr B R Ambedkar National Institute of Technology was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. Now the Ministry of Human Resource Development, Government of India has declared the Institute as *"Institute of National Importance"* under the act of Parliament-2007. A large number of reputed Industrial houses in the country visit the Institution and select the final year students as Engineers/Management Trainees. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country. The Institute offers BTech, MTech, MSc, MBA and PhD programmes in the several disciplines of engineering, technology and Sciences.

1.1 Location

The city of Jalandhar is situated between the rivers Sutlej and Beas on National Highway 1. It is one of the important towns of Punjab and is known for rich educational, cultural and literary activities. It is an internationally renowned industrial Centre for sports goods, leather goods and hand-tools. The city is 370 kms away from Delhi enroot to Amritsar and is easily accessible from Delhi by train or bus. The Shatabdi Express trains plying from New Delhi in the morning at 07.20 hrs and in the evening at 16.30 hrs. Are the best modes of travel to Jalandhar. This train takes less than 5 hours to reach Jalandhar City.

How to reach us: The institute is located on G.T Road Amritsar bye-pass at a distance of 15 km from Jalandhar Bus Stand, 12 km from Jalandhar City Railway Station, and 18 km from Jalandhar Cantt Railway Station.

1.2 Campus

The Institute campus is wide spread over an area of 154 acres. It has many topographical features, various buildings of different nature with clean and wide roads surrounded by a green belt. The campus area has been broadly divided into different functional zones: (i) institution zone for teaching departments/centers/administration (ii) residential zone for the faculty and staff (iii) students' hostel zone. Other amenities on the campus include a guest house, a community Centre, a dispensary, shopping Centre, banks, post office, sports complex, playgrounds, new Tennis courts, Basketball courts, Volleyball courts, open air theatre, central seminar hall and night canteen etc.

1.3 Administration

Dr B R Ambedkar National Institute of Technology Jalandhar is an autonomous Institution under the aegis of Ministry of Human Resource Development, Govt. of India, New Delhi. The Institution functions under the overall control and guidance of the Board of Governors, the Director being the Executive Head of the Institute. The other administrative bodies of the Institute are the Senate, the Finance Committee, and the Building and Works Committee-the Registrar, being the Secretary.

There are five Deans in the institute:

- Dean Academic
- Dean Planning and Development
- Dean Research and Consultancy
- Dean Faculty Welfare
- Dean Student Welfare

1.4 Collaboration

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
- Confederation of Indian Industries, New Delhi
- Central Leather Research Institute, Madras
- Central Institute of Hand Tools, Jalandhar
- CSIO Chandigarh
- DRDO, Delhi
- Forest Research Institute, Dehradun
- Hewlett Packard (HP)
- Infosys
- IIP Dehradun
- IHBT Palampur

IBM India Limited, Gurgaon

- Jayashree Textiles, Rishra
- QÚARK
- SUN Microsystems India Ltd.
- TCS. Mumbai
- University of Dundee, Scotland (U.K.)
- École Centrale de Lille (France)
- IIT Mandi
- Dell EMC

.

PROGRAMMES OF STUDY

The Institute offers following undergraduate, postgraduate and research programmes

2.1 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

Textile Technology

Mechanical Engineering

2.2 Post Graduate and Research Programme

2.2.1 Two year regular MTech Programmes

- Chemical Engineering(Department of Chemical Engineering)
- Computer Science and Engineering(Department of Computer Science and Engineering)
- Information Security (Department of Computer Science and Engineering)
- Control and Instrumentation Engineering(Department of Instrumentation and Control Engineering)
- Electronics and Communication Engineering(Department of Electronics and Communication Engineering)
- Manufacturing Technology(Department of Industrial and Production Engineering)
- Mechanical Engineering(Department of Mechanical Engineering)
- Structural and Construction Engineering(Department of Civil Engineering)
- Textile Engineering and Management(Department of Textile Engineering)
- VLSI Design (Department of Electronics and Communication Engineering)

2.2.2 Two year regular M Sc Programmes

- Chemistry
- Physics
- Mathematics

2.2.3 Two year regular MBA Programme

2.2.4 Ph D Programmes

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

3. ADMISSIONS TO B Tech PROGRAMMES

3.1 Admission under JEE (Main)

Admission criteria to Undergraduate Engineering Programs at NITs, IIITs, Other Centrally Funded Technical Institutions, Institutions funded by participating State Governments, and other Institutions shall include the performance in the class 12/equivalent qualifying Examination and in the Joint Entrance Examination, JEE (Main). The Paper-1 (B. E. /BTech.) of JEE (Main) will also be an eligibility test for the JEE (Advanced), which the candidate has to take if he/she is aspiring for admission to the undergraduate programmes offered by the IITs. The States of Gujarat, Maharashtra, Madhya Pradesh, Nagaland and Odisha have joined JEE (Main) system. Therefore, the candidates seeking admission to the institutions in these states, which were earlier admitting based on their State Level Examination, are also advised to fill in the JEE (Main) - 2016 application form online.

At B Tech level, students are admitted through JEE (main) Examination conducted by the Central Board of Secondary Education, New Delhi. As per the direction of the MHRD 50% of the seats in NITs will be filled from eligible candidates of States where NITs are located and rest 50% will be filled on All India Merit basis. The admissions are made centrally by CSAB (Central seat allocation board) as per the directions of MHRD. For latest information related to CSAB, kindly visit www.csab.nic.in

3.2 DASA Admission (15% Supernumery seats)

Admissions for Foreign Nationals/ Persons of Indian Origin (PIOs)/ Non-Resident Indians (NRIs) under DASA (Direct Admission of Students Abroad) Scheme of Ministry of Human Resource Development (MHRD), Government of India for Undergraduate programs in Engineering/Architecture for the Academic year 2017-18 to National Institutes of Technology (NITs), Indian Institutes of Information Technology (IIITs), Schools of Planning and Architecture (SPAs) and other premier technical institutions in India.

3.2.1 Admissions under DASA Scheme 2017-18

From time immemorial, India has been a Centre for learning. Indian universities and institutes of higher education and research have made a significant contribution in science and technology and have played a lead role in transforming the country into a knowledge society. India can claim its position as one of the leading countries providing affordable higher education to its people as well as to students and scholars from countries all over the world. Students can be assured of experiences rich in traditions, heritage, and exposure to diverse culture which would enable them to acquire the necessary skills to succeed in today's global economy without geographical barriers. The Technical Institutions which are participating in DASA 2017-18 have established themselves among the top ranked institutions in the country in both teaching and research and the graduates are assured of a rewarding professional career. A degree from any of these institutions is among the most competitive of its kind when pursuing an international career in architecture, engineering or technology. The admission to Foreign Nationals/ Persons of Indian Origin/ Non-Resident Indians to undergraduate programs in Premier Technical Institutions is being offered under DASA scheme of MHRD from the academic session 2001-02 onwards. For details please refer to DASA website: www.dasanit.org

3.2.2 Academic Eligibility

Candidates must have passed the qualifying examination, i.e. Senior Secondary [10+2] or equivalent from any system of education as recognized by the Association of Indian Universities (AIU). Candidate should have completed successfully Mathematics, Physics and any one of the subjects from (Chemistry, Bio-technology, Computer Science, Biology) - in 11t^h AND / OR 12th, as applicable in the respective boards.

AND

Must have secured a minimum of at least 60% aggregate marks or 6.50 (on a 10 point scale) or equivalent in the qualifying examination.

AND

Candidate should have a minimum total valid score of 1440 in SAT Subject Tests (Subjects: Mathematics Level 2, Physics and Chemistry). SAT subject test score has to be sent directly through College Board to MNIT Jaipur (Institute Code: 7664). Internet downloaded score cards are not acceptable. Applicants at the time of registration for SAT Subject Tests should indicate Institute code 7664 for sending their scores to MNIT Jaipur. Applicants who have taken multiple attempts in SAT Subject Tests can send valid score to MNIT Jaipur directly through College Board USA. The best valid score in each subject will be considered for arriving at the total score which will be used for merit list preparation. SAT Subject Test scores received till 1st June, 2018 only will be considered for preparation of merit lists for Round 1, Round 2 and Round 3.

3.2.3 Residential Requirement

Candidates must be Foreign Nationals/ Persons of Indian Origin who have completed the qualifying examination in any country OR Indian Nationals studying abroad. In case of Indian Nationals, they must have completed their 11th and12th standard or equivalent from outside India.

3.2.4 Application Fee payment

Registration Fee and First Semester Tuition Fee: A total amount of US\$ 4300 [US Dollars Four thousand three hundred only] is required to be paid along with the application form. This is towards non-refundable registration fee of US\$ 300 [US Dollars Three hundred only] and first semester Tuition Fee of US\$ 4000 [US Dollars Four thousand only] Foreign Nationals, who are nationals of SAARC countries, are eligible for 50% Tuition Fee waiver provided they have passed the qualifying examination in SAARC countries. They are required to pay an amount of US\$ 2,300 [US Dollars Two thousand and three hundred only] along with the application form (i.e. US\$ 2,000 towards first semester tuition fee and a nonrefundable registration fee of US\$300).

The fee can be paid either through SWIFT Transfer or e-payment. Charges for fee payment, if any, should be borne by the candidate.

3.2.5 Submission of Application

The submission of application is a two-step process, both are essential.

a. Online application (http://www.dasanit.org) and submission of required documents online (scanned and uploaded). No hard copy of application or supporting documents needs to be sent.

b. SAT subject test score to be sent to MNIT Jaipur through College Board, USA (Institute Code 7664)

3.2.6 Seat Allotment Procedure

Seat allotment will be based on SAT subject test scores and the choices given by the candidate, in the order of their merit and priority taken together.

Participating Institutions

National Institutes of Technology (NITs) 1 National Institute of Technology, Agartala, Tripura www.nitagartala.in 2 Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh www.mnnit.ac.in 3 National Institute of Technology, Arunachal Pradesh www.nitap.in 4 Maulana Azad National Institute of Technology, Bhopal, Madhya Pradesh www.manit.ac.in 5 National Institute of Technology, Calicut, Kerala www.nitc.ac.in 6 National Institute of Technology, Delhi www.nitdelhi.ac.in 7 National Institute of Technology, Durgapur, West Bengal www.nitdgp.ac.in 8 National Institute of Technology, Goa www.nitgoa.ac.in 9 National Institute of Technology, Hamirpur, Himachal Pradesh www.nith.ac.in 10 Malaviya National Institute of Technology, Jaipur, Rajasthan www.mnit.ac.in 11 National Institute of Technology, Jalandhar, Punjab www.niti.ac.in 12 National Institute of Technology, Jamshedpur, Jharkhand www.nitjsr.ac.in 13 National Institute of Technology, Kurukshetra, Haryana www.nitkkr.ac.in 14 National Institute of Technology, Manipur www.nitmanipur.in 15 National Institute of Technology, Mizoram www.nitmz.ac.in 16 Visvesvaraya National Institute of Technology, Nagpur www.vnit.ac.in 17 National Institute of Technology, Patna, Bihar www.nitp.ac.in 18 National Institute of Technology, Puducherry, Karaikkal www.nitpy.ac.in 19 National Institute of Technology, Raipur, Chhattisgarh www.nitrr.ac.in 20 National Institute of Technology, Rourkela, Orissa www.nitrkl.ac.in 21 National Institute of Technology, Sikkim www.nitsikkim.ac.in 22 National Institute of Technology, Silchar Assam www.nits.ac.in 23 National Institute of Technology, Srinagar, Kashmir www.nitsri.net 24 Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat www.svnit.ac.in 25 National Institute of Technology Karnataka, Surathkal, Karnataka www.nitk.ac.in 26 National Institute of Technology, Tiruchirappalli, Tamilnadu www.nitt.edu 27 National Institute of Technology, Warangal, Andhra Pradesh www.nitw.ac.in

Indian Institutes of Information Technology (IIITs)

28 Indian Institute of Information Technology, Allahabad, (Jhalwa & Amethi Campus), UP

- 29 ABV-Indian Institute of Information Technology and Management, Gwalior, MP
- 30 Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, MP
- 31 Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram, Chennai

Schools of Planning and Architecture (SPAs)

32 School of Planning and Architecture, Bhopal 33 School of Planning and Architecture, Delhi 34 School of Planning & Architecture, Vijayawada

Other Premier Technical Institutions

35 PEC University of Technology, Chandigarh
36 Delhi Technological University, Delhi
37 Indraprastha Institute of Information Technology Delhi
38 Sant Longowal Institute of Engineering and Technology, Longowal, Punjab
39 National Institute of Foundry and Forge Technology, Ranchi, Jharkhand
40 Pandit Deendayal Petroleum University, Gandhinagar
41National Institute of Electronics and Information Technology, Aurangabad
42 Netaji Subhas Institute of Technology Delhi

For details and Information brochure visit

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3.3 Academic System

(The information regarding Academic system in this prospectus is for information only. The relevant regulations as approved by institute senate from time to time will be applicable to students.)

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 based on individual ability and convenience, subject to the constraint of the minimum requirements for continuation of the academic programme. The students are awarded a letter grade from the prescribed grading system in each course registered by them. For each pass grade, the students accumulate the course credits as earned credits. The academic performance of the students 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 for the award of degree.

3.3.1 Credits

Each lecture/tutorial of one-hour duration per week in a semester is assigned one credit. Each laboratory hour per week in a 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.

3.3.2 Grades

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

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

3.3.3 Structure of Grading System

www.iiita.ac.in www.iiitm.ac.in www.iiitdmj.ac.in www.iiitdm.ac.in

www.spabhopal.ac.in www.spa.ac.in www.spav.ac.in

www.pec.ac.in www.dce.ac.in www.iiitd.ac.in www.sliet.ac.in www.nifft.ernet.in www.pdpu.ac.in www.aurangabad.nielit.gov.in www.nsit.ac.in *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 coordinator with proper justification. However minimum marks to assign a pass grade must be 40 for all academic programmes run in the Institute.

*with effect from 2012 batch as per Senate decision in its 21st meeting

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. 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, the course in which a B Tech student to get NP grade, will also count towards his/her earned credits but to the maximum extent of 8 credits. Any course in which a student has obtained "W" or "NF" grade will not be counted towards his/her earned credits.

In case of other (elective) courses in which U or W grade has been obtained, the student may take the same course or any other course from the same category when it is offered next. Further, "U" grade secured in any course stays permanently on the grade card. The weightage of these grades is not counted in the calculation of the SGPA and CGPA (Please refer for information 3.3.4)

It is compulsory for every student to appear in the End Semester Examination of each course. A student who does not appear in the End Semester Examination shall be normally awarded a U Grade if no approval for Grant of I-Grade is accorded. 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 replaced by a regular grade. The 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.

3.3.4 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:

 $SGPA = \frac{\sum (\text{Course credits} \times \text{Grade point}), \text{except audit courses, obtained during a semester}}{\sum (\text{Course credits}), \text{except audit courses, obtained during a semester}}$

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

 $CGPA = \frac{\sum (\text{Course credits} \times \text{Grade point}) \text{ of courses with pass grade except audit courses up to a specific semester}}{\sum (\text{Course credits}) \text{ of courses with pass grade except audit courses up to a specific semester}}$

3.4. Rules and Regulations for B.Tech Programmes

3.4.1 Registration

Registration is an important procedural part of the academic system which ensure the willingness of the student to continue in the course of the study in the institute. No credit is given to the student who attendts 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 requisre 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, Withdrawl 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.

The following credits are required to be earned for the registration in the next semester for BTech batches:

S.No	2012 onwards	Previous batches
i	25	30
ii	50	60
iii	75	90

3.4.2 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 student's interest. Special provisions exist for academically weak students.

3.4.3 Credits requirments for Registration

A student must register for aminimum 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 to run an elective course and will be decided by the department concerned from time to time.

3.4.4 Late Registration

- I. 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.
- II. 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) 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. The attendance requirements of 75 % will not be relaxed in late registration cases and same will be counted from the date of start of the class.

3.4.5 Addition, Deletion, Audit and Withdrawal from courses

- I. Add and Drop: A student has the option to add or delete courses from his/her registration during the first week of the semester.
- II. 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.
- III. 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.

3.4.6 Attendance Criteria Requirement

- I. All students must attend every lecture, tutorial and practical class. The Institute desires 100% attendance with a provision for consideration for absence on account of late registration, sickness or other such contingencies. The attendance requirement of 75% of the scheduled classes in course is needed for appearing in the examination.
- II. A student with less than 75% attendance in a course during a semester will be awarded '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.
- III. 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.
- IV. For the purpose of attendance, every scheduled practical class will count as one unit irrespective of the number of contact hours.
- V. The Course Coordinator will consolidate the attendance record for the course from the beginning of the semester till 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) / Deputy Registrar(Academics).
- VI. 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 day, will be indicated in a code number/letter as follows:

Attendance rounded to	Code No/letter
95% and above	Н
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 shortfall exists.

3.4.7 Absence during the Semester

- I. A student must inform the Dean (Academics) immediately of any instance of continuous absence from classes.
- II. A student who is absent due to illness or any other emergency, upto a maximum of two weeks, should approach the Course Coordinator for make-up in quizzes, assignments and laboratory work.
- III. 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.
- IV. It is compulsory for every student to appear in the End Semester Examination of each course. A student who does not appear in the End Semester Examination shall be awarded a U Grade. 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 in discussions with concerned course coordinator, will refer the matter to Dean (Academic). The student should, subsequently, complete all course requirements according to prescribed schedule.
- V. In special situations arising due to student's inability to be present at the institute during the stipulated period, the period for convocation I grade can be extended to the beginning of the next semester. Approval for this extension is granted by

Dean (Academic), on the recommendations of the concerned Head of 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.

- VI. 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 applications 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) 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.
- VII. If a student is continuously absent from the institute for more than four weeks without notifying the Dean (Academic), his/her name will be removed from the Institute rolls.

3.4.8 Academic Performance Monitoring

The academic performance of students is monitored at the end of each semester by the Dean (Academic) and students failing short of prescribed minimum requirements will be informed accordingly and subsequent monitoring will be followed. The termination of the registration of the students with unsatisfactory performance will be referred to the Senate. The Senate would then appropriately make the final decisions on merit of each case.

3.4.9 Measures for helping SC/ST students (as per Senate decision in its 9th meeting)

A number of measures exist for helping students belonging to SC/ST categories. A senior staff member is appointed as Advisor to SC/ST students to advise them on academic and non-academic matters may be approached for obtaining assistance.

3.4.10 Change of Branch (Degree Programme)

- I. A student admitted to a particular discipline of BTech will normally continue in that discipline till completion of the degree.
- II. The provision of change of discipline of study of a student should be made after the completion of first two semesters (1st year) provided vacancies/vacancy exist(s) in discipline(s).
- III. The filling of vacancies for change of discipline should be done category wise (General, SC, ST or any other category notified by the Ministry of Human Resource Development, Govt. of India, New Delhi).
- IV. A student is eligible to apply for change of discipline at the end of first year (after 2nd semester) only, provided he/she satisfies the following criteria:
 - i. CGPA for General category students: greater than or equal to 7.50 in first attempt.
 - CGPA for SC/ST category students: greater than or equal to 6.50 in first attempt.
 - ii. Earned credits at the end of 1st year must be equal to the credits prescribed in the scheme of first and second semester (1st year) of their studies.
 - iii. Any credits earned through contact course, shall not be considered for discipline change.
- V. The change of discipline will be permitted strictly in order of merit as determined by the CGPA at the end of the first year subject to the limitation that (a) the actual number of students in the 3rd semester in the branch to which transfer is to be made, should not exceed the sanctioned strength and (b) maximum 10% registered students in 3rd semester of the discipline from which transfer is sought, will be allowed the change of discipline.
- VI. Application for a change of discipline must be made by intending eligible students in the prescribed form for this purpose. The Deputy Registrar (Academics) will call for application and the completed application forms must be submitted to him by the last date specified in the notification.
- VII. The alteration of choices will not be permitted after the last date.
- VIII. Change of discipline shall be made strictly on the basis of inter-se-merit of the applicants, based on CGPA. Ties will be broken by JEE (main) rank of applicants.

3.4.11 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. NSO (National Sports Organization)
- 2. NCC (National Cadets Corps)
- 3. NSS (National Service Scheme)
- All students are required to enroll for either one of NCC, NSO or NSS activity in their first year.
- On completion of 100 hours, student is awarded "Satisfactory" grade.
- Further, this 100 hours' requirement over a period of one year is broken into 50 hours' requirement per semester.
- The student is registered in NCC-1/NSO-1/NSS-1 level in the 1st Semester and on obtaining "Satisfactory" grades he/ she is allowed to registered in NCC-2/NSO-2/NSS-2 in the 2nd Semester.
- Unless a student obtains "Satisfactory" grade in both 1st and 2nd semesters he/she does not complete the non-credit (NC) requirement of NCC, NSO, NSS.
- This requirement should be completed in one year. If, however, a student is not able to complete this requirement in the first year, he/she must complete it by the end of the 2nd year (4th semester), otherwise he/she will not be allowed to register for any course until he/she completes this mandatory requirement.

