**sant longowalinstitute of engineering &technology, Longowal**

**ACADEMIC AUDIT**

**PURPOSE OF THE AUDIT:**

The objective of AA is to evaluate the performance of the departments/institution and to identify the issues need attention to improve the quality of Teaching and Research.

The main objectives of AA are :

1. To assess the strengths and weaknesses of the Departments and to suggest the methods for improvement and for overcoming the weaknesses related with teaching, learning and evaluation.
2. To ascertain whether the Departments are functioning efficiently and effectively with proven records of capacity building, research projects and publications and extension over a period of time.
3. To identify the bottlenecks in the existing academic mechanisms and to identify the opportunities for reforms in academic, administration, and examination system for a long term progression with excellence and to face the challenges of globalization in Higher Technical Education (HTE).
4. To evaluate the optimum utilization of financial and other resources, issues concerning with leadership and organization, functional autonomy and financial management of Departments/Centers.
5. To suggest the methods of improvement for maintaining quality in HTE.

**METHODOLOGY:**

**Department Profile**

* The Institute, through a well structured format, collects the necessary primary data and information from all the Departments/Centers of Studies on Programs Offered, Students Enrolment, Faculty Strength, Infrastructure, Research Projects, Consultancy, Publications, FDPs and other programmes/students activities conducted during the last year as well as last **three** years.
* The system of evaluation and internal assessment and the results of students, placement and further progression of students in HTE are assessed using these details.

**Profile of Teachers**

* To assess Faculty Qualification, Experience, Research Publications during the last three years, number of Research Projects, and Resource Generation by the faculty, Conferences Attended and Papers Presented, Foreign Academic Visits, Fellowships Obtained, Countries Visited, Organizations of Conferences, Membership of Academic Societies, etc.
* To evaluate the performances of faculty and their capability matrix under the context of their Teaching, Learning, Research and Development, and Extension Activities.

**Feedback of Students**

* To elicit the views of the students regarding the general facilities available in the Department, their opinion about the teaching and research commitment and capability of the Faculty, delays and denials of justice, and for providing better amenities and care on campus with modern tools and techniques.
* Questions regarding teacher’s regularity in conducting classes, providing up-to-date information on the subject, their orientation to the assigned part of the curriculum, style and efficiency of teaching, clarity in imparting information, availability of the teacher before and after the class hours for consultation, general ability of the teachers, their capabilities in motivating students for progression, etc are normally included in such exercises.

**Departmental Visit by Academic Audit Committee (AAC):**

* Presentation of Departmental Profile: The details of their programs, accomplishments, achievements of Faculty and the perspective plans.
* Visit of the Department(s), and Facilities for the purpose of understanding the Department, Faculty and their activities.
* This exercise is carried out in all Departments/Centers to offer valuable suggestions to improve their performances both individually and collectively.
* In addition, the AAC shall also meet the teaching faculty, non-teaching and technical staff to obtain their feedback and suggestions for improvement.
* The AAC shall visit all the laboratories, museums, student amenities, halls of residence, and facilities made available to its stakeholders.

**Head of Audit**

* Teaching & Learning Processes
* Research & Facilities, Professional Activities, Collaborative Performance
* Graduation Outcome
* Perception

**Sant longowal institute of engineering & technology**

**PROFORMA OF ASSESSMENT**

1. **NAME OF THE DEPARTMENT** : Electrical & Instrumentation Engineering

2**. YEAR OF ESTABLISHMENT** : 1991

3. **REVIEWER(S)** : HOD (EIE) Convener

 Dean (R&C)

 Dr. A.S. Arora Nominated by HOD

 Dr. S.S. Dhaliwal

 Dr. P.K. Jain

4. **DATE OF REVIEW** : 10th July 2019

5. **COURSES OFFERED**: (Branch and specialization, year of start:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **ICD** | **UG**  | **PG** | **Ph.D** |
| DEE-CEN |  B.E (GEE ,4 Yrs) | ICE |  |
| DIN-CSMM |  B.E (GIN ,4 Yrs)  |  |  |
| Year of Start | 2014 | 2014 | 2002 | 2007 |

1. **INTAKE OF THE STUDENTS:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of Course(s)** | **2014 Batch** | **2015 Batch** | **2016 Batch** | **2017 Batch** | **2018 Batch** |
| Admitted | Graduated | Admitted | Graduated | Admitted | Graduated | Admitted | Graduated | Admitted | Graduated |
| DIN (2 Years) | 27 | 26 | 17 | 16 | -- | -- | -- | -- | -- | -- |
| ICD/DIN | 47 | 33 | 52 | 42 | 62 | -- | 64 | -- | 63 | -- |
| ICD/DEE | 53 | 44 | 62 | 32 | 64 | -- | 64 | -- | 65 | -- |
| UG/GIN | 15 + 39(LEET) | 51 | 09 + 41(LEET) | -- | 08 + 39(LEET) | -- | 01 + 45(LEET) | -- | 08 | -- |
| UG/GEE | 53 + 05(LEET) | 54 | 47 + 16(LEET) | -- | 15 + 48(LEET) | -- | 25 + 39(LEET) | -- | 24 | -- |
| PG/ICE | 19 | 18 | 14 | 12 | 14 | 11 | 11 | -- | 19 | -- |
| Ph.D | Full Time | \_ |  | 02 | Conti. |  |  | 03 | Conti. | 13 | Conti. |
| Part Time | -- | -- | 03 | Conti. | 01 | Conti. | -- | Conti. | -- | Conti. |
| No. of Ph.D.’s awarded since 2007 till date - 12 |
| GIN – 13(3 Years) | Admitted | Graduated |
| 63 | 56 |

