

**Evaluative Report
of
ELECTRICAL & INSTRUMENTATION ENGINEERING DEPARTMENT**

1. Name of the Department: *Electrical and Instrumentation Engineering*
2. Year of establishment: **1956**
3. Is the Department part of a School/Faculty of the university?: **Yes**
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)

S. No	Academic Program	Established	Started with Intake	Current Intake
1	BE [Electrical Engineering]	1956	30	130
2	BE [Electronics (Instrumentation and Control Engineering)]	1979	15	120
3	ME [Power System and Electric Drives]* ME (Power Systems)	2006-2012 2012	30	30
4	ME [Electronic Instrumentation and Control Engineering]	2004	20	30
5	Ph.D.	1986 **		

*Name of program has been changed, **(TIET, Deemed University)

5. Interdisciplinary programmes and departments involved:
 - *BE (Mechatronics) with Dept. of Mechanical Engg.*
 - *M. Tech. (Energy) with School of Energy and Environment*
6. Courses in collaboration with other universities, industries, foreign institutions, etc.:
 - *Ph. D. Research*
 - *Central Electronics Engineering Research Institute (CEERI), Pilani*
 - *Centre for Energy Studies, New Delhi*
 - *Centre of Scientific Instruments Organisation (CSIO), Chandigarh,*
 - *Council of Scientific and Industrial Research (CSIR), New Delhi,*
 - *Dehradun University of Technology (DIT), Dehradun*
 - *Indian Institute of Technology (IIT), Delhi*
 - *Jamia Millia Islamia Central University, New Delhi*
 - *National Physical laboratory (NPL), New Delhi*
 - *Univ. of Ontario, Institute of Technology, Canada*
 - *ME Dissertation*
 - *Central Electronics Engineering Research Institute (CEERI), Pilani*
 - *Crompton Greaves Pvt. Ltd. (CGL) Mumbai*
 - *DRDO-Institute of Nuclear Medicine & Allied Sciences Defence Science Laboratory (INMAS), Delhi*
 - *National Physical Laboratory (NPL), New Delhi*
 - *Centre of Scientific Instruments Organisation (CSIO), Chandigarh*
7. Details of programmes discontinued, if any, with reasons : **None**

8. Examination System: Annual/Semester/Choice Based Credit System:

Semester

9. Participation of the department in the courses offered by other departments:

S.No.	Course Title	Attended by	Department
1.	Mathematics I	BE (EIC,EE)	SMCA
2.	Engineering graphics	BE (EIC,EE)	MED
3.	Computer Programming& IT	BE (EIC,EE)	CSED
4.	Physics	BE (EIC,EE)	SMPS
5.	Solid Mechanics	BE (EIC,EE)	MED
6.	Communication Skills	BE (EIC,EE)	SBBS
7.	Mathematics II	BE (EIC,EE)	SMCA
8.	Manufacturing Process	BE (EIC,EE)	MED
9.	Chemistry	BE (EIC,EE)	SCBC
10.	Thermodynamics	BE (EIC,EE)	MED
11.	Organizational Behavior	BE (EIC,EE)	SBBS
12.	Human Values, Ethics and IPR	BE (EIC,EE)	SBBS
13.	Numerical and Statistical Methods	BE (EIC,EE)	SMCA
14.	Fluid Mechanics	BE (EIC,EE)	MED
15.	Environmental Studies	BE (EIC,EE)	BTESD
16.	Optimization Techniques	BE (EIC,EE)	SMCA
17.	Total Quality Management	BE (EIC,EE)	SBBS
18.	Computational Engineering Mathematics	ME (PSED/ PS,EIC)	SMCA
19.	Research Methodology	Ph.D.	SMCA
20.	Data Structure and IT	BE (EIC,EE)	CSED
21.	Finite Element Methods in Engineering Analysis	BE (EIC,EE)	SMCA
22.	Advanced Engineering Mathematics	BE (EIC,EE)	SMCA

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Faculty Position Cadre	Sanctioned	Filled	Actual*
Professor	5	2	2
Associate Professors	11	3	3
Assistant Professors	22	20	20
Lecturer (contract)	--	9	9

*(including CAS & MPS)

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance(As on date)

S. No	Name	Designation	Qualification	Specialization	No. of Years of Experience	Ph.D./M.E students guided (last 4 years)
1.	Dr. Smarajit Ghosh	Professor	Ph.D.	Power Systems	18	Ph.D.-4 M.E.-12
2.	Dr. Ravinder Agarwal	Prof essor & Head	Ph.D.	Bio-Medical Instrumentation	21	Ph.D.-2 M.E.-13
3.	Dr. Sanjay Jain	Assoc. Prof.	Ph.D.	Power Systems	15	Ph.D.-01 M.E.-12
4.	Dr. Mandeep Singh	Assoc. Prof.	Ph.D.	Bio-Medical Instrumentation	26	M.E.-13
5.	Ms. Manbir Kaur	Assoc. Prof.	M.E. Ph.D.(Pursuing)	Computer Science	26	M.E.-12
6.	Dr.Gagandeep Kaur	Asstt. Prof.	Ph.D.	Instrumentation and Control	17	M.E.-13
7.	Dr. Sunil Singla	Asstt. Prof.	Ph.D.	Instrumentation and Control	15	M.E.-12
8.	Mr. Parag Nijhawan	Asstt. Prof.	M.E.	Power Systems	15	M.E.-15
9.	Ms. Suman Bhullar	Asstt. Prof.	M.E. Ph.D. (Pursuing)	Power Engineering	13	M.E.-12
10.	Dr. Mandeep Singh	Asstt. Prof.	M.E.	Instrumentation and Control	13	M.E.-14
11.	Dr. Nitin Narang	Asstt. Prof.	M.E.	Power System Instrumentation	10	M.E.-15
12.	Mr. Nirbhow Jap Singh	Asstt. Prof.	M.E. Ph.D. (Pursuing)	Instrumentation and Control	10	M.E.-7
13.	Mr. Moon Inder Singh	Asstt. Prof.	M.E. Ph.D. (Pursuing)	Instrumentation and Control	10	M.E.-8
14.	Mr. Shakti Singh	Asstt. Prof.	M.Tech Ph.D. (Pursuing)	Energy Studies	12	M.E.-4
15.	Mr. Souvik Ganguli	Asstt. Prof.	M.Tech Ph.D. (Pursuing)	Mechatronics	11	M.E.-15
16.	Dr. Deepti Mittal	Asstt.Prof.	Ph.D.	Medical Imaging	10	M.E.-1
17.	Dr. Amrita Sinha	Asstt. Prof.	Ph.D.	Power System Protection	14	M.E.-10
18.	Dr. Prasenjit Basak	Asstt.Prof.	Ph.D.	Power Systems	10	M.E.-4
19.	Dr. Gyan Ranjan Biswal	Asstt. Prof.	Ph.D.	Power System Instrumentation	10	M.E.-0
20.	Dr. Surya Prakash	Asstt. Prof.	Ph.D.	Power Systems	07	M.E.-10
21.	Dr. Jainy Sachdeva	Asstt. Prof.	Ph.D.	Bio-medical Instrumentation	03	M.E.-0
22.	Dr. Saurabh	Asstt. Prof.	Ph.D.	Machine	10	M.E.-4

S. No	Name	Designation	Qualification	Specialization	No. of Years of Experience	Ph.D./M.E students guided (last 4 years)
	Bharadwaj			Learning		
23.	Dr. Mukesh Singh	Asstt. Prof.	Ph.D.	Smart Grid	08	M.E.-6
24.	Dr. Santosh Sonar	Asstt. Prof.	Ph.D.	Power Electronics	06	M.E.-2
25.	Dr. Sangeeta Kamboj	Asstt. Prof.	Ph.D.	Electronics	12	M.E.-
26.	Dr. VishalSrivastava	Asstt. Prof.*	Ph.D.	Image Processing	01	M.E.--
27.	Mr. Vikram Chopra	Lecturer*	M.E., Ph.D. (Pursuing)	Control Systems	07	M.E.-3
28.	Ms. Ruchika	Lecturer*	M.Tech Ph.D. (Pursuing)	Instrumentation and Control	07	M.E.-9
29.	Ms. Navdeep Kaur	Lecturer	M.E. Ph. D. (Pursuing)	Power Systems and Electric Drives	06	M.E.-
30.	Mr. Shailesh Kumar	Lecturer*	M.E. Ph. D. (Pursuing)	Power Systems	03	M.E.-1
31.	Mr. Jitender Kaushal	Lecturer*	M.E. Ph.D. (Pursuing)	Power Systems and Electric Drives	05	M.E.-
32.	Ms. Amita Kumari	Lecturer*	M.E.	Power Engineering	02	M.E.-
33.	Mr. Tapas Choudhury	Lecturer*	M.Tech Ph. D. (Pursuing)	MicroElectronics	05	M.E.-
34.	Mr. ChandraKant Tiwari	Lecturer*	M.E.	Power Systems	02	M.E.-

*(Lecturer - contractual)

12. List of Senior Visiting Fellows, Adjunct Faculty, Emeritus Professors

S. No	Name	Qualification & Specialization
1	Dr. P.S. Bimbhra (Ex. Prof & Dean, TIET, Patiala)	Ph. D. Power Electronics
2.	Dr. V.R. Singh (Director Grade Scientist NPL, New Delhi)	Ph. D. Bio-Medical Instrumentation

13. Percentage of classes taken by temporary faculty - programme-wise information

S.No	Academic Year (semester wise)	Total Subjects*	Subjects taken by Temporary faculty	Percentage
1	July-Dec 2011	37	09	24.32
2	Jan-June 2012	44	17	38.63
3	July-Dec 2012	50	12	24.00
4	Jan-June 2013	48	13	27.08
5	July-Dec 2013	61	13	21.31
6	Jan-June 2014	40	10	25.00
7	July-Dec 2014	64	18	28.00

*Includes both UG,PG programs

14. Program-wise Student Teacher Ratio

Academic Year	Total No. of students in EIED*	Number of Regular Faculty	Student to Teacher ratio
2008-2009	451	25	18.04
2009-2010	523	27	19.37
2010-2011	583	30	19.43
2011-2012	692	26	26.61
2012-2013	684	25	27.36
2013-2014	682	26	26.23
2014-2015	817	34	24.03

*Excluding first year

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

S. No.	Name of technical staff	Designation (Pay-Scale)	Exclusive / Shared work	Date of joining	Qualification		Other Tech. skills	Responsibility
					on Joining	Now		
1	Shyam Lal	Lab Supdt. (9300-34800)	Exclusive	26/07/94	Degree Electronics Engg.	Degree in Electronics Engg.	-	Assist in lab classes, R & M of Lab Equip.
2	L.S. Tripathi	Lab Supdt. (9300-34800)	Exclusive	22/02/83	10+2	B.Tech in Electrical Engg ME(PSED)	-	-do-
3	Gaurav Kumar	Associate (Lab)	Exclusive	15/06/07	Diploma Electrical Engg.	ME (ECE)	-	-do-
4	Kuldip Kumar	Associate (Lab)	Exclusive	02/03/09	Diploma Electrical Engg.	Doing Degree in Electrical Engineering	-	-do-
5	Vipin Kumar	Lab Technician	Exclusive	19/09/13	Diploma in Electrical	Doing A.M.I.E. (Electrical)	-	-do-
6	Jaideep Singh	Lab Technician	Exclusive	18/9/13	Diploma in Electronics	Doing B.Tech in Electronics		-do-
7	Ganesh Singh	Lab Technician	Exclusive	23/09/13	Diploma in IT, B.Sc(IT)	MCA	Computer Networking	-do-
8	Ankur Garg	Lab Technician	Exclusive	01/01/14	B.Tech. Electronics	-	-	-do-

S. No.	Name of technical staff	Designation (Pay-Scale)	Exclusive / Shared work	Date of joining	Qualification		Other Tech. skills	Responsibility
					on Joining	Now		
9	Dalvir Singh	Electrician	Exclusive	28/02/91	Certificate Course	Doing Diploma Electrical	-	-do-
10	Raj Kumar	Lab Attendant	Exclusive	14/10/99	ITI in Electrical	-	-	To look after the Lab Equip.
11	Surbir Singh	Jr. Associate	Exclusive	02/03/09	BA	MSc (IT) & Diploma (ECE)	-	
12	Punam	Clerk	Exclusive	28/11/02	BA	-	-	Adm work of EIED

16. Research thrust areas as recognized by major funding agencies

- *Biomedical Instrumentation*
- *Environment Monitoring Instrumentation*
- *Power Quality*
- *Renewable Energy*

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Ongoing Sponsored Projects						
S.No.	Title	Funding Agency	Date of Start	Amount Rs. (Lac)	Faculty Name	
1.	Particulate matter dose relationship with lung function efficiency of children during ACRB episodes	Indian Council For Medical Research, New Delhi	Aug. 01, 2012	39.18	Dr. Ravinder Agarwal, Dr. Susheel Mittal and Dr. Avnish	
2.	Study and development of SEMG based exoskeleton knee	Department of Science & Technology, New Delhi	March, 2015	38.56	Dr. Ravinder Agarwal and Dr. Hardeep Singh	
3.	Development of wireless embedded system for health monitoring of ambulatory subjects	DRDO-DIPAS, Delhi	March, 2015	09.936	Dr. Mandeep Singhand Dr. M.D. Singh	
4	Process instrumentation of the state of the art integrated cooling system for large generator in power plants	TU, Patiala	July., 2014	04.85	Dr. Gyan Ranjan Biswal	
5	Feasibility study of the problem locations of photovoltaic system in Patiala distribution network considering smart grid environment	TU, Patiala	March, 2015	05.00	Dr. Mukesh Singh	

6	Neuro-fuzzy control in interconnected in power system	TU, Patiala	March, 2015	04.20	Dr. Surya Prakash
7	Devolpment of fatigue detection system	DRDO-DIPAS, Delhi	March, 2015	09.92	Dr. M.D. Singh and Dr. Mandeep Singh

Completed Sponsored Projects						
S.No.	Title	Funding Agency	Date of Start	Date of Completion	Amount Rs. Lacs	Faculty Name
1.	Impact of aerosols and gases pollutants in the atmosphere on physiological parameters of human health due to agriculture crop residue burning in and around Patiala	Department of Science & Technology, New Delhi	June 09, 2006	June 08, 2010	34.74	Dr. Ravinder Agarwal, Dr. Susheel Mittal, and Mr. Prabhat Gupta
2.	Modernization and Removal of Obsolescence Scheme (MODROBS)	All India Council for Technical Education, New Delhi	April 01, 2011	March 31, 2012	06.00	Dr. Ravinder Agarwal
3.	Study and development of above elbow prosthetic arm	Department of Science & Technology, New Delhi	Jan. 04, 2012	March 31, 2015	27.00	Dr. Ravinder Agarwal, Dr. Amod Kumar

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

- *R & D projects in collaboration with NPL, CSIO, DRDO*
- *Academic and research MoU with DRDO-INMAS (in process)*
- *Research and Development MoU with RV College of Engineering, Bangalore (in process)*

b) International collaboration:

- *Academic MoU with Trinity College of Engineering, Dublin, University of Ireland*
- *Research MoU with University of Ontario, Institute of Tech. Canada (In the process)*

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

- **MODROBS – Rs. 6.00 Lakhs (2011-2012)**

20. Research facility / centre with

• **State / National recognition:**

- (i) *Facility for monitoring crop residue burning*
- (ii) *Facility for pressure gauge calibration (up to 800 bar)*
- (iii) *Laboratory infrastructure in High Voltage Engineering*
- (iv) *State of art Laboratory Infrastructure in the area of Power Electronics & Drives*

- **International recognition:**

- *Facility for environment pollution monitoring*

21. Special research laboratories sponsored by / created by industry or corporate bodies:

- ***Embedded System Laboratory sponsored by FREESCALE Semiconductor India Ltd.***

22. Number of papers published in peer reviewed journals (National / International)

S. No	Title of Paper	Journal	Authors
1.	Ambient air quality during wheat and rice crop stubble burning episodes in Patiala	Atmospheric Environment, vol. 43, pp. 243 - 244, 2009	Susheel Mittal, Nirankar Singh, Ravinder Agarwal, Amit Awasthi, Prabhat Kumar Gupta
2.	Effect of rice-straw burning on pulmonary functions of human being in Patiala	Journal of Medical Engineering & Technology, vol. 34, pp. 23-28, 2010	Ravinder Agarwal, Amit Awasthi, Prabhat Kumar Gupta, Nirankar Singh Susheel Mittal
3.	Impact of rice crop residue burning on levels of SPM, SO ₂ and NO ₂ in the ambient air of Patiala	International Journal of Environmental Analytical Chemistry, vol. 90, pp. 829-843, 2010	Nirankar Singh, Susheel Mittal, Ravinder Agarwal, Amit Awasthi, Prabhat Kumar Gupta
4.	Interpretations of wrist operations from Surface-EMG signals at different locations on arm along with acupressure points	IEEE Transaction on Biomedical Circuits and Systems, vol. 4, pp. 101-111, 2010	Ravinder Agarwal, Hardeep Singh Ryait, A.S.Arora
5.	Study of issues in the development of surface EMG controlled human hand	Journal of Materials Science: Materials in Medicine, vol. 20 pp. S107-S114, 2009	Hardeep S. Rayat, A.S.Arora, Ravinder Agarwal
6.	A prospective on voltage regulation of self-excited induction generator for industry applications	IEEE Transactions on Industry Applications, vol. 46, pp. 720-731, 2010	Yogesh Chauhan, Sanjay Jain, Bhim Singh
7.	Effects of agriculture crop residue burning on children and young on PFT's in North West India	Science of the Total Environment, vol. 408, pp 4440-4445, 2010	Amit Awasthi, Nirankar Singh, Susheel Mittal, Prabhat Kumar Gupta, Ravinder Agarwal
8.	Monitoring and grading of tea by computer vision: A review	Journal of Food Engineering, vol. 106, pp 13-19, 2011.	Gagandeep Singh Gill, Amod Kumar, Ravinder Agarwal
9.	Study of size and mass distribution of particulate matter due to crop residue burning with seasonal variation in rural area of Punjab	Journal of Environmental Monitoring, vol. 13 pp. 1073-1081, 2011	Ravinder Agarwal, Susheel Mittal, Nirankar Singh, Khan Singh, Prabhat Kumar Gupta, Amit Awasthi
10.	SEMG signal analysis at acupressure points for elbow movement.	Journal of Electromyography and Kinesiology, vol. 21, pp.868-878, 2011	Hardeep S. Rayat, A. S. Arora, Ravinder Agarwal
11.	Optimizing the rotation and translation of fingerprint images using genetic algorithm	International Journal of Applied Artificial Intelligence, vol. 26, pp. 541-553, 2012	Sunil Singla, Ajat Shatru Arora
12.	Challenges at different stages of an iris based biometric system	Songklanakar International Journal of Science and Technology, vol.34, pp. 189-194, 2012	Sunil Singla, Parul Sethi