3.4.12 Discipline

- i. Every student is required to observe disciplined and decorous behavior both inside and outside the institute campus and not to indulge in any activity, which will tend to bring down the prestige of this institute.
- ii. Any act of indiscipline of a student reported to the Dean (Student welfare) will be referred to the Institute Discipline and welfare Committee constituted by the Senate, which will enquire into the charges and recommend suitable punishment if the charges are substantiated.
- iii. Every student shall have to undertake 2-credits of discipline for award of BTech degree. The student shall be continuously evaluated for discipline during his/her entire period of enrolment.

3.4.13 Requirement of minimum credits to be earned for registration in higher semesters (*as per Senate decision in its* 13th meeting)

A student is required to earn a minimum 30 credits for registration in the 3rd semester, 60 credits for registration in 5th semester and minimum 90 credits for registration in 7th semester with a condition that he/she to pass the degree within six years.

For 2012 Batch onwards: A student is required to earn a minimum 25 credits for registration in the 3rd semester, 50 credits for registration in 5th semester and minimum 75 credits for registration in 7th semester.

3.4.14 Requirements to be fulfilled for B Tech Degree

A student would be eligible to obtain B Tech (Four Year) Degree, if he/she

- a. Earns prescribed number of credits in all
- b. Obtains a minimum Cumulative Grade Point Average (CGPA) of 5.0
- c. Fulfills the requirements of all courses under different categories as prescribed in the syllabi
- d. Completes the prescribed practical training satisfactorily
- e. Fulfills the requirement of attending NCC/NSS/NSO activities in their first year or at best by the end of second year (fourth semester) satisfactorily
- f. Must have Earned pass grade in the discipline courses.
- g. Maximum duration of degree course is 6 years. However additional extension of one semester may be allowed by the chairman BOAC on the recommendations of the Head of the concerned department.

3.4.15 Slow Pace Scheme

Identification of students:

- a) After the completion of 1st year the students who failed to clear 60% of total 1st year credits.
- b) If the student after repetition of 1st year courses failed to clear 60 % of credits again at the end of 2nd year of their study at NITJ, they have to join the slow pace program.

Courses to be offered per semester to slow pace programmes students:

- a) Maximum 4 no of theory courses or min 3 No of theory courses can be allowed to register in a semester.
- b) Maximum 4 No of practical courses can be allowed to register in a semester.
- c) Total registered credits per semester should not be more than 20.

Duration:

Maximum time duration to be allowed to the students to complete the BTech degree in slow pace programmes shall be eight years from the date of admission.

Certificates (DMC & Degree)

The DMC of these types of candidates will bear the tag of "Slow Pace" and BTech certificate will be the same as that of the regular candidates.

3.4.16 Power to Modify

Notwithstanding all that has been stated above, the Senate has the right to modify any of the above regulations from time to time. For any ambiguity of clarification, the decision of the Chairman, Senate will be final.

4. Admission to MTech (full time) programme

Admission to MTech (Full Time) programmes to candidates/students is conducted centrally through CCMT as per the directions of MHRD. The admission is based strictly on the merit as per GATE scores.

4.1 Registration:

MTech (Full Time)

- 1. Every student will enroll and register for the courses he/she intends to undergo during the first semester, of MTech programme on a pre-specified date notified for the purpose.
- 2. In case of subsequent semesters, the registration for the courses will be done on a specified date/dates before the end semester examination of the previous semester. In this connection, there may be proper registration card, which will contain details of the core and elective courses, seminars and dissertation work to be taken up in the semester along with the number of credits for each course/seminar/project work.
- 3. During the 4th semester, students will normally be registered only for the dissertation work and not for theory courses. In case a student is short of a few credits required for the MTech degree, he/she may be permitted by the Chairman, BOAC to register for one or two courses along with Project under the clear recommendations from the concerned head of the department. However, the teaching assistantship wherever applicable will be paid only for a maximum duration of four semesters.
- 4. Late registration will be allowed with a late fee of Rs.500/- up to one week beyond the last date specified for the registration. However, under special circumstances, the period may be relaxed by the Dean, Academic Programmes.

- 5. From 2nd semester onwards, all MTech students are required to enroll on a specified date at the beginning of a semester. A student will become eligible for enrollment only if, in addition to satisfying all the academic requirements, he/she has cleared all dues to the institute, hostel, library, etc., up to the end of the previous semesters and he/she has not been debarred from enrollment by the institute discipline committee. At the time of enrollment, a student can drop a course for which he/she was registered earlier and opt for another course with the consent of all faculty advisors and on valid grounds.
- 6. Withdrawal from course, in which a student is earlier registered, is permissible up to two weeks from the date of commencement of the semester. However, its substitution by another course is not permitted. The number of courses after, withdrawal should enable the students to earn the necessary credits to continue his/her studies.
- 7. In case the withdrawal has been from the list of core courses, the student will have to register for these courses when offered next.
- 8. A student may be allowed by Chairman, BOAC to withdraw from a semester completely under extra ordinary circumstances e.g. medical grounds. However, withdrawal from a semester will be allowed only for a maximum continuous period of two semesters.

4.2 Regulations of MTech (Full Time) Programme

a. Eligibility Criteria for Admission

- i. Candidates who have been awarded Bachelor's Degree in Engineering/ Technology from a recognized university with a valid GATE score or Master's Degree in appropriate branch of Sciences with a first class or minimum 60% marks (CGPA 6.5) or equivalent and a valid GATE score or UGC/CSIR fellowship are eligible to apply for admission to MTech programme of the institute. However, if the seats remain vacant after admitting GATE qualified candidates, candidates without GATE score may be considered.
- ii. Candidates sponsored by UGC/AICTE approved technical institutes having same academic qualifications as required at 4.2.a.i and preferably two years' experience of full time job are eligible to apply for MTech programme, A valid GATE score or UGC/CSIR fellowship is not required for such candidates.
- iii. Candidates sponsored by industries /R&D organization/national laboratories having academic qualifications as in 4.2.a.i preferably with two years of experience are eligible to apply for the MTech programme. However, a valid GATE score or UGC/CSIR fellowship is not required for such candidates.
- iv. For a foreign national candidate who applies through Ministry of human Resource Developments, Govt. of India, or Indian Council of Cultural Relation, Govt. of India, are eligible to apply provided that they possess the same minimum qualifications as given in 4.2.a.i.
- v. All in service candidates will have to submit No Objection Certificate of their employers compulsorily.

b. Admission procedure

- I. Applications on prescribed format will be invited once an year through advertisement in the national dailies media and on institute's website.
- II. The Board of Governors of the Institute on the recommendations of the Institute Senate will decide about the number of seats for various Departments/Centres/Specializations. The reservation of seats for SC/ST/OBC/PWD Candidates will be as per the Govt. of India norms provided the SC/ST/OBC/PWD candidates have valid GATE score and satisfy other Senate requirements.
- III. The BOAC will decide on the operational aspects of selection of candidates.
- IV. Regarding all matters concerning selection of candidates, the decision of the Chairman Senate or his nominee, viz; Chairman, BOAC will be final.
- V. The selected candidates will have to satisfy all other admission requirements stipulated in the letter of offer of admission and only then they will be admitted to MTech programme after payment of the prescribed fee and other charges. If at any subsequent time, It is found that the candidates do not fulfill any of the stipulated requirements, the Chairman, BOAC may revoke his/her admission to the programme with the approval of the Director.

c. Programme Structure

i. Each stream of MTech programme will have the following components:

Core Courses (theory), practicals and seminar/independent study

Elective Courses

Dissertation work

In addition, the MTech students may be required to give one or more seminars and undergo industrial/practical training as per the requirements of the programme.

- ii. Each Regular MTech programme will be completed in four semesters. During each MTech semester, the students will register for courses being offered by the department so that the requirement of minimum number of credits for successful completion of any MTech programme is met.
- iii. Each MTech student will be required to register for all the core courses specified in the curriculum of his programme of studies and he/she will have to successfully complete all the core courses.
- iv. Each MTech student will have to register for elective courses offered by the department in that particular semester from the list of courses approved by the institute senate. However, a student may be permitted to select electives other than those being offered by the departments provided these have relevance to the area of specialization.
- v. In certain specialization MTech programmes, a student may be permitted to register for a maximum of two BTech courses. Such courses will be identified by the concerned department with a prior approval of the institute Senate.

vi. Each course will be assigned credits as follows.

One credit for each lecture period. One credit for each tutorial period.

One credits for each laboratory session of two or three hours.

Credits for seminars, industrial/practical training will be as per the curriculum approved by the institute senate.

d. Faculty Advisor

To render general advice to the students in connection with the academic programmes and to help them in planning the courses of study. The admitting department/Centre will assign a group of students to a faculty member, to be called the faculty advisor, of the department/centre.

e. Maximum Duration of the Programme

- i. Minimum duration of the MTech programme for regular candidates shall be four semesters.
- ii. The students who do not complete their dissertation work up to the end of 4th semester and are permitted to submit the report on the subsequent date; date of successful defense of the dissertation work will be mentioned in the grade card.
- iii. An MTech student will be allowed to submit the dissertation regarding the project work, only if he has appeared in all the theory papers of the programme. The result of the dissertation shall be declared after the candidate has passed all the theory papers and the seminars etc.
- iv. In case the dissertation is rejected or the candidate is unable to complete the dissertation by the end of the 4th semester, he/she will be allowed to submit the same within three years from the date of admission in case of full-time candidates. Further extension beyond three years for full-time programme and beyond five years for part-time programme, but not exceeding six months, may be allowed by the Chairman, BOAC on the recommendations of the concerned project guide and head of the concerned department.

g. Attendance Requirements

Same as per section (3.4.6)

h. Dissertation Work

- I. Allocation of Dissertation Supervisor: The broad areas in which MTech dissertation work is feasible will be displayed by the concerned HOD on the notice board. The minimum qualification of a faculty member for M. Tech supervisory work shall be Ph. D or MTech with 5 years teaching/research experience. The students will be asked to submit at least three preferences to the HOD. The HOD in consultation with associated faculty members will allocate the candidates to the faculty members. If the type of work is interdisciplinary in nature, a maximum of two dissertation guides may be allowed. The above allocation of M. Tech thesis topics should be completed by the end of the second semester.
- ii. Evaluation of Dissertation: The credit allotment will be based on the following weightages.

First Presentation	20%
Second Presentation (pre submission)	20%
Thesis evaluation by external examiner	30%
Viva voce Examination	30%

First and second presentation shall be made towards the end of third and fourth semesters respectively. During first and second presentation, the candidate will be jointly evaluated by HOD/nominee and the candidate's dissertation guide. The thesis examination shall be conducted in open public defense. If a candidate is found unsuitable, he/she can appear again in the next semester provided the final submission is within three years.

- **III.** Panel of examiners for viva –voce examination:
 - 1. Internal Examiner dissertation guide
 - 2. External Examiner- To be appointed by the Chairman, BOAC from a panel of five examiners submitted by the dissertation guide through the Head of the Department to the Chairman, BOAC.
 - 3. Head of the concerned Department.
- IV. The candidate shall prepare his/ her dissertation under the supervision of the concerned faculty at the Institute. If however, the HOD is convinced that facilities for carrying out the work exists elsewhere (recognized by NIT, Jalandhar) the candidate may be deputed by Chairman, BOAC to some other Institute / Organization on the basis of recommendation of the concerned guide and Head of the Department.
- V. In case the dissertation supervisor leaves the Institute and joins some other Institute or some R & D organization, he /she may continue to guide the research work of the candidate registered with him/her provided he/she has guided the candidate for a minimum period of 6 months. Further in case of any dispute between the candidate and guide, the case will be referred to Chairman, BOAC for necessary action.
- Vi. The dissertation shall present an orderly and critical exposition of the existing knowledge of the subject or shall embody results of original investigation and shall demonstrate the capability of the candidate to do independent research work.
- VII. Thesis write up: The dissertation should be written in English in specific format. It should include the following;
 - a) Abstract
 - b) Introduction and objectives
 - c) Literature Review
 - d) Experimental/Theoretical work

- e) Results and discussions
- f) Conclusions

g) References Further following guideline should be followed:

The dissertation should be typed 1.5 spaced, on both sides of the paper of approximately 200x250 mm A4 size, leaving 40 mm margin on the left-hand. Six copies of the dissertation, with all photographs and illustrations are to be submitted.

- Heading of sub-divisions of the text should be in lower case capitals, left aligned and bold. Sub heading should be in lower case capitals and placed immediately next to the margin and the text should start from the next line. Further. Subsheading should be lower case capitalized first letter only placed next to the margin with colon. The matter would be in continuation of sub –heading.
- All symbols should be defined wherever they first appear and conform to the internationally accepted symbols.
- Tables should also be typed on paper size 200x250 mm. These should be numbered serially with the work Table towards the left margin followed by title of the table. Figure captions should be provided at the bottom of the figure.
- References cited in the text should be indicated by the author's name and the year of publication in parenthesis. They should not be numbered and should be typed at the end of the paper in the inverted commas. References should be given in the following format.

a)Kawabata S (1996) "Micro- measurement of the mechanical Properties of Single Fibre" in "Modern Textile Characterization Methods", E.d., Mastura Dekker, Inc., pp.311-328.

b) Terzaghi K (1943), "Theoretical Soil Mechanics", John Wiley and Sons, Inc., New York, 210.

- c) Terzaghi K (1943), "Critical Height and Factor of Safety of Slopes against Sliding", Proc. Ist Int. Conf. Mech. and Foundation Engineering Vol.1, pp.156-161.
- d)Terzaghi K and Lacroix Y (1964)," Mission Dam: An Earth and Rock-fill Dam on Highly Compressible Foundation", Geotechnique, Vol.No.1, pp.13-50.

i. Leave Rules for Full Time Students

- i. All M.Tech. students would apply to the concerned HOD for leave stating the reasons whenever they are not in a position to attend the classes/ work related to dissertation. They will not be allowed to avail an unauthorized leave even if they have fully utilized the permissible leave.
- ii. All MTech students are eligible for leave of 30 days in a year (15 days per semester). The intervening holidays will be treated as a part of leave with provision of prefixing and suffixing holidays. In no way the leave rules would affect the attendance required for M. Tech students.
- III. All MTech students shall be eligible to leave station for visiting other places preferably after completion of their course work or during vacations when there is no teaching work scheduled, If recommended by Supervisor (s) and HOD, and approved by Dean Academics well in advance for various purposes, e.g. Library consultation /short term courses/symposiums etc., getting samples tested from other laboratories, using the lab facilities elsewhere if the same is not available at NIT Jalandhar, Interaction with the External Supervisor (s) and etcetera. For these purposes, he/she shall be permitted for 30 days per year.

j. Discipline

- i. Every M.Tech. student is required to observe proper discipline and decorous behavior both inside and outside the campus. He/she should not indulge in any activity, which will tend to lower the prestige of the institute.
- **ii**. Any act of indiscipline on the part of M.Tech. student will be put up before the discipline committee constituted by the Senate from time to time. The Committee will investigate the charges. If the charges are substantiated, it will recommend suitable punishment for the same to the Director. The decision of the Director will be final in this regard.

k. Project / Industry or R&D work

In case the sponsored candidates from industry (having R&D facilities) and R&D organizations (like national research laboratories etc.), the students may be allowed to carry out their dissertation work in such organization during the final semester subject to the following condition:
 "A committee constituted by the Chairman, BOAC on the recommendations of the Head of the Department shall examine

"A committee constituted by the Chairman, BOAC on the recommendations of the Head of the Department shall examine all such requests and will give the approval."

ii. The students who are allowed to do the dissertation in the industry/R&D organization will have to pay tuition fee along with other charges to the institute for 4th semester also.

I. Award of M.Tech. Degree

An M.Tech. student will be eligible for the award of M.Tech. degree.

- i. If he/she successfully completes all the core courses, elective courses, dissertation work and any other requirement of the curriculum as required by the institute Senate.
- ii. If he/she has earned the required credits as applicable to the respective batch and approved by the Institute's Senate.
- iii. If he/she has obtained a minimum CGPA of 6.0.
- iv. If he/she paid all the institute dues including hostel dues, library dues, etc.
- v. No disciplinary action is pending against him/her.

The award of M.Tech. degree will be approved by the Board of Governors of the institute on the recommendations of the institute Senate.

4.3 Modification in the scheme of MTech Programme

It was decided to keep all the courses in first two semesters and in the next 3rd and 4th semester dissertation work will be held. The provision of seminar is kept in 3rd semester. The students may be allowed to complete dissertation work either in the Institute or in any CSIR/ Industrial R&D organization/ any other reputed Institute. The students will attach his/her monthly progress report through their respective another supervisor allotted in CSIR/ Industrial R&D organization/ any other reputed Institute. The students will attach his/her monthly progress report through their respective another supervisor allotted in CSIR/ Industrial R&D organization/ any other reputed Institute for claiming teaching assistantship from the Institute. Further it was also decided that provision may be kept in MTech programmes regarding conversion of Full time to Part time after first year (after satisfactory clearing of all theory courses). Under such circumstances, the duration of dissertation work will be extended from existing 1 year to 1 ½ years.

5. Admission to M.Tech. (Part-time)

No admission to M.Tech. (Part time) for this year.

6. Admission to MSc programme

From the year 2015-16 admission to M.Sc. (Full Time) programmes is based upon IIT-JAM score and candidates are admitted centrally by CCMN as per directions of MHRD.

Admission and Registration

- 1. Every student will enroll and register for the courses he/she intends to undergo during the first semester of M.Sc. programme on a pre-specified date notified for the purpose.
- 2. In case of subsequent semesters, the registration for the courses will be done on a specified date/period before the end semester examination of the previous semester. In this connection, there may be proper registration card, which will contain details of core and elective courses, seminars and project work to be taken during the semester along with the number of credits for each course/seminar/project work.
- 3. During the 3rd and 4th semester, students will normally be registered for the project work in addition to theory and laboratory courses.
- 4. Late registration will be allowed with a late fee of Rs. 500/- up to one week beyond the last date specified for the registration. However, under special circumstances, the period may be relaxed by the Dean (Academics).
- 5. A student will become eligible for enrollment only if, in addition to satisfying all the academic requirements, he/she has cleared all dues to the institute (including hostel, library etc.) up to the end of the previous semesters and he/she has not been debarred from enrollment by the Institute Discipline Committee.
- 6. A student may be allowed by Chairman, BOAC to withdraw from a semester completely under extra-ordinary circumstances (e.g. medical grounds). However, withdrawal from a semester will be allowed for a maximum continuous period of two semesters only.

6.1 M.Sc. Degree Requirements:

An M.Sc. student will be eligible for the award of M.Sc. degree:

"If he/she has successfully completed all the core/elective courses, Project work and any other requirement of the curriculum as required by the Institute Senate."

- i. If he/she has earned the required credits as applicable for the respective batches as approved by the Institute Senate.
- ii. If he/she has obtained a minimum CGPA of 6.0.
- iii. If he/she has paid all the institute dues including hostel dues, library dues etc.
- iv. No disciplinary action is pending against him/her.
- v. Normal duration for the completion of M.Sc. degree shall be four semesters (i.e. 2 years).
- vi. If a student does not complete the project work up to the end of 4th semester and is permitted to submit the report on some later date; the date of successful completion of the project work will be mentioned in the grade card.

6.2 Regulations of M.Sc. Programme:

a. Eligibility Criteria for Admission

- i. Candidates who have been awarded Bachelor's Degree from a recognized university in appropriate branch of Sciences with a first class or minimum 60% marks (CGPA 6.5) or equivalent are eligible to apply for admission to M.Sc. programme of the institute. For admission to M.Sc. programme in discipline of Physics, candidates must have taken Mathematics as one of the subjects at Bachelor's level.
- ii. The Foreign National candidates who apply through Ministry of Human Resource Developments, Govt. of India, or Indian Council of Cultural Relation, Govt. of India, are eligible to apply provided they possess the same minimum qualifications as given above.

b. Admission procedure

i. The Board of Governors of the Institute, on the recommendations of the Institute Senate will decide the number of seats for various Departments/Centres/Specializations. The reservation of seats for SC/ST candidates will be as per the Govt. of norms.

