



DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY
JALANDHAR
DEPARTMENT OF INDUSTRIAL & PRODUCTION ENGINEERING



Industrial and Production Engineering is emerging as a specialized branch of Mechanical Engineering with an objective of enabling engineers to improve efficiency and effectiveness of both manufacturing and service sector Industries. A strong emphasis is laid on designing of such systems of Man-Machine symbiosis, which facilitate optimum utilization of scarce resources. It is concerned with the design of Man-Machine System that attempts to optimize the resources, which are becoming increasingly scarce.

NEWSLETTER IPE

VISION

THE DEPARTMENT OF INDUSTRIAL AND PRODUCTION ENGINEERING VISUALIZES TO EASE HUMAN LIFE BY THE WAY OF DESIGNING INTEGRATED SYSTEMS AND HIGH END TECHNIQUES IN THE AREAS OF INDUSTRIAL, PRODUCTION AND MANUFACTURING TECHNOLOGY THROUGH EFFECTIVE TEACHING LEARNING PROCESSES AT THE POST GRADUATE AND UNDERGRADUATE LEVEL AND INCULCATE THE RESEARCH ACUMEN AMONG THE STUDENTS

MISSION

TO IMPART WORLD CLASS KNOWLEDGE IN THE AREAS OF INDUSTRIAL, PRODUCTION AND MANUFACTURING TECHNOLOGY BY STIMULATING RESEARCH AND INNOVATION. TO MAKE THE STUDENTS PRODUCTIVE, FLEXIBLE AND CUSTOMER ORIENTED SO THAT THEY CAN APPLY ENGINEERING SKILLS TO DESIGN EFFECTIVE SYSTEMS AND PROCEDURES IN ORDER TO MAKE OUR COUNTRY COMPETITIVE.



**International conference on Humanizing work and work environment
8th -11th Dec, 2016**

Department of Industrial and Production Engineering conducted an International conference on Humanizing work and work environment “HWWE 2016” on 8th -11th Dec, 2016.

FDP/STC AND CONFERENCES

Department of Industrial and Production Engineering organized a short term course on “ANSYS Skilled Programme” from 28- 30 March 2016, Dr Ajay Gupta & Dr S S Bhaduria were the course organizers.

Department of Industrial and Production Engineering organized a short term course on “Fundamentals and Application of Finite Element Method” from 13-17 June 2016, Dr S S Bhaduria & Dr Ajay Gupta were the course organizers.

Department of Industrial and Production Engineering organized a short term course on “Perspectives Machining: Present and Future” from 11-15 July 2016, Dr Vishal Sharma, Dr Ajay Gupta & Dr Anish Sachdeva were the course organizers.

Department of Industrial and Production Engineering organized a short term course on “Operation & Supply Chain Management” on 18-22 July 2016, Dr Arvind Bhardwaj was the course organizer.

Dr Rajeev Trehan of Department of Industrial and Production Engineering organized a workshop on “Soft Skill” delivered by Mrs. Neetu Prabhakar on 30.09.2016



International conference on Production and Industrial Engineering 19th -21st Dec, 2016.

Department of Industrial and Production Engineering conducted an International conference on Production and Industrial engineering “CPIE 2016” on 19th -21th Dec, 2016.

EXPERT TALKS ORGANIZED

Dr Arvind Bhardwaj of Industrial and Production Engineering Department organised an expert talk on “Personality development and motivation” on 9 March 2016 which was delivered by Dr. Rajesh Talwar.

Dr R K Garg of Industrial and Production Engineering Department organised an expert talk on “Fatigue Design of Leaf Springs” on 21 March 2016 which was delivered by Dr. M L Aggarwal.

Dr Sarbjit Singh Bal of Industrial and Production Engineering Department organised an expert talk on “Rapid Proto-typing” on 29 March 2016 which was delivered by Dr. Rupinder Singh.

Dr R K Garg of Industrial and Production Engineering Department organised an expert talk on 13 June 2016 which was delivered by Dr U S Dixit.

Dr Anish Sachdeva of Industrial and Production Engineering Department organised an expert talk on “Personality development and motivation” on 29 August 2016 which was delivered by Mr Anurag Seksaria.