S. No	Title of Paper	Journal	Authors
13.	A new efficient method for load-flow solution for radial distribution networks	Przegląd Elektrotechniczny (Electrical Review), vol.12, pp. 66-73,2011	Kultar Deep Singh, Smarajit Ghosh
14.	Voltage stability index and Line loadability index for radial power distribution networks	International Review of Electrical Engineering, vol. 6, pp-3111-3121, 2011	Kultar Deep Singh, Smarajit Ghosh
15.	Secure SIP from DoS based message flooding attack	International Journal of Computer Applications in Engineering Sciences, vol. 1, pp. 112-117, 2011	Ruhul Islam, Smarajit Ghosh
16.	Performance of self-excited induction generator with cost-effective static compensator	International Journal of Science and Technology, vol. 6, pp. 12-27, 2012	Yogesh K. Chauhan, Sanjay K. Jain, Bhim Singh
17.	Genetic algorithm based optimum performance of compensated self-excited induction generator	International Journal of Modelling and Simulation, vol. 31, pp. 263-268, 2011	Yogesh K. Chauhan, Sanjay Jain, Bhim Singh
18.	Improved performance of multilevel inverter based distribution STATCOM with induction furnace load	IET Power Electronics, vol. 6, pp.1-9, 2013	Parag Nijhawan, R.S. Bhatia, D.K. Jain
19.	Effect of varying contrast ratio and brightness non-uniformity over human attention and tunnelling aspects in aviation	International journal of Electronics and Communication Engineering and Technology, vol. 3, pp. 400-412, 2012	Vinod Karar, Smarajit Ghosh
20.	Soft computing based HUD brightness switching system for mitigating tunnelling effect	International Journal of Electronics and Computer Engineering, vol. 3, pp. 919-925, 2012	Vinod Karar, Smarajit Ghosh
21.	Preview control: a Review	Przegląd Elektrotechniczny, vol. R. 89 NR 2a, pp. 134-138, 2013	Vikram, Sunil Singla, Lillie Dewan
22.	Realization of SEMG based multifunctional prototype elbow prosthesis	International Journal of Biomedical Engineering and Technology, vol. 9, pp. 72-87, 2012	Hardeep S. Rayat, A. S. Arora, Ravinder Agarwal
23.	Effects of exposure to rice-residue burning on pulmonary functions and oxygen saturation level of human being in Patiala	Science of the Total Environment, vol. 429, pp. 161-166, 2012	Ravinder Agarwal, Amit Awasthi, Nirankar Singh, Susheel Mittal, Prabhat Kumar Gupta
24.	State-of-the-art in water flow calibration - A review	MAPAN - Journal of Metrology Society of India, vol. 27, pp. 63-76, 2012	S K Jaiswal, Sanjay Yadav , Ravinder Agarwal
25.	Using impedance control method to achieve signal integrity in biomedical equipment	Instrumentation Science and Technology, vol. 40, pp. 476-489, 2012	Surinder Singh, Ravinder Agarwal , VR Singh
26.	Non-destructive grading of black tea based on physical parameters by texture analysis	International Journal of Bio-system Engineering, vol.1, pp. 198-204, 2013	GagandeepSingh Gill, Amod Kumar, Ravinder Agarwal

S. No	Title of Paper	Journal	Authors
27.	Multi –objective short-term hydrothermal generation scheduling using predator-prey optimization	Applied Soft Computing, vol. 21, pp. 1708-1730, 2012	Nitin Narang, J S Dhillon, D.P. Kothari
28.	Multi-objective fixed head hydrothermal scheduling using integrated predator-prey optimization and Powell search method	International Journal of energy vol. 47, pp. 237-252, 2012	Nitin Narang, JS Dhillon, DP Kothari
29.	Operating performance of static series compensated three-phase self-excited induction generator	Electrical Power & Energy Systems, vol. 49, pp. 137-148, 2012	Yogesh K. Chauhan, Sanjay Jain , Bhim Singh
30.	Performance of self-excited induction generator with cost-effective static compensator	International Journal of Science and Technology, vol. 6, pp.12-27, 2012	Yogesh Chauhan, Sanjay Jain, Bhim Singh
31.	Optical character recognition based speech synthesis system using labview	Journal of Applied Research and Technology vol. 12, pp. 919-926, 2014	Sunil Singla, R K Yadav
32.	EEG based biometric framework using time and frequency domain features	Journal of Medical Imaging and Health Informatics. vol. 4, pp. 593-599, 2014	Puneet Mishra, Sunil K. Singla
33.	Artifact removal from biosignal using fixed point ica algorithm for pre-processing in biometric recognition	Measurement Science Review, vol. 13, pp. 7-11, 2013	Puneet Mishra, Sunil Singla
34.	Comparative analysis of tuning a PID controller using intelligent methods	Journal of Medical Imaging and Health Informatics. vol.11, pp. 235-248, 2014.	Vikram Chopra, Sunil Singla
35.	Estimation of tunneling effect due to luminance non-uniformity in head-up displays	Chinese Optics Letters, vol.12, pp. 013301-1 -013301-6, 2014	Vinod Karar , Smarajit Ghosh
36.	Attention Tunnelling: effects of limiting field of view due to beam combiner frame of head-up display	IEEE/OSA Journal of Display Technology vol. 10, pp. 582-589, 2014	Vinod Karar, Smarajit Ghosh
37.	Weight pattern evaluation for multi objective hydrothermal generation scheduling using hybrid search technique	International Journal of Electrical Power and Energy Systems, vol. 62, pp. 665-678, 2014	Nitin Narang, J S Dhillon, D P Kothari
38.	Scheduling short term hydrothermal generation using predator prey	Applied Soft Computing vol. 21, pp-298-308, 2014	Nitin Narang, J S Dhillon, DP Kothari
39.	A statistical model to quantify the effect of pollution loading due to field crop residue burning on PFTs of healthy subjects	MAPAN Journal of Metrology Society of India, vol. 29, pp. 57-65, 2014	Ravinder Agarwal, Amit Awasthi, Susheel Mittal, Nirankar Singh, Prabhat Kumar
40.	Non-invasive technique based evaluation of electromyogram signals using statistical algorithm	International Journal of Advanced Research in Computer Engineering & Technology, vol. 3, pp. 1987-1991, 2014	Tanu Sharma, Karan Veer, Ravinder Agarwal

S. No	Title of Paper	Journal	Authors
41.	Comparative performance analysis of 3-phase cascaded h-bridge multilevel inverters feeding induction furnace load	Wulfenia Journal, vol. 21, pp. 356-368, 2014	Parag Nijhawan , Ravinder Singh Bhatia Dinesh Kumar Jain
42.	Performance comparison of different control techniques based Z-source inverter and multi-pulse converters duo feeding DTC induction motor drive	Ciencia E Tecnica, vol. 29, pp. 254-283, 2014	Aayushee Shokhand , Parag Nijhawan
43.	Investigations on the effectiveness of 12-pulse Z-source converter based DSTATCOM in a distribution network with DTC induction motor drive	Ciencia E Tecnica, vol. 29, pp. 142-155, 2014	Parag Nijhawan Aayushee Shokhand
44.	An information fusion based method for liver classification using texture analysis of ultrasound images	Information Fusion, vol. 19, pp. 91-96, 2014	Mandeep Singh , S Singh , S. Gupta
45.	Performance comparison and analysis of soft output viterbi algorithm (SOVA) and berlekamp massey algorithm	International Journal Global Sci-Tech, vol.1 , pp.129 -135 , 2009	Singh Yaduvir , Randhawa H K S, Bansal P K
46.	Comparative analysis of fuzzy logic based power system stabilizer using different membership functions	International Journal of Computer and Electrical Engineering, vol. 2, pp. 262-267, 2010	Sanjay K. Jain , Neeraj Gupta;
47.	An efficient fuzzy-logic based control of heat exchanger system	International Journal of Digital Image Processing, vol.2, pp.1-10, 2010	Yaduvir Singh , Padhee Subhransu
48.	Non-linear and optimal direct torque control of AC drive using fuzzy-GA	International Journal of Computer Science and Network Security, vol. 9, pp.20- 215, 2009	Yaduvir Singh , Malhotra Rahul ,Singh Narinder
49.	Direct torque control of PWSM with a two level inverter using MATLAB/SIMULINK	International Journal of Engineering and Information Technology, vol. 2, pp. 10-15, 2010	Anit Pal Singh, Shakti Singh , Sarathbabu Duvvuri
50.	Non-linear and optimal direct torque control of ac drive using fuzzy-GA	International Journal of Computer Science and Network Security, vol. 9, pp.20- 215, 2009	Singh Yaduvir , Malhotra Rahul ,Singh Narinder
51.	Classification of cardiac arrhythmia detection using artificial neural network - A Review	International Journal of Neural Networks and Applications, vol. 3, pp. 33-37, 2010.	Mandeep Singh , Vijay Kumar, Manoj Kumar
52.	A novel approach for distribution planning in an unstructured environment	International Journal of Computer and Electrical Engineering, vol. 1, pp.362-367, 2009	Sandeep Chakravorty, Smarajit Ghosh
53.	A hybrid model of distribution planning	International Journal of Computer and Electrical Engineering, vol. 1, pp.368-374, 2009	Sandeep Chakravorty, Smarajit Ghosh

S. No	Title of Paper	Journal	Authors
54.	Fuzzy based efficient load flow analysis	International Journal of Computer and Electrical Engineering, vol. 1, pp.429-434, 2009.	Sandeep Chakravorty, Smarajit Ghosh
55.	Power distribution planning using multi-criteria decision making method	International Journal of Computer and Electrical Engineering, vol. 1, pp.622-627, 2009	Sandeep Chakravorty, Smarajit Ghosh
56.	Secure sip from DoS based message flooding attack	International Journal of Computer Applications in Engineering Sciences, vol. I, pp. 112-117, 2011	Ruhul Islam, Smarajit Ghosh
57.	Violence management through meditation : An analysis	International Journal of Innovation Creativity and Mangement. vol. 1, pp. 69-78, 2011.	Mandeep Singh , Neeraj Pandey, Rajesh Khanna, Anurag Joshi
58.	Principles of QRS detection in ECG: A review	International Journal of Applied Engineering Research, vol. 6, pp. 763-769, 2011	Mandeep Singh , Amit kumar Manocha
59.	Development of stress management lab in India.	International Journal of Applied Engineering research, vol. 6, pp. 1121-1125, 2011	Mandeep Singh , Anurag Joshi, Tanushree Sharma
60.	Some aspect of personality management through acoustic meditation (Nada Yoga): An analysis.	Journal of Engineering and Technology Education, vol. 4, pp. 22-30, 2010	Mandeep Singh , Anurag Joshi, Bharat Bhushan Singla, Gurmit Singh
61.	A novel approach for simulation of Transmission line Compensation	International Journal of Engineering and Technology, vol. 2, pp. 336 – 342, 2010	Parag Nijhawan
62.	A cost effective drive system for brushless dc motor	International Journal of Electrical Engineering vol. 3, pp. 211-220, 2010.	SSSR Sarathbabu Duvvuri, Vikram Chopra, Durga Prasad, Shakti Singh
63.	Biometrics and its issues for disable	SJI Reflections International Journal of Science Technology and Management, vol. 1, pp. 37-41, 2010	Sunil Singla , A. S. Arora
64.	Biometric limitations and solutions	SJI Reflections International Journal of Science Technology and Management, vol. 2, pp. 1-4, 2011	Sunil Singla
65.	Optimized elevator by using PLC and HMI	SJI Reflections International Journal of Science Technology and Management, vol. 2, pp. 35-41, 2011	Sunil Singla , Ajay Kakkar, Piyush Jain
66.	Morphology based approach to recognize number plates in India	International Journal of Soft Computing and Engineering, vol. 1, pp. 107-112, 2011	Mandeep Singh , Phalgun Pandya

S. No	Title of Paper	Journal	Authors
67.	Design of a 9 KW _p grid connected solar photovoltaic power plant using 100 m ² available area in Patiala	Journal of Engineering Research & Studies, vol. 1, pp. 12-27, 2010	Souvik Ganguli, Sunanda Sinha
68.	Estimating the solar photovoltaic generation potential and possible plant capacity in Patiala	International Journal of Applied Engineering Research, Dindigul, vol.1, pp. 253-260, 2010	Souvik Ganguli, Jasvir Singh
69.	Assessment of solar photovoltaic generation potential and estimation of possible plant capacity for 100 m ² available area in Kolkata	Journal of Engineering Research & Studies, vol.1, pp. 82-92, 2010	Souvik Ganguli, Sunanda Sinha
70.	Estimation of annual energy generation from a small grid connected solar photovoltaic power plant in Patiala	Journal of Engineering Research & Studies, vol.2, pp. 43-44, 2011	Souvik Ganguli, Sunanda Sinha
71.	A new approach to calculate online delta time moments from input-output response of plant	Journal of Engineering Research & Studies, vol.2, pp. 25-27, 2011.	Souvik Ganguli
72.	Design of a 11 KW _p grid connected solar photovoltaic power plant on 100 m ² available area in the Birbhum district of West Bengal	Journal of the Institute of Engineering, vol. 8, pp. 105-112, 2011	Souvik Ganguli, Sunanda Sinha
73.	A novel Matlab/Simulink model of a soft switching converter for brushless dc motor drives	International Journal of Advanced Engineering Technology, vol. 2, pp. 164-171, 2011	Souvik Ganguli
74.	Object detection in image using particle swarm optimization	International Journal of Engineering and Technology, vol. 2, pp. 419-426, 2010	Nirbhowjajp Singh, Ankit Sharma
75.	Object detection in image processing using predator prey optimization	International Journal of Signal and Image Processing, vol. 2, pp.205-221,2010	Nirbhowjajp Singh, Ankit Sharma
76.	An overview of anaesthesia ventilator	SJI Reflections International Journal of Science Technology and Management, vol. 2, pp. 10-15, 2011.	Sunil Singla
77.	LabVIEW and its features	SJI Reflections International Journal of Science Technology and Management, vol. 2, pp. 116-120, 2011	Sunil Singla
78.	Application of PI controller based DSTATCOM for improving the power quality in a power system network with induction furnace load	Songklanakarin Journal of Science and Technology, vol.34, pp. 195-201, 2012	Parag Nijhawan, Ravinder Singh Bhatia, Dinesh Kumar Jain
79.	Role of dynamic voltage restorer against voltage dip with induction motor as load	International Journal of Electrical Engineering, vol.4, pp. 617-624, 2011.	Amandeep Bangar, Parag Nijhawan

S. No	Title of Paper	Journal	Authors
80.	Application of dynamic voltage restorer for voltage balancing with ASD load using dqo Transformation	International Journal of Engineering and Technology, vol. 4, pp. 889-898, 2011	Anmol, Parag Nijhawan
81.	A comparative study of the performance of mitigation methods for power quality problems	International Journal of Engineering and Technology, vol. 4, pp. 689-695, 2011	Atul Sood, Shakti Singh, Mandeep Singh
82.	Intelligent induction motor drive	International Journal of Computer Applications, vol.50, pp.7939-1277, 2012	Ruchika, Rohit
83.	P-spice simulation of a resonant converter for switched reluctance motor drive	International Journal of Advanced Engineering Technology, vol. 2, pp. 316-320, 2011.	Souvik Ganguli
84.	Analysis for a c-dump converter for switched reluctance motor drive using P-spice	International Journal of Advanced Engineering Technology, vol. 2, pp. 331-335, 2011	Souvik Ganguli
85.	P-spice simulated bifiler winding converter for switched reluctance motor drive	International Journal of Advanced Engineering Technology, vol. 2, pp. 364-368, 2011	Souvik Ganguli
86.	P-spice analysis of a split dc supply converter for switched reluctance motor drives	International Journal of Advanced Engineering Technology, vol. 2, pp. 372-376, 2011	Souvik Ganguli
87.	Analysis of an asymmetric bridge converter for SRM drives using P-spice simulation	International Journal of Advanced Engineering Technology, vol. 2, pp. 381-383, 2011	Souvik Ganguli
88.	Analysis of a P-spice simulated two-stage power converter for switched reluctance motor drives	Journal of Engineering Research & Studies, vol. 2, pp. 57-62, 2011	Souvik Ganguli
89.	Comparison of the various power converter topologies for a three phase switched reluctance motor drive	Journal of Engineering Research & Studies, vol. 2, pp. 69-71, 2011	Souvik Ganguli
90.	Comparative study of different switching circuit topologies for linear switched reluctance motors	Journal of Engineering Research & Studies, vol. 2, pp. 80-83, 2011	Souvik Ganguli
91.	P-spice analysis of a variable dc-link with buck-boost converter topology for switched reluctance motor drive	Journal Of Engineering Research & Studies, vol. 2, pp. 88-92, 2011	Souvik Ganguli
92.	P-spice analysis of dump converter for switched reluctance motor drives	Journal Of Engineering Research & Studies, vol. 2, pp. 98-102, 2011.	Souvik Ganguli
93.	Comparison of single-switch per phase converter topologies for switched reluctance motor drives	Journal of Engineering Research & Studies, vol. 2, pp. 110-112, 2011	Souvik Ganguli