- ii. The BOAC will recommend to the Chairman, Senate regarding the operational aspects of programmes including selection of candidates, the academic calendar and other regular activities regarding the conduct of the programme. If some seats are left vacant after admission through CCMN, the decision to fill the same (along with spot admission procedure) will be taken by the Chairman, Senate in consultation with Dean (Academics).
- iii. Regarding all matters concerning selection of candidates, the decision of the Chairman, Senate or his nominee, viz. Chairman, BOAC will be final.
- iv. The selected candidates must satisfy eligibility requirements at the time of admission. If at any subsequent time, it is found that the candidates do not fulfill any of the stipulated requirements, the Chairman, BOAC may revoke his/her admission to the programme with the approval of the Director.

c. Programme Structure

- i. Each stream of M.Sc. programme will have the following components:
 - Core Courses (theory), practical and seminar/independent study
 - Elective Courses
 - Project work

In addition, the M.Sc. students may be required to give one or more Seminar(s) as per the requirements of the programme.

- ii. M.Sc. programme will be completed in four semesters. During each M.Sc. semester, the students will register for course work and/or project work as specified by the institute senate for each programme. The minimum requirement of credits for successful completion of any M.Sc. Programme is 90.
- iii. Each M.Sc. student will be required to register for all the core courses specified in the curriculum of his programme of studies.
- iv. Each M.Sc. student will have to register for elective courses offered by the department in that particular semester from the list of courses approved by the institute senate. However, a student may be permitted to select an elective subject other than these provided the intended course bears relevance to his/her area of specialization.
- v. Candidates will have to successfully complete all the core courses (including laboratory courses), elective courses, and project work as per the teaching scheme.
- vi. The credits to each course are assigned on the following basis:
 - One credit for each lecture period.
 - One credit for each tutorial period.
 - One credit for each laboratory session of two7three hours.
 - Credits for seminars and project will be as per the curriculum approved by the institute senate.

d. Faculty Advisor

To render general advice to the students in connection with the academic programme and to help them in planning the courses of study, the respective department/Centre will assign a group of students to a faculty member, to be called the faculty advisor, of the department/Centre.

e. Maximum Duration of the Programme

- i. Minimum duration of M.Sc. programme for regular candidates shall be four semesters.
- ii. For the students who do not complete their project work upto the end of 4th semester and are permitted to submit the report on some subsequent date; the date of successful completion of the project work and the date of viva-voce examination will be mentioned in the grade card.
- iii. An M.Sc. student will be allowed to submit the project report regarding the project work, only if he/she has appeared in the theory papers upto the 4th semester. The result of the project work shall be declared only after the candidate has passed all the theory papers and the seminars.
- iv. In case the project is rejected or the candidate is unable to complete the project by the end of the 4th semester, he/she will be allowed to submit the same within three years from the date of admission.

f. Minimum Requirement to continue the programme

"An M.Sc. student will have to earn at least the 50% of the prescribed credits with CGPA not less than 5.0 at the end of 2nd semester. In case the student does not satisfy these requirements, he/she will have to leave the programme."

g. Attendance Criteria Requirement

Same as per section (3.4.6)

h. Project Work

- I. Allocation of Project: The broad areas in which M.Sc. project work is feasible will be displayed by the concerned HOD on the notice board. The students will be asked to submit at least three preferences to the HOD. The HOD will allocate the candidates to the faculty members. If the type of work is interdisciplinary in nature, a maximum of two project guides may be allowed. The allocation of M.Sc. project work should be completed by the end of the third semester.
- II. Evaluation of Project: The evaluation of the project work will be done by an Evaluation Committee:
 - i. Concerned HOD
 - ii. Project Guide(s)
 - iii. External Examiner(s)

The External Examiner(s) shall be nominated by the Director for which the concerned HOD shall forward a panel of experts to Dean, Research and Industrial Liaison. Each candidate will have to submit the project report and make a presentation before the evaluation committee. The External Examiner shall be paid TA/DA and honorarium as per institute norms.

i. Project Report and write up

Same as per section (4.2.h)

7. Admission to MBA (Full Time) programmes:

The admissions are open for Indian nationals only. The candidates with Bachelor's degree in any discipline from a recognized university with 60% marks or 6.5 CGPA on 10-point scale or equivalent are eligible to apply for the MBA programme. The candidates appearing in the final year/semester of the qualifying Bachelor's degree may also apply subject to the condition that they would submit document of fulfillment of their eligibility at the time of counseling [if candidate's result is awaited as on the date of counseling, he/she has to submit affidavit as per the format given in important instructions VII (8)]; failing which their candidature/admission may be cancelled. The candidate who fails to fulfill eligibility conditions as on the date of counseling will not be considered for admission. Relaxation admissible under policy of Govt. of India in minimum percentage (55%) / grade point average (6.0) for SC/ST/PH candidates is applicable.

Selection Procedure: Admissions will be made on the basis of CMAT (80% weightage), Group Discussion (10% weightage), and Interview (10% weightage). The candidates will have to submit their best of all scores of CMAT tests admissible for MBA admissions in the recent academic year. The list of shortlisted candidates and schedule for Group Discussion/Interview will be notified only on Institute's website.

7.1 Regulations of MBA:

An MBA student will be eligible for the award of MBA degree:

- i. If he/she has successfully completed all the requirements of the curriculum as required by the Institute Senate.
- ii. If he/she has obtained a minimum CGPA of 6.0.
- iii. If he/she has paid all the institute dues including hostel dues, library dues etc.
- iv. No disciplinary action is pending against him/her.
- v. Normal duration for the completion of MBA degree shall be four semesters (i.e. 2 years).

8. Admission to Ph.D. (Full-time) programme

Admission to Ph.D. (Full-time) programmes will be based upon performance of the candidates in the written test to be conducted by the institute and the recommendations of a panel of experts before which the candidate(s) is required to make a presentation on a topic of his/her proposed area of research using power point presentation.

8.1 Regulations of Ph.D. (Regular):

a. Minimum Qualifications for Admission

Ph.D. for Indian Nationals:

All candidates seeking admission to Ph.D. programme shall have to possess requisite marks/grades in qualifying examination as shown below:

- (i) 60% marks (or CGPA of 6.5 on 10-point scale) in the qualifying examination in
 - Engineering/Sciences/Commerce/Management

Or

(ii) 55% in Humanities or Social Sciences (or CGPA of 6.0 on 10-point scale)

*Relaxation in minimum Percentage/Equivalent Grade Point requirements will be given as per the National Reservation Policy of Govt. of India.

Ph.D. for Foreign Nationals

Foreign national candidates, who apply through Ministry of Human Resource Development, Govt. of India, or Indian Council of Cultural Relations, Govt. of India, are eligible to apply provided that they possess the same minimum qualifications as given in (i).

Ph.D. for Candidate/staff working under Sponsored Projects:

Candidate/staff working under the projects sponsored by MHRD/DST/UGC or some other government agency and coordinated by the institute faculty as Principal investigator/Coordinator shall be eligible for admission to Ph.D. programme. However, the candidate/staff should have the same academic qualifications as given in (i).

b. Admission Process

Applications on prescribed format for admission to Ph.D. programme will be invited twice-a-year through advertisement in the national dailies, media and on institute's website. The advertisement shall include the predetermined seats. A candidate who desires to apply in more than one department/category shall be required to apply on separate application form along with appropriate fee. The candidate shall be required to submit a write-up (1-2 pages) of his/her proposed area of research along with the application.

i. Screening Committee:

A Screening Committee will comprise of the Head of Department and three faculty members (co-opted by HOD from the department) holding PhD degree. The committee shall screen all applications for admission to Ph.D. programme. The committee is expected to verify the eligibility of the applicant(s) for the Entrance Test/Interview based upon his/her details mentioned in the application(s) and the documents enclosed. After screening of all applications, the Head of Department shall forward the list of the eligible candidates to Associate Dean Academics (PG)/Dean (Academics) shall consolidate the list of all the departments and notify through appropriate means.

ii. Entrance Test

All the candidates to Ph.D. Programme (Full Time) shall be admitted through an Entrance Test followed by an interview to be organized by respective department as the case may be. The Entrance Test will be of MCQ Mode. The syllabus for the same will be notified on the Institute website. At the time of interview, candidates are expected to discuss their research interest/area of interest.

iii. Interview

Candidates, who secure minimum 40% marks in the Entrance Test shall be called for interview. The preference shall be given to the UGC/CSIR/NET/GATE qualified candidates.

iv. Interview Committee

The eligible candidates who have qualified Entrance Test shall have to appear before an Interview Committee for an interview. The Interview Committee shall comprise of the following:

- 1. Director / Nominee
- 2. Dean (Academics) / Nominee
- 3. All faculty members of the concerned department (with Ph.D. qualification)

Keeping in view the available seats, the Interview Committee shall recommend the names of candidates found suitable for admission to Ph.D. Programme for the approval of Chairman, Senate. The Associate Dean Academics (PG)/Dean (Academics) shall notify the list of selected candidates through appropriate means.

c. Research Guidance

I. PhD Supervisor

A regular faculty member of the institute with Ph.D. qualification can act as a research supervisor. However, in case of demise/any other casualty, the "Research Scholar (RS)" registered under a supervisor(s) shall be transferred to another suitable supervisor(s) in the department subject to the approval of RAC. However, it shall be the responsibility of the Head of the Department to bring the matter for the information of Chairman, RAC, to decide the future course of action for the candidate (s) registered with the Supervisor. In addition, if a supervisor(s) gets transferred/reemployed/avails deputation/lien in other department/ workplace/Centre with in NIT, Jalandhar or retirement/resignation/ long leave of a supervisor(s) from the institute (more than 06 months)/lien/ deputation to join other institute then he/she shall continue to supervise the RS in the department where RS is initially registered. In case the Supervisor is likely to be superannuated within five (5) years from the date of registration of a Research Scholar, he/she shall be allowed to act as supervisor if there is one more regular faculty member from the same department to act as other supervisor.

II. Other Supervisor

Depending upon the nature of the research problem, other supervisor(s) may be allowed in addition to the supervisor from the department where the RS is registered. In such case, maximum two other supervisors may be approved by RAC, out of which, one from the same/other department from NIT, Jalandhar, and second (in-service or retired) from an organization other than NIT, Jalandhar, preferably a centrally funded institution/ university/Research laboratory of Government of India/Public Sector undertakings/state funded University /institution. The consent (on the official letterhead) of the proposed supervisor(s) shall be forwarded to Dean (Academic) for consideration in the RAC. The RAC may recommend the other supervisors. The request for appointment of other supervisor(s) may be entertained within 18 months of the registration of the RS.

III. Change of Supervisor

The request for change of supervisor(s) may be entertained within 18 months of the registration. Permission may be granted to a RS for the change of Research supervisor(s) by the RAC under exceptional circumstances. However, in such cases, the consent of both, i.e. approved Research supervisor and proposed (new) Research supervisor shall be essential.

IV. Number of Research Scholar/s

The number of RS with a 'supervisor' and/or 'other supervisor' shall not exceed eight at a time. Further, a faculty member can act as co-supervisor for research scholars registered with any other Institute/University after getting approval from the competent authority, provided the institute work does not suffer due to the same.

d. Admission procedure

Candidates, whose selection is recommended by the Interview Committee and approved by Chairman Senate, shall be offered admission and advised to deposit prescribed fee. After depositing the fee, he/she shall be designated as "Research Scholar (RS)". For all purposes, the date of registration of a RS shall be the date on which he/she has deposited fee in the institute. After registration, Research Advisory Committees (RACs) for the individual RS shall be constituted by Dean (Academic) in

consultation with the concerned HOD and Supervisor(s) as per Clause 10. After the constitution of the RACs, the first meeting shall be held within a month to approve the supervisor(s), broad area of Research and the courses of study for individual RS.

e. Registration

- The RS is required to follow the instructions given below for registration:
- i. He/she is required to register himself/herself (in person) on the scheduled dates of registration (only). There shall not be any provision of deputing any representative by him/her for registration purposes. Further, he/she shall be required to register in subsequent semesters till the submission of PhD thesis.
- ii. He/she shall deposit the requisite fee at the time of registration in every semester.
- iii. He/she is required to fill the registration form and deposit it with the department through his/her supervisor(s).
- iv. He/she shall be allowed to register for the subsequent semester(s) if his/her progress report by his/her supervisor(s)/HOD during the previous semester(s) is found satisfactory.
- v. The act of not-depositing the fee or not-completing the registration process as mentioned above on the scheduled dates shall be treated as the "voluntary discontinuation" of studies by the RS. In such case, he/she will cease to be a bonafide student with immediate effect.
- vi. The instructions as above for registration shall be applicable for all full-time and part-time Research Scholars.
- vii. The fine for the late registration is Rs. 500/- and also decided that the attendance requirement of 75% will be counted from the date of start of the class.
- viii. The candidate is required to follow the registration rules till he/she submits his/her Ph.D. thesis.

f. Duration of Ph.D. Programme

The minimum period of residential requirement for study and research at the institute from the date of registration to the date of submission of thesis shall be 36 months. A candidate is normally expected to submit his/her thesis within five years from the date of registration. This period may be extended by the Senate as a special case to a maximum of seven years from the date of registration after which the registration shall stand cancelled.

g. Course Work

i. Minimum Credit and CGPA requirements:

Every Internal/External Research Scholar (Full Time/Part Time) admitted under Ph D Programme is required to pass the theory courses approved by the RAC (for minimum 12 credits) securing CGPA=6.0 (minimum). The grading system similar to post-graduate programmes shall also be applicable to Ph D Programme.

ii. Courses:

The course work must include one course of Research Methodology and rest of the courses may be taken as per the recommendations of RAC. Courses completed after the date of registration shall count towards the requirement for the award of Ph.D. degree.

iii. Attendance criteria requirements:

Same as per section (3.4.6)

The institute desires 100% attendance in the theory courses with a provision for consideration for absence due to unavoidable circumstances. The attendance requirements of 75% of the scheduled classes in a course are needed for appearing in the theory examination.

The course coordinator will consolidate the attendance record for the course from the beginning of the semester up to class test-I and class test-II and also up 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 HOD.

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 day, will be indicated in a code number/ letter as follows:

Attendance rounded to	Code No/letter	
95% and above	Н	
85% to 94%	9	
75% to 84%	8	
Below 75%	L	

The RS who have attendance code letter L will not be allowed to sit for end semester examination in the course in which the short fall exists.

h. Leave Rules for Regular Candidates

- (i) The RS is required apply to the concerned HOD for leave stating the reasons whenever they are not in a position to attend classes/perform thesis work.
- (ii) All RS are eligible for leave of 30 days in a year @ 15 days per semester. The intervening holidays will be treated as part of leave with provision of suffixing and prefixing holidays. In no way, the leave rules would affect the attendance requirements for the RS.
- (iii) All RS shall be allowed to leave station for visiting other places preferably after completion of their course work or during vacations when there is no teaching work scheduled, if recommended by Supervisor(s) and HOD, and approved by Dean Academic well in advance for various purposes like library consultation, meeting experts, presentation of research papers/participation in the conferences/short term courses/symposiums etc., getting samples tested from other laboratories, using the lab facilities elsewhere if the same is not available at NIT Jalandhar, interaction with the External

Supervisor, and any other similar purpose as recommended by his/her Supervisor(s) and HOD. For these purposes, he/she shall be permitted for 60 days per year.

(iv) Maternity Leave:

The woman RS will be eligible for Maternity Leave with Assistantship as per Govt. of India notification released from time to time.

i. Discipline

- (i) The RS is required to observe proper discipline and decorous behavior both inside and outside the campus. He/ She should not indulge in any activity, which will tend to lower the prestige of the institute.
- (ii) Any act of indiscipline on the part of RS, which is reported to Dean (Academic), will be referred to the Discipline Committee of the Senate from time to time. The Committee will investigate the charges. If the charges are substantiated, it will recommend suitable punishment for the same to the Director. The decision of the Director will be final in this regard.

j. Research Advisory Committee (RAC)

The RAC shall be constituted within one month of the registration of the research scholar. The head of the department shall prepare the case and will submit the same in the office of Dean Academic. The Research Advisory Committee meeting, comprehensive examination, pre-submission seminar and final viva-voce examination is to be conducted in Open House of all PhD scholars irrespective of their year of registration. Further the attendance record during all such above mentioned examination should be maintained. It was also approved that at least two research papers in the area of PhD research should be published in the refereed International Journals without paying any fee for publication.

k. Provision to conduct Meeting of Research Advisory Committee in Open House

It was decided to conduct the Research Advisory Committee meeting, comprehensive examination, pre-submission seminar and final viva-voce examination in Open House of all PhD scholars irrespective of their year of registration. Further the attendance record during all such above mentioned examination should be maintained. It was also approved that at least two research papers in the area of PhD research should be published in the refereed International Journals without paying any fee for publication.

I. Provision of PhD Degree supervision under MoU with Ecole Central de Lille, France

The members deliberated on the issue and approved the provision of PhD degree supervision under MoU with Ecole Central de Lille, France as per provision mentioned below: -

- 1. Joint PhD Degree supervision:
 - The scholar may join at NIT Jalandhar or EC Lille.
- A. For research scholars admitted at NITJ:
- i. The scholar will have to successfully complete requisite course work a NIT Jalandhar.

ii. The comprehensive, synopsis and open house defense of thesis may be arranged at NIT Jalandhar or EC Lille or through Video Conferencing in mutual consultation with concerned supervisors.

- B. For research scholars admitted at Ecole Central de Lille:
- i. The scholar will have to successfully complete requisite credit requirements at EC Lille.
- ii. The comprehensive, synopsis and open house defense of thesis may be arranged at NIT Jalandhar or EC Lille or through Video Conferencing in mutual consultation with concerned supervisors.
- 2. Joint MTech Thesis supervision:
- For the MTech scholar at NIT Jalandhar, two options may be considered.
- A. Six months' project work at Ecole Central de Lille:

i. The scholar will have to complete course work during the first three semesters at NIT Jalandhar successfully. The project work will be done in the fourth semester at Ecole Central de Lille.

ii. The evaluation will be done at NIT Jalandhar. Video Conferencing may be arranged in mutual consultation with concerned supervisors.

B. One-year project work at Ecole Central de Lille:

i. The scholar will have to complete course work during the first two semesters at NIT Jalandhar successfully. Third and fourth semesters will have to be done at Ecole Central de Lille. Credit requirements for the third and fourth semesters, including the project work, will have to be completed at Ecole Central de Lille.

ii. The project work will be done in the third and fourth semesters at Ecole Central de Lille.

iii. The evaluation will be done at NIT Jalandhar. Video Conferencing may be arranged in mutual consultation with concerned supervisors

8.2 PhD (part time)

Regulations for PhD (part time)

PhD for internal Candidates

Faculty/ Technical / Scientific staff of NITJ preferably having two years' experience and possessing the same academic qualifications as that for PhD regular candidates and are eligible for PhD programmes (as a part time candidates)

PhD for external Candidates

External candidates specified by industry/ institute having R&D facility recognized by NITJ preferably with two years' experience and having same academic qualification as that for PhD regular candidates are eligible to apply for PhD Programme (as a part time candidate). In service candidates must have to submit No Objection Certificate of their employer.

PhD for candidate/ Staff working under sponsored projects:

Candidate/ staff working under the projects sponsored by MHRD/DST/UGC or some other government agency and coordinated by the institute faculty as Principal investigator/ Coordinator shall be eligible for admission to PhD programme. However, the candidate/ staff should have the same academic qualification as given in 8.1

Duration of programme

A RS under external / part time/ faculty/ staff scheme is allowed to submit his/ her thesis within 03 to 4 and a half year from the date of registration, after which he/ she shall have to request for extension for submission of thesis. The Research Advisory Committee may extend the period of submission of thesis by another 2 and a half years. Thus, maximum duration for submission of thesis is limited to 07 years. However, the student is permitted to submit the thesis only after completion of minimum three years from the date of registration for the program.

Stipend cum teaching assistantship/ Scholarship and contingency grant

No Stipend cum teaching assistantship/ scholarship and contingency grant shall be given to the candidates admitted as under part time PhD programmes. However, stipend cum teaching assistantship/scholarship and contingency grant to the candidate working under the sponsored projects coordinated by the faculty of the institute shall be given as per the terms and conditions of the projects.

Other Conditions

Rest other rules regulations will be same as that of regular PhD programme.

8.3 Provision of Makeup examination for UG/PG Programmes

The existing provision of two summer course, on winter and makeup examination for UG program is extended to PG students also on rolls irrespective of their year of admission.

8.4 Revision of contingency grant of project to the BTech /PG/PhD Students

Course	Amount
PhD Students	Rs.30,000-00
PG Students	Rs.15,000-00
BTech Students	Rs.5,000-00

8.5 Provisions of Seminar grant for attending International/National Conference to UG/PG student

It has been decided that UG/PG students may also be provided seed money as per details mentioned below to support partially their registration and travel expenses.

International Conference	B.Tech/PG	Rs.10,000-00
	PhD	Rs.25,000-00
National Conferences	B.Tech/PG	100% reimbursement may be allowed to
	PhD	UG/PG students

8.6 Summer/Winter Contact courses to B Tech / PG students

Only two summer contact courses will be allowed to the students for clearing their backlogs during summer course. No winter course will be allowed to the students (as per Senate decision in its 20th meeting).