Dr Ajay Gupta of Industrial and Production Engineering Department organised an expert talk on “Autofrettage Processes” on 15 October 2016 which was delivered by Dr U S Dixit.

Dr Sarbjit Singh Bal of Industrial and Production Engineering Department organised an expert talk on “Supply Chain Management in Automotive Industry” on 16 March 2017 which was delivered by Mr Gaurish Salgar.

Vishal S Sharma of Industrial and Production Engineering Department organised an expert talk on “Research Issues in Machining” on 21 March 2017 which was delivered by Dr L Vijay Raghwan.

Dr Ajay Gupta and Dr Shilinder Singh Bhaduria of Industrial and Production Engineering Department organised a three days “ANYSIS Skilled Programme” on 28-30.03.2016 for M. Tech Students by Mr. Satej Nakanekar & Mr Kushal Bahadure.

LIST OF PUBLICATIONS

RP Singh, RK Garg, DK Shukla ; Mathematical modeling of effect of polarity on weld bead geometry in submerged arc welding, Journal of Manufacturing Processes, January 2016, Volume-21, Pages 14–22, doi.org/10.1016/j.jmapro.2015.11.003.

Bhardwaj, Arvind; Learning on Lean Production: A Review of Opinion and Research within Environmental Constraints, Operations and Supply Chain Management, An International Journal, 2016, Vol. 9, No. 1, pp. 61-72

Bhardwaj, Arvind; Technological Implications of Supply Chain Practices in Agri-Food Sector: A Review, International Journal of Supply and Operations Management, April 2016 2(2):720-747 .

Soda, Sheetal; Sachdeva, Anish; Garg, R.K.; Literature Review of Multi Aspect Research carried out on the Concept of GSCM, International journal of Industrial and System Engineering (Inder science publishers), 2016, Volume 23, Issue 2 DOI: 10.1504/IJISE.2016.076404

Soda, Sheetal; Sachdeva, Anish; Garg, R.K.; Implementation of green supply chain management in India: Bottlenecks and remedies, The Electricity Journal, 2016, vol. 29, pp 43–50, DOI: 10.1016/j.tej.2016.05.003

Kumar, Naresh; Sachdeva, Anish; Singh, Lakhwinder Pal; Tripathi, Himanshu; Experimental investigation of effect of roller burnishing process parameters on surface roughness and surface hardness of C40E steel, Int. J. Machining and Machinability of Materials, 2016, Vol. 18, Nos.pp 185-199, DOI: 10.1504/IJMMM.2016.075470

Soda, Sheetal; Sachdeva, Anish; Garg, R.K.; Literature review of multi-aspect research works carried out on the concept and implementation of GSCM, International Journal of Industrial and Systems Engineering, 2016, Vol. 23, No. 2, pp. 223-253, DOI: 10.1504/IJISE.2016.076404

R. Kacker; S. S. Bhaduria; Crack Tip Constraint for Anisotropic Sheet Metal Plate Subjected to Mode-I Fracture, Journal of Solid Mechanics, Spring 2016, Article 12, Volume 8, Issue 2, Page 384-402

GurRaj Singh, Vishal S. Sharma: Analyzing machining parameters for commercially pure titanium (Grade 2), cooled using minimum quantity lubrication assisted by a Ranque-Hilsch vortex tube, International Journal of Advanced Manufacturing Technology, February 2017, Volume 88, Issue 9, pp 2921–2928, DOI: 10.1007/s00170-016-8982-9

Gaurav Garg, Ajay Gupta, Rahul S. Mor, Rajeev Trehan; Execution of SMED on Corrugation Machine in Cardboard Box Manufacturing Company: A Case Study, International Journal of Lean Enterprise Research (Inderscience)-Accepted. 2017

Kacker, R., & Bhaduria, S. S.; Triaxiality at crack tip for combined Lankford's coefficient and degree of anisotropy subjected to mixed-mode (I/II) fracture. Mechanics of Advanced Materials and Structures, 2017, 24(3), 212-227.