S. No	Title of Paper	Journal	Authors
94.	Multi-objective generation and emission dispatch using NSGA-II	International Journal of Engineering & Technology, vol. 3, 2011.	Javed Dhillon, Sanjay Jain
95.	Unit commitment using particle swarm optimization	BIOINFO Computational Optimization, vol. 2, pp.09-16, 2012	Vinod Puri, Nitin Narang, Sanjay Jain, Yogesh Chauhan
96.	Micro-turbine generation using Simulink	International Journal of Electrical Engineering, vol. 5, pp. 95-110, 2012	Syed Abdul Sakur, Sanjay Jain
97.	Voltage regulation optimization of isolated induction generator feeding static and dynamic loads	ELEKTRIKA - UTM Journal of Electrical Engineering, vol. 13, pp. 31-39, 2011	Yogesh Chauhan, Sanjay Jain , Bhim Singh
98.	PPG profile investigations for different fingers in a subject	International Journal of Computer Science and Communication, vol. 2, pp 377-379, 2011	Mandeep Singh , Spiti Gupta
99.	Correlation studies of PPG finger pulse profiles for biometric system	International Journal of Information Technology and Knowledge Management, vol. 5, pp. 1-3, 2011	Mandeep Singh , Spiti Gupta
100.	Consistency analysis for determination of ayurvedic doshas using prevalent questionnaires	International Journal of Computer Science and Communication, vol. 2, pp. 403-405, 2011	Mandeep Singh , Anil Anand
101.	Determining trajectory of charged particle in electrostatic scrubber - A simplified approach	International Journal of Electronics Engineering, vol. 3, pp. 169-171, 2011	Mandeep Singh , Kriti Jain
102.	Variation of particle collection efficiency of electrostatic scrubber with coulomb number	International Journal of Electronics Engineering, vol. 3, pp. 177-178, 2011	Mandeep Singh , Kriti Jain
103.	Effect of collector radius on collection efficiency of electrostatic scrubber	International Journal of Electronics Engineering, vol. 3, pp. 195-196, 2011	Mandeep Singh , Kriti Jain
104.	Speckle noise removal and edge detection using mathematical morphology	International Journal of Soft Computing and Engineering, vol. 1, pp. 146-149, 2011.	MD Singh , Arpit Singhal
105.	Classification of Stroke using texture analysis on CT images	International Journal of Soft Computing and Engineering, vol. 2 pp.527-530, 2012	Pramod Bhat, MD Singh
106.	A new quantitative metric for liver classification from ultrasound images	International Journal of Computer and Electrical Engineering, vol. 4, pp. 606-608, 2012	Mandeep Singh , S Singh, S Gupta
107.	Model predictive control; history and development	International Journal of Engineering Trends and Technology, vol. 4, pp. 2600-2602, 2013	Ruchika , Neha Raghu
108.	Compensator design for taming inverse response	International Journal of Information Technology and Knowledge Management, vol.6, pp. 15-17, 2012	Mandeep Singh , Bharti Pant, Ruchika Lamba

S. No	Title of Paper	Journal	Authors
109.	Analysis Van de Vusse reactor using model predictive control	International Journal of Emerging Technology and Advanced Engineering, vol. 3, pp. 236-240, 2013	Ruchika Lamba , Neha Raghu
110.	Comparison of bacterial foraging optimization (BFO) neural network algorithm using HAAR wavelet transform(HWT) in image compression	International Journal for Advance Research in Engineering and Technology, vol. 1, pp. 28-33, 2013	Mukesh Mittal, Ruchika Lamba
111.	Simulation and comparison of control strategies of DVR for compensating voltage sags	International Journal of Research and Technology, vol. 2, pp. 1993-2000, 2013	Ramanpreet Kaur, Parag Nijhawan
112.	Artifact removal from bio-signal using fixed point ICA algorithm from preprocessing in bio-metrci recognition	Measurement Science Review, vol.13, pp. 7-11, 2013	Puneet Mishra, Sunil Singla
113.	Geometric ear recognition system using LabVIEW	International Journal of Advanced Research in Computer Science and Software Engineering vol.3, pp.1340-1344, 2013	Sunil Singla, Sukhdeep Singh
114.	A review of image based fingerprint authentication algorithms	International Journal of Advanced Research in Computer Science and Software Engineering vol.6, pp.553-556, 2013	Sunil Singla
115.	A review on biometrics and ear recognition techniques	International Journal of Advanced Research in Computer Science and Software Engineering, vol.3, pp.1624-1630, 2013	Sunil Singla, Sukhdep Singh
116.	Wavelet based flicker analysis and removal system using LabVIEW	International Journal of Information technology and management research, vol. 4, pp. 135-140, 2012	Amrik Singh, Sunil Singla
117.	A comparative analysis of unimodel and multimodal biometric authentication systems	Journal of High Performance Communication Systems and Networking, vol. 4, pp. 87-89, 2012	Sunil Singla
118.	Hardware implementation of airway pressure monitoring system	International Journal of Emerging Trends in Electrical and lectronics, vol. 4, pp.57-60, 2013	Sunil Singla
119.	Multiprocessor based architecture for controlled switchiing of circuit breaker	International Journal of Engineering Technology and Advanced Engineering, vol.3, pp.553-559, 2013.	Sunil Singla, A Maheshwari
120.	Role of DSTATCOM to improve power quality of distribution network with FOC induction motor drive as a load	International Journal of Emerging Trends in Electrical and Electronics, vol. 5, pp. 83-88, 2013	Rajan Sharma, Parag Nijhawan
121.	Performance analysis of different	International Review of	Parag Nijhawan ,

S. No	Title of Paper	Journal	Authors
	control methods of z-source inverters feeding induction furnace load	Automatic Control, vol. 7, pp. 166-175, 2014	Ravinder Singh Bhatia, Dinesh Kumar Jain
122.	Comparison of SPWM and SVPWM controls for three phase inverter with different loads in distribution Networks	International Journal of Engineering Applications, vol. 1, pp. 288-297, 2013	Parag Nijhawan, Ravinder Singh Bhatia, Dinesh Kumar Jain
123.	Simulation and analysis of ZSI in UPFC for power flow improvement	International Journal of Electrical Engineering, vol. 7, pp. 309-314, 2014	Sunpreet Kaur Kharoud, Parag Nijhawan
124.	Improved performance of ZSI based UPFC for enhanced power flow in Interconnected system	IOSR Journal of Electrical and Electronics Engineering, vol. 9, pp. 50-54, 2014	Supreet Kaur Kharoud, Parag Nijhawan
125.	Effectiveness of DSTATCOM to compensate the load current harmonics in distribution networks under various operating conditions	International Journal of Scientific Engineering and Technology, vol. 2, pp. 713-718, 2013	Rajan Sharma, Parag Nijhawan
126.	Improvement of power quality of distribution network with DTC drive using UPQC	International Journal of Emerging Trends in Electrical and Electronic, vol. 5, pp. 1-6, 2013	Ankush Malhar, Parag Nijhawan
127.	Performance comparison of VSI based DSTATCOM and ZSI Based DSTATCOM in a distribution system network	IOSR Journal of Electrical and Electronics Engineering, vol. 9, pp. 30-35, 2014	Ruban Preet Kaur, Parag Nijhawan
128.	Automatic feature extraction in acceleration plethysmography	International Journal for Computer Science and Communication, vol. 5, pp. 1-9, 2014	Mandeep Singh, Sakshi Bansal
129.	Cognitive assessment techniques	International Journal of Information Technology and Knowledge Management, vol. 7, pp.108-118, 2014	MandeepSingh, Smiti Sachdeva
130.	Cognitive enhancement using odor	International Journal of Information Technology and Knowledge Management, vol. 7, pp. 119-124, 2014	MandeepSingh, Smiti Sachdeva
131.	Changes in asymmetry of brain wave rhythms during different emotions	International Journal of Information Technology and Knowledge Management, vol. 7, pp.125-128, 2014	Mandeep Singh, Smiti Sachdeva
132.	A pilot study on cognitive enhancement using odor as intervention	International Journal of Information Technology and Knowledge Management, vol. 7, pp. 129-132, 2014	Mandeep Singh, Smiti Sachdeva
133.	Cognitive enhancement techniques	International Journal of Information Technology and Knowledge Management, vol. 7, pp. 49-61, 2014	Mandeep Singh, Mahak Narang
134.	Cognitive enhancement using	International Journal of	MandeepSingh,

S. No	Title of Paper	Journal	Authors
	meditation as intervention	Information Technology and Knowledge Management, vol. 7, pp. 62-70, 2014.	Mahak Narang
135.	Changes in brain wave rhythms during task involving attention and working memory	International Journal of Information Technology and Knowledge Management, vol. 7, pp. 71-91, 2014	Mandeep Singh, Mahak Narang
136.	A pilot study on cognitive enhancement using meditation as intervention	International Journal of Information Technology and Knowledge Management, vol. 7, pp. 98-107,2014	Mandeep Singh, Mahak Narang
137.	Emotion recognition along valance axis using naïve Bayes classifier	International Journal of Information Technology and Management, vol. 7, pp. 51-55, 2013	Mandeep Singh, Moonider Singh, Nikhel Singhal
138.	Emotional recognition using electroencephalography(EEG): A review	International Journal of Information Technology and Management, vol. 7, pp. 1-5, 2013	Mandeep Singh, Moonider Singh, Surbhi Gangwar
139.	Feature extraction from EEG for emotion classification	International Journal of Information Technology and Management, vol. 7, pp. 6-10, 2013	Mandeep Singh, Moonider Singh, Surbhi Gangwar
140.	An adaptive speckle suppression filter based on local statistics and edge-map for ultrasound images	American Scientific Publishers, vol.19, pp.2375-2379, 2013	Mandeep Singh, S. Singh, S. Gupta
141.	Detection of exudates and optic disc by mathematical morphology from retinal images	International Journal of Research In Electronics and Computer Engineering, vol.2, p.29-32, 2014	Kritika Saluja, Deepti Mittal
142.	The deployment of microgrid as an emerging power system in India and its simulation using MATLAB-Simulink	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, vol. 3, pp. 9163-9170, 2014	Jitender Kaushal, Prasenjit Basak
143.	Wind energy stabilization using SVPWM based modulated power filter compensator	International Journal of Renewable Energy Research,vol. 1, pp. 433-438, 2014	Fatehbir Singh, Shakti Singh
144.	Sustainable energy plan for a village in Punjab for self energy generation	International Journal of Renewable Energy Research,vol. 3,pp. 640-646, 2013	RahulMishra, Shakti Singh
145.	Steganography using various quantization techniques; A review	International Journal Of Advanced Research In Computer Science And Software Engineering, vol. 3, pp. 26- 30, 2013	Tara bansal, Ruchika Lamba
146.	Review of data acquisition and difficulties in sensor module of biometric systems	Songklanakarin International Journal of Science and Technology, vol. 35, pp. 589-597, 2013	S. Singla, Sunil Singla
147.	Hand geometry based biometrics	International Journal of	Agam Gupta, Sunil

S. No	Title of Paper	Journal	Authors
	using LabVIEW	Advanced Research in Computer Science and Software Engineering, vol. 3, pp. 395-398, 2013	Singla
148.	Real time monitoring of SF6 gas pressure for optimization point on wave switching of SF6 circuit breaker	International Journal of Engineering Trends and Technology, vol.4, pp. 2909-2913, 2013	A. Maheshwari, Sunil Singla
149.	Optical character recognition based speech synthesis system using LabVIEW	Journal of Applied Research and Technology, vol. 12, pp. 919-926, 2014	Sunil Singla , R K Yadav
150.	Power flow control incorporating TCSC using differential evolution	International Journal of Engineering Research & Technology, vol. 2, pp. 296-300, 2013	Abhishek Bhardwaj, Manbir Kaur
151.	Operating performance of static series compensated three-phase self-excited induction generator	Electric Power & Energy Systems, vol. 49, pp.137-148, 2013	Yogesh K. Chauhan , Sanjay Jain , Bhim Singh
152.	Wavelet and short-time Fourier transform comparison-based analysis of myoelectric signals	Journal of Applied Statistics, (accepted 2015)	Atul Bansal, Ravinder Agarwal , R.K. Sharma
153.	Non Invasive Technique Based Evaluation of Electromyogram Signals Using Statistical Algorithm	International Journal of Advanced Research in Computer Engineering & Technology, vol. 3, pp1987-1991, 2014	Tanu Sharma, Karan Veer and Ravinder Agarwal
154.	Determining diabetes using iris recognition system	International Journal of diabetes in developing countries, (accepted 2015)	Atul Bansal, Ravinder Agarwal , R.K. Sharma
155.	Processing and Interpretation of Surface Electromyogram Signal to Design Prosthetic Device	Robotica, vol. 32, pp 1-9, 2014	Karan Veer, Ravinder Agarwal and Amod Kumar
156.	Multiple Weighing Based Method for Realizing Flow	MAPAN - Journal of Metrology Society of India, DOI 10.1007/s12647-014-0122-0, 2015	S. K. Jaiswal, S. Yadav and Ravinder Agarwal

* Monographs

S.No.	Title	Author	Publishing Agency
1.	Electronic Devices& Circuits	Alpana Agarwal and Nitin Narang	TU, Patiala
2.	Circuit Theory	Parag Nijhawan	TU, Patiala
3.	Electromagnetic Field	Sanjay K. Jain	TU, Patiala
4.	Electro-Mechanical Energy Conversion	Yogesh K. Chauhan and Virender Kumar	TU, Patiala
5.	Power Electronics	P.S. Bhimbra	TU, Patiala
6.	Asynchronous Machines	Nitin Narang	TU, Patiala
7.	Switchgear & Protection	Suman Bhullar	TU, Patiala
8.	Microprocessors	R.S. Kaler	TU, Patiala
9.	Electrical Engineering Materials	Parag Nijhawan	TU, Patiala

10.	High Voltage Engineering	Parag Nijhawan and Yaduvir Singh	TU, Patiala
11.	Operation & Control of Power System	Manbir Kaur	TU, Patiala
12.	Artificial Intelligence Techniques	Gaurav Sachdeva	TU, Patiala
13.	High Voltage AC & DC Transmission	Smarajit Ghosh	TU, Patiala
14.	Electric Drives	Smarajit Ghosh	TU, Patiala
15.	Electrical & Electronic Measurements	Ravinder Agarwal	TU, Patiala
16.	Digital Electronic Circuits	Alpana Agrwal and Manbir Kaur	TU, Patiala
17.	Transmission and Distribution of Power	Manbir kaur	TU, Patiala
18.	Power Generation & Economics	Suman Bhullar and Deepak Goel	TU, Patiala
19.	Control Systems	M.D. Singh and Nirbhow Jap singh	TU, Patiala
20.	Synchronous Machines	Manbir Kaur	TU, Patiala
21.	Power System Analysis	Manbir Kaur	TU, Patiala
22.	Instrumentation in Power Systems	Nitin Narang and Nirbhow Jap Singh	TU, Patiala
23.	Advanced Control Systems	Kulbir Singh and Ankush Kansal	TU, Patiala
24.	Energy Management	Suman Bhullar	TU, Patiala
25.	Power Quality Monitoring and Conditioning	Smarajit Ghosh and Shakti Singh	TU, Patiala
26.	Flexible AC Transmission	Virender Kumar	TU, Patiala
27.	Bio-Medical Instrumentation	Ravinder Agarwal	TU, Patiala

Books Authored with ISBN with details of publishers

S. No	Name of author	Title	Publishing house	Year	ISBN No.
1	Dr. Smarajit Ghosh	All of C	PHI (India)	2009	[978-81-203-3520-2]
2	Dr.Mandeep Singh	Introduction to Biomedical Instrumentation	PHI (India)	2010	8120341635, 9788120341630
3	Dr. Smarajit Ghosh	Electrical Machines-I (2/E)	Pearson Education	2012	[ISBN: 9788131760901]
4	Dr. Smarajit Ghosh	Control Systems: Theory and Applications (2/E)	Pearson Education	2012	[ISBN: 9788131758373]
5	Dr. Smarajit Ghosh	Fundamentals of Electrical & Electronics Engineering (KNOGU)	PHI (India)	2012	(2/e) [978-81-203-3299-7]
6	Dr. Smarajit Ghosh	Electrical Machines-II (2/E)	Pearson Education	2012	[9788131768976]

7	Dr. P.S. Bimbhra	Power Electronics	Khanna Publishers	2013	
8	Dr. P.S. Bimbhra	Generalised Theory of Electrical Machines	Khanna Publishers	2012	