8.7 Improvement in CGPA

If a BTech/MTech student wants to improve upon the CGPA, to be eligible for the award of degree, he should be given a time of maximum one year to improve his/her CGPA after completion of all course work with the following conditions: -

- i. The improvement shall be allowed for only in those Theory courses in which the students had earlier secured minimum grades (with appropriate fees).
- ii. If the CGPA of the student after improvement exceeds the minimum CGPA requirement for the award of degree i.e. 5.0 and 6.0 for Under Graduates and Post Graduates respectively, it will be restricted to 5.0 and 6.0 only.

8.8 Fee Refund

Institute shall refund the entire fee after deduction of one thousand rupees to those candidates who surrender/ withdraw their seat before the date of closing of the admission every year and seats vacated by them are filled through waiting listed candidates'/ spot admissions. However only caution money shall be refunded to candidates who surrender / withdraw their admission after closing date of admission and the seats vacated by these candidates are remaining vacant thereafter. The above rule is applicable to those candidates only who are physically admitted to the institute and are on the rolls of the institute. However, those candidates who have been just allotted seat and are not physically admitted. The

rules of admitting agency (like CCMT, CSAM etc.) will be applicable and same agency will be responsible for refund of fee.

8.9 Seat Matrix for UG Programmes BTech

			State/					22		ст	OB	OB	Total(inclu	Prog	ram-Total
Code	Progr am Code	Academic Program Name	All India Seats	Seat Pool	OP EN	OPE N- PwD	S C	- Pw D	S T	- Pw D	C- NC L	NC L- Pw D	des Female Supernum erary)	Seat Capa city	Female Supernum erary
				Gender- Neutral	6	1	1	0	1	0	4	0	13	18	0
		D '-											5		
		BIO Technolog y (4 Years, Bachelor of Technolog	PUNJ	Female- only (including Supernum									(including "0" Supernum erary)		
201	4104	y)	AB	erary)	3	0	1	0	0	0	1	0			
				Gender- Neutral	6	0	2	0	2	0	3	1	14	18	0
		Pie											4		
		Technolog y (4 Years, Bachelor of Technolog	Other Than PUNJ	Female- only (including Supernum									(including "0" Supernum erary)		
201	4104	y)	AB	erary)	2	0	1	0	0	0	1	0			
				Gender- Neutral	17	1	5	0	2	0	9	0	34	42	0
		Chemical Engineerin g (4 Years, Bachelor of Technolog	PUNJ	Female- only (including Supernum									8 (including "0" Supernum erary)		
201	4107	y)	AB	erary)	3	1	1	0	1	0	2	0			
				Gender- Neutral	16	1	4	1	3	0	9	0	34	42	0
201	4107	Chemical Engineerin g (4 Years, Bachelor of Technolog y)	Other Than PUNJ AB	Female- only (including Supernum erary)	4	0	1	0	0	0	2	1	8 "0" Supernum erary)		
		Civil Engineerin		Gender-	20	•	F			•	10	•	40	45	
201	4109	g (4 Years, Bachelor	PUNJ AB	Female-	<u>20</u> 3	1	э 1	0	4	0	1	1	40 7	40	2

		of Technolog y)		only (including Supernum erary)									(including "2" Supernum erary)		
				Gender- Neutral	20	1	6	0	2	1	9	1	40	45	2
		Civil											7		
201	4109	Engineerin g (4 Years, Bachelor of Technolog	Other Than PUNJ AB	Female- only (including Supernum erary)	3	0	1	0	0	0	3	0	(including "2" Supernum erary)		
20.		3/	7.2	Gender-			-			-					
		Computer Science		Neutral	19	1	5	1	3	0	10	1	40	45	2
201	4110	and Engineerin g (4 Years, Bachelor of Technolog V)	PUNJ AB	Female- only (including Supernum erary)	3	0	1	0	1	0	2	0	7 (including "2" Supernum erary)		
				Gender-								-			
		Computer Science		Neutral	20	1	6	0	1	1	11	0	40	45	2
201	4110	and Engineerin g (4 Years, Bachelor of Technolog v)	Other Than PUNJ AB	Female- only (including Supernum erary)	3	0	1	0	2	0	1	0	(including "2" Supernum erary)		
				Gender-	5	1	2	0	1	0	3	0	12	15	0
				Neutral	5	•	-	Ū		Ŭ	,	Ŭ	3	10	0
201	4111	Electrical Engineerin g (4 Years, Bachelor of Technolog y)	PUNJ AB	Female- only (including Supernum erary)	1	0	1	0	0	0	1	0	(including "0" Supernum erary)		
				Gender-	6	0	•	•	4	•		0	40	45	0
					0	0	2	U		0	4	U	2	15	0
		Electrical Engineerin g (4 Years, Bachelor of Technolog	Other Than PUNJ	Female- only (including Supernum									- (including "0" Supernum erary)		
201	4111	y)	AB	erary)	2	0	0	0	0	0	0	0			
		Electronic s and		Neutral	18	1	6	0	3	0	10	0	38	45	0
		Communic ation											7		
201	1114	Engineerin g (4 Years, Bachelor of Technolog	PUNJ	Female- only (including Supernum erary)		0	1	0	0	0	2	0	(including "0" Supernum erary)		
2V I	4114	y)		ciary)	4	v		U U	U U	v	4	U			

		Floctronic		Gender-			1		1						
		s and		Neutral	18	1	5	1	2	0	9	1	37	45	0
		ation											8		
		Engineerin g (4 Years,		Female-									(including "0"		
		Bachelor of	Other Than	only (including									Supernum erary)		
201	4114	Technolog v)	PUNJ AB	Supernum erarv)	4	0	1	0	1	0	2	0	oraryy		
				Gender-											
		Mechanica		Neutral	21	1	6	1	4	0	11	0	44	45	6
		 Engineerin											1		
		g (4 Years,		Female-									(including "6"		
		of		(including									Supernum erary)		
201	4125	Technolog y)	PUNJ AB	Supernum erary)	3	0	1	0	0	0	3	0			
				Gender-	21	1	6	0		0	11	1	44	45	7
		Mechanica		incutial	~ 1		0		4				8	40	
		l Engineerin											(including		
		g (4 Years, Bachelor	Other	Female- only									"7" Supernum		
		of Technolog	Than PUNJ	(including Supernum									erary)		
201	4125	y)	AB	erary)	4	0	1	0	1	0	2	0			
				Gender- Neutral	15	1	5	0	1	1	9	1	33	39	0
		Toxtilo											6		
		Technolog		Famala									(including		
		y (4 fears, Bachelor		only									"0" Supernum		
		of Technolog	PUNJ	(including Supernum									erary)		
201	4139	у)	AB	erary) Gender-	3	0	1	0	1	0	1	0			
				Neutral	16	1	5	0	2	0	9	0	33	39	0
		Textile											6		
		Technolog y (4 Years,		Female-									(including		
		Bachelor	Other Than	only (including									Supernum		
201	4139	Technolog	PUNJ	Supernum erary)	3	0	1	0	1	0	1	0	erary)		
		31		Gender-											
		Informatio		Neutral	5	0	2	0	1	0	3	1	12	15	0
		n											3		
		y (4 Years,		Female-									(including "0"		
		Bachelor		only (including									Supernum erary)		
201	4146	Technolog y)	PUNJ AB	Supernum erary)	2	0	0	0	0	0	1	0			
		Informatio n	Other Than	Gender-	6	4	4	•	4	0		_	10	4 6	
201	4146	Technolog	PUNJ AB	Female-	0	0	0	1	0	0	4	0	2	10	0
·		,	· · · · · · · · · · · · · · · · · · ·		•	· · · ·				. <u> </u>	. <u> </u>	. <u> </u>			

		Bachelor of Technolog y)		only (including Supernum erary)									(including "0" Supernum erary)		
		Instrument ation and		Gender- Neutral	17	0	6	0	2	0	9	0	34	42	0
		Control Engineerin g (4 Years, Bachelor of Technolog	PUNJ	Female- only (including Supernum									o (including "0" Supernum erary)		
201	4148	y)	AB	erary)	4	0	1	0	1	0	2	0			
		Instrument		Gender- Neutral	16	1	5	0	2	0	8	1	33	42	0
		ation and						-					9		
		Control Engineerin											(including		
		g (4 Years, Bachelor	Other	Female- only									"0"		
		of	Than	(including									erary)		
201	4148	y)	AB	erary)	3	1	1	0	1	0	3	0			
		Industrial		Gender-	18	1	5	0	2	0	٩	1	36	42	0
		and Productio		Neutral	10		,	v	-	•	,	•	6		Ŭ
		n Engineerin											(including		
		g (4 Years, Bachelor		Female- onlv									"0" Supernum		
		of Technolog	PUN.I	(including									erary)		
201	4149	y)	AB	erary)	3	0	1	0	1	0	1	0			
		Industrial and		Gender- Neutral	17	1	6	0	3	0	9	0	36	42	0
		Productio n					Ŭ	•	Ŭ				6		Ŭ
		Engineerin g (4 Years		Female-											
		Bachelor	Other Than	only									(including		
		Technolog	PUNJ	Supernum		_		_	_		_	_	Supernum		
201	4149	у)	AB	erary)	3	0	1 #	0	0	0	2	0	erary)		
					387	20	#	6	8	3	##	11	807	786	21

8.10 Seat Matrix for CCMT 2015 (M.Tech-Full Time)

S. No.	Department	M Tech programme	Gate subject	Seat Matrix								
			admissib ility	ОР	ОВ	sc	ST	Pers Disa	ons v bilitie	vith s		
					С			OP	OB C	SC	ST	
1	Chemical Engineering	Chemical Engineering	СН	14	7	4	2	0	1	0	0	28

- 22 -

S. No.	Department	M Tech programme	Gate subject						Se	at Mat	rix	Tot al
			admissib ility	OP OB SC ST Persons with Disabilities								
					С			OP	OB C	SC	ST	
2	Industrial and Production Engineering	Manufacturing Technology	PI/ME	14	7	4	2	0	0	1	0	28
3	Instrumentation and Control Engineering	Control & Instrumentation Engineering		13	8	4	2	1	0	0	0	28
4	Civil Engineering	Structural and Construction Engineering	CE	14	8	4	1	0	0	0	1	28
5	Computer Science and Engineering	Computer Science and Engineering	CS/IT	13	8	3	2	1	0	1	0	28
6	Computer Science and Engineering	Information Security	CS/IT	4	2	2	1	1	0	0	0	10
7	Electronics & Communication Engineering	Electronics & Communication Engineering	EC	14	7	4	2	0	1	0	0	28
8	Electronics & Communication Engineering	VLSI Design	EC	4	2	2	1	1	0	0	0	10
9	Mechanical Engineering	Mechanical Engineering	ME	14	7	4	2	1	0	0	0	28
10	Textile Technology	Textile Engineering and Management	TF	13	7	4	2	1	1	0	0	28
				117	63	35	17	6	3	2	1	244

8.11 Seat Matrix for MSc (a) Eligibility

S. No	Programme	Department	Duration (Years)	Eligible B.Sc Degree	JAM PAPER	Special Eligibility Criteria
1	M.Sc in Physics	Physics	2	B. Sc (3 year regular) with Physics as a major subject and with an aggregate of minimum 60% or 6.5 CGPA (OC/OB) and 55% or 6.0 CGPA (SC/ST).	РН	The candidate must have studied Mathematics as compulsory subject in Bachelor's degree
2	M.Sc in Chemistry	Chemistry	2	B. Sc (3 year regular) with Chemistry as a major subject and with an aggregate of minimum 60% or 6.5 CGPA (OC/OB) and 55% or 6.0 CGPA (SC/ST)	CY	NIL
3	M.Sc in Mathematics	Mathematics	2	B. Sc or equivalent degree (3 year regular) with Mathematics as a major subject and with an aggregate of minimum 60% or 6.5 CGPA (OC/OB) and 55% or 6.0 CGPA (SC/ST)	МА	NIL

(a) Seat Matrix

	Number of Seats												
Programme	OC	ОВ	SC	ST	OC-PWD	OB-PWD	SC-PWD	ST-PWD	Total				
M.Sc in Physics	15	08	04	02	01	01	00	00	31				
M.Sc in Chemistry	16	07	04	02	00	01	01	00	31				
M.Sc in Mathematics	14	08	05	03	01	00	00	00	31				

8.12 Seat Matrix for MBA

S.N	Name of Programme	OP	OBC	SC	ST	Total
1	MBA	15	08	05	02	30

8.13 Seat Matrix for PhD

13 0						
S.N	Name of Programme	OP	OBC	SC	ST	Total
1	PhD in various discipline	50	27	15	08	100

9. SEMESTER FEE AND OTHER CHARGES

Tuition Fee for UG, PG and PhD students per semester.

B.Tech (2014 and 2015 batches)	For all categories	Rs.35000/-
	Income between 1 to 5 Lakh (Gen/OBC)	Rs.20840/-
B.Tech (2016 onwards batches)	Income above 5 lakh (Gen/OBC)	Rs.62500/-
M.Tech / MBA	Gen/OBC/PH	Rs.35000/-
M.Sc /PhD	Gen/OBC/PH	Rs. 7500/-

Detail of other institutional charges for all UG, PG and PhD students.

S.No	Particulars	Hostlers	Day Scholars	Day Scholars with bus facility
MAIN ACCO	DUNT	PER	SEMESTER (in	Rs.)
1	Admission / Registration Fee	500	500	500
2	Library Fee	200	200	200
3	Alumni Home Charges	200	200	200
4	Room Rent	1500	-	-
5	Transportation Charges	-	-	1800
EXAMINATI	ON ACCOUNT			
6	Examination fee	500	500	500
HOSTEL FU	ND ACCOUNT			
7	Mess and Utensil fee	100	-	-
8	Hostel Maintenance	2000	-	-
9	Hostel & Mess Estb. Charges	400	-	-
SECURITY	FUND			
10	Institute Caution Money (Refundable)	5000	5000	5000
	One time (at the time of Admission.only)			
ALUMNI AS	SOCIATION ACCOUNT			
11	Alumni Association membership fee	1000	1000	1000
	(one time at the time of admission only.) only)			
STUDENT F				
12	Stationery fee / Project Fee	100	100	100
13	Student Welfare Fee	200	200	200
14	Medical Fee	300	300	300
15	Identity Card Fee	100	100	100
	One time (at the time of Admission. only)			
16	Students Activity Fee	1200	1200	1200
17	International / National Conferences	400	400	400
18	Internet Fee	350	350	350
DEVELOPM	ENT FUND ACCOUNT			
19	Development Fee	3000	3000	3000
FEE ACCOL	JNT			
20	Medical Insurance Fee (Yearly)	500	500	500
	Odd Semester only			
	Total	17550	13550	15350

9.1 Mode of payment

All institute dues could be paid by online banking Account no 65236072258, IFSC Code-STBP0000841, State Bank of Patiala, NIT Branch.

10. Power to Modify

Notwithstanding all that has been stated above, the Senate can modify any of the above regulation from time to time.

11.1 Institute Awards/Medals

- Chairperson's gold medal is awarded to the overall topper of the institute at BTech level.
- A gold medal is awarded to the topper of each branch at BTech, MSc and MTech level.

11.2 Scholarship

Scholarship	Eligibility/Amount
Akash Saxena Memorial Scholarship	Rs. 10000/- with a Certificate to the topper in CSE branch up to six semesters at B. Tech Level
ONGC Scholarship for ME and CH students	Rs. 5000 per month for 3 rd Year Topper students
Top Class Central Sector Scholarship for SC/ST students (GOI Sponsored)	Annual income less than Rs.4.5 Lacs. Top 12 SC students and Top 5 ST students admitted through JEE (Main).
Post matrix Scholarship for SC students of Punjab	The post Matrix scholarship will be awarded by the Pb. Govt. to the SC students whose annual income is less than Rs.2.5 lacs.

12 HOSTELS

There are eight boys' hostels (including one mega hostel) and three girls' hostels. The facilities of reading room, indoor games, etc. are available in each hostel. Internet facility is provided in most of the hostels. Other facilities like LCD/ LED TVs, geysers, water purifiers and water coolers are provided in all the hostels.

Hostel Rules

- i. The hostel facility is available to the regular students who are on the rolls of the institute depending upon the availability. The students who wish to stay with their parents or guardians outside the campus may be allowed to do so with the permission of the competent authority.
- ii. Hostel wardens are appointed for each hostel and they exercise 'general supervision' and 'control' over the inmates.
- iii. In case of any problem related to the hostel, the student should see the concerned Warden/Chief warden/Dean Students and Alumni.
- iv. Any case of illness by the hostler should be reported to the officials of the Institute Dispensary.
- v. No student should keep any fire-arm, lethal weapon, alcohol/drugs, poisonous thing or intoxicant of any kind in the hostel and anyone found guilty of having committed a breach of the rule, shall be liable to be expelled from the hostel, apart from any other punishment that may be given to him/her by the Proctor-cum-Chief Warden/Institute Discipline Committee.
- vi. No students' meeting will be held in the hostel premises without the prior written permission/approval of the concerned hostel Warden/Chief Warden/Dean Students and Alumni.
- vii. The students shall make proper use of common rooms having newspapers, allied literature and other articles required for indoor games. The hostel warden will fix hours of the common room from time to time. The common room Secretary and Joint Secretary will be responsible for the use of the common room. The warden shall nominate the Secretary/Joint secretary in the first instance.
- viii. While visiting the dining hall, the common room and canteen, the students should be in their proper dress.
- ix. All the boarders shall vacate the hostel rooms before they leave for vacation so that annual repairs and white washing etc. may be carried out. All the hostel articles issued to the students should be returned to the Hostel Office before they leave the hostel. They will be responsible for the loss, if any, and which will be recovered from them.
- x. The mess of various hostels operates on cooperative basis. A committee of the students from every hostel manages the affairs of the mess.
- xi. Possessing any kind of motorized vehicle, e.g. car, scooter, motorcycle, moped etc. by the hostlers is not permitted.
- xii. Any hostler is allowed to go to his/her home (only) during vacations/week ends against intimation to the hostel office.
- xiii. All of the hostel inmates are required to deposit an advance of Rs 18,000/- (or as decided from time to time) per semester with the hostel-clerk to join the mess.
- xiv. All of the hostel inmates are required to follow the norms of the hostel/mess.
- xv. Institute does not own the responsibility of theft and loss of any items possessed by the inmates. However, in the interest of inmates they may insure their valuables.
- xvi. Mess facility is mandatory for all hostel inmates.
- xvii. All of the hostlers are required to observe the hostel timings strictly as notified by the hostel administration from time to time.

Council of Wardens

Warden	Hostel No	Email Address
Dr Vinay Midha	Chief Warden	midhav@nitj.ac.in
Dr L P Singh	Senior Warden Hostel No.1 & 2	singhl@nitj.ac.in
Dr Avtar Singh	Warden Hostel No.1	avtars@nitj.ac.in
Dr Pawan Kumar Verma	Warden Hostel No.2	vermapk@nitj.ac.in
Dr Abhinav Pratap Singh	Senior Warden Hostel No. 3,4 & 5	jaiswarsinghap@nitj.ac.in
Dr Mohit Tyagi	Warden Hostel No. 3 & 4	tyagim@nitj.ac.in
Dr Nitin Naresh Pandhare	Warden Hostel No.5	pandharenn@nitj.ac.in
Dr Jatinder Kumar Ratan	Senior Warden Hostel No. 6,7 & 7E	<u>kumarj@nitj.ac.in</u>
Dr Dilbagh Panchal	Warden Hostel No. 6	panchald@ntij.ac.in
Dr Manoj Kumar	Warden Hostel No. 7 &7E	kumarm@nitj.ac.in
Dr Uma Shanker	Senior Warden MHB Block A & MHB Mess	<u>shankeru@nitj.ac.in</u>
Dr Varun Sharma	Warden MHB Block A & MHB Mess	sharmav@nitj.ac.in
Dr Virender Singh	Senior Warden MHB Block B & F	singhv@nitj.ac.in
Dr Anjireddy Bhavanam	Warden MHB Block B & F	bhavanama@nitj.ac.in
Dr Jaspreet Rajput	Senior Warden GH-1,2 & MGH	rajputj@nitj.ac.in
Dr Indu Chauhan	Warden Girls Hostel No:-1	<u>chauhani@nitj.ac.in</u>
Dr Anee Mohanty	Warden GH-2 & MGH	mohantya@nitj.ac.in

For Phone numbers please see telephone directory at the end of this prospectus

In case of emergency, students shall have to take special permission in advance from the concerned warden to stay out for late hours. The authority and the mode to operate the hostel funds is decided by the Director. The amendments in the hostel rules and other related matters can be made by the Director.