Bhardwaj, Arvind; Green supply chain management related performance indicators in agro industry: A review- Journal of Cleaner Production, 10 January 2017, Volume 141, pp 1194-1208

Bhardwaj, Arvind; Perception towards Occupational Hazards and Usage of Personal Protective Equipment among Roadside Welders- Journal of Industrial Safety Engineering. 2017; 4(1): 15–20p

SHORT TERM COURSES/WORKSHOPS CONFERENCES ATTENDED

Dr Lakhwinder Pal Singh of Industrial and Production Engineering Department attended an international conference (Humanizing Work and Work Environment 2015) organized by IIT Bombay on 06-09 Dec 2015.

Dr Ajay Gupta of Industrial and Production Engineering Department attended XLTURN organized by MTAB Engineers Pvt. Ltd. Chennai on 04-08 Jan. 2016.

Dr Vishal S. Sharma of Industrial and Production Engineering Department attended XLTURN organized by MTAB Engineers Pvt. Ltd. Chennai on 04-08 Jan. 2016.

Dr Sarbjit Singh Bal of Industrial and Production Engineering Department attended Building Global Enterprise-India organized at Mumbai on 23-26.05.2016.

Dr Vishal S. Sharma of IPE attended a course on Control Engineering Analysis & Design with Simulink organized by Indian Institute of Space Science & Technology, Kerala on 17-20.05.2016.

Dr Anish Sachdeva of IPE attended International Congress on Engineering and Technology organized at Goa on 11-12.05.2016.

Dr Sarbjit Singh Bal of Industrial and Production Engineering Department attended a course on Building Creating Successful New Products organized at IIM Bangalore on 11-13.07.2016.

Dr Lakhwinder Pal Singh of Industrial and Production Engineering Department attended a course on Building Creating Successful New Products organized at IIM Bangalore on 11-13.07.2016

Dr R K Garg of Industrial and Production Engineering Department attended Executive Education Programme on "Manufacturing Excellence: The Path to Make in India" organized at IIM, Bangalore on 03-05.08.2016.

Dr Ajay Gupta of Industrial and Production Engineering Department attended a short course on Fundamental and Advanced Concepts of Lean Manufacturing and Six Sigma organized at NIT, Tiruchirappalli on 25-30 July 2016.

Dr Lakhwinder Pal Singh of IPE attended a short course on Supply Chain Management organized at IIM, Ahmedabad on 03-08.10.2016.

Dr Sarbjit Singh Bal of IPE attended a short course on Supply Chain Management organized at IIM, Ahmedabad on 03-08.10.2016.

Dr Lakhwinder Pal Singh of Industrial and Production Engineering Department attended a short course on Respiratory Health of Brick Kiln Male Workers: A study on Indian Unorganized Sector organized at ICSSH Dubai on 17-18.12.2016.

		Nitesh
		Raghav Garg
		Ram Parman
		Vyomkesh
		Prakhar

Date	Event name	2nd Year	3rd Year	4th year
04/07/16 TO 09/07/16	SupraSAE India BIC Noida	Anand Kumar	Sameer Sarpal	Abhinav Saini
		Sanjeev Kumar	Samrat Vij	Anush Gunalan
		Braj raj	Phani Krishna	
		Harshit Goyal		
21/01/16 To 25/01/16 Season 1	EFFI Cars UIET Chandigarh	Rohit Kuri	Anantdeep singh	Sushant Bhalla
		Shubhan Dhiman	A.P Devrari	Jashanpreet Singh
21/10/16 To 23/10/16 Season 2		Rishav Singh	Gaurav pandey	Ankit Chouhan
		Ramni vas Kumavat	Keshav Raheja	Sudhanshu Kumar
		Sai Krishna	Rajat	Manpreet Singh
		Rajat Rai	Shivam Behl	Kartik Maheshwari
		Tayyab	Lakhwinder Brar	Gurwinder singh
				Nitin Kumar
28/03/2016 To 29/03/2016	ESVC-17		Hardeep Singh	Ankit Chouhan
	Electric Solar Car Vehicle Championship		Prakhar Srivastava(Captain)	
			Manpreet Singh	
			Maninder Sharma	
			Deepak Sharma	
			Piyush Bhardwaj	