* Citation h-index, Impact Factor – range / average

S. No.	Faculty Name	H index	Citations	Impact Factor (Average)
1	Dr. Ravinder Aggarwal	14	287	2.80
2	Dr. Samarjit Ghosh	7	120	1.48
3	Dr. Sanjay Kumar Jain	5	60	0
4	Dr. Mandeep Singh	6	81	0.656
5	Dr. Gagan Deep Kaur	1	3	0
6	Dr. Sunil Singla	3	18	0.628
7	Mr. Parag Nijhawan	3	23	1.093
8	Dr. M.D. Singh (Mandeep Singh)	4	44	0.656
9	Dr. Nitin Narang	2	17	2.783
10	Dr. Deepti Mittal	2	33	1.727
11	Dr. Amrita Sinha	2	12	0.617
12	Dr. Prasenjit Basak	4	64	2.06
13	Dr. Sangeeta Kamboj	2	4	0.1
14	Dr. Gyan Ranjan Biswal	2	32	3.525
15	Dr. Jainy Sachdeva	3	33	1.49
16	Dr. Santosh Sonar	2	7	0.33
17	Dr. Mukesh Singh	6	120	3.558
18	Dr. Saurabh Bhardwaj	4	33	1.59
19	Dr. Surya Parkash	4	46	1.352
20	Dr. Vishal Srivastav	4	64	1.115
21	Mr. Mooninder Singh	4	21	0
22	Mr. Shakti Singh	2	8	0.2
23	Mr. Souvik Ganguly	3	28	0
24	Mr. Jitender kaushal	1	1	0
25	Ms. Ruchika	2	15	1.9

23. Details of patents and income generated:

Title of invention: **Smart Library Management System**
Application Number: **1695/DEL/2012;**
Name: **Dr. M D singh**
Date of Filling: **01/06/2012;**
Status: **Application Awaiting Examination**

24. Areas of consultancy and income generated:

Working in this direction

25. Faculty selected Nationally / Internationally to visit other laboratories / institutions / industries in India and abroad:

Yes, few of the laboratories / institutions / industries are as follows:

- **High Voltage Laboratory, CGL Nasik**
- **CSIR,DRDO, BARC Labs**
- **IOCL, Bombay**
- **RVCE, Bangalore**
- **NUCON Switch Gears**
- **NSIC, Rajpura**
- **Schneider India, Vadodra**
- **Univ. of Ontario, Institute of Tech. Canada**
- **Punjab Energy Development Agency, Chandigarh**
- **Terminal Ballistic Research Laboratory, Ramgarh**
- **Diesel Manufacturing Works (DMW), Patiala**

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards

S. No	Name of Faculty	Reviewer/Editor/Steering Committee	Name of Journal	Publisher
1	Dr. Smarajit Ghosh	Reviewer	International Journal of Electric Components and Power Systems Scientific Journal International European Journal of Electrical Power IEEE Transactions Power delivery	Taylor & Francis IEEE
2.	Mr. Souvik Ganguli	Reviewer	Energy, Applied Energy, Solar Energy, Renewable Energy, Renewable & Sustainable Energy Reviews, Journal of Process Control, Control Engineering Practice, International Arab Journal of Information Technology	Elsevier (Zarqa University, Zordan)
3	Dr. Sunil Kumar Singla	Reviewer/ Editorial board	International Journal of Soft Computing and Engineering, International Journal of Engineering and Advanced Technology, International Journal of Engineering and Innovative Technology	
4	Mr. Nitin Narang	Reviewer	Electrical Power and Component systems	Elsevier
5	Mr. Shakti Singh	Reviewer	International Journal of Renewable Energy Research	
6	Mr. Parag Nijhawan	Reviewer	IEEE Power Electronics IET - Generation, Transmission and Distribution International Transactions on Electrical Energy Systems	IEEE IET Wiley
7	Dr. Ravinder Agarwal	Reviewer Steering committee	Mapan Metrology Society of India, New Delhi	Elsevier Mapan
8	Dr. Prasenjit Basak	Reviewer	IEEE Smart Grid	IEEE

9	Dr. Sangeeta Kamboj	Reviewer	Electrical Power and Component systems	Elsevier
10	Dr. Deepti Mittal	Guest Editor for Special Issue on Medical Signal & Image Processing	International Journal of Signal and Imaging Systems Engineering, International Journal of Convergence Computing, International Journal of Signal and Imaging Systems Engineering,	Inderscience
11	Dr. Ravinder Agarwal	Editor Member	MAPAN Journal of Metrology Society of India	Springer
12	Dr. Ravinder Agarwal	Reviewer	Environmental Monitoring and Assessment	Springer
14	Dr. Ravinder Agarwal	Reviewer	International Journal of Environmental Health Research	Taylor & Francis

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

S.No.	Name of Faculty Member	Course	Place and Dates
1	Dr. Gagandeep Kaur	Course on Virtual Instrumentation	3-7 August, 2009; NITTTR, Chandigarh
2	Mr. Parag Nijhawan	Power Electronics	25-29 May, 2009; NITTTR, Chandigarh
3	Mr. Parag Nijhawan	Energy Management	13-17 April, 2009; NITTTR, Chandigarh
4	Mr. Nitin Narang, Mr. Nirbhawjap Singh	Computational fluid dynamics Bio medical signal processing	10-23 July, 2009; Thapar Institute of Engineering & Technology University, Patiala
5	Mr. Nitin Narang,	Bio medical signal processing Applications of Lab View in Engineering	26 June - 3 July 2009; IITR, Roorkee
6	Mr. Nirbhawjap Singh	Bio medical signal processing Applications of Lab View in Engineering	26 June - 3 July 2009; IITR, Roorkee
7	Dr. Ravinder Agarwal	Group Monitoring Workshop on Atmospheric Science Research Projects	December 10-12, 2009, Andhra University, Visakhapatnam
8	Dr. M.D. Singh	Three-day short term course on Ultrasound Image Processing	Dec. 2009, IIT Roorkee
9	Dr. Ravinder Agarwal	Two day workshop on Biomedical Instrumentation	January 30-31, 2010; IISc, Bangalore
10	Ms. Ruchika	STP on applications of Graph Theory	March 2010; Thapar Institute of Engineering & Technology University, Patiala
11	Ms. Manbir Kaur	STP on Intelligent System Applications to Smart Grid Solutions	Nov. 15-19, 2010; IIT Kanpur

S.No.	Name of Faculty Member	Course	Place and Dates
12	Ms. Manbir Kaur	Geometrical Algorithms	Oct 2012; Thapar Institute of Engineering & Technology University, Patiala
13	Mr. Souvik ganguli	Networking Principles & Technology	July 17-21, 2006; NITTTR, Kolkata
14	Mr. Souvik ganguli	Use of MATLAB Toolboxes for real time applications in Electrical Engineering	June 16- 22, 2008; EEED, BIT Mesra, Ranchi, Jharkhand
15	Mr. Shakti Singh,	STC on Microcontroller and its applications	May 23-27, 2011; NITTTR, Chandigarh
16	Mr. M.D.Singh	STC on Microcontroller and its applications	May 23-27, 2011; NITTTR, Chandigarh
17	Ms. Suman Bhullar,	Modelling and simulation using MATLAB	May 23-27, 2011; NITTTR, Chandigarh
18	Ms. Manvir Kaur,	Modelling and simulation using MATLAB	May 23-27, 2011; NITTTR, Chandigarh
19	Ms. Ruchika Lamba	Modelling and simulation using MATLAB	May 23-27, 2011; NITTTR, Chandigarh
20	Ms. Suman Bhullar	Energy Management	September 19-23, 2011; NITTTR, Chandigarh
21	Mr. Shakti Singh	A three day hands on program on analog system design	Dec-22-24, 2011; Jointly by Texas Instruments University program, Cranes and Thapar Institute of Engineering & Technology University, Patiala
22	Mr. Inder Preet Singh	STP on Smart Grid Technologies	May 14-18, 2012; MNIT Jaipur
23	Mr. Shakti Singh,	Computational techniques in Renewable energy sources	June 2012; IIT Mandi
24	Mr. Vikram Chopra	Computational techniques in Renewable energy sources	June 2012; IIT Mandi
25	Dr. Jainy Sachdeva	Teachers Training program	July 15-26, 2013; NITTTR Chandigarh
26	Mr. Shailesh	Teachers Training program	July 15-26, 2013; NITTTR Chandigarh
27	Dr. Sangeeta, and	Teachers Training program	July 15-26, 2013; NITTTR Chandigarh
28	Dr. Amrita Sinha	Teachers Training program	July 15-26, 2013; NITTTR Chandigarh
29	Dr. Prasanjit Basak	Teachers Training program	July 15-26, 2013; NITTTR Chandigarh
30	Dr. Deepti Mittal	Teachers Training program	Jan 2014; NITTTR Chandigarh

28. Student projects

(a) Percentage of students who have done in-house projects including inter-departmental projects

- *Third year students from Electrical Engineering from Thapar University have won the Gold medal and cash prize of Rs. 50,000 in Intel embedded challenge 2011 held at Bangalore on 18-19th August 2011. "Smart Arm" was developed by Mr. Deepender Singla and Mr. Amit Ranjan under the guidance of Mr. M.D. Singh (A.P. EIED), as a cost effective smart solution for amputees. The 6-degree of freedom arm was interfaced with Intel's Atom D525 processor, which apart from being mind control (body signals) could be completely operated through voice commands*
- *A team of three students two from EE 3rd year and one from CSE 3rd year won the consolation prize at Texas Analog Design contest 2011. Students have designed a RF - sensors based computerized library system to locate the books automatically*
- *A team of three students won consolation prize at "Freescale Cup 2011" worth cash prize 10,000/- and a trophy*
- *Team of students (multidisciplinary group) are working on project "Energy Efficiency and Utilization in Thapar Institute of Engineering & Technology University Campus" 2014 onwards*
- *Papers presented by under graduate students in the conference*
 - *Piyush Jain, Ketan Joshi, Prabhleen Kaur, Perry Mittal and Shailesh Kumar, "Modelling of Resistance to Frequency Converter", International Conference on Power, Control and Embedded System (ICPCES-2014), Dec. 26-28, 2014, MNNIT, Allahabad*
 - *Utkarsh Gupta, Rahul Prajesh, Ravinder Agarwal and Ajay Agarwal, "A capillary based micro-viscometer", International Conference on Emerging Technologies: Micro to Nano 2013 (ETMN-2013), February 23-24, Goa*

(b) Percentage of students doing projects in collaboration with other universities / industry / institute

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
1	101005002	Akshit Chaudhary	SCADA for laser beam jitter correction	LASTEC Lab, DRDO, Metcalfe House, Delhi
2	101005004	Aman Singla	Calibration of instruments using Automation(using LABVIEW)	Electronics Regional Test Laboratory, S-Block, Industrial Area, Phase-2, Okhla, Delhi
3	101005005	Amarpal Singh	SCADA for laser beam jitter correction	LASTEC Lab, DRDO, Metcalfe House, Delhi
4	101005007	Amritansh Ahuja	Implementation of fire detection and alarm control system	DSM SinochemPharmaceutical, Bhai Mohan Singh Nagar, Toansa, Ropar
5	101005009	Ankit	Understanding the maintenance pillars of packaging	Sabmiller India Ltd., Breweries, Murthal, Sonapat

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
6	101005011	Anuubhav Nanda	Improvement of cognitive skills in players using psychological training	Netaji Subhas National Institute of Sports, Moti Bagh, Patiala
7	101005013	Aranyaka Verma	Sulaymaniyah power project	Bechtel India Pvt.Ltd., Knowledge Park,Udyog Vihar, Ph-4, Gurgaon
8	101005014	Arun Goyal	Sports cognition	Netaji Subhas National Institute of Sports, Old Moti Bagh, Patiala
9	101005015	Ayush Kaushik	The study of pilot plants using PLC based control systems	Indian Oil Corporation Limited R&D Centre, Sector-13, Faridabad
10	101005016	Deepinder Singh	Introduction to range of machines,Scope of Inst. Components,Electrical Panel Assembly,PLC &HMI	Rockwell Industrial Plants Limited, Sarsini Lalru, SAS Nagar, Mohali
11	101005017	Divyasha	DTPMS online	Mahindra & Mahindra Ltd., Industrial Area Sas Nagar, Mohali
12	101005018	Gagandeep Rawla	AVR and its Applications	DRDO-LSTC Metcalfe House, New Delhi
13	101005019	Geetika Mittal	Development of test setup for Electric Power steering	Sona Koyo Steering Systems Ltd., Delhi Jaipur Road, Sukh Chain Marg, Gurgaon
14	101005020	Himanshu	Access control system implementation	DSM Sinochem Pharmaceuticals India Pvt. Ltd., Bhai Mohan Singh Nagar, Ropar
15	101005021	Hitesh Mittal	Machine design specification finalization for speed sensor(extended scope implementation)	Continental Automotive, Sec-5, Manesar,Gurgaon
16	101005022	Jashanpreet Singh	Pre driver current modelling for power integrity analysis	STmicroelectronics India Pvt.Ltd., Knowledge Park-III, Greater Noida
17	101005023	Jaya Alipuria	Dairy automation	Glaxo SmithklineConsumer Health Care, Patiala Gate, Nabha
18	101005024	Jyoti Mittal	Process automation	DSG Papers Private Limited, Bhanri,Maine Road, Patiala
19	101005025	Kanika Chawla	GPS navigation and tracking system	DRDO-SASE, Sec 37-A, Himparisar, Chandigarh
20	101005026	Karan Nohria	PLC	Automation Systems 90-C, Near Toor Complex Dugri Road, Ludhiana
21	101005027	Komal Bajaj	Distributed control system	Larsen & Toubro Limited, EBOP, Near Village Nalash, Rajpura

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
22	101005028	Kshitij Garg	Analog mixed signal	Nxp Semiconductors India Pvt.Ltd., IT Park, Nagawara, Bangalore
23	101005030	Kunal Chopra	To reduce failures due to false deviation alarms from 3 times/6 months to 2 times/6 months using visual control in paper machine	Trident Limited, Barnala,
24	101005031	Lakhan Singla	Installation and commissioning of effluent flow meter	SIEL Chemical Complex, Charatrapur Khadauli, Rajpura
25	101005032	Nancy Gupta	GPS Navigation and Tracker	DRDO-SASE, Sec 37-A, Himparisar, Chandigarh
26	101005033	Naveen Malhotra	Diary automation	Glaxosmithkline, Consumer Healthcare Ltd., Nabha
27	101005034	Navjot Kaur Sandhu	Cognitive assessment and enhancement through eye tracker	INMAS-DRDO,Lucknow Road,Timarpur, Delhi
28	101005035	Neha Gupta	8 port switch	Vvdm Technologies B-22 Sector 34, Infocity Gurgaon
29	101005036	Nishant Kaushal	AVR and its Applications	DRDO-LSTC, Metcalfe House , New Delhi
30	101005040	Pranav Handa	Drives and PLC	Uflex Private Ltd., Sec-60, Noida
31	101005041	Pulkit Goyal	Shay--Bah CPFE (Instrumentation processing for extracting out petroleum from oil refinery)	Samsung Engineering India Pvt.Ltd., Advant Navis Business Park, Sec-142, Greater Noida
32	101005042	Puneet Kaur	Air Traffic Control Unit	Airports Authority of India, IGI Airport(Terminal 3), New Delhi
33	101005043	Rahul Chauhan	Infrastructure of 220kv	220 KV Grid, PSTCL, Barnala
34	101005044	Rakshit Chaudhary	Drives and plc of FFS rotary machine	Uflex Ltd., Sec- 60, Noida
35	101005046	Ruby Grover	Instrumenation in thermal power plant	Larsen and Toubro Lim, Project Vill. Banawali Distt Mansa
36	101005048	Samarth Sidhpuria	GUI development using labview and MSP 430	CSIR-CEERI, Pilani
37	101005049	Samridhi Gupta	Augmented cognition	DRDO-INMAS, Timarpur, Delhi
38	101005051	Sarthak Jain	Sks_power project 300x2, raigarh	Invensys India Ltd.,Alliance, TTC,Navi Mumbai
40	101005053	Sarthak Gulati	ED System and Robotics	Maruti Suzuki India Limited, Palam Gurgaon Road, Gurgaon

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
41	101005054	Saurav Shekhar	Remote monitoring and controlling of power consumption	TSIPLC, Southern Park, Saket, New Delhi,
42	101005055	Saurav Gupta	Installation and commissioning of effluent flow meter	SIEL Chemicals Complex, Charatrapur Khadauli, Rajpura
43	101005056	Sharad Garg	PLC,SCADA	Rockwell Automation, I&B Automation, Sec-63, Noida
44	101005057	Shashwat Dixit	Current trends in telecommunication with focus on easy maintainability	Alcatel-Lucent, Electronic City, Udyog Vihar Phase-IV, Sector-18, Gurgaon
45	101005059	Shikha Garg	Automation of transform test setup	Hind Rectifiers Ltd.,Bhandup West,Mumbai
46	101005060	Shikhar Prasoon	Remote Monitoring and Control of Power Consumption	Transaction Solutions International (India) Pvt. Ltd., Saket, New Delhi
47	101005061	Shivani Manchanda	Dairy automation	Glaxo Smith KlineLtd., Nabha
48	101005063	Shubham Garg	Testing and repairing of UPS card & Battery card	Tritronics Pvt.Ltd., Fie Patparganj,Delhi
49	101005064	Shubhdeep	PLC controlled grease pump	Maruti Suzuki, Sector 18, Gurgaon
50	101005065	Siddharth Bansal	Development of HV Pulse Forming Network	DRDO-TBRL, Ramgarh Range, Panchkula
51	101005066	Somalee Gupta	Augmented cognition	DRDO-SAG Scientific Analysis Group, Metcalfe House, Delhi
52	101005067	Sugandha Goyal	SXL Marine Project	CB&I, Building, Cyber City, Phase 2, Sector 25-A, Gurgaon
53	101005068	Surabhi Grover	Study of Az system	ZS Associates, Vatika Business Park, Sohna Road, Sec - 49, Gurgaon
54	101005069	Tamanna Sharma	Implementation methodologies for check of power and signal integrity in analog circuits	ST Microelectronics, Phase 3, Knowledge Park, Greater Noida
55	101005071	Upasna Luthra	Study of DCS	NFL, Bathinda
56	101005072	Vandana Kansal	GPS and GSM based Navigation System	DRDO-SASE, Sec 37-A, Himparisar, Chandigarh
58	101005074	Vinay Garg	PLC, SCADA	Rockwell Automation, I&B Automation, Sec-63. Noida
59	101005076	Shweta Goyal	Study of DCS in ammonia plant	NFL, Bathinda
60	101055001	Ankita Joshi	Quality Control of transistor outlets	Continental Device India Limited, Industrial Area, Phase 8, Nagar,Mohali