7. **LABORATORY FACILITY**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.****No.** | **Name of the lab**(Lab Incharge) | **Status of Lab** (Quite modernized/Need to be modernized) | **Status of Lab Equipment**(Functioning properly/ Need maintenance/ upgradation) | **No of experiments** (Adequate /Need to be increased) |
| 1 | Electrical Workshop(Lab I/C--Er. DS) | Need to be modernized | Functioning properly and need upgradation | 12 |
| 2 | Digital & Microcontroller Lab(Lab I/C--Er. DS) | Need to be modernized | Functioning properly and need upgradation | 12 |
| 3 | Biomedical Lab(Lab I/C--Dr. MK) | Need to be modernized | Functioning properly and need upgradation | 07Need to be increased |
| 4 | Power Electronics(Lab I/C--Dr. SS) | Need to be modernized | Functioning properly and need maintenance | 07Need to be increased |
| 5 | Measurement Lab(Lab I/C--Dr. RKG) | Need to be modernized | Functioning properly and need upgradation | 07Need to be increased |
| 6 | Virtual Instrumentation &DAQ(Lab I/C--Dr. RKG) | Quite modernized | Functioning properly | Adequate |
| 7 | Analytical Lab(Lab I/C--Dr. AKA) | Need to be modernized | Functioning properly and need upgradation | 06Need to be increased |
| 8 | Transducer Lab/ (Lab I/C--Dr. SM) | Need to be modernized | Functioning properly and need upgradation | 08Need to be increased |
| 9 | Process Control(Lab I/C--Er. AAK) | Quite modernized | Functioning properly and need maintenance | 07Need to be increased |
| 10 | Control Engg. Lab(Lab I/C--Dr. MS) | Need to be modernized | Functioning properly | 15 |
| 11 | Basic Electrical Engg.(Lab I/C--Er. CG) | Need to be modernized | Functioning properly and need upgradation | 10 |
| 12 | Electrical Machines Lab(Lab I/C--Er. GS) | Need to be modernized | Functioning properly and need upgradation | 10 |
| 13 | Computational Lab(Lab I/C--Dr. MS) | Quite modernized | Functioning properly | 10 |
| 14 | Research Lab(Lab I/C--Dr. ASA) | Need to be modernized | Functioning properly and need upgradation | N/A |
| 15 | DSP Lab(Lab I/C--Dr. AKA) | Need to be modernized | Functioning properly and need upgradation | 12 |
| 16 | Instrumentation Project Lab(Lab I/C--Dr. PT) | Need to be modernized | Functioning properly and need upgradation | N/A |
| 17 | Power System Lab(Lab I/C--Dr. MS) | Quite modernized | Functioning properly (to be housed in new block) | 15 |

* Number of laboratories : Adequate/**Need addition**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.No** | **Name** | **Qualification** | **Designation** | **Specification** | **Experience** |
| 1 | Dr. V.K. Jain | Ph.D. | Professor | Electrical Engg., Control System, Reliability Engg | 39 |
| 2 | Dr. J.S. Dhillon  | Ph.D. | Professor | Power System Optimization | 32 |
| 3 | Dr. S. Marwaha | Ph.D. | Professor | Power Systems | 29 |
| 4 | Dr. A.S. Arora | Ph.D. | Professor | Biomedical Engineering  | 26 |
| 5 | Dr.. Prathiba Tyagi | Ph.D. | Associate Professor | Biomedical Engineering | 26 |
| 6 | Dr. Manpreet Kaur | Ph.D. | Associate Professor | Biomedical Engineering | 25 |
| 7 | Dr. Surita Maini | Ph.D. | Associate Professor |  Antenna and Biomedical Engineering | 24 |
| 8 | Ms. Rajinder Kaur | M.Tech | Associate Professor | Electrical and BiomedicalEngineering  | 24 |
| 9 | Sh. Diljinder Singh | M.E.\* | Associate Professor | Electrical Engineering | 24 |
| 10 | Sh. Anshuka Bansal | M.Tech | Associate Professor | Electrical Engineering | 22 |
| 11 | Sh. Asim Ali Khan | M.E\*.  | Associate Professor | Instrumentation, BiomedicalImaging | 21 |
| 12 | Sh. Charanjiv Gupta | M.E.\*  | Associate Professor | Electrical Engineering  | 23 |
| 13 | Dr. Manpreet Singh  | Ph.D. | Associate Professor | Electrical Engineering | 21 |
| 14 | Sh. Gurmeet Singh | M.E.\*  | Associate Professor | Electrical Engineering | 23 |
| 15 | Dr. Sanjeev Singh | Ph.D. | Associate Professor | Energy Management, Power Electronics and Drives, Power Quality Control of Electrical Systems | 19 |
| 16 | Dr. Manmohan Singh | PhD | Associate Professor | Power System Optimization | 20 |
| 17 | Dr. A. K. Aggarwal | Ph.D. (Japan) | Assistant Professor | Computer Vision | 22 |
| 18 | Dr. Raj Kumar Garg | Ph.D. | Assistant Professor | Signal Processing, Power Quality, Industrial Process control | 18 |
| 19 | Sh. Sunil KumarBansal | M. E. | Assistant Professor | Instrumentation & Control | 6 |
| 20 | Ms Barsha Mali | M. E. | Assistant Professor | Instrumentation & Control | 3 |
| \*- Pursuing PhD |

1. **RESEARCH GROUP(S)/ INTERDISCIPLINARY GROUP(S) :**

|  |  |
| --- | --- |
| **Research Groups (Broad Area of Research)** | **Name of Faculty Involved** |
| Biomedical Engineering | Dr. A.S. Arora, Dr. Pratibha Tyagi, Dr. Manpreet Kaur, Dr. Surita Maini, Dr. Ashwani Kumar Agarwal, Er. Asim Ali Khan, Er. Rajinder Kaur, |
| Power Systems  | Dr. J.S. Dhillon, Dr. Manmohan Singh, Er. Diljinder Singh, Er. Anshuka Bansal |
| Design of Electromagnetic Devices | Dr. Sanjay Marwaha, Dr. Manpreet Singh Manna, Er. Gurmeet Singh |
| Industrial Electronics and Power Quality | Dr. Sanjeev Singh, Dr. Raj Kumar Garg, Er. Charanjiv Gupta |
| Instrumentation and Control | Dr. V.K. Jain, Er. Barsha Mali, Er. Sunil Bansal |