Allotment of room in the hostel

- i. The student must be personally present to take possession of allotted room.
- ii. The student may be allowed to choose his/her roommates.
- iii. The boarder shall not be entitled to retain accommodation in the hostel beyond his/her normal period of study.
- iv. No boarder is allowed to change his/her room without the permission of the Warden.
- v. The boarder shall have to vacate accommodation as and when asked for.

Room Inventory

Every boarder is provided with a chair, a table and a cot. She/he will be responsible for these items and other electrical fittings etc. Furniture and electrical fittings are not to be removed from one room to another. Every boarder has to see that no damage has been made to the hostel property. Fittings and repair charges for any damage (intentional or negligence) have to be borne by the boarder concerned.

Discipline

All the students are required to maintain good discipline and congenial environment while studying in the Institute. The students shall not indulge in such activities amounting to an act of indiscipline and misdemeanor such as:

- i. Taking out processions and holding demonstration in the campus.
- ii. Gheraoing, intimidating and threatening the faculty/staff/students.
- iii. Interfering with the functioning of various committees.
- iv. Disturbing the classes, assaulting teachers and students taking examination or in any other academic activity.
- v. Defacing the building or any structure by writing slogans and pasting bills, damaging the Institute property.
- vi. Keeping in possession any lethal weapon and bullet, unwanted/harmful instrument.
- vii. Possessing and/or consuming alcoholic liquor/drugs.
- viii. Rash driving, driving on the pedestrian path, triple riding, and parallel driving in restricted areas/Institute campus.
- ix. Making obscene gestures in the campus while roaming and sitting in and around the campus.
- x. Keeping motorized vehicles by the students in the hostels.
- xi. Use of mobile phone in the classes and examination Centre.

Any other acts of indiscipline decided by the competent authority not befitting to the presentation of the students.

Any student, with the intention of causing indiscipline or with the knowledge that he/she is likely by such act to cause indiscipline may be imposed penalty as mentioned below:

- i. Cancellation of admission.
- ii. Suspension from attending classes.
- iii. Withholding/withdrawing scholarship/fellowship and other benefits.
- iv. Debarring from appearing in any test/examination or other evaluation processes.
- v. Withholding results.
- vi. Debarring from representing the institution in any national or international meet, tournament, youth festival, conference etc.
- vii. Suspension/expulsion from the hostel.
- viii. Rustication from the institution
- ix. Expulsion from the institution and consequent debarring from admission in other institutions.
- x. Fine up to Rs. 50,000/-
- xi. Collective punishment will be awarded if the individuals committing indiscipline are not identified.

Withdrawal/Expulsion from the Hostels

- i) After the general allotment, application for withdrawal from the hostel should be counter-signed by the father/guardian and submitted to the hostel warden. It should also be ensured that the student does not owe any hostel dues.
- ii) The Director/Proctor-cum-Chief Warden may expel a boarder from the hostel, if he/she is in the habit of staying away without intimation to the hostel office, or hostel fee and mess dues are not cleared in time.
- iii) Students who do not clear their dues, such as dues of the hostel mess, canteen, fine etc. by the prescribed date will not be registered for the subsequent semester until and unless, they clear all their dues and submit "No Dues Certificate" from the Account Section and the concerned hostel warden. The students who leave the Institute after completing the degree requirements or otherwise, their result as well as the provisional certificate/ degree will be withheld till "No Due Certificate" is produced.
- iv) No boarder shall leave the hostel without handing over the charge of the room.

Students' Guests

- i) Guests are not, ordinarily, permitted to stay in the hostels except in the case of father/ brother and mother/sister (in case of girl students) provided he/she comes from a far off place. The student must get permission for the stay of his/her guest in the hostel from the concerned warden.
- ii) Female guests are not permitted to stay in boy's hostel. Likewise, male guests are not permitted to stay in the girls hostel.
- iii) A boarder keeping a guest without the prior permission of the Warden is liable to be penalized.
- iv) No hosteller is permitted to stay/sleep in the room of other student during daytime/night even with his/her consent.

Proper use of Electric Power

- i) Light, fan etc. must be switched off when not in use.
- ii) The use of electric heater, electric rod, air conditioner etc. and other similar appliances in the hostel rooms are prohibited.
- iii) Boarders are warned against tampering with electric installation, and for all electric repairs, the electrician should be called in.

13. COMMON FACILITIES AND CO-CURRICULAR ACTIVITIES

13.1 The Students' Activity Centre (SAC)

The Students' Activity Centre is the nerve Centre of all the student activities on the campus. The Centre comprises of a club building, gymnasium hall, open-air theatre, and hobbies workshop, which cater to various extra-curricular activities of the students.

13.2 Canteen

Day and night canteen facility is available for the students, staff and faculty.

13.3 Book Shop

There is a bookshop situated in the shopping complex of the institute, where Xerox facility is also available. Additionally, a separate Xerox facility is available in the Library.

13.4 Students' Counseling Service (SCS)

Faculty members are appointed as Academic Counselors for each batch and each discipline. Academic Counselors assist the students in sorting out their difficulties and dilemmas relating to their living in campus - away from their homes and competitive academic pressures.

13.5 Technical Club

Technical Club functions under "clubs and hobbies activities" of the institute. The objective of the technical club is to bring together faculty and students on a common platform to exchange ideas, share knowledge on emerging technologies.

13.6 **Benevolent Fund Scheme**

The Institute has setting up NIT Benevolent Fund Scheme for the benefit of its students. All students admitted to the institute are required to donate an amount of Rs. 100/- on one-time basis. This amount shall be claimed from the student at the time of their first registration.

13.7 **Medical Facilities**

The Institute has a dispensary in the campus to provide the medical assistance to the students round the clock. There is one regular doctors (one male) and para-medical staff for the required medical service. The consultation is also provided to the members of the faculty/staff residing in the campus. In case of medical emergency, the ambulance van is available 24 hours for taking patient(s) to other hospitals for the necessary treatment.

Name	Designation	Qualification	Email
Dr Tarun Sehgal	Medical Officer	MBBS	sehgalt@nitj.ac.in

13.8 **Bank and Post office**

There are two banks and a post office in the Institute premises to cater the need of the campus residents. Further, the ATMs by State Bank of Patiala and Canara Bank remain functional round the clock.

13.9 Newsletter

The Institute brings out half yearly newsletters reflecting activities of students, faculty and staff in each year.

13.10 Identity cards

Every student is required to keep with his/her identity card issued by the institute while moving in or outside the campus.

13.11 **Curricular Activities**

Extra-Curricular Activities for the Odd Semester (August-December 2015) have been planned as mentioned below. It shall be notified at the appropriate time. The faculty advisor shall notify rules concerning different competitions two weeks before the start of each competition. The information concerning rules can also be obtained personally from the concerned faculty advisor.

	Li	st of Eve	nts
Sr	Competitive Event		7.
No.			8.
1.	Photography Exhibition (Student's own work)		9.
2.	Extempore		
3.	Skit Competition		10
4.	On the spot Painting Competition cum Exhibition		11
5.	Debate Competition		12
6.	Geet /Ghazal Competition		13

7.	Rangoli Competition
8.	Instrumental Solo (Indian or Western) Competition
9.	Exhibition of Individual Collection of Stamps and
	Coins
10.	On the spot Sketching Competition cum Exhibition
11.	Creative Writing
12.	Abhiyakti
13.	Hindi Phakhwara

Students desirous of becoming office bearers/executive members are advised to appear for personal interview at the office of the respective faculty advisor: -

- Music and Dramatics
- Fine Arts
- Literary and Debating

- Photography and other hobbies
- Hiking and Trekking
- SPIC-MACAY •

All the notices concerning extra-curricular activities shall be put up at the exit point near reprographic Centre of the Main Block. The faculty advisor shall announce the dates for Trip of Hiking and Trekking Society two weeks in advance.

DEPARTMENT of CHEMISTRY

Faculty

Name	Designation	Qualification	Email
Dr B S Kaith	Professor	Ph D (PU)	kaithbs@nitj.ac.in
Dr N C Kothiyal	Professor	Ph D (ISM)	kothiyalnc@nitj.ac.in
Dr Harsh K Manchanda	Associate Professor & Head	Ph D (KU)	manchandah@nitj.ac.in
Dr Jaspreet Kaur Rajput	Associate Professor	Ph D (Pbi. Uni)	rajputj@nitj.ac.in
Dr Rajeev Jindal	Associate Professor	Ph D (PU)	jindalr@nitj.ac.in
Dr Sangeeta Obrai	Associate Professor	Ph D (GNDU)	obrais@nitj.ac.in
Dr Uma Shanker	Assistant Professor	Ph D (IIT-Roorkee)	shankeru@nitj.ac.in

Dr Virender Singh Assistant Professor	Ph D (CDRI, Lucknow)	singhv@nitj.ac.in
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Academic Programme

PhD Programme

Full Time and Part Time PhD Programmes in various areas: Ionic Liquids, Green Chemistry, Solution Thermodynamics, Advance materials and sensors, Organic Synthesis, Nanocatalysis, Environmental Chemistry, Carbon Based Nanocomposils, Surface Chemistry Surfactants Chemistry, Graphics and Carbon Nanotubes based Nanocomposites, Environmental Chemistry (Polyclic Aromatic Hydrocarbon, Water & Waste Water Treatment), Nonoadsobents in Removal of Toxie Contaminants, Medicinal Chemistry and Natural Product Synthesis, Synthesis of Nanoparticles and their application in organic Synthesis, Synthesis of Nanomaterial using different routes and their catalytic applications, Transition-Metal assisted C-C and C-N coupling reactions, Hydrogels and their applications, Composites and their applications, Smart materials and their applications, Nanocomposites and their applications, Synthesis of Ion-exchangers, Smart Polymers, Nanochemistry, Mechanistic Organic Chemistryare offered by the Department.

M. Sc. Programme

M. Sc. in Chemistry

Special features of M. Sc. Chemistry

In addition to courses on Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry and Spectroscopy the following courses are mandatory for all students:

- Intellectual Property Rights
- Electronics for Chemists
- Computational Techniques for Chemists
- Pharmaceutical Chemistry
- Summer Training in IITs, IISER, NIPER, IISc, CSIR Labs, Good-University and Industries
- Project work in III and IV semesters
- More than 10 departmental electives to be chosen by students as per their aptitude

Research and Development Activities

The Faculty members of the Department are actively carrying-out research on areas like: Ionic Liquids, Green Chemistry, Solution Thermodynamics, Advance materials and sensors, Organic Synthesis, Nanocatalysis, Environmental Chemistry, Carbon Based Nanocomposils, Surface Chemistry Surfactants Chemistry, Graphics and Carbon Nanotubes based Nanocomposites, Environmental Chemistry (Polyclic Aromatic Hydrocarbon, Water & Waste Water Treatment), Nonoadsobents in Removal of Toxie Contaminants, Medicinal Chemistry and Natural Product Synthesis, Synthesis of Nanoparticles and their application in organic Synthesis, Synthesis of Nanomaterial using different routes and their catalytic applications, Transition-Metal assisted C-C and C-N coupling reactions, Hydrogels and their applications, Composites and their applications, Ion-exchangers, Smart materials and their applications, Nano-composites and their applications, Synthesis of Ion-exchangers, Smart Polymers, Nanochemistry, Mechanistic Organic Chemistry.

Laboratory Facilities

- Undergraduate B.Tech Chemistry Laboratory (UG)
- Instrumental Chemical Analysis Laboratory / Computer Lab
- M.Sc Physical Chemistry Lab
- M.Sc Organic Chemistry Lab
- M.Sc Inorganic Chemistry Lab
- Synthetic Chemistry Lab
- R & D Lab
- M.Sc Chemistry Project Lab

Sponsored Projects Completed/Ongoing

- Modernization of Chemical Instrumentation Laboratory (MODROB Project).
- Assessment and Control of Lead Pollution from Vehicular Emission in Urban Environment of Punjab.
- Distribution of Heavy Metal Pollutants in Aquatic Environment of Punjab.
- Biodegradation of Tannery Waste, R&D project AICTE, New Delhi
- γ-Radiation Induced Synthesis of Super-absorbents and impact of Swift Heavy Ion Bombardment on the physiochemical Properties.
- Natural product inspired design, synthesis and anticancer evaluation of β-carboline derivatives.

- Hybrid Carbon Nonmaterials (HCNS) as Composite in Cement Matrix for Improvement of Properties Tailored to Civil Engineering Applications.
- Investigations on the effect of ionic liquids on self assembly of various surfactants in aqueous media.
- Application of Building Blocks from MBH Chemistry for the Synthesis of Privileged Scaffolds.
- Natural Product Inspired Design, Synthesis, and Anticancer Evaluation of β-Carboline Derivatives.
- Design and Synthesis of β-Carboline Tethered Pyrazole and Pyrazoline Architectures as Novel Anticancer Agents.
- Exploration of [4+2] Cycloaddition Chemistry for the Synthesis of Carbazole Fused Quinolines and Pyrazole derivatives and Investigation of their Fluorescent Properties.
- Exploration of 1-formyl-9H-β-Carbolines for the Synthesis of β-Carbolines containing Privileged Scaffolds and Evaluation of their Biological Properties.
- Design and Synthesis of Novel β-Carbolines N-fused Imidazole Derivatives and Evaluation of Their Fluorescence Properties.

Extra Co-curriculum Activities:

Creative Chemistry Club (C³) instituted in Department to organize the various academic, cultural and scientific events in the Department for the faculty and students.

HUMANITIES AND MANAGEMENT					
aculty					
Name	Designation	Qualification	Email		
Dr S J S Bedi	Associate Professor & Head	PhD (GJUST)	bediss@nitj.ac.in		
Dr Jagwinder Singh	Assistant Professor	PhD (PU)	singhj@nitj.ac.in		
Dr Aditya Prakash	Assistant Professor	PhD (JNU)	prakasha@nitj.ac.in		
Dr Kumar Parag	Assistant Professor	PhD (AU)	paragk@nitj.ac.in		
Dr S Ghosh	Professor	Ph D (IITD)	ghoshs@nitj.ac.in		

Academic Programmes

Under Graduate Programmes

The department offers the core and elective courses to the B Tech students of all the disciplines. The compulsory courses in the B Tech stream are Introduction to Management, Human Values and Behavior, English Communication, English Communication Laboratory, Engineering Economics and Industrial Management, Entrepreneurial Development and Management, Financial and Cost Accounting, Human Resource Management and Industrial Relations whereas Open electives courses offered include Marketing Management, Organizational Behavior, Business Environment, Knowledge Management, Business Ethics, Logistics & Distribution Management, Industrial Psychology and Readings in Literature and Linguistics.

Soft-Skills and Personal Interviews Programme

In order to equip the students with the skills required to face the campus and off-campus interviews, the department offers a compulsory course "Soft-Skills and Personal Interviews Programme" to all the B. Tech Third Year Students of all the branches. The programme enhances the employability of engineering students and helps bridge the gap between industry expectations and their current skill set. Their hard technical skills coupled with the desired soft skills impart our budding engineers a winning edge and make them **Job-Ready**.

Post Graduate Programme

The Department offers two years' full time MBA Programme at par with leading management schools with specialization in Human Resource Management, Marketing Management, Financial Management and Information Technology.

PhD Programme

The Department offers Full / Part Time PhD Programme in Business Management (Human Resource Management, Strategic Management, Marketing Management and Entrepreneurship Development & Management) & English Literature and Linguistics.

Laboratory Facilities

Communication Laboratory: Communication leads to empowerment. To empower a student, a communication laboratory plays a pivotal role. It helps to polish and enrich the communication skills of the students. The objective is to groom an engineer with strong spoken and written communication skills.

Computational Laboratory: Computational Laboratory is an essential source of learning. It not only broadens the horizon and intellect of a student but also helps him to be articulate in his approach. Any formal medium of education is incomplete without Information Technology. Therefore, the Department has specially setup the computational laboratory for the students.

Research & Development

Research is central to the vision of the department and consistent with this, a thriving research culture has been developed. The department has achieved significant success in terms of publications in internationally referred journals. In addition, an inclination towards research is evident in faculty members of the department who actively present and publish research work, reference papers and articles in national and international journals & conferences.

Consultancy Projects

Consultancy is an essential component in public-private partnership. It helps to understand the requirement of the industry and to design the courses for the students accordingly. The Department offers consultancy in the field of Entrepreneurship Development and Management, Marketing Management, Human Resource Management, English Literature & Linguistics, communication and Soft Skills.

3 MATHEMATICS

Faculty

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Name	Designation	Qualification	Email
Dr Jaspal Singh Aujla	Professor & Head	Ph D (PU)	aujlajs@nitj.ac.in
Dr Sheo Kumar	Professor	Ph D (IITD)	kumars@nitj.ac.in
Mrs Alka Bhalla	Associate Professor	MSc(GNDU), MPhil(PU)	bhallaa@nitj.ac.in
Dr Damanjit Kaur	Associate Professor	Ph D (HPU)	kaurd@nitj.ac.in
Dr Geeta Partap	Associate Professor	Ph D (KUK)	pratapg@nitj.ac.in
Dr Raghaw Raman Sinha	Assistant Professor	Ph D (BHU)	sinharr@nitj.ac.in

Academic Programmes

M Sc Mathematics

Ph D (Full and Part Time)

In addition to the above mentioned programmes, B Tech/MTech core/elective courses are offered by the Department to the engineering disciplines

Research and Development

The faculty of the department is interested in the following research areas: Wavelet & Finite Element Methods for Partial Differential & Integral Equations, Numerical analysis and Computer Programming, Linear Algebra, Operator Theory, Matrix Analysis, Statistics, Applied mathematics (Mechanics of Solids), Micro polar Elasticity.

Dr. Jaspal Singh Aujla has been selected as Senior Associate for a period of six years (2011-2016) at Abdul Kalam International Centre for Theoretical Physics, Trieste, Italy

Laboratory Facilities

Computing Laboratory for M Sc/Ph D programme

PHYSICS			
Name	Designation	Qualification	Email
Dr Arvinder Singh	Professor	Ph D (GNDU)	arvinders@nitj.ac.in
Dr H M Mittal	Associate Professor	Ph D (DU)	mittalhm@nitj.ac.in
Dr Jyoti Bharj	Associate Professor & Head	Ph D (NITJ)	jyoti@nitj.ac.in
Dr Rohit Mehra	Associate Professor	Ph D (GNDU)	mehrar@nitj.ac.in
Dr A P Singh	Assistant Professor	Ph D (JNU)	abhi.pr.s@gmail.com
Dr Arvind Kumar	Assistant Professor	Ph D (IITD)	iitd.arvind@gmail.com
Dr Harleen Dahiya	Assistant Professor	Ph D (PU)	dahiyah@nitj.ac.in
Dr Praveen Malik	Assistant Professor	Ph D (TIET)	malikp@nitj.ac.in

Academic Programmes

M Sc Physics

A two year M Sc Programme in Physics is being offered by the Department w.e.f. Session 2006-2007.

Ph D Programmes

Full Time and Part Time Ph D Programmes in area of Laser-Plasma Interaction, Applied Electromagnetics, Nuclear Physics, High Energy Physics, Radiation Physics, Liquid Crystal and Condensed Matter Physics are offered by the Department

In addition to the above mentioned programmes, B Tech/MTech core/elective courses are offered by the Department to the engineering disciplines

M. Tech Programme

Part time MTech programme in Material Science and Technology Full Time MTech in Nuclear Science and Engineering

Research and Development

The faculty in the Department has interest in the following research areas: Laser-Plasma Interaction, Applied Electromagnetics, Material Science, Nuclear Physics, High Energy Physics, Radiation Physics, Liquid Crystal, Condensed Matter Physics

Laboratory Facilities

For Undergraduate Programme:

- Applied Physics Laboratory
- Material Science Laboratory

For Postgraduate Programme

- Electronics Laboratory
- Scientific Computation Laboratory
- Solid State Physics Laboratory

Research Laboratory

- Computational Plasma Laboratory
- Radiation Physics Laboratory

Sponsored Projects Undertaken

- Modernization of Applied Physics Laboratory
- Electrical Properties of Polymers
- Modernization of Fiber Optics Laboratory

Sponsored Project on going

- Some Universal features of Nuclear Structure in Super deformed Nuclei
- Measurement of Radon, Thoron and progeny distribution in different type of houses in Bathinda, Mansa, Muktsar and Faridkot district of Punjab
- 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 Rajsthan
- Hyperon Semi-leptonic Decays in the Chiral Constituent Quark Model
- Electromagnetic Structure of hadrons at low Q²
- Electro-optic and dielectric studies in nanomaterial dispersed ferroelectric liquid crystals
- Strangeness and Charmless in Heavy-Ion Collision Experiments

5 **BIOTECHNOLOGY**

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Designation	Qualification	Email		
Professor and Head	Ph D (IITD)	janaak@nitj.ac.in		
Associate Professor	PhD (NITJ)	basakn@nitj.ac.in		
Assistant Professor		mohantya@nitj.ac.in		
Assistant Professor		chauhani@nitj.ac.in		
Assistant Professor		sahmk@nitj.ac.in		
Assistant Professor		nikhilgn@nitj.ac.in		
Assistant Professor		meenass@nitj.ac.in		
	Designation Professor and Head Associate Professor Assistant Professor	DesignationQualificationProfessor and HeadPh D (IITD)Associate ProfessorPhD (NITJ)Assistant ProfessorAssistant Professor		

Academic Programmes

B Tech in Biotechnology Postgraduate Programme

- Fiber Optics and Laser Laboratory
- Nuclear Physics Laboratory
- Plasma Physics Laboratory
- Spectroscopy Laboratory
- Liquid Crystal Laboratory
- High Energy Physics & Computational Laboratory

Laboratory Facilities

- Microbiology Laboratory
- 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

Achievement of Students

- Mr Sujit J Patil, B.Tech Final Year passing out 2015, obtained All India Rank 2 in GATE 2015
- Ms Ankita, B.Tech Final Year passing out 2014, obtained All India Rank 12 in GATE 2014
- Mr Kapish Gupta B.Tech Final Year passed out 2012, obtained All India Rank 2 in GATE 2012
- Mr Kapish Gupta B.Tech Final Year passed out 2012, obtained All India Rank 5 in CSIR–UGC NET 2012

Research and Development

The faculties of the department are working in the research areas: Microbial Biotechnology, Enzyme Technology, Bioprocess Engineering, Green Biofuel production, Environmental Biotechnology.