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
61	101055003	Chetanya Kalra	Tendering on telecommunication platform related to latest technology	Sterlite Technologies, Rider House,Gurgaon
62	101055004	Harkirat Singh	Augmented cognition	DRDO -INMAS, Lucknow Road, Delhi
63	101055005	Harshameer Singh	Substation automation system	Schneider Electric Pvt. Ltd., IGI Complex, Sec-126, Noida
64	101055006	Krittika Goyal	LP turbine	Maruti Suzuki India Ltd., Palam, Gurgaon Road, Gurgaon
65	101055007	Nancy Grover	Process automation	DSG Papers Private Limited, Bhanri, Patiala
66	101055008	Pranendu Maiti	Technical-instrumentation	Sabmiller India Ltd., Charminar Breweries Shivampet,Pulkal Mandal
67	101055009	Priya Goyal	Wind velocity sensor	CSIR-CEERI, Pilani
68	101055010	Rahul Garg	Instrumentation of the fertiliser plant	National Fertilisers Limited,Sibian Road,Bathinda
69	101055011	Rajit	Infrastructure of 220kv substation	220 KV Grid PSTCL Barnala
71	101055013	Surabhi Verma	Automation of transformer test setup	Hind Rectifier Ltd., Lake Road, Bhandup, Mumbai
72	101055014	Utkarsh Gupta	Speed Control of Induction Motor and its remote parameterization	Schneider Electric, DLF Cyber City Building, Noida
74	101185004	Karanvir Singh	Diary automation	Glaxosmithkline Consumer Healthcare Limited, Nabha
75	101185005	Manbir Singh Mago	Installation and commissioning of effluent flow meter	SIELChemical Complex, Khadauli/Sardargarh Rajpura
76	101185007	Rahul Saini	Boiler mapping	NFL, Nangal
77	100905085	Prince Garg	Convergent mediation	Ericsson India Pvt.Ltd. DLF Cyberciti, Sec-25A, Gurgaon
78	100905087	Sahil Sandooja	1)Robot speed optimisation 2)Design of conveyor panel using PLC	Maruti Suzuki India Ltd., Palam Gurgaon Road, Gurgaon
79	100905014	Avantika Gupta	Applications of instrumentation in DMRC, Modifications in TIMS, Public Address/Passenger Information System, etc	DMRC, East Approach Road, New Delhi
80	100905020	Divakshi	Signalling of metro	Siemens India Ltd., Ring Road, New Delhi
81	100905089	Sanchit Singla	ABB,SCADA project	Company-ABB, ONGC, Laxminagar, New Delhi

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
82	100905096	Vaibhav Gautam	PCB designing and manufacturing	Bergen Associates Pvt.Ltd., Commercial Complex,Karampura,New Delhi
83	101085006	Manasvi Gupta	Instrumentation and Control of Vacuum unit	Vardhman Special Steel Ltd.,Focal PointLudhiana
84	100905008	Ankita Gupta	Co- existence	ST Ericsson India Prt. Ltd.Wireless Wing, Knowledge, Greater Noida
85	100905019	Disha Garg	Unix scripting to help ip flow in st	ST Micro Electronics, Knowledge Park-3, Greater Noida
86	100905090	Shruti Sachdeva	Connectivity project	ST Ericsson India Pvt.Ltd., Knowledge Park-3, Greater Noida
89	101085010	Leeza	Bluetooth low energy	ST Ericsson, Knowledge Park III, Greater Noida
90	100905010	Aprajita	Instrumentation of waste heat recovery boiler	Honda Motorcycle and Scooters India Pvt. Ltd, Sec-3, Manesar, Gurgaon
91	100905038	Maheshdeep Singh	Development of Analogue Interface for Power Plants	Exicom Telesystems Plot No 77A, Sector 18, Gurgaon
92	100905056	Preetkiran	Instrumentation for steering system performance testing	Sona Koyo Steering System Ltd., Delhi Jaipur Road, Gurgaon
93	100905059	Rahul Sharma	Development of Analogue Interface for Power Plants	Exicom Telesystems Plot No 77A, Sec-18, Gurgaon
94	100905079	Ankur Gulati	OCB 283 Alcatel BTS Section of GSM	Alcatel Lucent, Electronic City, Gurgaon
95	100905066	Salil Mathur	DSP based Two Axis Gimbal Controller	LASTEC-DRDO, Metcalfe House, Delhi
96	100905097	Yuwali Dabur	Romtas (remotely operated mobile target system)	LASTEC-DRDO, Metcalfe House, Delhi
97	101085007	Sourabh Sameer	Speech processing for ad hoc networks	DRDO-SAG, Metcafe House Complex, Delhi
08	101085009	Mandeep Singh	Development of psychological Battery using Augmented Reallity	INMAS-DRDO, Timarpur, Delhi
99	101085011	Bhuvan Kapoor	Underwater acoustic sensor and arrays	DRDO-SSPL, Timarpur, Delhi
100	100905006	Akhil Gupta	Error detection and correction in cursive displays	CSIO, Sec-30C, Chandigarh
101	100905021	Gagan Preet Singh	Energy scenario of India	PEDA, Sec-33D, Chandigarh

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
102	100905036	Karanbir Singh	Instrumentation in power plants	PEDA, Sec-33D, Chandigarh
103	100905039	Manav Bansal	Project on NOC operations	Bharti Airtel, Corp-05 Sector -8, Manesar
104	100905050	Parul Arora	Infrared Image Processing in Biomedical Applications	CSIO, Sec-30C, Chandigarh
105	100905062	Ramnish Puri	Energy scenario in India	PEDA, Sec-33D, Chandigarh
106	100905076	Varinder Kumar	Energy scenario in India	PEDA, Sec-33D, Chandigarh
107	100905080	Atika Aggarwal	Studying Periscopes (Internship at OCF)	Ordnance Cable Factory Industrial Area Phase-1, Chandigarh
108	100905081	Chander Mohan	Instrumentation in power plants	PEDA, Sec-33D, Chandigarh
109	101085003	Gursharan Singh	Study of (a) renewable energy scenario in India (b) design of one renewable energy project of PEDA	PEDA, Sec-33D, Chandigarh
110	100905029	Harpreet Kaur	Project based on TPM and CNC	Swaraj Engines Limited, Industrial Area, Phase 9, Mohali
111	100905034	Janmeet Kaur	CFL manufacturing process	Philips Electronics India Ltd., Phase 9, Industrial Focal Point, Mohali
112	100905064	Sahila	CFL manufacturing process	Philips Electronics India Ltd., Phase 9, Industrial Focal Point, Mohali
113	100905074	Tarun Mutneja	Telecom Instrumentation and 3-G	Nokia Siemens Network Pvt.Ltd., Plot No-IT-C-6,Sebitz Square, IT Park,Sector-67,Mohali
114	100905077	Khushboo Srivastava	Project based on TPM and CNC	Swaraj Engines Limited,Industrial Area, Phase 9, Mohali
115	100905078	Akhilesh Sayal	CFL manufacturing process	Philips Electronics India Ltd., Phase 9, Industrial Focal Point, Mohali
116	100905093	Sonal Oberoi	1 Installation and validation of chartless recorder 2 Installation of Multivac vision system 3 Installation of thyristor based temperature controller on production floor	EPIP, Plot No 58-B, Phase-1,Jharmajri, Baddi
117	100905044	Mrigendra Kumar Mrityunjaya	Conceptual Design of Lorentz Force Flow Meter for Liquid Metal Application	BARC, Reactor Engineering Division, Mumbai

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
118	100905045	Natasha Kumar	TIG welding automation using PLC	L&T Heavy Engineering, L&T Ltd., Saki Vihar Road, Mumbai
119	100905057	Priyam Gupta	Development of Modern Control Algorithm For Line-of-Sight Stabilization System	LASTEC-DRDO, Metcalfe House, Delhi
120	100905061	Rajesh Kumar	Virtual Reality on Cognition Assesment	DRDO-INMAS, Timarpur, Delhi
121	100905065	Salil	Development of a test battery	DRDO-INMAS, Timarpur, Delhi
122	100905075	Utkarsh Gupta	Micro-Viscometer, Design and Fabrication	CSIR-CEERI, Pilani
123	100905084	Mahak Agrawal	Operation and maintenance of Baggage Handling System at IGI Airport	Delhi International Airport (P)Ltd., New Udan Bhawan, IGI Airport, New Delhi
124	100905001	Aashima Dhankhar	Leikhweir gas field development project	L&T Gulf Pvt.Ltd., Delhi Mathura Road, National Capital Region, Faridabad
125	100905003	Aastha Ahuja	Integrated Automated Control of 192 Power Grid substations across the country	National Transmission Asset Management Centre, Sec-65, Noida
126	100905007	Anatya Vallabh	Power inverters(power electronics)	Uppal Plaza, 3 rd Floor, Jasola Vihar, New Delhi
127	100905025	Gaurav Wadhawan	Studying PLC on rod con big end boring and chanfering machine by yamazaki Co Ltd.	India Yamaha Motor Pvt.Ltd.,Mathura Road, Faridabad
128	100905033	Jaspreet Kaur	Hardware designing of voip phone and analysis of SI problem in instrumentation	Mohan Co-Operative Industrial Estate, Mathura Road, New Delhi
130	100905005	Aditi Kapur	Hardware designing of voip phone and analysis of SI problem in instrumentation	Mohan Co-Operative Industrial Estate, Mathura Road, New Delhi
131	100905060	Rajat Bagga	Process control equipment design	KC Engineers , 96,HSIDC, Industrial Estate, Ambala Cantt
132	100905086	Ravik Hasija	Design of Advanced Encryption Standard Hardware, its Simulation, Synthesis, Verification	Texas Instruments, Bagmane Tech Park, No 66/3, Adjacent to LRDE, Byrasandra, Bangalore
133	100905095	Suhail Manocha	Development of Embedded Linux	BHEL Electronics Division, Mysore Road, Bangalore
134	100905004	Abhinav Jain	Control Systems in the Substation	Main Receiving Sub Station, International Airport, Delhi

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
135	100905002	Aashima Kaila	Familiarization with Automation Methods for Front End Design Entry Tools	Cadence Design Systems Plot No 57 A, B & C, Noida
136	100905011	Arpit Kapoor	Data Acquisition and Instrumentation of Agricultural Tractors	New Holland Fiat (India) Pvt.Ltd., Udyog Kendra, Greater Noida
137	100905027	Gurjot Singh	1 Can communicator 2 Solar inverter prototype 3 PCB designing	P2 Power Solutions, D-87, Sector-63, Noida
138	100905042	Mohit Bajaj	Packaging software	Cadence Design Systems India Pvt.Ltd. Plot 57A, B & C,Noida
139	100905047	Navreet Singh	Familiarization with Logical Design Entry tools in ADW environment	Cadence Design System Pvt.Ltd., NSEZ, Noida
140	101085004	Kumar Saket	Logic capture feeda tools	Cadence Design Systems India Pvt. Ltd, Plot 57A, B&C,Noida
141	100905012	Arshdeep Singh Malhan	Experimental study of mass flow rates,detonation velocity and ignition energy measurements using data acquisition system and labview software	DRDO-TBRL, Firing Range, Ramgarh
142	100905017	Deepika Garg	Application of sensors	TBRL, Ramgarh
143	100905030	Harsimran Singh Bedi	Analysis of boilers, ghee plant, liquid plant (field instrumentation and PLC)	Nestle, Moga
144	100905032	Himshri Jain	Development of diagnostics for high voltage pulse power applications	DRDO-TBRL, Firing Range, Ramgarh
145	100905037	Karuna Bansal	Controller based simulator unit	DRDO-TBRL, Firing Range, Ramgarh
146	100905046	Navneetkaur	Data acquisition system for defence applications	DRDO-TBRL, Firing Range, Ramgarh
147	100905051	Parul Goyal	Development of diagnostics for high voltage pulse power applications	DRDO-TBRL, Firing Range, Ramgarh
148	100905067	Saurabh Prabhakar	Automation of fragment launching gun with the help of servo motor	DRDO-TBRL, Firing Range, Ramgarh
149	100905083	Imanpreet Singh	Data acquisition system for defence application	DRDO-TBRL, Firing Range, Ramgarh
150	100905088	Samridh Prabhakar	Synchronization of high current pulse circuits	DRDO-TBRL, Firing Range, Ramgarh
151	101085001	Amit Goyal	Data acquisition system for defence applications	DRDO-TBRL, Firing Range, Ramgarh
152	100905091	Simarjot Kaur Randhawa	SCADA based industrial project	IAG Automation, 168 Industrial Area, Phase 2, Panchkula

S. No	Roll No	Name	Name of the Project	Name and Address of the organisation
153	101085005	Kunal Chugh	Manufacturing, Assembly, Testing, and Programming of Microcontroller based Bio-Medical Instruments	Recorders and Medicare Systems Private Ltd., Industrial Area Phase-1, Panchkula
154	101085008	Jatinder Singh	Instrumentation at the plant involving PLC and SCADA	Glaxosmithkline, Consumer Healthcare Ltd., Patiala Gate, Nabha
155	100905015	Damini Balana	Electrical, control and instrumentation in Super critical boilers	Alstom India Ltd., IHDP Building, Plot No 7, Noida
156	100905041	Meghna Singh	Airtel africa - dc/msc audit	Airtel Africa, D-87, Sec-63, Noida
157	100905068	Shashwat Chugh	Substation automation system	Schneider Electric Infrastructure Ltd., India Glycols Ltd. Complex, Noida
158	100905073	Tanmay Ajmera	Ip confirmation status	Freescale Semiconductors India, Sector 16-A, Near Film City, Noida
159	100905016	Deepanshi Singhal	Mill reject handling system	Indiabulls House, Udyog Vihar, Phase-V, Gurgaon
160	100905018	Deepika Mittal	Integrated building management systems (ibms)	Honeywell Automation India Limited, Unitech Trade Centre, Sec-43, Gurgaon
161	100905022	Gaganpal Singh	Air traffic control, status indicator stimulator	Airports Authority of India, Regional Training Centre, New Delhi
162	100905023	Gargi Kalra	Integrated building management systems (IBMS)	Honeywell Automation India Ltd., Unitech Trade Centre, Sec-43, Gurgaon
163	100905049	Nishant Grover	Networking and security analysis	Bharti Airtel Ltd., Airtel Centre, Udyog Vihar, Gurgaon
164	100905092	Sojdeep Nagra	System development & programming for wire rod mill process control through PLC	Wire Rod Mill, Bhili, Chhattisgarh

BE (Electrical Engineering):

S. No.	Roll No.	Name	Name of the project	Name and Address of the Organization
1.	101004001	Abhilash Jhamb	Technical research and specifications for industrial control products	Schneider Electric India Pvt. Ltd., DLF Cyber City, Phase 2, Gurgaon
1.	101004002	Abhimanyu Gakhar	Manufacturing and Testing of 1.1 KV cables	Alcon Wires and Cables Industries, 27A, Focal Point, Rajpura

2.	101004004	Abhishek Juneja	Software Application for Cost Estimation of various Packages	BHEL(PEM) Sec-16A PPEI Building, Noida
3.	101004006	Anant Katyayan	Electrical and Mechanical Engg. Of underground METRO Stations	Blue Star Ltd. Block 2A, DLF Corporate Park, Gurgaon
4.	101004007	Anant Jain	Low Voltage Control Panel	C&S Electric Ltd. C-59, Phase 2, Noida
5.	101004008	Anantpreet Singh Aulakh	Testing of MCB'S	Havells India Ltd. Baddi, H.P
6.	101004009	Anirudh Bansal	Overview of Solar PV Solutions and Study of various grid connected Inverters	Schneider Electric India Pvt. Ltd., DLF Cyber City, Phase 2, Gurgaon
7.	101004010	Ankit Gogia	Construction of Saudi Embassy at Chanakyapuri	Amber Electrotech Ltd, F-3/2, Okhla Industrial Area, Phase-1, New Delhi
8.	101004011	Ankit Garg	Testing of MCB'S	Indo-Asian, B-24, Phase-2, Noida
9.	101004012	Ankit Vaishnav	Industrial automation and industrial design	CMC, Sec-34, Chandigarh
10.	101004013	Ankush Mahendru	Energy performance analysis using online energy monitor system	Schneider Electric India Pvt. Ltd., DLF Cyber City, Phase 2, Gurgaon
11.	101004014	Ankush Walia	Industrial automation and industrial design	CMC, Sec-34, Chandigarh
12.	101004015	Anshul Goswami	Sub-station design	Siemens Ltd., Sec 18, Maruti Industrial Area, Gurgaon
13.	101004016	Anuj Bansal	Sub-station automation	ALSTOM T&D Pvt. Ltd. A-7, Sec-65, Noida
14.	101004017	Apoorv Sinha	Privatization in transmission sector	Central Electricity Authority, Sewa Bhawan, R K Puram, New Delhi
15.	101004018	Arpit Bansal	Technical specifications and comparison of switches	Havells India Ltd., QRG Towers, SEC-126, Express Way, Noida
16.	101004019	Arpit Goyal	Mapping/tracking of installed base population of Schneiderelectric MV switchgear products	Schneider Electric India Pvt. Ltd., DLF Cyber City, Phase 2, Gurgaon
17.	101004021	Ashish Mittal	Repair and maintenance of power system	P&M Division, Ablowal, Patiala
18.	101004022	Asmi Singla	Circuit breaker measurement and communication	Schneider Electric Pvt. Ltd., DLF Cyber City, Gurgaon,
19.	101004026	Daanish Madaan	Optimization of auxiliary power at thermal power plant	Guru Gobind Singh Super Thermal Plant, Village Ghanaulli, Ropar
20.	101004028	Gagandeep Singh Nehal	Repair and maintenance of power system	P&M Division, Ablowal, Patiala
21.	101004029	Gopal Krishan Nanda	850 MW Hydro-electric project	GVK Power & Infrastructure, Secunderabad, Andhra Pradesh