9. **CONTRIBUTION OF FACULTY AND STAFF** (Last three years):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name of Faculty/ Staff | Designation/Qualification/Status | Contribution in Teaching (punctuality/ innovation/ use of ICT) | Contribution in BTech or ICD projects | Contribution in Research(Publications#/ Projects/Ph.D. &M Tech guidance/ Consultancy/ Patent | Other(Department/Institute/ National/ International) |
| Dr. V.K. Jain | Professor/ Ph.D./ Regular | Use of ICT |  | 07 (conference)/ 8 (SCI)/ 06 (others),04 (Ph.D.) awarded, 02 (Ph.D.) submitted  | Ex-Director, Chairman DRC (CSE), Expert NEQIP (AICTE) |
| Dr. J.S. Dhillon | Professor/ Ph.D./ Regular | Use of ICT |  | 03 (conference)/ 25 (SCI)/ 07 (others)06 (Ph.D.) awarded06 (M.Tech.) | Dean (FSW), Ex-HOD (EIE), Chairman BOS (IKGPTU), Member BOS (MRSPTU), Chairman ACOFOR, Convener IQAC |
| Dr. Sanjay Marwaha | Professor/ Ph.D./ Regular | Use of ICT |  | 03 (conferences)/ 07(SCI)/ 04 (Scopus)/ 05 (others)03 (Ph.D.) awarded06 (M.Tech.) | HOD (EIE), FI (A&A), Member BOS (PTU & GNEC), Expert (NAAC), Expert NEQIP (AICTE) |
| Dr. A.S. Arora | Professor | Use of ICT | Guiding B.Tech projects (02) | 02 (conferences)/ 07(SCI)/ 09 (Scopus),03 (Ph.D.) awarded,06 (M.Tech.) | Dean (Academics), Ex-Dean (SFW), Member BOS (IKGPTU & MRSPTU), Expert (NBA), Member (Committee of Academics and Governance, ABVIET Pragati Nagar, Member Secretary ACOFOR, Chairman Estimation Committee (Electrical), President IIC |
| Dr. Pratibha Tyagi | Assoc. Prof./Ph.D/Regular Faculty | Use of ICT | Guiding B.Tech projects (4) | 01(SCI)/01(others) | ATPO (EIE), Editor (Anshumat), Class Counselor,Core Committee Member, Techfest-18 and Madhuram, Member (Creche Committee)Int. Conf.: 02National Conf.:01Organized one day workshop twice for students |
| Dr. Manpreet Kaur | Assoc. Prof. | Use of ICT | Guiding B.Tech projects (4) | 06(SCI)/ 01 (Scopus)/ (03) Referred | Class Counselor, Training Coordinator (GIN)  |
| Dr. Surita Maini | Assoc. Prof./PhD | Use of ICT | Guiding B.Tech projects (4) | 02 | Chief Warden (GH), Chairperson (SPICMACAY), Class Counselor, Member IIC, Member CSAB, Core committee Member TEQIP, Board Member KV  |
| Er. Anshuka Bansal | Assoc. Prof./M.Tech | Use of ICT | Guiding B.Tech projects |  | Class Counselor |
| Er. Diljinder Singh | Assoc. Prof./ PhD pursuing | Use of ICT | Guiding B.Tech projects (4) | 2 communicated | Warden (BH), Member Library Committee, Class Counselor |
| Dr. M.S. Manna | Assoc. Prof./ Ph.D | Use of ICT |  |  | Ex-Director AICTE, Coordinator SWAYAM,  |
| Er. Charanjiv Gupta | Assoc. Prof./ Ph.D thesis submitted | Use of ICT | Guiding B.Tech projects |  | FI (Electrical), Class Counselor |
| Er. A.A. Khan | Assoc. Prof./ Ph.D Pursuing  | Use of ICT | Guiding B.Tech projects (5) | 05 MTech thesis guided | FA (SRAC), Class Counselor |
| Er. Gurmeet Singh | Assoc. Prof./ Ph.D Pursuing | Use of ICT | Guiding B.Tech projects | Publications:2 international conferences,1 International Journal, 2 communicated | Class Counselor, Member (EDPC) |
| Dr. Sanjeev Singh(on lien) | Assoc. Prof / PhD | Use of ICT | Guiding B.Tech and ICD projects (7) | SCI:04, Scopus:02 Refereed:04 | FI (ACSS), Warden (BH), Class CounselorInt. Conf.:13National Conf.:06Department:03 |
| Dr. Manmohan Singh | Assoc. Prof./ PhD | Use of ICT | Guiding B.Tech projects (05) | Publications: 05M Tech guidance: 6 | Warden (BH), Class Counselor, Faculty Advisor SRAS,Mentor for National Level event: Smart India Hackathon org. by MHRD |
| Dr. A.K. Aggarwal | Asstt. Prof./ Ph.D | Use of ICT | Guiding B.Tech projects (08) | 08 | Branch Counselor (IEEE Chapter), Class Counselor, Coordinator (HBCH Sangrur) |
| Dr. Raj Kumar | Asstt. Prof./ PhD |  | Guiding B.Tech projects (04) | 04 | Class Counselor, Training Coordinator, Member (BOM) |
| Er. Sunil Kumar | Asstt. Prof./MTech |  | Guiding B.Tech projects (04) | NIL | Class Counselor |
| Er. Barasha Mali | Asstt. Prof./ PhD pursuing | 19-21 hrs per week load | Guiding B.Tech and ICD projects (08) | 2 papers in referred journal, 1 MTech guidance(ongoing) | Class Counselor,Warden (GH), Member IIC |
| Mr. S.S. Rathore | Sr. Tech.Diploma (Inst. and Control Engg.) BA(24 Yrs. Exp.) |  | Yes |  |  |
| Mr. S.S. Bhullar | TechnicianDiploma in ECE(27 Yrs. Exp.) |  | Yes | Yes |  |
| Mr. VipanKumar | TechnicianDiploma in Elect. Engg.(25 Yrs. Exp.) |  | Yes |  |  |
| Mr. Amarjit Singh | Technician(22 Yrs. Exp.) |  |  |  |  |
| Mr. Navdeep Kumar | TechnicianDiploma in Elect. Engg.M.Sc. (IT)(17 Yrs. Exp.) |  | Yes |  |  |
| Mr. Ranvijay Kr. Singh | Clerk B.Com. (23 Yrs. Exp.) |  |  |  | Handling PMKVY work |
| Mr. Kila Ram | MTS,+2(19 Yrs. Exp.) |  |  |  |  |
| Mr. Mahraj Din Verma | MTS,BA(19Yrs. Exp.) |  |  |  |  |
| Ms. Harinder Kaur | MTS,+2(12 Yrs. Exp.) |  |  |  |  |