STUDENT ACTIVITY/ ACHIEVEMENT

Date	Event	Participant (IPE)
21/10/16 TO 23/10/16	Best Engineers	Kavita
		Manpreet Kaur
		Dilpreet
		Balwinder
		Harpreet
		Parneet
21/10/16 TO 22/10/16	Dimensions	Saminder Singh
		Damandeep Singh
		Parneet Singh
		Aditi Mahajan
		Piyush Jain
		Manpreet Singh
		Deepak
		Lakshya Marwaha
		Arshdeep Singh
		Raghav
		Ram Parman
		Maninder Sharma
		Harninder Singh
Rohan Seth		
Dilpreet kaur		
21/10/2016	Endurance	Prabhjeet

Selected Student for Placement 2012-16 Industrial & Production Engineering

Sr.no	Date	Name of the Company	Package in Lacs	Selected Student	No. of Students
1	7.08.2015	Power2SME	9	Mayank Chugh	1
2	23.08.2015	Aqinsights	5.5	Nishu Garg	1
3	30.08.2015	Mu-Sigma	4.5	Ishita Garg	1
4	05.09.2015	Tata Consiltancy Services	3.15	Bavneet	4
				Anubha	
				Aneesh Uppal	

				Vardaan Bansal	
5	06.09.2015	Infosys	3.18	Ajay Kumar	5
				Astik Kumar	
				Mandeep Singh	
				Nayan Miglani	
				Simranjit Singh	
6	13.09.2015	Tata Motors	5.1	Shubham Kapoor	3
				Pooja Chitkara	
				Sukeerat Kaur	
7	16.09.2015	Trident	15	Srikanth Pitti	3
				Nikhil Singla	
				Ronit Kumar	
8	23&24.11.2015	Hero Moto corp.	6.5	Riya	2
				Deepak	
9	27.11.2015	Ashok Leyland	3.4	Phani Mahadevan	1
10	4.12.2015	A.K Vidyamandir	4.25	Arpit Jain	1
11	8.12.2015	Welspun	3.3	Amandeep Singh	8
				Mohd Adil Khan	
				Ranjeet Rajak	
				Rohit	
				Sumit Kumar	
				Rohit	
				Akashy	
				Suraj Kumar Sahu	
12	15.12.2015	D S Group	4	Nikunj Kumar Garg	1
13	26.11.2015	Vedanta	7.2	Aneesh Uppal*	1
14	14&15.1.2016	Pradan	2.6	Kunal Sharma	1
15	4.12.2015	Honda Car	4.8	Sahib Grover	2
				Neeraj Verma	
16		Way2Capital	3.2	Kunal Sharma*	1
17	18&19.1.2016	Jubilant	5.5	Ritesh Mehta	1
18		Orient Electric	5	Anshul Agarwal	1

Selected Student for Placement 2013-17 Industrial & Production Engineering

Sr.no	Date	Name of the Company	Package	Selected Student	No. of Students
1	5.08.2016	EXL Analysis	5.25 Lac	Jyoti Goyal Shivam Maan	2
2	15.09.16	Tata Motors Limited	5-6 Lac	Mehak Mahajan Shubham Kumar	2
3	16.09.16	Mu-Sigma	21 lac (3Y)	Anubhav Nagar	1
4	22.09.2016	Nestle	6 Lac	Abhinav Saini Deepika Uppal	2
5	17&18.10.2016	TCS	3.25 Lac	Nitin Kumar Harsh Gupta Manish Yadav	3
6	7.11.2016	Marshal Machine (p) Ltd.,	3 lac	Amritpal Singh Maganjot Singh Dhemi Randhir Kumar Bharti Dharam Prakash Ankit Chouhan Ashish Verma	6
7	10.11.2016	Welspun	3 Lac	Akshay Vasudeva	1
8	16.11.2016/ 28.11	Hero Motors Limited	6.5 Lac	Shashwat Gaur Narendra Sharma Jagdeep Goyat	3
9	14.1.2017	Jubilant	5.5 Lac	Jashanpreet Singh	1
10	14.1.2017	Subros Ltd	4.05 Lac	Raghunandan Pankaj	2
11	6.2.2017	Vardhman	4.2 Lac	Soumya Sinha Sachin Yadav Sushant Bhalla Gurwinder Singh	4
12	25.2.2017	CatalyseR	5	Ashawani Kumar	1