22.	101004030	Gourav Garg	RCCB relay & core analysis	Havell's India Ltd., QRG Towers, Sec-126, Express Way, Noida
23.	101004031	Gurvenus Kaur	Study of renewable energy scenario in India	Punjab Energy Development Agency, Sec-33D, Chandigarh
24.	101004032	Harjot Singh	Transformer manufacturing	NUCON Switchgears Pvt. Ltd., Focal Point Ludhiana
25.	101004033	Isha Arora	Analysis of lighting system of METRO	Delhi METRO Rail Corporation Ltd., Mtero Bhawan, New Delhi
26.	101004034	Ishita Prakash	Analysis of Lighting System of METRO	Delhi METRO Rail Corporation Ltd., Mtero Bhawan, New Delhi
27.	101004036	Komalpreet Kaur	Relay coordination and fault analysis at NPL	Nabha Power Ltd. Near Nalash, Rajpura
28.	101004038	Manpreet Singh	Study of GGSSTP plant	Guru Gobind Singh Super Thermal Plant, Ghanaulli, Ropar
29.	101004040	Mayank	Bus bars and various faults related to steel plants	Korus Engg. Solutions Pvt. Ltd., Pitampura, New Delhi
30.	101004042	Minal Mahajan	Identifying LOTO gaps online level production	Nestle India Ltd., Moga
31.	101004044	Namita Gupta	Over-view of steel plant and study of non- destructive testing line	Vardhman Special Steels Ltd., Focal Point, Ludhiana
32.	101004045	Navdeep Kumar	Design and execution of switchyard	Amtek Electric, Sec- 34A, Chandigarh
33.	101004046	Navpreet Singh	Power supply design of Fiber LASER	DRDO-LASTECC, Metcalfe House, Delhi
34.	101004047	Nimai Shanker	Hydro-generator design	VOITH Hydro Private Limited, Sec-59, Noida
35.	101004048	Nishant Bindraban	Sub-station design	Siemens Ltd., Maruti Industrial Area, Gurgaon
36.	101004050	Prakhar Mathur	EBOP 116 MW combined cycle power plant	ALTOM India Ltd. Sec-63, Noida
37.	101004051	Pranay Venkatesh	ROHS implementation in MRI applications	WIPRO GE Healthcare X-ray Division, White Field Bangalore
38.	101004053	Pulkit Farsaiya	FFS rotary machine	UFLEX Ltd., A-2, Sec-60, Noida
39.	101004054	Rahat Malhotra	Energy conservation measures	Vardhman Spinning and General Mills, Ludhiana
40.	101004055	Ravinder Singh	Analysis, examination and comparison with competitors of different products	Havell's India Ltd., Sai Road, Baddi
41.	101004056	Rohit Garg	Industrial automation & electrical design	CMC, Sec-34, Chandigarh
42.	101004057	Sahibpal Singh	Relay coordination and fault analysis at NPL	Nabha Power Ltd., Near Nalash, Rajpura

43.	101004058	Sarvottam Kumar Singh	Replacement of HVAC system of STC	RITES Ltd.,IFFCO Chowk, Sec-29, Gurgaon
44.	101004059	Saurabh Goel	Improvement of lighting division	Surya Roshni Ltd., US Nagar, Kashipur,
45.	101004060	Sehajveer Singh Brar	Design and automation of sub-station	Scheinder Electric Pvt. Ltd.,IGL Complex, Noida
46.	101004061	Shamkaran Rai	Study of new and renewable sources of Energy in India	PEDA, Sec-33D, Chandigarh
47.	101004062	Shikhar Saxena	Quality audit of manufacturing unit	Marathon Electric Pvt. India Ltd.,Sec- 11, Faridabad
48.	101004063	Shivi Kumar Garg	Industrial automation and industrial design	CMC, Sec-34, Chandigarh
49.	101004064	Shubham Goyal	Study of new and renewable sources of energy in India	PEDA, Sec-33D, Chandigarh
50.	101004067	Tanish	Repair and maintenance of power system	P&M Division, Ablowal, Patiala
51.	101004068	Tanzeel Rasool Zargar	Design of of hydro plant	Mominabad Court Complex,Rajhbagh, Srinagar
52.	101004071	Vipin Goyal	Testing of MCB'S	Havells India Ltd., Sai Road, Baddi
53.	101004072	Vishal Budhiraja	Field services(OTC and AMC retrofit)	Scheinder Electric Pvt. Ltd.,DLF Cyber City, Phase 2, Gurgaon
54.	101004073	Vishu Goyal	Power distribution optimization by transmission and distribution losses reduction	Honda Motorcycle & Scooter India Pvt. Ltd., IMT Manesar, Gurgaon
55.	101004074	Vivek Tiwari	Power factor improvement	Lotus Integrated Texpark Ltd., Raikot Road, Barnala
56.	101004076	Harshobit Singh	Form, fill and seal rotary machine	UFLEX Ltd., A-2, Sec-60, Noida
57.	101054001	Aakanksha Gupta	Study of electrical signaling and communication systems	BMRCL, BMTc Complex, Shanthi Nagar, Bangalore
58.	101054002	Aman Agarwal	DMRC project	Siemens Ltd., IP Estate, New Delhi
59.	101054003	Ambica Ghai	Operation and maintenance of transmission and distribution	UPPCL,Jhansi
60.	101054004	Ankur Gupta	Improvement of HRC fuses	Havell's India ltd., Mathura Road, Sec 27, Faridabad
61.	101054005	Deepanjali Khurana	Project management of 11kV,2000A, VCB switchboards	Schneider Electric Pvt. Ltd., DLF Cyber City, Gurgaon
62.	101054006	Kushagra Kamani	Software application for cost estimation	BHEL(PEM), PPEI Building,Noida
63.	101054007	Mayank Gupta	Business potential mapping of medium voltage	Schneider Electric Pvt. Ltd DLF Cyber City, Gurgaon
64.	101054008	Mayank Wadhwa	Software application for cost estimation	BHEL(PEM), PPEI Building, Noida
65.	101054009	Nikhil Nag	Operation and Maintenance of 220 KV	RRVPN Ltd., Mansarovar, Jaipur
66.	101054010	Pradeep Prajapati	Replacement of HVAC system	RITES ltd, IFFCO Chowk, Sec 20, Gurgaon
67.	101054011	Sahil Arora	Quality enhancement of motor starter	Havells India Ltd.,QRG Towers,Sec-126, Noida

68.	101054013	Silky Goyal	Overview of solar PV solutions and study of different modules available in market	Schneider Electric Pvt. Ltd., DLF Cyber City, Gurgaon
69.	101054014	Sonal Gupta	Automation of transformer test set up	Hind Rectifier Ltd., Lake Road, Bhandup West, Mumbai
70.	101184001	Avishek Goyal	Power plant study	Chandigarh Distillers and Bottlers, Banur
71.	101184003	Dilraj Kumar Ahir	Protection system of equipment and their testing	Ambit Switchgears Pvt. Ltd., Phase 2, Noida
72.	101184004	Hemant Kumar Pandey	Industrial Automation and design	CMC, Sec- 34, Chandigarh
73.	101184005	Kulvinder Singh	Control of electric drives	Jindal stainless steel Ltd., Kharsia Road, Patrapali, Chhattisgarh
74.	101184006	Mohan Singh	Control of 220 kV grid through mobile network	PSTCL(P& M Divison), Ablawal, Patiala
75.	101184007	Nitish Kumar	Technical specification and comparison of convention switches	Havells India Ltd., QRG Towers, Sec-126, Noida
76.	101184008	Pappu Kumar	Power system and electrical drives	Patiala Distillers & Manufactures Ltd., Patiala
77.	101184009	Pradeep Kumar	Electric power system and automation in steel plants	Jindal Steels & Power Ltd., O.P. Jindal Marg, Hisar
78.	100904001	Aashish Vidhani	Plant maintenance	TATA Power Delhi Distribution Ltd., Kingsway Camp, Delhi
79.	100904003	Achintya Goel	EHV sub-station design of LT systems	Alstom T&D India Ltd. A-7, Sector 65, Noida
80.	100904004	Akanksha Joshi	Analysis of AC system configuration in grid tied solar farms	Schneider Electric, DLF Building-10, Tower-C, Cyber City, Gurgaon
81.	100904005	Akhil Mattu	Power factor improvement	Havell's Ltd., E-1, sector 59, Noida
82.	100904007	Aman Aggarwal	Design of automotive lighting	Lumax Industries Ltd, Maruti Complex, Sector-18, Gurgaon
83.	100904009	Amit Kumar	Generator and motor maintenance, switchgear, substation, protection cell	Punjab State Power Corp. Ltd., GHTP Lehra Mohabbat, Bathinda
84.	100904011	Ankita Singhal	Substation 765/400 kV	Siemens Ltd., Maruti Industrial Area, Sector -18, Gurgaon
85.	100904012	Ankush Vashisht	Study of renewable energy scenario in India and study of design of renewable energy project of PEDDA and its revival	PADA, Sec- 33 D, Chandigarh
86.	100904014	Arshdeep Singh Chopra	Study of renewable energy scenario in India and study of design of renewable energy project of PEDDA and its revival	PEDA, Sec- 33 D, Chandigarh

87.	100904015	Aseem Handa	Study on sub-station automation	Schneider Electric infrastructure, IGL Complex, Sec-126, Noida
88.	100904018	Ayush Markan	National process centre	National Buildings Construction Corporation, NBEC Bhawan, New Delhi
89.	100904019	D H S Kalyan	Development of crowbar directly operating from field voltage	Amtech Electronics India Ltd., GIDC Electronics Zone, Gandhi Nagar
90.	100904020	Dhruvdeep Singh	Manufacturing of transformer	Sangrur Industrial Corporation Ltd. Sibian Road, Sangrur
91.	100904021	Deepak Tanwar	Up gradation and rehabilitation of traction machines of diesel electric locomotive and Study and up gradation in loco propulsion control and testing	DMW, Patiala
92.	100904024	Devashish Tripathi	Automation project	Schneider Electric Infrastructure, IGL Complex, Sec-126, Noida
93.	100904025	Devesh Chaudhary	Isolation transformer	Sai Electricals, Sai Dhaam Victoria Park, Meerut
94.	100904027	Divanshu Garg	Green field cement project	Dalmia Cement Bharat Ltd. C-3, Sector-3, Noida
95.	100904028	Gurjot Singh	Green Plant Energy	Amtek Group, Sector-34A, Chandigarh
96.	100904029	Gurpreet Singh	Simulation of magnetic flux compression generator	DRDO - TBRL, Ramgarh, Panchkula
97.	100904030	Gurvinder Singh	Installation of ESP	Indian Acrylics limited, Sector 26, Chandigarh
98.	100904032	Himani Gupta	HVDC Bangladesh	Siemens Ltd. Sec-18, Maruti Industrial Area, Gurgaon
99.	100904033	Himanshi Garg	Ebase- customization for engineering process	Infrastructure City and Smart Grid, Siemens Ltd., Sector 18, Gurgaon
100.	100904034	Himanshu Kumar Sagar	Study of EHV class sub-station, load dispatching and relay and oil Testing equipment	Madhya Pradesh Power Transmission Company Ltd., Nayagaon, Jabalpur
101.	100904035	Iqbal Singh	Study of renewable energy scenario in India and study of design of renewable energy project of PEDA and its revival	PEDA, Sec- 33 D, Chandigarh
102.	100904036	Jayantvir Singh	Load scheduling	SLDC, Ablawal, Patiala
103.	100904037	Kavish Sachar	Design of sub-station and transmission line	Central Electricity Authority, Sewa Bhawan, New Delhi
104.	100904040	Manavpreet Singh	Increase in production of differential housing line of HMS by decreasing the breakdown of CNC machines	Mahindra & Mahindra, Phase V, Industrial Area, Mohali
105.	100904041	Mitali Jindal	Ebase- customization for engineering process	Siemens Ltd. Plot 6A, Sector-18, Maruti Industrial Area, Gurgaon

106.	100904042	Munal Saini	DLF capital green, construction by Larsen and Toubro	Larsen & Toubro Limited, International Trade Tower, Nehru Place, New Delhi.
107.	100904043	Namit Katira	Study and planning- MRSS	T3- MRSS, IGI Airport, New Delhi
108.	100904044	Namit Mehta	Alternator excitation system	Siemens Ltd., Maruti Industrial Area, Gurgaon
109.	100904045	Nishant Garg	Testing, assembly and designing of single phase induction motor	Marathon Electric Pvt. Ltd., Sec-11, Model Town, Faridabad
110.	100904046	Nitin Sandhu	Transmission and distribution planning study	Alstom T&D India, A-7, Sec-65, Noida
111.	100904047	Pankaj Jindal	66 kV Arisudana industries ltd.	Amtek Group, Sec-34A, Chandigarh
112.	100904048	Piyush Garg	Up gradation and rehabilitation of traction machines of diesel electric locomotive and study and up gradation in Loco propulsion control and testing	DMW, Patiala
113.	100904049	Prabhat Ranjan	Integration of internet and embedded technology	Core Future 98(56), S.N. Banerjee Road, Barrackporee, Kolkata
114.	100904050	Priya Garg	Familiarization of thermal power station	Siemens Ltd., JIL Building, Tower-B, Sec-18, Gurgaon
115.	100904053	Ranjit Singh	DLF capital green, construction by Larsen and Toubro	Larsen & Toubro Limited, International Trade Tower, Nehru Place, New Delhi
116.	100904054	Ravi Garg	Power loss comparison in MCCB, qualification process for localization of MCCB	Indo Asian, B-24, Phase-II, Noida
117.	100904055	Ricky Garg	Installation of ESP	Indian Acrylics limited, Sec-26, Chandigarh
118.	100904056	Ritesh Malhotra	Power factor improvement	Havell's Ltd, E-1, Sec-59, Noida
119.	100904058	Rupinder Singh	Manufacturing of transformer	Gagan Transmission Ltd. Industrial Focal Point, Patiala
120.	100904059	Sahil Aggarwal	DLF capital green, construction by Larsen and Toubro	Larsen & Toubro Limited, International Trade Tower, Nehru Place, New Delhi
121.	100904060	Sahil Jindal	Standardization of SEL for electrical equipment and corresponding BOQ	Alstom India Ltd., Tech. Boulevard, Sec-127, Noida
122.	100904061	Sant Bux Singh Dutt	66 kV Sub-station	PSPCL, 66 kV Sub-Station, Noorewal, Ludhiana
123.	100904062	Saravjeet Singh Brar	Study of renewable energy scenario in India and Study of design of renewable energy project of PEDDA and its revival	PEDA, Sec-33D, Chandigarh

124.	100904063	Sekshey Bakhshi	Study of renewable energy scenario in India and study of design of renewable energy project of PEDA and its revival	PEDA, Sec-33D, Chandigarh
125.	100904064	Shipra Choudhary	Engineering manual preparation and EBASE implementation	Siemens Ltd., Sec-18, Maruti Industrial Area, Gurgaon
126.	100904065	Shobhit Gupta	UC architecture	Ericsson India Pvt. Ltd., Wireless Wing office Building, Greater Noida
127.	100904066	Shubham Rakheja	Green field cement project	Dalmia Cement Bharat Ltd. Sec-3, Noida
128.	100904069	Simranjit Singh Sodhi	DLF capital green, construction by Larsen and Toubro	Larsen & Toubro Limited, International Trade Tower, Nehru Place, New Delhi
129.	100904070	Subhajit Nag	Study and planning- MRSS and ATC	GMR Group, IGI Airport, New Delhi
130.	100904071	Surbhi Jain	Fortis hospital and Hilton hotel	Schneider Electric India Ltd., DLF Cyber City, Phase 2, Gurgaon
131.	100904075	Vatsal Madan	Spare parts and inventory control in engine plant maintenance	Hero Motor Corp. Ltd., Delhi- Jaipur Highway, Sec-33, Gurgaon
132.	100904076	Vidit Agarwal	Signaling	Siemens Ltd., 4A, Ring Road, IP Estate, New Delhi
133.	100904077	Vipin Bansal	Locomotive components	Siemens Ltd., I.P Estate, New Delhi
134.	100904078	Vivek Agrawal	Review of design of industrial switchgear	Indo Asian, B-24, Phase -II, Noida
135.	100904079	Hitesh Bharti	Study of medium voltage switchgear	Schneider Electric Infra Structure Ltd. Vadodara Halol Highway, Vadodara
136.	100904080	Abhineet Gupta	SCADA for Brihan Mumbai electric supply and transport undertaking	Alstom T/D, Plot A7, Sec-65, Noida
137.	100904082	Asheem Garwa	Operation and maintenance of electro-mechanical Systems	GMR Group, IGI Airport, New Delhi
138.	100904084	Jatin Dosajh	Tripping time variation in MCB during thermal testing	Havells India Ltd., Village Dharampur, Baddi
139.	100904085	Sarabjeet Singh Bhatti	Maintenance management (Electrical)	GSC Glass Ltd., Udyog Vihar Industrial Area, Greater Noida
140.	100904086	Siddharth Garg	Switchyard design	Alstom Tech. Boulevard, Tower C, Sec-127, Noida
141.	101084001	Achalvir Singh Bedi	DLF capital green, construction by Larsen and Toubro	Larsen & Toubro Limited, International Trade Tower, Nehru Place, New Delhi
142.	101084002	Dinesh Chauhan	Study of traction motors and generators	DMW, Patiala