# publications category wise- Conference, SCI, other Scopus, Refereed

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Academic Year / Semester** | **Name of Faculty** | **Class/batch**  | **Subject code** | **No of Students** | **Pass %age** |
| 01. | Jan – June 2015 | Prof. A.S. Arora | GIN/2012 | IE-7202 | 63 | 100 |
| GIN/2014 | IE-422 | 14 | 92.86 |
| GIN/2012 | IE-7252 | 63 | 100 |
| Dr. Pratibha Tyagi | DIN/14 | IE-3201 |  |  |
| GIN/14 (3Yr) | IE-5202 | 54 | 100 |
| Dr. Manpreet Kaur | PG ICE 14 | IE 8202 | 19 | 100% |
| ICD 14 | IE 121 | 44 | 45.45% |
| CSMM 13 | IE 2251 | 24 | 100% |
| CSMM 13 | IE 2253 | 24 | 100% |
| Dr. Surita Maini | GIN/13 | IE-6201 | 58 | 99 |
| DIN-CSMM/12 | IE-4104 | 43 | 82 |
| 02. | July - Dec 2015 | Prof. S. Marwaha | GEE/2014 | EE-512 | 60 | 90 |
| PG/ICE/2015 | IE-811 | 14 | 83 |
| Prof. A.S. Arora | GIN/2013 | IE-6102 | 54 | 92.59 |
| DIN/2013 | IE-4103 | 27 | 55.56 |
| GIN/2013 | IE-6152 | 54 | 100 |
| Dr. Pratibha Tyagi | GIN/14(3 Yr) | IE-6101 | 54 | 100 |
| GIN/15(4 Yr) | IE-411 | 9 | 90 |
| Dr. Manpreet Kaur | GIN 14 | IE 511(theory) | 55 | 89% |
| GIN 14 | IE 511(labGp A &B) | 55 | 89% |
| PG ICE 14 | IE 9101 | 18 | 100% |
| ICD 15 | IE 111 (labGp.B) | 31 | 100% |
| DIN 14 | IE 4153 | 29 | 100% |
| Dr. Surita Maini | PG/ICE/15 | IE-815 | 12 | 100 |
| GIN/13 | IE-6103 | 58 | 98 |
| Er. Anshuka Bansal | CTD/14 | IE-211 | 25 | 88 |
| CFF/14 | EE-211 | 25 | 80 |
| CBM/14 | EE-211 | 24 | 100 |
| CWG/14 | EE-211 | 25 | 100 |
| DMP/12 | EE-4101 | 25 | 100 |
| Er. A.A. Khan | GIN/12 | IE-7103 | 62 | 93.5 |
| PG/ICE/15 | IE-8104 | 19 | 100 |
| GIN/13 | IE-7104 | 58 | 100 |
| PG/ICE/15 | IE-814 | 12 | 83 |
| Er. Gurmeet Singh | GWT | EE-5201 | 64 | 100 |
| CSMM | IE-215 | 49 | 82 |
| Dr. Sanjeev Singh | GEE/14 | EE-511 | 59 | 89.83 |
| GEE/15 | EE-411 | 47 | 93.33 |
| PG/ICE/15 | IE-8156 | 19 | 100 |
| Dr. Manmohan Singh | GIN/14 | IE-513 | 56 | 96 |
| 03. | Jan – June 2016 | Dr. J.S.Dhillon | PGICE/2016 | IE-821 | 12 | 100 |
| GIN/2014 | IE-6203 | 58 | 98.2 |
| Dr. A.S.Arora | PGICE/2015 | IE-824 | 12 | 100 |
| DIN/2015 | IE-3202 | 17 | 100 |
| Dr. Surita Maini | PGICE/2015 | IE-822 | 12 | 100 |
| GIN/2013 | IE-7260 | 58 | 100 |
| Dr. Pratibha Tyagi | GIN/2015 | IE-421 | 09 | 100 |
| GIN/2014 | IE-523 | 54 | 98 |
| DIN/2015 | IE-3201 | 17 | 90 |
| Er. Anshuka Bansal | CSMM/2014 | IE-221 | 41 | 100 |
| CSMM/2014 | IE-226 | 41 | 100 |
| GEE/2014 | EE-523 | 60 | 98 |
| Er. Diljinder Singh | GEE/2015 | EE-422 | 45 |  |
| GEE/2015(Lab) | EE-422 | 45 |  |
| DIN/2014 | IE-4202 | 27 |  |
| DIN/2014 | IE-4252 | 27 |  |
| Er. A.A Khan | PGICE/2015 | IE-823 | 12 | 100 |
| GIN/2013 | IE-7203 | 54 | 92 |
| Dr. Sanjeev Singh | GME/GWT/14 | EE-421 | 59 | 96.64 |
| DEC/DIN | EE-3201 | 29 | 74.54 |
| PG/ICE/14 | IE-8256 | 19 | 100 |
| Dr. Manmohan Singh | GIN/2014 | IE-522 | 54 | 100 |
| Dr. Ashwani Kumar Aggarwal | GIN/2013 | IE-7201 | 58 |  |
| GIN/2014 | IE-6201 | 54 |  |
| GIN/2014 | IE-521 | 52 |  |
| Dr. Raj Kumar  | GIN/2013 | IE-7203 | 58 |  |
| ICD/EE/2014 | EE-223 | 52 |  |
| DIN/2014 | IE-4201 | 27 |  |
| DIN/2014 | IE-4251 | 27 |  |
| Er. Sunil Kumar | ICD/IN/14 | IE-223 | 40 | 75 |
| DIN/14 | IE-4203 | 27 | 89 |
| DIN/14 | IE-4253 | 27 | 100 |
| 04. | July – Dec 2016 | Dr. J.S.Dhillon | PGICE/2016 | IE-812 | 14 | 100 |
| GIN/2015 | IE-511 | 46 | 86.9 |
| Dr. Sanjay Marwaha | GEE/15 | EE-512 | 60 | 100 |
| Dr. A.S.Arora | DIN/2013 | IE-4103 | 17 | 70.59 |
| GIN/2014 | IE-611 | 65 | 78.85 |
| DIN/2013 | IE-4153 | 17 | 100 |
| Dr. Manpreet Kaur | PG ICE 15 | IE 911(Theory) | 12 | 100% |
| PG ICE 15 | IE 911(lab) | 12 | 100% |
| GIN 14 | IE 613(theory) | 52 | 100% |
| GIN 14 | IE 613(labGp A&B) | 52 | 100% |
| DIN 15 | IE 4104 | 17 | 94.1% |
| Dr. Surita Maini | PGICE/2016 | IE-815 | 14 | 100 |
| GIN/2014 | IE-615 | 52 | 100 |
| DIN-CSMM/15 | IE-212 | 48 | 72 |
| Dr. Pratibha Tyagi | DIN/2014 | IE-311 | 37 | 85 |
| DEE/2014 | EE-313 | 45 | 93 |
| CEN/2015 | EE-213 | 58 | 93 |
| Er. Anshuka Bansal | CEN/15 | EE-214 | 58 | 85 |
| CEN/15 | EE-216 | 58 | 90 |
| DMP/15 | EE-4101 | 18 | 100 |
| CFF/15 | EE-211 | 24 | 100 |
| Er. Diljinder Singh | GEE/2015 | EE-514 | 60 |  |