CHEMICAL ENGINEERING					
aculty					
Name	Designation	Qualification	Email		
Dr M K Jha (on leave)	Professor	Ph D (ISM)	jhamk@nitj.ac.in		
Dr Ajay Bansal	Associate Professor & Head	Ph D (PU)	bansala@nitj.ac.in		
Sh N K Srivastava	Associate Professor	MTech (IITR)	srivastavank@nitj.ac.in		
Dr Poonam Chadha	Associate Professor	PhD.(NITJ)	chadhap@nitj.ac.in		
Dr Renu Bansal	Associate Professor	PhD.(NITJ)	bansalr@nitj.ac.in		
Dr Sangeeta Garg	Associate Professor	PhD.(NITJ)	gargs@nitj.ac.in		
Dr S Bajpai	Associate Professor	Ph D (NITJ)	bajpais@nitj.ac.in		
Dr Amit Dhruv Saran	Assistant Professor		saranad@nitj.ac.in		
Dr Anjireddy Bhavanam	Assistant Professor		bhavanama@nitj.ac.in		
Dr Anurag Kumar Tiwari	Assistant Professor		tiwaria@nitj.ac.in		
Dr D Giribabu	Assistant Professor		giribabud@nitj.ac.in		
Dr Deepak Sahu	Assistant Professor		sahud@nitj.ac.in		
Dr Jatinder Kumar Ratan	Assistant Professor	PhD (NITJ)	kumarj@nitj.ac.in		
Dr Neetu Divya	Assistant Professor	Ph D (NITJ)	divyan@nitj.ac.in		
Dr Nitin Naresh Pandhare	Assistant Professor		pandharenn@nitj.ac.in		
Ms Rubal Preet	Assistant Professor	MTech (NITJ)	preetr@nitj.ac.in		
Dr Shashikant Yadav	Assistant Professor		shashikanty@nitj.ac.in		

Academic Programmes

Undergraduate Programme

B Tech in Chemical Engineering

Postgraduate Programmes

Full and Part Time MTech in Chemical Engineering Full and Part Time Ph D Programmes in Chemical Engineering

Laboratory Facilities

• Fluid Mechanics Laboratory

- Unit Operations Laboratory
- Energy Engineering laboratory
- Chemical Technology Laboratory
- Heat Transfer Laboratory
- Mass Transfer Laboratory

- Chemical Process Control and Reaction
 Engineering Laboratory
- Pollution Abatement Laboratory
- Bio-Chemical Engineering Laboratory
- Process Modeling and Simulation Laboratory
- Departmental Computer Centre

Research and Development

The faculty members of the department are actively engaged in guiding research in the areas of Chemical Engineering, Biochemical Engineering, Petroleum Engineering, Energy and Environment, Biodegradable Plastics, Multiphase Flow etc.

Sponsored Projects

- Effective Pollution Abatement and Efficient Biogas Generation from Molasses based Industrial Effluent
- Modernization of Chemical Technology Laboratory
- Modernization of Fuel Technology laboratory
- Modernization of Industrial Pollution Abatement Laboratory
- Thrust Area Project on Production, Recovery and Application of Enzymes
- Modernization of Chemical Process Control Laboratory
- TEQIP project for creating Bio-Engineering facility, up gradation of Mass Transfer Laboratory and expansion of Fluid Mechanics Laboratory
- Study on Treatment of Groundwater of AB Sugar Ltd

CIVIL ENGINEERING

Name	Designation	Qualification	Email
Indille	Designation	Qualification	
Dr A K Agnihotri	Professor & Head	Ph D (UOR)	agnihotriak@nitj.ac.in
Dr A P Singh	Professor	Ph D (PTU)	singhap@nitj.ac.in
Dr S P Singh	Professor	Ph D (UOR), Post-Doc (UK)	spsingh@nitj.ac.in
Sh Davinder Singh	Assistant Professor	ME (PU)	singhdj@nitj.ac.in
Dr Rizwan Ahmad Khan (on lien to AMU)	Assistant Professor	Ph D (IITD)	khanar@nitj.ac.in
Ms Shailja Bawa	Assistant Professor	MTech (PU)	bawas@nitj.ac.in
Dr. Amit Kumar	Assistant Professor	Ph. D (IITD)	amitkumar@nitj.ac.in
Dr. K. Senthil	Assistant Professor	Ph. D (IITR)	kasilingams@nitj.ac.in
Dr. Shashi Kant Sharma	Assistant Professor	Ph. D (IITR)	sharmask@nitj.ac.in
Dr. S. Rupali	Assistant Professor	Ph. D (IITR)	satavalekarr@nitj.ac.in
Dr. Rajiv Kumar	Assistant Professor	Ph. D (IITR)	kumarr@nitj.ac.in
Dr. Navdeep Singh	Assistant Professor	Ph. D (NITJ)	navdeeps@nitj.ac.in
Dr. Kanish Kapoor	Assistant Professor	Ph. D (NITJ)	kapoork@nitj.ac.in
Dr. Mahesh Patel	Assistant Professor	Ph. D (IITG)	patelm@nitj.ac.in

Academic Programmes.

Undergraduate Programme

B Tech in Civil Engineering

Postgraduate Programmes

MTech Full Time and Part Time in Structural and Construction Engineering Ph D Full Time and Part Time in various specializations of Civil Engineering

Laboratory Facilities

- Environmental Engineering Laboratory
- Geotechnical Engineering Laboratory
- Structures Testing Laboratory
- Concrete Technology Laboratory
- Transportation Engineering Laboratory

Research and Development

The faculty of the department has interest in the following research areas:

Structural Analysis and Design: Computer Applications and Finite Element Analysis Techniques, Linear and Non-linear Analysis.

Structural Materials: Applications of Steel Fibre Reinforced Concrete in Structural Components, Permeability Studies, High Performance Concrete, Fatigue Behaviour.

Geo-technical Engineering: Applications of Geotextiles and Geo-fibres in Foundation Engineering, Reinforced Soil Systems.

Geo-environmental Engineering, Pavement Design

- Survey Laboratory
- CAD Laboratory
- Structural Analysis Laboratory
- Hydraulic Engineering Laboratory

As part of its efforts in forging a close relationship with the industry, the department maintains a close liaison with various government/public and private sector organizations by virtue of rendering them consultancy services in most of areas viz. structural analysis and design of steel and concrete structures, material testing, geotechnical investigations and survey work.

Sponsored Projects

- UKIERI Collaborative Research Project -on Sustainable High Performance Concrete Infrastructure.
- Modernization of Concrete Structure Laboratory
- Earthquake resistant Design of reinforced concrete structural members.
- Modernization of Geotechnical Engineering Laboratory
- Engineering properties of fibre reinforced soil and its applications to shallow foundations
- Modernization of Surveying Laboratory
- Permeability of Steel Fibre Reinforced Concrete.
- DST-FIST Project

8 COMPUTER SCIENCE AND ENGINEERING Faculty

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Name	Designation	Qualification	Email		
Dr Ajay K Sharma	Professor (on lien to NIT Delhi)	Ph D (KUK)	sharmaajayk@nitj.ac.in		
Dr A L Sangal	Professor	Ph D (NITJ)	sangalal@nitj.ac.in		
Sh D K Gupta	Associate Professor	M.Tech (NITJ)	guptadk@nitj.ac.in		
Dr Geeta Sikka	Associate Professor	PhD (NITJ)	sikkag@nitj.ac.in		
Dr Harsh K Verma	Associate Professor & Head	Ph D (PTU)	vermah@nitj.ac.in		
Dr Renu Dhir	Associate Professor	Ph D (Pbi U)	dhirr@nitj.ac.in		
Dr Avtar Singh	Assistant Professor		avtars@nitj.ac.in		
Dr Krishna Pal Sharma	Assistant Professor		sharmakp@nitj.ac.in		
Dr Kuldeep Kumar	Assistant Professor		kumark@nitj.ac.in		
Dr Nonita	Assistant Professor		nonita@nitj.ac.in		
Dr Paramvir Singh	Assistant Professor	Ph.D (GNDU)	singhpv@nitj.ac.in		
Sh Rahul Aggarwal	Assistant Professor	B Tech (GNDU)	aggarwalr@nitj.ac.in		
Dr Rajneesh Rani	Assistant Professor	MTech (Pbi U)	ranir@nitj.ac.in		
Dr Santosh Singh Rathore	Assistant Professor		rathores@nitj.ac.in		

Academic Programmes

Undergraduate Programme

B Tech in Computer Science and Engineering

Postgraduate Programmes

MTech (Full Time and Part Time) Programmes in Computer Science and Engineering M.Tech (Full Time) Programme in Information Security Ph D (Full and Part Time) Programmes in Computer Science and Engineering

Laboratory Facilities

- RDBMS
- Wireless Data and optical Networks
- Linux
- Computer Programming
- Microprocessor
- Project Laboratory
- Computer Network
- Robotics and Artificial Intelligence

Natural Language &Pattern Recognition

- Data Communication
- Embedded Systems
- Software Engineering
- Information Security
- Computer GraphicsOperating Systems
- Digital Circuit Logic Design

Research and Development

The faculty of the department has interest in the following research areas: Algorithms, Information Security, Numerical Analysis and Scientific Computing, Wireless and Optical Computer Networks, Distributed Systems, Software Systems and Natural Language Processing.

Sponsored Projects and Lab Development

- Information Security Education and Awareness (ISEA) Project
- Modernization of Robotics and Artificial Intelligence Laboratory
- Modernization of PC Maintenance and Audio Visual Laboratory
- Modernization of Microprocessor Laboratory
- Setting up of Advanced RDBMS Laboratory
- Setting up of Advanced Wireless Data & Optical Networks Lab •
- Setting up of Advanced Sensor Networks Lab.

INFORMATION TECHNOLOGY

Faculty

Name	Designation	Qualification	Email
Dr Geeta Sikka	Associate Professor	PhD (NITJ)	sikkag@nitj.ac.in

Academic Programmes

Undergraduate Programme

B Tech in Information Technology ELECTRONICS & COMMUNICATION ENGINEERING

Faculty

Name	Designation	Qualification	Email
Dr R K Sarin	Professor	PhD (St. Petersburg)	sarinrk@nitj.ac.in
Dr Arun Khosla	Associate Professor	PhD (IPU)	khoslaak@nitj.ac.in
Dr B S Saini	Associate Professor & Head	PhD (NITJ)	sainibs@nitj.ac.in
Dr Mamta Khosla	Associate Professor	PhD (NITJ)	khoslam@nitj.ac.in
Dr Ashish Raman	Assistant Professor	PhD (NITJ)	ramana@nitj.ac.in
Dr Balwinder Raj	Assistant Professor	PhD (IITR)	rajb@nitj.ac.in
Dr Deepti Kakkar	Assistant Professor	PhD (NITJ)	kakkard@nitj.ac.in
Dr Indu Saini	Assistant Professor	PhD (NITJ)	sainii@nitj.ac.in
Dr Neetu Sood	Assistant Professor	PhD (NITJ)	soodn@nitj.ac.in
Dr Nitesh Kashyap	Assistant Professor		kashyapn@nitj.ac.in
Dr Pawan Kumar Verma	Assistant Professor		vermapk@nitj.ac.in
Dr Ramesh K Sunkaria	Assistant Professor	PhD (IITR)	sunkariak@nitj.ac.in
Dr Sateesh Kumar Awasthi	Assistant Professor		awasthisk@nitj.ac.in
Dr Sukwinder Singh	Assistant Professor		sukwinders@nitj.ac.in

Academic Programmes

Undergraduate Programme

B Tech in Electronics and Communication Engineering

Postgraduate Programmes

MTech in Electronics & Communication Engineering (Full time) MTech in VLSI Design (Full time) Full and Part Time PhD Programmes in Electronics & Communication Engineering

Laboratories

- **Basic Electronics Lab** .
- Communication Systems Lab ٠
- **Devices and 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 Computer Modeling of Physiological

Research Areas

VLSI Design, RF Design, Semiconductor Device modeling, Biomedical Signal Processing, Machine learning, Physiological Variability Studies, ECG Signal Analysis and Interpretation, Image Processing, Wireless Systems design, OFDM and next generation wireless systems, Cognitive Radio, Intelligent Systems and Emerging technologies, Technology for Autism.

Sponsored Projects (Ongoing)

- DST FIST funded Project Characterization of Semiconductor Devices
- SMDP C2SD (Special Manpower Development Programme Chip to System Design)

10 INDUSTRIAL AND PRODUCTION ENGINEERING

Faculty

Name	Designation	Qualification	Email
Dr Arvind Bhardwaj	Professor	Ph D (KUK)	bhardwaja@nitj.ac.in
Dr R K Garg	Professor	Ph D (TIET)	gargrk@nitj.ac.in
Dr Ajay Gupta	Associate Professor & Head	PhD (NITJ) MBA (IGNOU)	guptaa@nitj.ac.in
Dr Anish Sachdeva	Associate Professor	Ph D (IITR)	asachdeva@nitj.ac.in
Sh R K Bansal	Associate Professor	ME (IITD)	bansalrk@nitj.ac.in
Dr Sarabjit Singh Bal	Associate Professor	PhD (NITJ)	balss@nitj.ac.in
Dr Vishal S Sharma	Associate Professor	Ph D (KUK)	sharmavs@nitj.ac.in
Dr Lakhwinder Pal Singh	Assistant Professor	Ph.D (NITJ)	singhl@nitj.ac.in
Dr Mohit Tyagi	Assistant Professor	PhD (IITR)	tyagim@nitj.ac.in
Dr Rajeev Trehan (*)	Assistant Professor	PhD (NITJ)	trehanr@nitj.ac.in
Dr Rajeev Verma	Assistant Professor	PhD (PEC)	vermar@nitj.ac.in
Dr Ravi Pratap Singh	Assistant Professor	PhD(NITK)	singhrp@nitj.ac.in
Dr Shailender Singh Bhadauria	Assistant Professor	PhD(NITB)	bhadauriass@nitj.ac.in
Dr Varun Sharma	Assistant Professor	PhD (SLIET)	sharmav@nitj.ac.in

(*)Dr Rajeev Trehan, Assistant Professor, Centre of Training and Placement are involved in the Department of Industrial and Production Engineering for teaching of UG & PG courses.

Academic Programmes

Undergraduate Programme

B Tech in Industrial and Production Engineering.

Postgraduate Programmes

MTech in Industrial Engineering (Part-Time) MTech in Manufacturing Technology (Full-Time) Full and Part Time Ph D Programmes in Industrial and Production Engineering

Laboratories

- Metrology and Mechanical Measurements
 Laboratory
- Computer Aided Manufacturing and Automation Laboratory (CAMAL).
- Modern Tool Room/Non Traditional Machining Methods Laboratory.
- Work-study and Ergonomics Laboratory.
- Statistical Quality Control Laboratory.
- Metallurgy and Heat Treatment Laboratory is in process of being set up
- Computational and CAD Laboratory

Research and Development

The faculty of the department has expertise in the following research areas: Non-Conventional Machining, Change Management, Human Factors Engineering, Supply Chain Management, Environment Management System and Sustainability, Fracture Mechanics, Reliability & maintenance, Optimization of Production Systems, Technology Management, Metal Cutting and Occupational Health & Safety.

Sponsored Projects handled

- Modernization of Machine Tool Laboratory
- Numerical Control of Machine Tools
- Non-Traditional Machining Methods
- Modern Tool Room
- Modernization of Metrology Laboratory
- Technology gap Analysis study for Bicycle parts cluster in Ludhiana
- Technology gap analysis study for Sewing Machine cluster in Ludhiana

PEO's of the department

To serve the nation by producing qualified and skilled engineers who will

- i. Excel in professional career and/or higher education by acquiring knowledge in Engineering, Computational and Statistical principles.
- ii. Have the ability to analyze real life problems and develop solutions that are technically sound, economically feasible and socially acceptable.
- iii. Exhibit professionalism, ethical attitude, communication skills, team work in their profession and adapt to current trends by engaging in lifelong learning.

10. INSTRUMENTATION AND CONTROL ENGINEERING

Faculty

Name	Designation	Qualification	Email
Dr A K Jain	Professor	Ph D (NITJ)	jainak@nitj.ac.in
Dr Dilbag Singh	Associate Professor	Ph D (IITR)	singhd@nitj.ac.in
Dr Kuldeep Singh Nagla	Associate Professor & Head	PhD (NITJ)	naglaks@nitj.ac.in
Er. Narinder Singh Bhangal	Associate Professor	MTech (PAU)	singhn@nitj.ac.in
Dr Rajesh Singla	Associate Professor	PhD (NITJ)	singlar@nitj.ac.in
Mrs Roop Pahuja	Associate Professor	MTech (IITR)	pahujar@nitj.ac.in
Dr Sarwan Kumar Pahuja	Associate Professor	Ph D (IITD)	pahujas@nitj.ac.in
Dr Sheela Tiwari	Associate Professor	Ph D (NITJ)	tiwaris@nitj.ac.in
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Dr Karan Veer	aran Veer Assistant Professor veerk@nitj.ac		veerk@nitj.ac.in
Dr Mrutyunjay Rout	Assistant Professor		routm@nitj.ac.in
Dr Om Prakash Verma	Assistant Professor		vermaop@nitj.ac.in
Dr Sathiya S	Assistant Professor		sathiya@nitj.ac.in

Academic Programmes

Undergraduate Programme

B Tech in Instrumentation and Control Engineering

Postgraduate Programmes

- MTech (Full-Time) in Control and Instrumentation Engineering,
- MTech (Part-Time) in Control and Instrumentation Engineering,
- Ph D Programmes Full Time and Part Time

Laboratories

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

Research and Development

The faculty members of the department have interest in the following research areas: Wireless Network, Bio Medical Instrumentation and Signal Professing, Medical Imaging, Wireless Sensor Network, Applications and Virtual Instrumentation, Power System Operation and Control/ Artificial Intelligence, Artificial in Human Machine Interface, Robotics.

Sponsored Projects

- Collaborative Project on ECG data base for Indian Healthy Population with IITR and University of Glasgow (Completed)
- Laboratory up gradation under TEQIP-II grant (Ongoing)
- Robot for cleaning the surface below the railway tracks at Railway Platform (Completed)
- INDO-KOREAN joint R&D Project entitled "Real time shared autonomy systems for field mobile robots" (Joint research collaboration between NIT- Jalandhar and School of Electrical Engineering, Korea University, Seoul) (In process)

Consultancy

- Collaborative consultancy on performance testing of small Hydroelectric plants with AHEC, IIT Roorkee.
- R&D consultant to Steinbeis GmbH & Co. KG fur Technologietransfer, Willi-Bleicher-Strasse 19, Germany.