(d) Awards / recognitions received at the national and international level by Faculty

S. No.	Name of the faculty	Award / Fellowship/ Nominations	University/ Organization	Month and Year
1	Mr. Sarath Babu Dhuvri	Awarded Best technical paper	NC RACTEE 09, SLIET Longowal	Oct. 2009
2	Ms. Ruchika	S.P. Luthra Memorial Gold Medal	NITTR Chandigarh	Nov. 2009
3	Ms. Manbir Kaur	Conferred Free Membership IET London	IET London	2009-2010
4	Ms. Manbir Kaur	Nominated as representative	IET Delhi Network	June, 2010
5	Dr. M.D.Singh	Consolation Prize in India Analog Design Competition	Texas Instruments, India	2011
6	Dr. Smarajit Ghosh	Bharat Jyoti Award	IIFS, New Delhi	March 27, 2012
7	Dr. Ravinder Agarwal	Best poster paper	International Conference on Environmental and Health Technology (EH&T)IIT, Kanpur	March 15-17, 2010
8	Dr. Ravinder Agarwal	Best paper award	AdMet - 2014, Thapar Institute of Engineering & Technology University, Patiala	Feb. 19-21, 2014
9	Mr. Nirbhowjap Singh	Best paper award	RACTEE-2011, SLIET, Longowal	Feb. 2011
10	Ms. Manbir Kaur	First prize in robot path finding competition	CVC-2013, Sri Lanka	Sep. 10, 2013
11	Ms. Manbir Kaur	Associate Membership IET, London	IET, London	2013, 2014
12	Mr. Nirbhowjap Singh	Associate Membership IET, London	IET, London	2013, 2014

29. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

Short term Courses/workshops

S. No.	Module description	Developed /organized by	Duration	Resource persons	Target Audience
1	CEEP Course on Lab. VIEW and its Applications	EIED, Thapar Institute of Engineering & Technology University, Patiala	April 2-3, 2008	Dr. Smarajit Ghosh Mr. Sunil Kumar Singla	UG/PG
2	CEEP Course on Intelligent system Design and Soft Computing Techniques	EIED Thapar Institute of Engineering & Technology University, Patiala	April 24-25, 2008	Dr. Smarajit Ghosh Dr. Yaduvir Singh Dr. Mandeep Singh Ms. Gagandeep Kaur	UG/PG
3	CEEP Course on Software Applications in Electrical Engineering	Thapar Institute of Engineering & Technology University, Patiala	May 15-16, 2008	Dr. Smarajit Ghosh Dr. Yaduvir Singh Dr. Sanjay Jain Mr. Yogesh Chauhan Sh. Parag Nijhawan	UG/PG
4	Workshop on Progammng in C and its Application	Thapar Institute of Engineering & Technology University, Patiala	June 02-15, 2008	Dr. Smarajit Ghosh	UG
5	Workshop on Embedded Systems in collaboration with Freescale Semiconductor (P) Ltd. Noida	Thapar Institute of Engineering & Technology University, Patiala	April 21, 2010	Mr. M. D. Singh Mr. Vineet Srivastav	UG /M.E.EIC
6	Workshop on C++, MATLAB and LABVIEW	Thapar Institute of Engineering & Technology University, Patiala	June - July 2010	Mr. Parag Nijhawan Mr. Sunil Kumar Singla	UG
7	Basics in Metrology	Metrology Society of India&Thapar Institute of Engineering & Technology University, Patiala	Feburary 19, 2014	Ms. Manbir Kaur Dr. Ravinder Agarwal	UG/PG/ Industrialist

Conferences:

S.No.	Name of Conference	Dates	Name of Eminent Scientists /Scholars	National/ International
1.	National Conference on Trends in Instrumentation and Control Engineering	Oct. 29-30,2009	Dr. Sneh Anand, AIIMS, Delhi Dr. Dey, NITTR, Chandigarh Dr. P.S. Bimbhra, Thapar Institute of Engineering & Technology University, Patiala Dr. S. Chatterji, EED, NITTR, Chandigarh	National
2	Integrated Computational Techniques in Electrical Engineering	Jan.18 -19, 2014	Dr. S. Chatterji, EED, NITTR, Chandigarh Dr. P.S. Bimbhra, Thapar Institute of Engineering & Technology University, Patiala Dr. AjatShatruArora, EIED, SLIET, Longowal Dr. Sanjay Marwaha, EIED, SLIET, Longowal Dr. R.S. Bhatia, EED, NIT, Kurukshetra	National
3	3 rd National Conference on Advances in Metrology (AdMet-2014)	19-21 February, 2014	Dr. R.C. Budhani, CSIR-NPL, New Delhi Dr. Chandra Shekhar, CSIR-CEERI, Pilani Dr. Anil Relia, Director NABL, New Delhi Mr. Harish Bajaj, Mitutoyo South Asia Pvt. Ltd., New Delhi Dr. A.K. Bandhopadhyay, CSIR-NPL, New Delhi Mr. B.N. Dixit, Legal Metrology Department, New Delhi Dr. Amod Kumar, CSIR-CSIO, Chandigarh Dr. B.S. Satyanarayan, R.V. College of Engineering, Bangalore Mr. Peter Andrews, ASL WIKA Instruments Calibration Technology, U.K. Dr. K.J. Rangra, CSIR-CEERI, Pilani Dr. Ajay Agarwal, CSIR-CEERI, Pilani	National

30. Code of ethics for research followed by the departments

- *Two research papers in SCI Journals before submission of PhD*
- *No weightage to papers published in paid SCI journal*
- *Paper has to be properly reviewed*
- *Anti-plagrisim software certificate or clearance is required before submitting the thesis of M.E. / Ph.D.*

31. Student profile program-wise:

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass %	
		Male	Female	Male	Female
ME(EIC)- 2014	80	13	16	Pursuing	
ME(EIC)- 2013	75	14	16	Pursuing	
ME(EIC)-2012	71	18	9	100	100
ME(EIC)-2011	69	22	9	99.91	100
ME(EIC)-2010	72	19	10	100	100
ME(EIC)-2009	70	21	4	90	100

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass %	
		Male	Female	Male	Female
ME(PS)-2014	98	19	11	Pursuing	
ME(PS)-2013	88	19	9	Pursuing	
ME(PS)-2012	90	19	9	100	100
ME(PS)-2011	97	23	7	91.30	85.71
ME(PS)-2010	95	24	8	100	100
ME(PS)-2009	91	17	9	88.23	100
BE(EIC)-2014	140 98	73	41	Pursuing	
BE(EIC)-2013	14784	80	43		
BE(EIC)-2012	15788	57	19		
BE(EIC)-2011	16843	61	24		
BE(EIC)-2010	16998	53	28	96.22	100
BE(EIC)-2009	18211	51	36	100	100
BE(EE)-2014	14098	107	30	Pursuing	
BE(EE)-2013	14784	96	26		
BE(EE)-2012	15788	64	13		
BE(EE)-2011	16843	74	11		
BE(EE)-2010	16998	71	13	94.37	100
BE(EE)-2009	18211	74	09	93.24	100

32. Diversity of students

Name of the Programme (refer to question no. 4)	Batch	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.E.(PSED/PS)	2009-2011	0	70	25	5
	2010-2012	3.1	62.5	31.2	3.1
	2011-2013	3.5	21.4	75	0
	2012-2014	3.7	33.4	62.9	0
	2013-2015	7.14	46.4	53.6	0
	2014-2016	3.33	33.3	66.7	0
M.E. (EIC)	2009-2011	0	40	60	0
	2010-2012	0	45	55	0
	2011-2013	3.3	46.6	53.3	0
	2012-2014	7.4	18.5	77.7	3.7
	2013-2015	0	35	65	0
	2014-2016	6.89	58	42	0

Name of Program	Batch	% of students from within the State	% of students from outside the State
B.E. (Electrical Engg.)	2009-2013	50	50
	2010-2014	50	50
	2011-2015	50	50
	2012-2016	50	50
	2013-2017	50	50

	2014-2018	50	50
B.E. (Electronics (Instrumentation &Control Engg.)	2009-2013	50	50
	2010-2014	50	50
	2011-2015	50	50
	2012-2016	50	50
	2013-2017	50	50
	2014-2018	50	50

33. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Examinations	Percentage cleared
Civil Services	1-2
Defence Services	nil
NET	nil
SET(MBA)	30-40
GATE	20-30
Others	25-30

34. Student progression

Student progression	% against enrolled
UG to PG	10
PG to M.Phil.	-
PG to Ph.D.	15
Ph.D. to Post-Doctoral	-
Employed	
• Campus selection	80-85
• Other than campus recruitment	15-20
Entrepreneurs	1-2

35. Diversity of staff

<i>Percentage of faculty who are graduates</i>	
of the same university	2.94%
from other universities within the State	26.47%
from universities from other States	70.59%
from universities outside the country	Nil

36. Number of faculty awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

S.No.	Name of Faculty	Degree	Year	Institute
1	Mr. Sunil Singla	Ph.D.	2012	Thapar Institute of Engineering & Technology University, Patiala
2	Ms. Gagan Deep Kaur	Ph.D.	2012	Thapar Institute of Engineering & Technology

				University, Patiala
3	Mr. M D Singh	Ph.D.	2014	Thapar Institute of Engineering & Technology University, Patiala
4	Mr. Nitin Narang	Ph.D.	2014	Thapar Institute of Engineering & Technology University, Patiala

37. Present details of departmental infrastructural facilities with regard to

S.No.	Room Description	Usage	Shared/Exclusive	Capacity	Rooms equipped with
1	Class Room	Class Room for UG Students	Shared at university level (10 rooms for dept.)	50/130	Glass/White board, multimedia projectors, ICT enabled, acoustics controlled, lighting proper ventilation, Comfortable chairs/benches, Podium etc
2	-do-	Class Room for PG Students	One Room	-do-	-do-
3	Tutorial Rooms	Tutorial Rooms for UG and PG Students	(15-16 Rooms for dept.)	50	-do-
4	Drawing halls	For holding drawing classes	2 rooms	40/60	Glass/White board, multimedia projectors, ICT enabled Drawing tables, stools, proper lighting and air circulation, podium etc.
5	Seminar Room	Seminar Rooms For UG, PG and Ph.D. Students	Shared at university level	50/100	Glass/White board, multimedia projectors, ICT enabled, acoustics, good air circulation, Proper lighting, Comfortable chairs, podium etc.
6	Activity Room	C-Hall for holding meetings, organise activities in larger group	Centralised	350	White board, multimedia projectors, ICT enabled, acoustics controlled, air conditioners, Proper lighting, Comfortable chairs, podium, dias tables and chairs, etc.
7	Auditorium	Univ level activities	Centralised	650	Screen, multimedia projectors, ICT enabled, acoustics controlled, air conditioners, Proper lighting, Comfortable chair etc.
8	Open air theatre	For screening important events like movies, cricket, football matches, Cultural Festival events, Convocation venue	Centralised	1000/1500	All arrangements are done as per the requirement of the event to be organised in OAT

S.No.	Room Description	Usage	Shared/Exclusive	Capacity	Rooms equipped with
9	Placement Cell	For campus recruitments	Shared by students		ICT enabled, Air conditioners, acoustics controlled, proper lighting, round table sitting arrangements seminar hall, interview rooms, Rooms for discussions, waiting rooms
10	Meeting Rooms	For Faculty meetings	Shared by faculty of Univ.	10/30	LED screen, proper lighting, round table sitting arrangements, Air conditioners
11	Faculty Rooms	For Faculty	Shared/Exclusive	Exclusive:9 Shared :12 Cabin: 4	Internet, Computer, Chairs, intercom, Good Lighting and air circulation, enough space for discussion/counseling with students

e) Students' laboratories

S. No.	Core Lab Description	Space (sq. ft.)	No. of Experiments	Quality of Instruments	Lab manuals
1.	Electrical Engg. core lab	3000	12/14	Good working condition and of standard make	Available
2.	Electromechanical Lab/Alternating current machines Lab	1800	10/12	Good working condition and of standard make	Available
3.	Power Electronics and Drives Lab/Power converter lab	1000	10/12	Good working condition and of standard make	Available
4.	High Voltage I Lab	1500	10	Good working condition and of standard make	Available
5.	High Voltage II Lab	1200	2	Good working condition and of standard make	Available
6.	Switchgear and Protection Lab	900	10/12	Good working condition and of standard make	Available
7.	Biomedical Lab	450	10/12	Good working condition and of standard make	Available
8.	Instrumentation and Control Lab	1200	10/12	Good working condition and of standard make	Available
9.	Instrumentation System Design Lab	600	12/15	Good working condition and of standard make	Available
10.	Power System Simulation Lab	600	s/w based	Good working condition and of standard make	Available
11.	Free scale lab/ μP & μC Lab	550	10/15	Good working condition and of standard make	Available
12.	Virtual Instrumentation Lab	450	S/W based	Good working condition and of standard make	Available
13.	Analog and Digital Electronics Laboratory	1200	12+12	Good working condition and of standard make	Available

f) Research laboratories:

Biomedical Research Laboratory

List of doctoral, post-doctoral students and Research Associates

a) from the host Institution/University

S. No.	Reg. Number	Name of student from host dept.	Name of Supervisor from Thapar Institute of Engineering & Technology University	Name of External Supervisor	Affiliation of External Supervisor
1	950904009	Nirbhawjap Singh	--	Dr. J.S. Dhillon Dr. D.P. Kothari	SLIET, Longowal G Patil Group of Institutes, Nagpur
2	950904011	Suman Bala	Dr. Smarajit Ghosh	--	--
3	950904015	Manbir Kaur	--	Dr. J.S. Dhillon Dr. D.P. Kothari	SLIET, Longowal G Patil Group of Institutes, Nagpur
4	950904019	Navdeep Kaur	Dr. Sanjay Jain	--	--
5	951004003	Shakti Singh	--	Dr. S.C Kaushik	IIT, Delhi
6	951104001	Puneet Mishra	Dr. Sunil Singla	--	
7	951104002	Moon Inder Singh	Dr. Mandeep Singh	--	
8	951104003	Vikram Chopra	Dr. Sunil Singla	Dr. Lillie Dewan	NIT, Kurukshetra
9	951104005	Souvik Ganguli	Dr. Gagandeep Kaur	Dr. Prashant Sarkar	GKMCIT, Malda, West Bengal
10	901104001	Karan Veer	Dr. Ravinder Agarwal	Dr. Amod Kumar	CSIO, Chandigarh
11	901104002	Indu Batra	Dr. Smarajit Ghosh	--	
12	901204001	Abhay Krishan	Dr. Deepti Mittal	--	
13	901204006	Sharad Kumar Tiwari	Dr. Gagandeep Kaur	--	
14	901304001	Aman Kataria	Dr. Smarajit Ghosh	--	
15	901304002	Atul Sharma	Dr. Sunil Singla	--	
16	901404006	Smiti Sachdeva	Dr. Ravinder Agarwal	Dr. Ajay Agarwal	CEERI, Pilani
17	951304002	Shailesh Kumar	Dr. K.K. Raina	Dr. Tarikul Islam	Jamia Millia Islamia, Delhi

b) from other Institutions/Universities:

S. No.	Reg. Number	Name of student outside TU	Name of Supervisor from Thapar Institute of Engineering & Technology University	Name of External Supervisor & Affiliation	Affiliation of Student
1	90704503	Surender Singh	Dr. Ravinder Agarwal	Dr. V. R. Singh PDM Engg. College, Bahadurgarh	Cadence, Noida
2	950804008	Sarika Sharma	Dr. Smarajit Ghosh	--	Govt. Polytechnic, Ambala
3	950804011	Suman Datta	Dr. Mandeep Singh	Dr. Amod Kumar, CSIO, Chandigarh	LPU, Jalandhar