| G1N/2014 | IE-7104 | 54 |  |
| GME/GWT-16 | EET-411 | 21 |  |
| CEN/2016 | EE-113 | 27 |  |
| Er. A.A Khan | PGICE/2016 | IE-814 | 14 | 93 |
| ICD/2014 | IE-315 | 37 | 81 |
| Er. Gurmeet Singh Garewal | GIN | IE-7204 | 58 | 82 |
| CBM | EE-211 | 27 | 81 |
| GIN | IE-7204 | 54 | 100 |
| Dr. Sanjeev Singh | GIN/15 | IE-512 | 48 | 95.6 |
| GIN/14 | EE-7101 | 54 | 100 |
| GIN/14 | EE-7151 | 54 | 100 |
| CEN/16 | EE-113 | 65 | 69.8 |
| Dr. Manmohan Singh | GEE/2015 | EE-511 | 60 | 100 |
| GIN/15 | IE-515 | 46 | 100 |
| ICD-CEN/14 | EE-315 | 45 | 100 |
| Dr. Ashwani Kumar Aggarwal | GIN/2014 | IE-7101 | 54 |  |
| GIN/2014 | IE-614 | 52 |  |
| PG/ICE/16 | IE-813 | 16 |  |
| Dr. Raj Kumar Garg | GIN/2015 | IE-513 | 46 |  |
| DIN/15 | IE-4102 | 17 |  |
| DIN/2015 | IE-4152 | 17 |  |
| ICD-EE/15 | EE-312 | 52 |  |
| Er. Sunil Kumar | GEE/15 | EE-513 | 60 | 97 |
| ICD-IN/15 | IE-214 | 48 | 98 |
| DIN/15 | IE-4101 | 17 | 76 |
| DIN/15 | IE-4151 | 17 | 100 |
| ICD-IN/15 | IE-211 | 48 | 89 |
| ICD-EE/15 | EE-213 | 52 | 96 |
| Er. Barasha Mali | CEN/14 | EE-314 | 45 | 100 |
| DIN/15 | IE-4151 Lab | 17 | 100 |
| GEE/15 | EE-515 Lab | 60 | 100 |
| GIN/14 | IE-7105A | 54 | 100 |
| CSMM/14 | IE-312 | 37 | 91.89 |
| CSMM/14 | IE-312 Lab | 37 | 91.89 |
| 05. | Jan – June 2017 | Dr. J.S.Dhillon | PGICE/2016 | IE-821 | 12 | 100 |
| PGICE/2016 | IE-826 | 12 | 100 |
| GEE/15 | EE-521 | 60 | 98.3 |
| Dr. Sanjay Marwaha | PG/ICE/16 | IE-811 | 14 | 100 |
| GEE/2015 | EE-522 | 60 | 100 |
| GEE/2015 | EE-423 | 45 | 96 |
| PG/ICE/15 | IE-825A | 12 | 100 |
| Dr. A.S.Arora | PG/ICE/2016 | IE-824 | 14 | 92.86 |
| GIN/2015 | IE-625 | 52 | 98.08 |
| PG/ICE/2016 | IE-827 | 14 | 100 |
| Dr. Manpreet Kaur | PG ICE 16 | IE 822 | 14 | 85.7% |
| GIN 14 | IE 7202 | 54 | 100% |
| GIN 14 | IE 7252(labGpA&B | 54 | 100% |
| GIN 15 | IE 524(GpA&B) | 44 | 100% |
| Dr. Surita Maini | DEE-CEN/15 | EE-222 | 54 | 80 |
|  | GIN/2015 | IE-523 | 44 | 87 |
| Dr. Pratibha Tyagi | CSMM/15 | IE-226 | 49 | 90 |
| CSMM/16 | IE-121 | 60 | 80 |
| Er. Anshuka Bansal | CSMM/15 | IE-221 | 46 | 100 |
| CEN/14 | EE-326 | 45 | 96 |
| GIN/14 | IE-7260 | 44 | 100 |
| GEE/EC/IN/16 | EET-421 | 38 | 100 |
| GEE/16 | EEP-421 | 20 | 100 |
| Er. Diljinder Singh | GIN/14 | IE-627 | 52 |  |
| GIN/14 (Lab) | IE-627 | 52 |  |
| DIN/15 | IE-4202 | 17 |  |
| DIN/15 | IE-4252 | 17 |  |
| CEN/15 | EE-227 | 54 |  |
| CEN/14 | EE-327 | 45 |  |
| Er. A.A Khan | PGICE/2016 | IE-823 | 14 | 100 |
| GIN/2014 | IE-712 | 55 | 100 |
| Er. Gurmeet Singh Garewal | GEE | EE-613 | 59 | 98 |
| GIN | EE-7101 | 58 | 100 |
| Dr. Sanjeev Singh | GME/GWT 14 | EE 421 | 54 | 94.91 |
| GEE 14 | EE 522 | 60 | 93.33 |
| DIN 15 | EE 3252 | 17 | 100 |
|  |  |  |  |
| Dr. Manmohan Singh | GEE/2014 | EE-422 | 56 | 98 |
| GIN/15 | IE-522 | 44 | 93 |
| Dr. Ashwani Kumar Aggarwal | GIN/2014 | IE-621E | 54 |  |
| GIN/2014 | IE-7201 | 52 |  |
| GIN/2014 | IE-622 | 54 |  |
| Dr. Raj Kumar  | GIN/2014 | IE-7203 | 54 |  |
| GIN/15 | IE-521 | 46 |  |
| DIN/2015 | IE-4201 | 17 |  |
| DIN/15 | EE-4251 | 17 |  |
| GEE/15 | EE-524 | 32 |  |
| Er. Sunil Kumar | GEE/15 | EE-524 | 60 | 92 |
| ICD-IN/14 | IE-322 | 37 | 87 |
| ICD-IN/15 | IE-223 | 45 | 87 |
| ICD-IN/14 | IE-326 | 37 | 100 |
| DIN/15 | IE-4270 | 17 | 100 |
| Er. Barasha Mali | CEN/15 | EE-223 | 58 | 91.37 |
| GEE/15 | EE-627 | 56 | 98.27 |
| GIN/15 | IE-624 | 52 | 98.07 |
| GIN/15 | IE-624 (Lab) | 52 | 98.07 |
| GIN/14 | IE-626 | 52 | 98.07 |
| DIN/15 | IE-4203 | 17 | 100 |
| GIN/14 | IE-7270 | 53 | 100 |
| 06. | July - Dec 2017 | Dr. J.S.Dhillon | PGICE-2017 | IE-812 | 10 | 100 |
| GEE-2016 | EET-515 | 58 | 91.3 |
| GEE-2014 | EE-712 | 55 | 100 |
| Dr. Sanjay Marwaha | PGICE/2016 | IE-825A | 14 | 100 |
| GEE/2017 | EET-511 | 61 | 85 |
| PGICE/2017 | IE-811 | 11 | 100 |
| PGICE/2017 | IE-825A | 10 | 100 |
| GEE/2017 | EEY-511 | 63 | --- |
| Dr. A.S.Arora | GIN/15 | IE-611 | 41 | 85.37 |
| GIN/16 | IET-512 | 41 | 95.12 |
| GEE/15 | EE-614 | 59 | 100 |
| Dr. Manpreet Kaur | PG ICE 16 | IE 911(theory) | 12 | 91.6% |
| PG ICE 16 | IE 911(lab) | 12 | 91.6% |
| ICD 15 | IE 312(theory) | 44 | 95.45% |
| ICD 15 | IE 312(labGpA&B) | 44 | 95.45% |
| ICD 15 | IE 313(theory) | 44 | 86.36% |