IPR (Intellectual Property Rights)

Patents

- Mechanism to Clean Bird Dropping (Garbage) within a Cage type Poultry Farm, Indian Patent no 210090, Granted on 18/9/2007, Inventor: KS Nagla
- An Intelligent Leg Exercise Machine, Patent application no 427/del/2007, First examination over, inventors: K S Nagla, Dr Moin Uddin, Amandeep Singh Kalra, Akshay Kathiyal.
- A Method and Mechanism to Control the Position and Orientation of Cleaning Nozzle of Robot, 2489/DEL/2009, Inventors: K S Nagla, Dr. MoinUddin, Dr. R Jha
- Patent applied entitled "Induction Hardening Machine" with DAV Institute of engineering and Technology, Jalandhar, Patent application number 2269/del/2012, inventors Amit Kohli, KS Nagla, Hari Singh

Designs

- Decorative Article, Indian Design No 207315, Granted on 6th Dec., 2006, Designer: KS Nagla
- Industrial design Heat treatment tray, Indian Design No 254948, Granted on 3/7/2013
- Indian design patent titled "Door Handle", Indian Design no 265973, Granted on 20-02-2015

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- IPR Ki Hai ©L-37370/2011, Dt. 18/03/2011, Copy Right of Dr KS Nagla
- Soorji photovoltaic upkarn ©L-37669/2011, Dt. 18/03/2011, Copy Right of Dr KS Nagla
- Pani de shudikharn dealn navian vidian ©L-36944/2011, Dt. 06/01/2011, Copy Right of Dr KS Nagla
- Discovering a twist on the stem of eucalyptus plants, Discovered by: KS Nagla, ©L-29494/2007 Dt. 12/11/2007
- Discovering a Unique Twist Pattern in of Nassella Neesiana, Discovered by: KS Nagla, ©L-35431/2010, Dt. 09/02/2010
- Discovering Buoyancy Force Based Perpetual Motion Machine, Discovered by: KS Nagla, @L-35432/2010, Dt. 09/02/2010

Computer Software Developed

Program tool Multi-sensor data fusion: focused on mobile robots mapping, Copy Right © Diary no 3390/2015-co/SW dated 08/04/2015

 Program tool corner extraction using laser range finder focused on mobile robot mapping applied for copy right © Diary Number 3390/2015-CO/SW, April, 2015.

ELECTRICAL ENGINEERING

Faculty

Name	Designation	Qualification	Email
Dr Kuldeep Singh Nagla	Associate Professor & Head	Ph D	naglaks@nitj.ac.in

Academic Programmes

Undergraduate Programme

B Tech in Electrical Engineering

12 MECHANICAL ENGINEERING Faculty

Name	Designation	Qualification	Fmail
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Di Joseph Anand Vaz	Ploiessoi	Ph D (IITKh)	ananovaz@nitj.ac.in
Er. Ajay Trehan	Associate Professor	MTech (NITJ)	trehana@nitj.ac.in
Dr Dinesh K Shukla	Associate Professor	Ph D (IITD)	shukladk@nitj.ac.in
Dr Pramod Kumar	Associate Professor	Ph D (NITJ)	kushwahapramod@nitj.ac.in
Dr R S Bharj	Associate Professor	Ph D (NITJ)	bharjrs@nitj.ac.in
Dr Rajeev Kukreja	Associate Professor & Head	Ph D(IITD)	kukrejar@nitj.ac.in
Dr.Raman Bedi	Associate Professor	PhD (NITJ)	bedir@nitj.ac.in
Dr S K Tiwari	Associate Professor	PhD (NITJ)	tiwarisk@nitj.ac.in
Dr Subhash Chander	Associate Professor	PhD (IITD)	chanders@nitj.ac.in
Dr Sarbjot Singh Sandhu	Assistant Professor	Ph D (IITD)	sandhuss@nitj.ac.in
Dr. Sumit Sharma	Assistant Professor	Ph.D (NITJ)	sharmas@nitj.ac.in
Dr. Saurabh Kango	Assistant Professor	Ph.D (NITH)	kangos@nitj.ac.in
Dr. Nitin Sharma	Assistant Professor	Ph.D (NITH)	sharman@nitj.ac.in
Dr. Dwesh Kumar Singh	Assistant Professor	Ph.D (ISMD)	singhdk@nitj.ac.in
Dr Manoj Kumar	Assistant Professor	Ph.D (IITK)	kumarm@nitj.ac.in
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Dr Sanjay	Assistant Professor	Ph.D (MNITJ)	sanjay@nitj.ac.in
Dr Satyender Singh	Assistant Professor	Ph.D (NITH)	satyenders@nitj.ac.in
Dr Ashok Kumar	Assistant Professor	Ph.D (IITD)	baghaak@nitj.ac.in

Academic Programmes

Undergraduate Programme

B Tech in Mechanical Engineering

Postgraduate Programmes

Full and Part Time MTech in Mechanical Engineering Full and Part Time Ph D Programmes in Mechanical Engineering

Laboratories

- Strength of Materials Laboratory
- Fluid Machinery Laboratory

- Heat Transfer and Heat Engine Laboratory
- Theory of Machines Laboratory
- Computer Aided Design Laboratory
- Refrigeration and Air Conditioning Laboratory
- Mechanical Measurements Laboratory
- Vibrations Laboratory
- Automobile Engineering Laboratory
- Experimental Stress Analysis Laboratory
- Automation and Mechatronics Laboratory

Research and Development

The faculty of the department has interest in the following research areas: Mechatronics and Automation, Dynamics & Control, Vibrations, Composite Materials, IC Engines, Refrigeration and Air Conditioning and Combustion ,Machine Design, Robotics, CFD, Alternative fuels for IC Engines, Thermal System Design, Alternative Refrigerants, Heat Exchanger Design, Power Plant Engineering, Welding, Renewable Energy, Bulk Material Handling, Synthesis of carbon Nano tubes and Nano- composite materials, Fatigue of Composite Materials, Active noise control, Active structural-acoustic control, Active vibration control, Vibro-acoustics, Finite element methods, Experimental modal analysis, Finite element model updating, Numerical fluid flow, Continuum Damage Mechanics Model, Dynamic Fracture Mechanics, High Strain Rate Behavior, Large Deformation Elasto-Plastic Impact/Contact Problems, Design and Tribology of Bearings, Porous Journal Bearings, Hydrodynamic Lubrication, Surface Texturing, Non-Newtonian Fluid Rheology, Microfluidics, Nano-fluidics, Thermal comfort, Building Energy Efficiency, Energy Simulations, Sustainable Buildings, Fluid Flow and Heat Transfer Evaluation of Hydrophobic and Super-hydrophobic surfaces, Micro Surface Texturing/Grooving; Non-Newtonian Rheologies of lubricants, Mechanical Behavior of Materials, Molecular Dynamics, Density Functional Theory.

Sponsored Projects

- Modernization of Fluid Machine Laboratory
- Modernization and Removal of Obsolescence of Thermal Laboratory
- Establishment of CAD Laboratory
- Modernization and Development of Automobile Laboratory
- Augmentation of Facilities for Industrial Automation and Mechatronics Laboratory
- Modernization of Thermal Laboratory
- Study of Dynamic Behavior of Composite Materials (Thrust area project)
- Investigation of Damping in Fiber Reinforced Composites (R&D)
- Evaluation of In cylinder Combustion of Bio-diesels (R&D)
- Study on condensation characteristics of refrigerants in Macro and Micro Channels
- FIST program of DST in level-1 of Engineering Science area
- Comparative Performance Evaluation, Emissions and Combustion Characteristics of a Compression Ignition Engine using Castor Biodiesel (SERB sponsored)

13 TEXTILE TECHNOLOGY

aculty			
Name	Designation	Qualification	Email
Dr A Mukhopadhyay	Professor	Ph D (MDU)	arunangshu@nitj.ac.in
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Dr S K Sinha	Professor	Ph D (NITJ)	sinhask@nitj.ac.in
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Dr KVP Singh	Assistant Professor	Ph D (NITJ)	singhkv@nitj.ac.in

Academic Programmes

Undergraduate Programme B Tech in Textile Technology Postgraduate Programmes MTech (Full Time) in Textile Engineering and Management, MTech (Part Time) Textile Technology Ph D Programmes- Full Time and Part Time

Laboratories

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

- Fiber Science Laboratory
- Garment Manufacturing Laboratory
- Advanced Fabric Research Laboratory

Research and Development

The department conducts upbeat research in basic spinning, weaving, chemical processing, fibre reinforced composites, sewing threads, seam characterization, compression bandages, fibre shedding during knitting, friction spun yarns, garment manufacturing techniques and also on technical textiles like aerosol filtration, geotextiles surgical gowns, antimicrobial textiles, etc.

Sponsored Projects (Completed)

- Study of Fiber characteristics to optimize the mixing proportion to improve yarn quality and productivity- MHRD Govt. of India.
- Engineering Design of Friction Spun Yarn suitable for Knitted Fabric MHRD, Govt, of India.
- Development of Needle punched non-woven blanket fabric MHRD, Govt. of India.
- Designing Non-woven Fabric for pulse jet filtration MHRD, Govt. of India.
- Optimization of Production Process of PP / Carbon Nano-fibre composite Filament MHRD, Govt. of India.
- Technology Gap Analysis Study in the Bicycle parts manufacturing cluster in Ludhiana, TIFAC, Govt. of India.
- Technology Gap Analysis Study of Sewing Machine Cluster at Ludhiana, TIFAC, Govt. of India.

Projects (Ongoing)

- Fund for improvement of S&T infrastructure in universities, and higher Education (FIST) project DST Govt. of India.
- Design of Pulse-jet Filtration Apparatus- DST Govt. of India
- Development of Positive thread feeding device for Sewing Machine, DST Govt. of India
- Designing of Fabric Tensile Impact Testing Instrument, DST Govt. of India
- Designing of Fabric Wet Abrasion Tester, CSIR Govt. of India

CENTRES & OTHER FACILITIES

14. PHYSICAL EDUCATION & SPORTS

Faculty & Staff

Name	Designation	Qualification	Email
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 4th 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 is 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) 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

e) 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)

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

3. INDOOR GAMES FACILITIES (BOYS & GIRLS)

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.
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	Weight training gymnasium is available in the students Activity Centre, fully	
	facilities			equipped with Modern Weight Training equipments.	

5. RESEARCH AND DEVELOPMENT

The Faculty member of the department are actively engaged in guiding research in the areas of Physical Education and Sports i.e. Olympics games, Asian Games, National Games, Inter-University Games, Psychology Study, Physiology Study, Heart Rate Variability Study Measurement Study, Height Weight and Strength Study and Physical Fitness etc. in different games.

6. UPCOMING GAME FACILITIES:-

- 1. Sports Stadium and Office
- 2. Cricket Stadium with Flood Light

- 3. Synthetic Basketball Courts Two
- 4. Synthetic Lawn Tennis Courts Two
- 5. Swimming Pools
- 6. Water Sprinkling System

15. NCC (National Cadet Corps)

Faculty

Jany						
Name	Designation	Qualification	Email			
Dr Dinesh Kumar Shukla	Professor In-charge	PhD	shukladk@nitj.ac.in			

The Institute had the NCC with the SD (Senior Division) wing with cadet's strength of 105 (both Boys & Girls). The NCC is a youth development movement. It has enormous potential for nation building. The NCC provides opportunities to the youth of the country for their all-round development with sense of duty, Commitment, Dedication, Discipline and Moral values so that they become able leaders and useful citizens. The NCC provides exposure to the cadets in a wide range of activities with a distinct emphasis on Social Services, Discipline and Adventure Training. The NCC is open to all regular students of the Institute on a volunteer basis. The students have no liability to active military service. Based on the aims of NCC, the Organization has laid down Training Syllabi for the cadets. The syllabus for the Senior Division is three years. Except for minor variations, the syllabus is similar for both Boy and Girl cadets. The training year is w.e.f. 01 Apr to 31 March. Training schedules planned for cadets ensure that the optimum benefits of the organization reach maximum number of cadets. On successful completion of the laid down syllabi, cadets of Senior Division are eligible for 'B' & 'C' certificate examinations.

Eligibility Conditions for Certificate Examinations

Certificate 'B'

- i. The cadet must have attended a minimum of 75 of total training period laid down in the syllabus for the first and second years of Senior Division Wing NCC (All Wings).
- ii. Break in the NCC Service of the cadets prior to his appearing in the examination should not exceed more than 12 months at one time.
- iii. The candidate must have attended one ATC.
- iv. Cadets possessing 'A' certificate will be awarded 10 bonus marks.

Certificate 'C'

The candidate must be in possession of Certificate 'B'.

The cadet must be in the third year of SD/SW NCC Training.

The cadet must have attended a minimum of 75% of the periods of 3rd year syllabus during the academic session.

Break in the NCC Service of the cadet SD/SW prior to appearing in the exam should not exceed more than 18 months at one time.

The cadet must have attended one ATC and one of the other listed national camps.

16. NSS (National Service Scheme)

Facul	ty

Name	Designation	Qualification	Email
Dr Lakhwinder Pal Singh	Assistant Professor	Ph.D (NITJ)	singhl@nitj.ac.in

NSS is a non-credit mandatory requirement towards the completion of B Tech degree. Total hundred hour's activities are to be completed in the first year of registration. The Main objectives of National Service Scheme (NSS) are:

- Understand the community in which they workUnderstand themselves in relation to their
- community
 Identify the needs and problems of the
- community and involve them in problem-solving
- Develop among them a sense of social and civic responsibility
- Utilize their knowledge in finding practical solutions to individual and community problems

The various activities which were undergone by the students are:

- i. First Aid Training (Red Cross Society)
- ii. Polio Camp vaccination campaign
- iii. Blood Donation
- iv. Horticulture
- v. Eye-check-up Camp
- vi. Expert Lectures on various social issues
- vii. Transforming Society by Imparting Social Values
- viii. Cultural Activities

- Develop competence required for group-living and sharing of responsibilities
- Gain skills in mobilizing community participation
- Acquire leadership qualities and democratic attitudes
- Develop capacity to meet emergencies and natural disasters and
- practice national integration and social harmony
- ix. Yoga and Meditation
- x. Physical Education
- xi. Recreating Activities
- xii. Adoption of Children (poor background) for education
- xiii. Campus cleaning
- xiv. Tree plantation

17. COMPUTER CENTRE

Faculty

Name	Designation	Qualification	Email
Dr Geeta Sikka	Head	PhD (NITJ)	sikkag@nitj.ac.in
Ms Daljeet Kaur	System Analyst	MCA (GNDU)	daljeetkaur@nitj.ac.in
MrBhupinderjit Singh	Scientific Officer	M.Tech (NITJ)	bhupinderdhani@nitj.ac.in
Mr Ashwani Sharma	Technical Assistant (SG-1)	MCA	ashwanisharma@nitj.ac.in
Mr Subhash Yadav	Technical Assistant (SG-1)	MCA, MCSE	yadavs@nitj.ac.in
Mr Hemant Thapar	Technical Assistant (SG-1)	MCA	thaparh@nitj.ac.in

The Main assignments and activities of this centralized facility are to:

- Managing the operation of Computing & Networking facilities for the students, departments and administration
- Providing Technical assistance to various users regarding Operating System, Security issue
- Maintaining Computing as well as Peripheral Devices
- Managing ERP Operations
- Managing Institute website as well as e-mail facility on JITJ Domain
- Providing field level network maintenance throughout the campus

For conducting these tasks satisfactorily, computer center make use of a wide range of computer facilities. The institute has chosen a system based on work stations under Sun Solaris, Windows, Linux, which provide the interconnection and exchange of data between the various systems and enable us to provide our users with working environments adapted to their requirements and the students with tools reflecting the standards of the computer industry.

The Dr B R Ambedkar National Institute of Technology visualizes centralized computing facility, campus wide networking and information technology as a means to enrich the educational experience and invigorate emerging areas of scholarly research and education. Telecommunication and IT is a mixture of tools that can improve the nature and efficiency of country and institute as well.

The campus wide Networking consisting of Academic Zone, Hostel Zone and Residential Zone with fiber optics as backbone along with Managed Layer 3/4 switches is installed. There are approximately 2250 nodes. In addition, two new hostels have also been added (Girls Hostel on Wi-Fi) and extension of Hostel No.7) Internet bandwidth 300 Mbps (1.1) with fiber connecting Leased Line is being used to cater the demand of Internet facility of the institute

For the Computational Services Centre has High End Computational Servers on which accounts are given to students, staff and faculty. The Campus Wide Network connects to Departments, and Centre. Network Connectivity is also provided to the remote locations, which include both boys and girls Hostels and residential area. Computer Centre manages and administers the Internet links and the internet services such as electronic mail, World Wide Web, DNS, FTP and other services. Centre manages the Proxy servers' ad mail relay servers for the above services. Recently Cyberoam UTM has been installed for authenticity and managing users' connectivity to the internet connection. Computer Centre has created the facility of video conferencing for the students, faculty and staff members.

Center provides various advanced and special purpose software such as Oracle 10g, NMS etc. for all the campus users. Centre also provides computer and network facilities to various festivals, events and seminars held at Institute lecture theatre and at department and centers.

Hardware and Software

15 Sun Servers & 05 HP Servers Powered on Red Hat Enterprise Linux 4.0/5.0 Enterprise Server, Microsoft Windows 2003 Server and Fedora. In additional Sun Storage Server StorEdge 3500 acts as storage Server. The various software's catering to the needs of the students such as Oracle 10g, Visual Basic, .Net, Visual C++, C++, Prolog; MS Office etc. are installed on the machines. 10 Sun Spark Workstations and 150 Nos High end 64-bit machines, 50 P V Duo Core and other infrastructure such as High end printers, Plotter and scanners constitute to the students need. Computer Centre has also signed MSDN Academic alliance for 3 years with Microsoft. Network Anti-Virus Quick Heal secures the machines from virus.

Working Hours (Monday to Friday): 08.30 AM to 05.30 PM

18 CENTRE OF TRAINING AND PLACEMENT

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

Faculty

	Name	Designation	Qualification	Email
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Dr A Mukhopadhyay	Professor In-charge	Ph D	ctp@nitj.ac.in
Dr. Rajeev Trehan	Assistant Professor	Ph D (NITJ)	trehanr@nitj.ac.in

Placement Details 2016-17 (Till June 2017)

Discipline	No. of Eligible Students	No. of Job Offers	No. of Double Job offers	No. of Students Placed
ECE	82	73	8	65
CSE	79	97	18	79
IT	26	24	3	21
CHE	72	31	3	28
ICE	56	66	20	46
CIVIL	65	30	1	29
IPE	68	31	0	31
ME	71	65	13	52
BT	32	16	1	15
TT	35	19	0	19
EE	25	20	4	16
Mining	24	7	1	6
Total	635	479	72	407

19. LIBRARY

Name	Designation	Qualification	Email
Dr Sarbrinder Kaur	Librarian	Ph D (GNDU)	kaurs@nitj.ac.in

Library is housed in a multi storied air conditioned building situated in the midst of all departments and hostels and is easily accessible to all/everyone in the campus. The total carpet area of library is 1540 sq. feet. All students, faculty members and staff of the institute are entitled to make use of the library facilities. Industrial establishment/corporate houses can also avail the library services on taking institutional/corporate membership of the library. Library consultation facilities are also available to faculty and students of outside institute/ organization on request.

Library Hours: 9.00 AM to 9.00 PM.

Extendable till 12.00 midnight during examinations days.

Library Resources and membership: The library has 1, 28, 635 volumes comprising of books, standard. Theses, CD-ROM, bound volumes of journals and videocassettes pertaining to various disciplines of Science, Engineering and Technology. Central Library catered to the information needs of about 3995 members during the current academic year.

Video Library and E-media resources center: The institute library is equipped with video viewing facility also. Audio-Visual section is equipped with 29" T.V> & VCP, Multimedia Projector, Projection screen etc. It has a collection of about 1994 videocassettes. CDs., and DVDs. Library has a well- equipped e-medial resources center to provide access to virtual resources.

Print Journal and Access to Electronic Journals: The institute Library subscribes to about 89 current journals and magazines in print form and almost all dailies. In addition to the above, with the help of special financial aid from MHRD. Library provides the online access to the various electronic resources being published by almost all the major publishers of the world in all subjects of Engineering, Technology, Sciences, and Management etc.

20. CENTRAL WORKSHOP

Faculty			
Name	Designation	Qualification	Email
Dr Joseph Anand Vaz	Chairman Central Workshop	Ph D	anandvaz@nitj.ac.in
Dr Vishal S Sharma	Faculty Inchage	Ph D	sharmavs@nitj.ac.in

In this dynamic world, Technology plays a significant role in the learning. It is an established fact that one can have a strong grip on the concept of science and technology by seeking logic and reasoning behind them rather than just mugging them up. The youth of today is brimming with curiosity and inquisitiveness. They are perpetually on the move. The rapid pace of technological advancement has made it imperative for us to be well informed in the global scenario. Each day in our life dawns with new challenges to be faced. One needs to be geared up to face these challenges with determination, righteousness and well directed thoughts. All these geared mechanisms are boosted only with the help of practical aspects which are only and only possible on the floor of "*workshop*" A workshop is an informative or instructional class focused on teaching specialized skill or exploring a particular subject.

The workshop has eight constituent shops viz, Carpentry Shop, Electrical Shop, Fitting Shop, Foundry Shop, Machine Shop, Sheet Metal Shop, Smithy Shop, Welding Shop and a part from the Tool Room facilities available in the department of Industrial and Production Engineering. The Tool Room has CNC Lathe, EDM Wire-Cut and EDM Spark Erosion Machines. Tool and Cutter Grinder is also available in the workshop.