S. No.	Reg. Number	Name of student outside TU	Name of Supervisor from Thapar Institute of Engineering & Technology University	Name of External Supervisor & Affiliation	Affiliation of Student
4	950904001	Rajni Bala	Dr. Smarajit Ghosh	--	BBSBCES, Fatehgarh Sahib
5	950904005	Amit Kumar	Dr. Mandeep Singh	--	Geeta Institute of Management and Technology Kurukshetra
6	950904006	Karamjit Kaur Sekhon	Dr. Hardeep Singh	--	Amity University, Noida
7	950904012	Ranjan Walia	Dr. Mandeep Singh	--	Geeta Institute of Management and Technology Kurukshetra
8	950904014	Gagandeep Singh Gill	Dr. Ravinder Agarwal	Dr. Amod Kumar, CSIO, Chandigarh	Kurukshtra University
9	950904020	Satnam Mahley	Dr. Sanjay Jain	--	SIEMENS India Ltd., New Delhi
10	950904021	Divya Gupta	Dr. Sanjay Jain	--	BBSBCES, Fatehgarh Sahib
11	950904027	Ajit Pal Singh	Dr. Sanjay Jain	--	Govt. Polytechnic College, Khooni Majra
12	950904028	Shiv Kumar Jaiswal	Dr. Ravinder Agarwal	Dr. Sanjay Yadav , NPL, New Delhi	NPL, New Delhi
13	951004001	Abha	Dr. Mandeep Singh	Dr. A.S Reddy School of Energy and Environment	Thapar Polytechnic College, Patiala
14	951104001	Puneet Mishra	Dr. Sunil Singla	--	GJU, Hisar
15	951104004	Manvir Kaur	Dr. Smarajit Ghosh	--	NIT, Jalandhar
16	951204004	Puja Bharti	Dr. Deepti Mittal	--	Logic Fruit Technologies, Gurgaon
17	951204001	Inderjeet Singh Dhindsa	Dr. Ravinder Agarwal	--	Govt Polytechnic College, Ambala
18	951204002	Inderpreet Singh	Dr. Sunil Singla	Dr. Vijay Sood Univ. of Ontario Institute of Tech., Canada	Chandigarh University, Kharar
19	950904017	Amanpreet Kaur	Dr. Smarajit Ghosh	--	BBSBCES, Fatehgarh Sahib
20	951204003	Ashish Aggarwal	Dr. Ravinder Agarwal	--	KITM, Kurukshetra
21	950906023	Atul Bansal	Dr. Ravinder Agarwal Dr. RK Sharma	--	GLA, Mathura

S. No.	Reg. Number	Name of student outside TU	Name of Supervisor from Thapar Institute of Engineering & Technology University	Name of External Supervisor & Affiliation	Affiliation of Student
22	951204005	Jaskirat Kaur	Dr. Deepti Mittal	--	Chandigarh College of Engineering & Technology, CHD

38. Number of post graduate students getting financial assistance from the university.

➤ **M.E. (EIC)-2014**

S. No.	Roll No.	Name of Student	Branch & Year
1	801451001	Anju Rani	M.E.(EIC) First Year
2	801451004	Asim Abdullah	M.E.(EIC) First Year
3	801451005	Dharmesh Singh	M.E.(EIC) First Year
4	801451007	Harish Kothari	M.E.(EIC) First Year
5	801451009	Harupjit Singh	M.E.(EIC) First Year
6	801451010	Himanshu Paul	M.E.(EIC) First Year
7	801451011	Inderjeet Singh	M.E.(EIC) First Year
8	801451012	Praveen Kumar	M.E.(EIC) First Year
9	801451014	Komal	M.E.(EIC) First Year
10	801451015	Krittika Goyal	M.E.(EIC) First Year
11	801451016	Mansi Vats	M.E.(EIC) First Year
12	801451018	Palwinder Kaur	M.E.(EIC) First Year
13	801451020	Ramandeep Kaur	M.E.(EIC) First Year
14	801451021	Ravneet Kaur Sidhu	M.E.(EIC) First Year
15	801451023	Sankalp Paliwal	M.E.(EIC) First Year
16	801451024	Sidharth Pancholi	M.E.(EIC) First Year
17	801451026	Sukeeratpal Singh	M.E.(EIC) First Year
18	801451028	Vishu	M.E.(EIC) First Year
19	801451029	Vivek Rastogi	M.E.(EIC) First Year

➤ **M.E. (EIC)-2013**

S. No.	Roll No.	Name of Student	Branch & Year
1	801351002	Akanksha Sharma	M.E.(EIC) Second Year
2	801351004	Deepak Jain	M.E.(EIC) Second Year
3.	801351014	Nisha Chugh	M.E.(EIC) Second Year
4	801351018	Puneet Arya	M.E.(EIC) Second Year
5	801351019	Puneet Tiwari	M.E.(EIC) Second Year
6	801351021	Rohit Khanna	M.E.(EIC) Second Year
7	801351022	Sachpreet Kaur	M.E.(EIC) Second Year
8	801351023	Sakshi Bharti	M.E.(EIC) Second Year
9	801351024	Santosh Kr Mishra	M.E.(EIC) Second Year
10	801351025	Shashi Shekhar	M.E.(EIC) Second Year
11	801351026	Shipra Jain	M.E.(EIC) Second Year
12	801351028	Sonika	M.E.(EIC) Second Year
13	801351029	Vinyas Malagaudanava	M.E.(EIC) Second Year

➤ **M.E. (PS)-2013**

Sr. No.	Roll No.	Name	Branch & Year
1.	801341001	Aanchal Jagga	Power Systems(Second Year)
2.	801341002	Ashutosh Nayan Dey	Power Systems(Second Year)
3.	801341004	Gurdamandeep Singh	Power Systems(Second Year)
4.	801341006	Jasmine	Power Systems(Second Year)
5.	801341007	Kawarjeet Singh	Power Systems(Second Year)
6.	801341008	Khyati	Power Systems(Second Year)
7.	801341010	Nagendra Singh	Power Systems(Second Year)
8.	801341011	Nitish Chandra	Power Systems(Second Year)
9.	801341012	Pankaj	Power Systems(Second Year)
10.	801341014	Parul	Power Systems(Second Year)
11.	801341015	Pooja Chauhan	Power Systems(Second Year)
12.	801341016	Punit	Power Systems(Second Year)
13.	801341017	Rajeev	Power Systems(Second Year)
14.	801341018	Rajinder Singh	Power Systems(Second Year)
15.	801341021	Ritu	Power Systems(Second Year)
16.	801341022	Sandeep Singh	Power Systems(Second Year)
17.	801341023	Saurabh	Power Systems(Second Year)
18.	801341024	Shashank	Power Systems(Second Year)
19.	801341026	Simerjeet kaur	Power Systems(Second Year)
20.	801341028	Veena Yadav	Power Systems(Second Year)

➤ **M.E. (PS)-2014**

S.No.	Roll No.	Name	Branch & Year
1	801441002	Akansha Sharma	Power System(First Year)
2	801441003	Amandeep Singh	Power System(First Year)
3	801441004	Anupam Dixit	Power System(First Year)
4	801441005	Anuradha Pal	Power System(First Year)
5	801441006	Bharat Singh	Power System(First Year)
6	801441009	Gaurav Kumar	Power System(First Year)
7	801441010	Gaurav Somani	Power System(First Year)
8	801441012	Jasandeep Singh	Power System(First Year)
9	801441014	Kavita Yadav	Power System(First Year)
10	801441016	Manish Verma	Power System(First Year)
11	801441017	Manpreet Kaur	Power System(First Year)
12	801441019	Pankaj Verma	Power System(First Year)
13	801441021	Rahul Tomar	Power System(First Year)
14	801441022	Rituraj Patwal	Power System(First Year)
15	801441023	Rohit Nandi	Power System(First Year)
16	801441024	Rubi Rana	Power System(First Year)
17	801441027	Shiwani Jain	Power System(First Year)
18	801441025	Sheenam Goyal	Power System(First Year)
19	801441028	Shubhangi Jagota	Power System(First Year)

39. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. Need assessment exercise is undertaken before the development of new programme. The methodology is that the feedback from students as well as faculty is taken to analyze the course or program to be offered. The feedback from industry is also taken through CILP at university level to meet the latest requirements of industry. Meetings in the department are conducted to analyse the feedback received from various sections and based on the thrust area of interest of the department. The department IAP coordinator also takes the feedback from industry and students who are undergoing training in different industries during project semester. The faculties pursuing research in different areas also contribute for the same. Departmental decision proceeds to Board of Studies. The BOS meeting is called where area experts from outside the university in academics, R&D organisations and industry also provide their expert opinion which is considered for further improvement and amendments are done.

40. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes the feedback of faculty on curriculum is discussed at length during DPPC meetings. The proposals/suggestions are taken into consideration from time to time revisions of the curriculum and on need basis as well.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, feedback is taken at the university level in the form of student reaction survey twice in a semester for each course. Students Reaction Survey (SRS) report is the medium for feedback of respective subject and is available on webkiosk account of concerned faculty. Head of Department has access to all accounts for feedback database of an individual. He/she shares and interacts with the faculty during department meetings in general or in person for improvement on regular basis. Further class representatives can always discuss with head of department such issues.

There is student consultative committee (SCC) working at the university level. Three/four students of each class(year) are members of the committee. The students also give their feedback and views about the academic activities in addition to other student related issues in the presence of head of departments and deans. Corrective measures as and when required are taken and implemented.

The department also runs student counseling cell where department faculty mentors are assigned

for each class for interaction with students in general in small groups and specifically for academically deficient students. These interaction sessions are held regularly in the department.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

The alumni and employers are regularly consulted for their important suggestions on the programmes offered and the department incorporates the feedback to improve the contents in the syllabi of the courses offered. In addition, the feedback is also taken for nature of job requirements so that curriculum is updated to meet the market requirements and to ensure 100% placement of students.

41. List the distinguished alumni of the department

S.No.	Name of Alumnui	Company
1.	Dr. V. R. Singh	Former Director Grade Sci. (NPLI), Director, PDM, Haryana
2.	Dr. Sneha Anand	Professor & Head, BMI Centre, IIT Delhi
3.	Dr. Tarlochan Sidhu	Professor & Chair, Hydro, Univ. of Westren Ontatrio, Canada
4.	Mr. Samarjeet Singh Kalsi	Nuclear Power Corporation of India Limited
5.	Mr. Gurinder Singh Sagoo	GE Motors, Canada
6.	Mr. Anirudh Tiwari	IAS officer, 1990
7.	Mr. Anurag Verma	Topped IAS, 1989
8.	Mr. Vijay Kumar Talwar	Director (Personal) EIL India Ltd.
9.	Mr. Subhash Chander Manjal	Chairman & M D Haryana Electricity Board
10.	Mr. Asra Garg	IAS Topper, 2006
11.	Dr. S C Parti	Principal, APJ College of Engineering, Faridabad (Former Prof. & Dean, TIET)
12.	Mr. Vijay kumar Nayyar	V P North Region Crompton Greaves, Bombay
13.	Mr. Basant Lal Anand	Chair Electrical Engineering, North Carolina, Ottawa, Canada

42. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

S. No	Name of Speaker	Address of the speaker	Topic of Discussion	Venue, Time and Date	Target Audience
1	Dr.T.K. Saxena	Scientist (F), CSIR-NPL, New Delhi	Industrial Automation	F-102, 1500 hrs. Aug.7,2014	BE, ME PhD Students
2	Dr. R. N. Sharma	Professor,EED, NIT Hamirpur	Automatic Generation Control	C-Hall, 1500 hrs.Aug. 8,2014	BE, ME PhD Students
3	Sh Susheel Chandra	Sci. -F, DRDO-INMAS, Delhi	Cognitive Science	B-309, 1200 hs., Aug.11, 2014	BE (EE & EIC) Final Year
4	Prof. S.P.Singh	Professor, EED, IITR, Roorkee	Applications of Power Electronics in Renewable Energy	C-Hall, 0900 hrs.Aug.14, 2014	BE, ME PhD Students

S. No	Name of Speaker	Address of the speaker	Topic of Discussion	Venue, Time and Date	Target Audience
5	Prof. Tarikul Islam.	Professor, EED. Jamia Milia Islamia, University, Delhi	Resistive transducers and its Detection Electronics Circuits	C-Hall, 1500hrs. Sept.13, 2014	BE, ME PhD Students
6	Prof. N.P. Padhy	Professor, EED, IIT Roorkee	Challenges of Distributed Generation to Distribution Networks	Seminar Hall, 1100 hrs., Aug 8, 2014	BE, ME PhD Students
7	Dr. Vijay Sood	Asso. Prof. University of Ontario, Institute of Technology, Canada	Smart grid and FACTS modelling	CILP Seminar Hall, 1100 hrs., Dec.16, 2014	ME PhD Students
8	Dr. Prem Masand	Oncologist, Mount Abu	Intelligence Beyond	TAN building seminar room, 1730 hrs., Feb. 27, 2015	Open to all
9	Dr. Sukumar Mishra	Professor, IIT, Delhi	Smart Grids	C- Hall, 1100hrs.AM, March 24, 2015	BE, ME PhD Students
10	Dr. Ajay Agarwal	Principle Scientist, CEERI, Pilani	Nanoelectronics & Microgap Fluidic Activities at CEERI, Pilani	C- Hall, 1100hrs.AM, March 30, 2015	BE, ME PhD Students

43. List the teaching methods adopted by the faculty for different programmes.

- Faculty gives ppts on projectors, if required
- Tutorial classes are engaged to enhance problem solving skills
- Students are given assignments with an objective to inculcate the habit of literature survey.
- Students are given case studies to broaden their understanding and implementation of basic laws and principles they have understood, if required
- Laboratory sessions for imparting practical knowhow are engaged.
- Regularity and punctuality in classes is maintained
- Industry tours are arranged so that students can gain the practical knowledge
- Special lectures by experts from IITs/CSIR/DRDO labs are organized.

44. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The department ensures that programme objectives are justified satisfactorily through

- Feedback survey from students and parents
- Percentage and quality Placements of students

- *Feedback survey from Alumni*
- *Feedback survey from employers*

The department monitors the learning outcomes through

- *Continuous evaluation in which assignments, group discussions, presentations, problem solving skills in tutorials, mid semester tests, quizzes, viva-voce, laboratory evaluations are held regularly and finally end semester tests.*

45. Highlight the participation of students and faculty in extension activities.

S. No.	Date of Activity	Extention Activities
1.	April 21, 2010	One day workshop in collaboration with FREESCALE semi. (I) Noida
2.	February 9, 2013	Seminar conducted by experts from Netmax
3.	February 9-10, 2013	Presented by iARC, International Robotics Challenge
4.	September 2, 2013	How to make CV effective: Talk by Mr. Preetinder Verma, A distinguished Thapar Alumni, 2009
5.	September 12, 2013	Talk on civil services examination: guidance & motivation by experts from Abhimanyu Classes, Chandigarh
6.	October 2, 2013	EXODUS
7.	October 11-12, 2013	Workshop by Dr. Narendra Babu from Texas instruments
8.	November 22, 2013	Mr. Kuljeet Sandhu, Managing Director, IQBri Telecom Pvt. Ltd was invited for a talk on 3G technology
9.	January 25, 2014	Seminar on solar energy by Anoop Verma and Dr. S.K. Mahla
10.	February 22-23, 2014	PLC SCADA workshop on delivered by Prateek Gupta (CEO & Founder- Innovians Technologies)
11.	February 22- 23, 2014	Analog design contest in collaboration with Texas Instruments and Cranes software
12.	June 30- July 1, 2014	Two days Workshop on LabView 2013 by National Instruments, Bangalore
13.	November 11-12, 2014	Two days Workshop on PIC Micro-controller
14.	January 16, 2015	One day workshop on Engineering and Science Innovation
15.	February 28- March 01, 2015	Workshop for Presentation Skills (EE)
16.	March 21-22, 2015	Workshop for Interview Skills (EE)
17.	April 25-26, 2015	Workshop for Presentation Skills (EIC)
18.	May 02-03, 2015	Workshop for Interview Skills (EIC)
19.	March 19, 2015	Workshop for GATE Preparation and Awareness

46. Give details of “beyond syllabus scholarly activities” of the department.

S. No.	Name of Faculty	Activity involvement
1	Dr.Ravinder Agarwal	Meterology Society of India (HQ: NPL New Delhi)
2	Ms.Manbir Kaur	IET Student Chapter (HQ: IET, London)
3	Dr.Gagandeep Kaur	Institution of Engineers Student chapter (HQ: IE,Kolkatta)

Under the aegis of these professional societies, workshops, seminars, conferences, expert lectures, technical activities are conducted which not only inculcates the skills of leadership, team work, harmonious relationship building but also enhances the student's knowledge in thrust areas and learns about innovative technologies.

47. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

- *ISO9001:2008 Certified*
- *NBA:NBA/31-21/2010-NBA January 29, 2013*
- *NAAC :accredited*

48. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- *Faculty and research scholars publish their research work in the SCI indexed journals*
- *Students are involved in research projects*
- *Facilitation to students to participate in technical competitions/events at national and international level*

49. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

➤ **STRENGTHS:**

- *Quality intake at UG level*
- *Well equipped laboratory infrastructure for undergraduate students*
- *Oppurtunity to students for industrial exposure through project semester, industrial trainings and educational visits*
- *Industry collaboration (Thapar Freescale system laboratory)*
- *Good and consistent placement records*
- *Dynamically updated course structure*
- *Books authored by faculty have been published by national and international publishers*

➤ **WEAKNESSES**

- *Motivation among faculty for research and sponsored projects*
- *Number of faculty at senior level*
- *Less number of publications in SCI journals*
- *Less number of research oriented laboratories*
- *Low placement at PG level*

➤ **OPPORTUNITIES:**

- *International collaborations for academics and research*
- *Enhance reach through techno-entrepreneurship amongst youth*
- *To be a QIP center*
- *Collaboration with other departments/schools for research in computing techniques, bio-civil engineering etc.*
- *Increase in strength of full time Ph.D. research scholars*
- *Take up industry specific problems for research*
- *Industry participation in lab and curriculum design*

➤ **CHALLENGES**

- *Ph.D. faculty in major areas of research*
- *Cost of research/consultancy oriented Laboratory infrastructure*
- *Poor placement of PG Students in industry*
- *High student-faculty ratio*
- *Testing and Consultancy Facility*

50. Future plans of the department

- *To grow horizontally by initiating new innovative multidisciplinary programs*
- *Initiating memorandum of understanding with leading National & International academic &/or research organizations*
- *More research projects in the thrust area of the department*
- *To create laboratory infrastructure and testing centres of National and International repute*
- *To strive to achieve International accreditation for UG and PG programs*