| ICD 15 | IE 313(labGpA)) | 44 | 86.36% |
| Dr. Surita Maini | PG/ICE/17 | IE-8105 | 12 | 100 |
| GIN/15 | IE-711 | 51 | 98 |
| GIN/15 | IE-612 | 41 | 96 |
| Dr. Pratibha Tyagi | DIN15 | IE311 | 44 | 95 |
| CSMM16 | IE211 | 49 | 90 |
| DEE15 | IE313 | 50 | 70 |
| Er. Anshuka Bansal | CEN/16 | EE 216 | 41 | 95 |
| CEN/16 | EE 213 | 41 | 93 |
| CSME/17 | EE 111 | 33 | 79 |
| CTV/17 | EE 111 | 33 | 55 |
| Er. Diljinder Singh | GEE-14 | EE-714 | 56 |  |
| GEE-14 (Lab) | EE-714 | 56 |  |
| GIN-14 | IE-716 | 51 |  |
| CEN-16 | EE-212 | 41 |  |
| CEN-16 (Lab) | EE-212 | 41 |  |
| Er. Gurmeet Singh Garewal | GEE | EE-612 | 59 | 94 |
| CEN | EE-225 | 54 | 82 |
| Dr. Sanjeev Singh | GEE/14 | EE-711 | 55 | 98.2 |
| GEE/14 | EE-713 | 55 | 98.2 |
| CEN/15 | EE-311 | 53 | 60 |
| GEE/16 | EEP-511 | 61 | 93.5 |
| Dr. Manmohan Singh | GEE-2015 | EE-611 | 64 | 100 |
| GEE-2016 | EET-512 | 61 | 95 |
| GIN-2016 | IET-514 | 41 | 97 |
| GEE-2015 | EE-612D | 59 | 100 |
| Dr. Ashwani Kumar Aggarwal | PG-ICE-2017  | IE-813  | 10 |  |
| PG-ICE-2017  | IE-912C  | 14 |  |
| GIN-2015  | IE-614  | 39 |  |
| Dr. Raj Kumar Garg | GIN-14 | IE-714 | 52 |  |
| GIN-16 | IET-515 | 44 |  |
| CEN-15 | EE-312 | 54 |  |
| Er. Sunil Kumar | GEE-16 | EET-513 | 61 | 88% |
| GEE-16 | EET-514 | 61 | 84% |
| GEE-16 | EEP-513 | 61 | 98% |
| GEE-16 | EEP-517 | 61 | 95% |
| ICD-IN/15 | IE-314 | 44 | 77% |
| Er. Barasha Mali | CEN15 | EE314 | 37/50 | 74 |
| GIN15 | IE613 | 38/44 | 86.36 |
| GIN16 | IET513 | 34/41 | 82.92 |
| GIN15 | IE612 Lab | 40/44 | 90.90 |
| 07. | Jan – June 2018 | Dr. V.K. Jain | GEE/2015 | EE-623 | 60 | 98.5 |
| PGICE/2017 | IE-821 | 09 | 100 |
| Dr. J.S.Dhillon | GIN-2015 | IE-622 | 41 | 95 |
| GEE-2016 | EET-525 | 57 | 94.7 |
| GEE-2016 | EEP-525 | 57 | 98.4 |
| Dr. Sanjay Marwaha | GEE/2014 | EE-722 | 56 | 100 |
| Dr. A.S.Arora | GIN/2016 | EE-721A | 56 | 94.64 |
| PGICE/2017 | IE-824 | 10 | 90 |
| PGICE/2017 | IE-827 | 10 | 90 |
| GEE/2015 | EE-627 | 60 | 100 |
| Dr. Manpreet Kaur | PG ICE 17 | IE 822 | 10 | 100% |
| CSMM 15 | IE 321(labGp B) | 22 | 100% |
| GIN 15 | IE 624(theory) | 41 | 93% |
| GIN 15 | IE 624(labGpA&B) | 41 | 93% |
| Dr. Pratibha Tyagi | CEN16 | EE222 |  | 85 |
| CSMM17 | IE121 |  | 90 |
|  |  |  |  |
| Er. Anshuka Bansal | GEE/14 | GP | 60 | 100 |
| CEN/15 | EE 326 | 49 | 90 |
| CEN/16 | EE 223 | 41 | 100 |
| CSMM/16 | IE 221 | 49 | 92 |
| Er. Diljinder Singh | GIN-15 | IE-627 | 41 |  |
| GIN-15(Lab) | IE-627 | 41 |  |
| GEE-16 | EET-523 | 58 |  |
| CEN-16 (Lab) | EE-224 | 41 |  |
|  |  |  |  |
| Er. A.A Khan | GEE/15 | EE-624 | 59 | 85% |
| Er. Gurmeet Singh Garewal | DEE-CEN | EE-226 | 54 | 79 |
| GEE | EE-625 | 59 | 100 |
| GEE | EET-522 | 57 | 86 |
| Dr. Sanjeev Singh | GEE 14 | EE 723 | 55 | 98.2 |
| GEE 15 | EE 622 | 60 | 100 |
| CEN 15 | EE 322 | 50 | 87.8 |
| Dr. Manmohan Singh | GEE-2016 | EET-521 | 57 | 98 |
| Dr. Ashwani Kumar Aggarwal | GIN-2015  | IE-623  | 41 |  |
| GIN-2015  | IE-621E  | 41 |  |
| GIN-2014  | IE-722  | 51 |  |
| Dr. Raj Kumar Garg | GIN-15 | IE-626 | 41 |  |
| GEE-16 | EET-524 | 62 |  |
| CEN-15 | EE-325 | 51 |  |
| CSMM16 | IE224 | 24 |  |
| Er. Sunil Kumar | GIN-16 | IET-522 | 40 | 80% |
| GIN-16 | IEP-522 | 40 | 100% |
| ICD-IN/16 | IE-224 | 49 | 72% |
| ICD-IN/16 | IE-226 | 49 | 55% |
| ICD-IN/15 | IE-326 | 43 | 100% |
| Er. Barasha Mali | CSNMM16 | IE223 | 42/49 | 85.71 |
| CSMM15 | IE321 | 41/43 | 95.34 |
| CSMM15 | IE321 Lab (B) | 41/43 | 95.34 |
| CSMM15 | IE323 | 42/43 | 97.67 |
| CSMM15 | IE323 Lab (B) | 42/43 | 97.67 |
| GEE15 | IE725Lab | 55/56 | 98.21 |
| 08. | July – Dec 2018 | Dr. V.K. Jain | PGICE/2018 | PCIE-812 | 19 | - |
| PGICE/2017 | IE-912 | 09 | - |
| Dr. J.S.Dhillon | GEE-2015 | EE-712 | 60 | - |
| GEE-2017 | EET-515 | 63 | - |
| Dr. Sanjay Marwaha | PGICE/2018 | PCIE-811 | 19 | ===== |
| Dr. Pratibha Tyagi | GIN17 | IET512 |  | Contd. |
| DIN16 | IE311 |  | Contd. |
| Er. A.A Khan | GIN/15 | IE-712 | 40 | - |
| GIN/15 | IE-716 | 40 | - |
| Er. Gurmeet Singh Garewal | DEE-CEN | EE-226 | 41 | 73 |
| Er. Barasha Mali | CEN16 | EE315 | 44 | - |
| CEN16 | EE315 Lab | 44 | - |
| CSMM16 | IE313 | 40 | Till oct 2018 |
| CSMM16 | IE313 Lab | 40 | - |
| GIN16 | IET615 | 39 | - |