B Tech Ist year student undergo two weeks training program during summer vacation at the Central workshop after the completion of second semester. This is mandatory Non-credit course for students. B Tech major and minor projects of especially Mechanical engineering and Industrial & Production Engineering are Manufacture and Fabricated in the Central workshop. In addition to the above mentioned program. The B.Tech, M.Tech, PhD students are enrolled in Central workshop for to complete their projects, thesis work respectively.

ABBREVIATIONS

AMU	Aligarh Muslim University, Aligarh	KU	Kanpur University, Kanpur
BITS	Birla Institute of Technology and Science,	KUK	Kurukshetra University, Kurukshetra
Pilani		MU	Marathwada University, Aurangabad
CU	Calcutta University, Calcutta	NU	Nagpur University, Nagpur
CLRI Chennai	Central Leather Research Institute,	PAU	Punjab Agricultural University, Ludhiana
	Davi Abilya Viawayidyalaya Jadara	PBIU	Punjabi University, Patiala
DAV		PTU	Punjab Technical University, Jalandhar
DU	Delhi University, Delhi	PU	Punjab University, Chandigarh
GNDU	Guru Nanak Dev University, Amritsar	SUK	Shivaji University, Kolhapur
GU	Gulbarga University, Karnataka	TIFT	Thapar Institute of Engineering
HBTI	HBTI Kanpur	&Technology, Pa	tiala
IITD	Indian Institute of Technology, Delhi	TITS	Technological Institute of Textile and
IITK	Indian Institute of Technology, Kanpur	Science, Bhiwani	
llTKh	Indian Institute of Technology Kharagpur	UOR	University of Roorkee, Roorkee
IITR	Indian Institute of Technology, Roorkee	RU	Ranchi University, Ranchi
IU	Indore University	UR	University of Rajasthan, Rajasthan
ISM	Indian School of Mines, Dhanbad	VTU	Visvasraya Technological University,
JNU	Jawahar Lal Nehru University	Belgaum	

NIT Jalandhar IT infrastructure usage Policy

NIT Jalandhar endeavors to provide all faculty, students and staff with a modern, fully networked computing and IT environment for academic use.

Users of NITJ computing, networking and IT facilities are expected to abide by the following rules, which are intended to preserve the utility and flexibility of the system, protect the privacy and work of students and faculty, and preserve our right to access the international networks to which the system is connected. In case of complaints, appropriate action to be taken will be decided and taken by the person in-charge of the facility in consultation with the Director, Dean of Planning & Development, Dean of Students Welfare and System Administrator as appropriate.

- 1. Faculty, staff, and students with authorized accounts may use the computing and IT facilities for academic purposes, official Institute business, and for personal purposes so long as such use
 - □ does not violate any law, Institute policy or IT act of the Government of India.
 - does not interfere with the performance of Institute duties or work of an academic nature (as judged by the NIT, Director).
 - does not result in commercial gain or private profit other than that allowed by the Institute.
- 2. Users are expected to respect the privacy of other users and they may not allow any other person to use their password or share their account. It is the users' responsibility to protect their account from unauthorized use by changing passwords periodically and using passwords that are not easily guessed. Sharing of passwords for any purpose whatsoever is strictly prohibited. Users may share the required files through a sharing software with proper ACL (Access control list).
- Any attempt to circumvent system security, guess others' passwords, or in any way gain unauthorized access to local or network resources is forbidden. Users may not use another person's computing account, attempt to forge an account identity, or use a false account or e-mail address.
- 4. Transferring copyrighted materials to or from the NITJ systems without express consent of the owner is a violation of international law. In addition, use of the internet for commercial gain or profit is not allowed from an educational site. If done so, it will be sole responsibility of the user.
- Downloading and installing of new software has to be done with the explicit consent of the respective facility in-charges. Installation of unlicensed software on NITJ facilities, or on individual machines connected to the NITJ network, is strictly prohibited.
- 6. Setting up of any facility requiring password transmission over clear text is prohibited.
- 7. To the extent possible, users are expected to use only their official email addresses provided by NIT Jalandhar for official communications with other members of the Institute.
- 8. It is forbidden to use electronic mail and other network communications facilities to harass, offend, or annoy other users of the network, including impeding their computing systems, software, or data. Chain letters are not allowed. Neither is any form of commercial advertising, or soliciting allowed. Spamming is strictly disallowed. Subscribing to mailing lists outside the Institute is an individual's responsibility. Subscribing someone else to any group outside NIT Jalandhar is illegal.
- 9. It is forbidden to send frivolous or academically unimportant messages to any group. Broadcast of messages to everyone in the system is allowed only for academic purposes and emergencies. Violations of this (as decided by concerned authorities) will result in immediate freezing of user's account for an extended period as determined by the authorities.
- 10. Shared email accounts for any purpose whatsoever are not allowed. Any special accounts, if need to be set up for conferences and other valid reasons as determined by the institute authorities, must have a single designated user.
- 11. Recreational downloads and peer to peer connections for recreational purposes are banned.
- 12. To the extent possible, users are expected to connect only to the official NITJ Wi-Fi network for wireless access. Setting up of unsecured Wi-Fi systems on the NITJ network is prohibited in accordance with a Government of India ban.
- 13. Users are expected to take proper care of equipment, and are expected to report any malfunction to the staff on duty or to the in-charge of the facility. Users should not attempt to move, repair, reconfigure, modify, or attach external devices to the systems.
- 14. NO FOOD OR DRINK is permitted in the laboratories. Smoking is strictly prohibited. Also making noise either through games/ music or even talking and/ or singing loudly is prohibited.

- 15. Playing of Games in Institute laboratories or using Institute facilities is strictly prohibited. Internet chat is also banned.
- 16. Display of offensive material (either on computer screens or through posters etc.) is strictly disallowed and serious action will be taken against offenders.
- 17. Violations of policy will be treated as academic misconduct, misdemeanor, or indiscipline as appropriate. Depending upon the nature of the violation, the institute authorities may take an action by issuing a warning through disabling the account. In extreme cases, the account may be completely deleted and/ or the user prohibited access to IT facilities at NITJ, and/ or sent to the Institute disciplinary action committee as constituted by the Institute authorities.
- 18. The policy may change as and when it is considered appropriate and new policies or the changes in policy will take effect immediately after a brief announcement by any means, e-mail, printed notices, or through the news groups.

Dr B R A National Institute of Technology, Jalandhar

Computer Centre

Undertaking with respect to NIT, Jalandhar IT Usage Policy

Whom this Document Concerns

All Users of IT infrastructure (Computers and the Network) at NIT, Jalandhar.

Reason for Policy

This policy outlines the responsible use of the Information Technology Infrastructure at NIT, Jalandhar.

Statement of Policy

All users of NIT, Jalandhar will be subject to the following Acceptable Use Policy

- 1.[Content] I shall be responsible for all use of this network. In case I own a computer and decide to connect it to NIT, Jalandhar network, I will be responsible for all the content on it, especially that which I make available to other users. (This provision will also apply to any computer or device for which I am responsible, and is included in the meaning of "my computer".) In case I do not own a computer but am provided some IT resources by NIT, Jalandhar, I will be held responsible for the content stored in the designated workspace allotted to me (examples: file storage area, web pages, stored/archived emails, on Computer Centre or Department machines).
- 2.[Network] I will be held responsible for all the network traffic generated by "my computer". I understand that network capacity is a limited, shared resource. I agree that physically tampering with network connections/equipment, sending disruptive signals, or making EXCESSIVE USE of network resources is strictly prohibited. Repeated offenses of this type could result in permanent disconnection of network services. I shall not share the network connection beyond my own use and will not act as a forwarder/ masquerader for anyone else.
- 3. [Academic Use] I understand that the IT infrastructure at NIT, Jalandhar is for academic use and I shall not use it for any commercial purpose or to host data services for other people or groups. Also, I shall not host or broadcast information that might harm others or may be otherwise considered objectionable or illegal as per Indian law.
- 4. [Identity]I shall not attempt to deceive others about my identity in electronic communications or network traffic. I will also not use NIT, Jalandhar IT resources to threaten, intimidate, or harass others.
- 5. [Privacy] I will not intrude on privacy of anyone. In particular, I will not try to access computers (hacking), accounts, files, or information belonging to others without their knowledge and explicit consent.
- 6. [Monitoring] I understand that the IT resources provided to me are subject to monitoring, with cause, as determined through consultation with the NIT, Jalandhar administration, when applicable. The monitoring may include aggregate bandwidth usage to effectively manage limited IT resources as well as monitoring traffic content in response to a legal or law enforcement request to do so. I authorize NIT, Jalandhar administration to perform network vulnerability and port scans on my systems, as needed, for protecting the overall integrity and efficiency of NIT, Jalandhar network.
- 7. [Viruses] I shall maintain my computer on this network with current virus detection software and current updates of my operating system, and I shall attempt to keep my computer free from viruses, worms, Trojans, and other similar programs.
- 8. [File Sharing] I shall not use the IT infrastructure to engage in any form of illegal file sharing (examples: copyrighted material, obscene material). In particular, I have noted the following:

Electronic resources such as e-journals, e-books, databases, etc. made available by the Central Library, NIT, Jalandhar are for academic use. These resources can be searched, browsed, and material may be downloaded and printed as single copies of articles as is done in the case of printed library material. Downloading or printing of a complete book or an entire issue or a volume of one or more journals (called systematic downloading) is strictly prohibited. Use of robots, spiders or intelligent agents to access, search and / or systematically download from the e-resources is also prohibited. Any violation of this policy will result in penal action as per the rules and regulations of the Institute. I am aware that Systematic downloading will result in the publisher blocking the entire community of users at NIT, Jalandhar from accessing these resources.

- 9. [Security]I understand that I will not take any steps that endanger the security of the NIT, Jalandhar network. Specifically, I will not attempt to bypass firewalls and access rules in place. This includes <u>not</u> setting up servers of any kind (examples: web, mail, proxy) that are visible to the world outside the NIT, Jalandhar campus. In critical situations, NIT, Jalandhar authorities reserve the right to disconnect any device or disable any account if it believed that either is involved in compromising the information security of NIT, Jalandhar.
- **10.** [Penalties] I understand that any use of IT infrastructure at NIT, Jalandhar that constitutes a violation of NIT, Jalandhar Regulations could result in administrative or disciplinary procedures.

TELEPHONE DIRECTORY (ALPHABETICAL) Director Office: 1000/1002

А			Bhuninder Singh	9417822409
A Agnihotri	9876082977	2304	Bikram Chand	9888691913
A Bhardwai	0/65758362	2804	Bikram Singh	0876372544
A. Chattorioo	9403730302	2004	Bimla Saini	3070372344
A. Chatumodi	9417091044	4001	Dinia Sain	
A. Chaluivedi	9404000034	4001	C C	
A. Muknopadya	9463283698	3307		0000544500
A.K. Chowdhary	9417710385	3308	Chaman Lal	9988541520
A.K. Jain	9815425163	2904	Chinderpal Kaur	9878399756
A.K. Jana	9417710388	2101	_	
A.K. Tiwari	7508663569	3002	D	
A.P. Singh	9915849178	2303	D. K. Gupta	9464126241
Abhay Sharma	9815944194	1621	Daljeet Kaur	9872222443
Abhinav P Singh	9915240730	3250	Daljit Singh	9779530088
Aditya Prakash	9988600156	2703	Damanjeet Kaur	9872861220
Afzal Sikander	7017638266		Darshan Ram	9872868629
Ajay Bansal	9417223839	2404	Davinder Singh	9815451690
Ajay Gupta	9501030373	2810	Deepak Bharti	9530203200
Aiav K. Sharma	9878402704	2503	Deepak Sahu	8219215064
Aiav K. Trehan	9872462782	3106	Deepti Kakkar	9815753334
Aiay Kumar	9256342789	2954	Dev Dutt	9876261192
Ajay Kumar	8757870464	2001	Dilbag Panchal	9639965310
Alka Bhalla	9878545272	3006	Dilbag Singh	9888492132
Amandeen Singh	88/7238030	0000	Dinag Sharma	181-2600048
Amaricet	0047230030	4052	Dinple Sharma	9501165460
Amarijeet Amarijt Singh	0770420055	4002	Dinesh Dinesh Shukla	0470100403
Amarjit Singh	9779420000	1002	Diriesh Shukia	9410120401 7507000770
Amit Kumar	9019210440	1007	Dwesn Kunai	1521655115
	9070023007	1007	0	
Amit Kumar	9654140757	2311	G	007000007
Amit Kr Singn	9286501979	1010		8978093897
Anand Kumar	9417223818	1612	Ganesh Parsad	9463230633
Anee Mohanty	9703991708		Geeta Partap	9463932479
Anish Sachdeva	9501019873	2808	Geeta Sikka	9888582299
Anita	9501554432	3002	Gian Chand	9646564691
Anji Reddy	8148371241	2417	Giri Babu	9123509181
Anju Bala		1272	Gurbhachan Singh	9872356984
Anshu Sharma	8437046634	2402	Gurdeep Singh	9417115855
Anup Gupta	9464383867	1803	Gurmail Singh	9872331970
Anurag Tiwari	9956356951	2420	Gurmej Singh	9872218066
Arun Khosla	9888068332	2604	Gurnam Singh	9872666628
Arun Ram	9417307889	1213	Gurpreet	9465145877
Aruna Rani	9815319393	2402	Gurpreet Singh	9988694840
Arvind Agnihotri	9876082977	1161		
Arvinder	9464013491	4006	Н	
Arvinder Singh	9988803134	3203	H. M. Mittal	9417119665
Asha Rani	8437687456	2202	Hardiyal Singh	9463538430
Ashish Raman	9888217273	2611	Harinder Ram	9915789981
Ashok Kumar	9478364618	2902	Harleen Dahiva	9888980154
Ashok Kumar	9650632885		Harmesh Bhatt	
Ashwani Sharma	9855589610	3502	Harpreet Singh	9872813073
Avtar Chand	9779401577	1311	Harsh Malhotra	9216055240
Avtar Singh	9418217275	2515	Harsh Manchanda	9876498660
, that enight	0110211210	2010	Harsh Verma	9463001601
B			Hanvinder Sinch	9501551761
B S Kaith	0720624222	2205	Hamont Thanar	9878889/10
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Baijit Kaur	9888823838	1900	Indu Saini	9876950214
Balkar Singh	9780946826	1810	ish Sharma	98/6694///
Balwinder Raj	7589480655	2612		
Bhisham Arora	9914594880	1002		

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J. N. Chakrbortv	9417139036	3304
landish Kumar	9876920903	1802
lagir Singh	0876048830	3158
Jagii Singh	9070940039	0704
Jagwinder Singn	9501103708	2704
Jaidev Sharma	9878504568	2902
Jaspal Aujla	9463364744	3003
Jaspreet Raiput	9464620971	2208
Jaswant Singh (Lib)	9465593708	3601
laswant Singh(Mech)	0815075783	315/
Jaswant Singh(Mech)	0076050000	0104
	9070000900	2406
Jatinder Singh	9888439836	1/11
Jeevan Lata	9815388333	3601
Jitender Kumar	9876850908	2408
Joga Singh	9815779508	1802
Joseph Anand Vaz		3104
lvoti Bharai	0972952159	2207
Jyou bharaj	9072032130	3207
K		
K. V. P. Singh	9592108338	3313
K Senthil	9458948743	2314
Kamboi Chauhan	9815909328	2405
Kamta Parcad	0462769722	1701
	9403700723	0040
Kanish Kapoor	9463359998	2312
Karan Veer	9418003227	
Khushpal Singh	9417016293	2302
Krishan	9569912687	4005
Krishan Giri	9464791468	3102
Krichna Dal	099077/601	2555
	9002774091	2000
Kuldeep Kumar	9461210063	2514
Kuldeep Nagla	9417744002	2911
Kuldeep Singh	9878954203	2654
Kulwant Rai	9872040402	2553
Kulwant Rai Kulwinder Kaur	9872040402 9914142319	2553 1232
Kulwant Rai Kulwinder Kaur	9872040402 9914142319 9463726352	2553 1232 2601
Kulwant Rai Kulwinder Kaur Kulwinder Singh	9872040402 9914142319 9463726352	2553 1232 3601
Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag	9872040402 9914142319 9463726352 9988600485	2553 1232 3601 2705
Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag	9872040402 9914142319 9463726352 9988600485	2553 1232 3601 2705
Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag L	9872040402 9914142319 9463726352 9988600485	2553 1232 3601 2705
Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag L L. P. Singh	9872040402 9914142319 9463726352 9988600485 8288947954	2553 1232 3601 2705 2811
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Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag L L. P. Singh Lakhwinder Singh M M. D. Roy M. K. Jha Madan Lal	9872040402 9914142319 9463726352 9988600485 8288947954 9463447954 9417361680 9417290668 9463574728	2553 1232 3601 2705 2811 2811 3310 2403 1701
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Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag L L. P. Singh Lakhwinder Singh M M. D. Roy M. K. Jha Madan Lal Mahesh Kumar Mahesh Patel	9872040402 9914142319 9463726352 9988600485 8288947954 9463447954 9417361680 9417290668 9463574728 8340774578 9085684240	2553 1232 3601 2705 2811 2811 3310 2403 1701 2310
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Kulwant Rai Kulwinder Kaur Kulwinder Singh Kumar Parag L L. P. Singh Lakhwinder Singh M M. D. Roy M. K. Jha Madan Lal Mahesh Kumar Mahesh Patel Mahesh Sharma Malkiat Singh	9872040402 9914142319 9463726352 9988600485 8288947954 9463447954 9463447954 9417290668 9463574728 8340774578 9085684240 9872772510 9463539209	2553 1232 3601 2705 2811 2811 3310 2403 1701 2310 2955 3302
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Rajiv Jindal	9779914264	2206	Shankuntla Devi		1641
Rajiv Kumar	9557529945	2306	Shashikant Sharma	7018377403	2313
Rajiv Trehan	8146500951	3803	Shashikant Yadav	9757412593	2418
Rajneesh Rani	8146800757	2509	Shawinder Singh	9463764812	2652
Rajni	9914111570	3202	Sheela Tiwari	9779090688	2909
Rakesh	9463535975	4002	Sheetal Soda	9646027171	
Rakesh Kakkar	9988902882	1271	Sheo Kumar	9876125185	3004
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Ram Kewal	9988342654	3802	Shinder Pal Singh	9888022132	3901
Ram Kirpal	9417223865	1712	Shiv Kumar	9317547560	2402
Ram Pal Sharma	9463007880	2502	Subhash Yadav	9872212440	3555
Ram Parsad	9872649809	1232	Sudesh Sharma	9464383820	1232
Raman Bedi	9815981054	3112	Sudhir Kumar	9780248424	2102
Ramesh Kumar	040000000	1000	Sukhjit Kaur	9463632917	1900
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Renu Gunta	8283022833	2405	Sunita	3403230001	2556
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Renu Verma	9780489052	1902	Sunita Rani	9023340974	1214
Rizwan A Khan	9876497242	2308	Suresh Kumar	9417293006	1701
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Roop Pahuia	9988651877	2908	Surinder Sandhu	9915932286	2254
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S. Badhuria	9779030399	2812	Tarlok Chand	9876554611	3555
S. Bajpai	9888895253	2411	Tarro		1211
S. Chander	9417864015	3105	Tarsem Lal	9465238172	2402
S. Ghosh	9463553727	3303	Tarsem Singh	9779531738	3701
S. J. S. Bedi	9815270971	2701	Tarun Sehgal	9814753537	1901
S. K. Pahuja	9888482910	2907	Tejinder Singh	9915766293	1271
S. K. Sinha	9417366906	3306	Tejvinder Singh	9988250721	3602
S. K. Syal	9872011170	4040			
S. K. Tiwari	9815987789	3111	U		
S. P. Singh	9814088475	2305	Uday Bhan	8054476239	3701
S.K. Pahuja	9888482910	2907	Uma Shankar	7837588168	2258
Sangeeta Garg	9872826903	2406	Umesh Ram	9501470990	1252
Sangeeta Handa	9463141755	1272	. <i>.</i>		
Sangeeta Oberoi	9814245310	2209	V	0504440750	
Sanjay	7728991075	1010	Varun Sharma	8591113750	0450
Sanjeev Jetni	9/80/24886	1212	Vijay	9592954485	3159
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Sant Singh Santakh Kumar	9404303034	1311	Vijay Takni	9403066979	2900
Santoch Singh	9000027007	2512	Virondor Singh	9010940000	2250
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Sarabijit S. Dai Sarabijit Singh	9072007347	3204	visital 5. Sharria		2000
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Shailja Bawa	8283821380	2309			

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