10. **INFRASTRUCTURE**:

|  |  |
| --- | --- |
| Special Facilities in the Department (if any) | 1. The building of the department has been designed keeping in view the interest of PWD students.2. Deptt. has industrial grade temperature and pressure calibration facility.3. Deptt. has modernized Power System Lab, which could cater the needs of adjoining institutes.4. Computational Lab of the department is well equipped with commercial licensed softwares. 5. Application of thermal imaging in biomedical engineering. |
| Unique features of the department | 1. Deptt. has expertise in the diverse fields viz Biomedical Engineering, Industrial Automation, Power System Operation and Reliability, Electrical Machines2. Good citation index |
| Shortage in department (if any) | 1. Deptt. lacks in sponsored research projects and consultancy work.2. Shortage of class rooms, faculty rooms, Labs, Committee room, Seminar hall, Common room for Girls3. Maintenance of old students Academic and Alumni records |

11. **ANNUAL BUDGET OF THE DEPARTMENT** (Allocated and Expenditure, in Lakhs):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Equipments | 40.00 | 40.04 | 47.04 | 01.25 |
| Maintenance | 03.00 | 04.00 | 04.00 | 03.25 |
| Tour & Training |  |  |  | 01.00 |
| Research & Development |  |  |  | 01.00 |

12. **NO. OF SEMINARS/CONFERENCES/SHORT TERM COURSES ATTENDED/ORGANIZED** (last 3 years):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Name of Faculty | 2015-16 | 2016-17 | 2017-18 |
| Details of Seminars/Conferences organized by the faculty in the institute | Prof. V.K. Jain | NIL | NIL | NIL |
| Prof. J.S. Dhillon | 01 | 02 | NIL |
| Prof. S. Marwaha | 02 | NIL | 01 |
| Prof. A.S. Arora | 01 | 01 | 01 |
| Dr. Pratibha Tyagi | 01 | 01 | 04 |
| Dr. Manpreet Kaur | NIL | 01 | NIL |
| Dr. Surita Maini | 02 | 03 | 01 |
| Er. Anshuka Bansal | NIL | NIL | NIL |
| Er. Diljinder Singh | NIL | NIL | NIL |
| Dr. M.S. Manna | NIL | NIL | NIL |
| Er.Charanjiv Gupta | 01 | NIL | 01 |
| Er. A.A. Khan | NIL | 01 | NIL |
| Er. Gurmeet Singh | NIL | NIL | NIL |
| Dr. Sanjeev Singh | 01 | NIL | 01 |
| Dr. Manmohan Singh | 01 | NIL | NIL |
| Dr. A.K. Aggarwal | 01 | 01 | 01 |
| Dr. Raj Kumar | NIL | NIL | 01 |
| Er. Sunil Kumar | NIL | NIL | NIL |
| Er. Barasha Mali | NIL | NIL | NIL |
| Details of Seminars/Conferences attended by the faculty outside the institute | Prof. V.K. Jain | 01 | NIL | NIL |
| Prof. J.S. Dhillon | NIL | NIL | 01 |
| Prof. S. Marwaha | NIL | 01 | NIL |
| Prof. A.S. Arora | 02 | 02 | 02 |
| Dr. Pratibha Tyagi | 02 | 01 | 01 |
| Dr. Manpreet Kaur | 03 | 01 | 02 |
| Dr. Surita Maini | 02 | 02 | 02 |
| Er. Anshuka Bansal | NIL | NIL | NIL |
| Er. Diljinder Singh | NIL | NIL | NIL |
| Dr. M.S. Manna | 01 | NIL | NIL |
| Er.Charanjiv Gupta | 02 | 02 | 01 |
| Er. A.A. Khan | 01 | 01 | 01 |
| Er. Gurmeet Singh | 01 | 01 | 01 |
| Dr. Sanjeev Singh | 03 | 02 | NIL |
| Dr. Manmohan Singh | NIL | NIL | NIL |
| Dr. A.K. Aggarwal | 01 | NIL | 01 |
| Dr. Raj Kumar | NIL | NIL | 01 |
| Er. Sunil Kumar | NIL | NIL | 01 |
| Er. Barasha Mali | 01 | NIL | NIL |

13. **RESEARCH PUBLICATIONS IN THE DEPARTMENT/CENTER:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2015-16 | 2016-17 | 2017-18 |
| SCI/SCIE Journals | 19 | 23 | 21 |
| Scopus Indexed | 19 | 09 | 11 |
| Peer reviewed | 05 | 02 | 08 |
| Indexed conferences | 09 | 10 | 09 |
| National Conferences | 10 | NIL | NIL |
| International Conferences | 15 | 17 | 11 |
| Books Published | 01 | NIL | NIL |
| Any other | 01 | 01 | NIL |

14. **STUDENTS PERFORMANCE IN NATIONAL LEVEL COMPETITIVE EXAMS**(Gate/NET etc.)

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2015-16 | 2016-17 | 2017-18 |
| GATE | Data not available | Data not available | 20 |
| CAT | Data not available | Data not available |  |
| Any other | NIL |  |  |

List of GATEQualified UG Students -2018

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.No. | **NAME OF STUDENT** | **TRADE/REGN NO.** | **MOBILE NO.** | **All India Rank** | **GATE Score** | **Registration Number** |
|  | ASHISH SINGH PATEL | GEE/SL/14/4322 | 76578-53481 | 2148 | 635 | EE18S68044110 |
|  | ANKIT SHARMA | GEE/SL/14/4330 | 80526-19844 | 6539 | 496 | EE18S68044103 |
|  | STANZIN GYATSO | GEE/SL/14/4317 | 94193-13765 | 20543 | 316 | EE18S68044062 |
|  | NANDAN KUMAR | GEE/SL/14/4343 | 87893-30571 | 17888 | 338 | EE18S68044064 |
|  | PRAVEEN ANAND | GEE/SL/14/4342 | 87289-22994 | 10819 | 419 | EE18S68044109 |
|  | SANTOSH KUMAR | GEE/SL/14/4326 | 80549-52081 | 12688 | 393 | EE18S68044099 |
|  | NEERAJ KUMAR MAURYA | GEE/SL/14/4352 | 91150-56423 | 10819 | 419 | EE18S68044026 |
|  | ADARSH SARASWAT | GEE/SL/14/4355 | 90415-36725 | 12373 | 397 | EE18S68039023 |
|  | ROHIT KUMAR | GEE/SL/15/1701 | 85284-41902 | 10332 | 426 | EE18S68039039 |
|  | SIDDHARTHA MUKHERJEE | GEE/SL/14/4602 | 89684-17919 | 13879 | 378 | EE18S68024199 |
|  | ANIMESH VAISH | GEE/SL/14/4346 | 80816-47919 | 1173 | 694 | EE18S68044061 |
|  | **INSTRUMENTATION & CONTROL ENGINEERING** |
|  | SHANI RANJAN | GIN/SL/15/4505 | 90230-88129 | 852 | 499 | IN18S48044114 |
|  | ABHISHEK SINGH | GIN/SL/15/1401 | 90563-88379 | 2135 | 313 | IN18S48044062 |
|  | SAGAR VERMA | GIN/SL/15/1006 | 94649-02399 | 1328 | 417 | IN18S48044112 |
|  | PINTU KUMAR | GIN/SL/14/4520 | 97799-23584 | 1358 | 413 | IN18S48044102 |

List of GATE Qualified PG Students - 2018

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S.No. | **NAME OF STUDENT** | **TRADE/REGN NO.** | **MOBILE NO.** | **All India Rank** | **GATE Score** | **Registration Number** |
|  | BHAWESH PRASAD | PG/ICE/1750212 | 78148-09368 | 1442 | 402 | IN18S48044048 |
|  | RAHUL MISHRA | PG/ICE/1650106 | 94523-12111 | 776 | 516 | IN18S48004345 |
|  | KALYANJEE BARMAN | PG/ICE/1650123 | 94767-12932 | 923 | 484 | IN18S48044032 |
|  | NARENDEER SAINI | PG/ICE/1650118 | 82950-07379 | 15607 | 360 | EE18S68044013 |
|  | AVINASH KUMAR | PG/ICE/1651001 | 89691-74481 | 17886 | 338 | EE18S68039105 |

15.**DETAILS OF STUDENT ACTIVITIES (last 3 yrs)**

(Workshops/ seminars/industrial tours/ Delivery beyond syllabi/ innovative practices/ remedial activities/ Tutor-Guardian scheme implementation )

1. Tutor Guardian and Students Mentor scheme is well placed.
2. Arranged workshop on following:
* Virtual Lab
* AD Instruments
* PLC, SCADA & HMI
* Automation (Hydraulics and Pneumatics0
* Robotics
* MATLAB under IEEE Chapter
* Number of activities have been arranged under SIT and SEE.
1. Industrial tours, debates and other student activities are arranged time to time.
2. Deptt. believes in innovative practices and students are encouraged to participate in technical events in institute and outside the institute.
3. Faculty members sometimes covers syllabi beyond limits keeping in view the interest of the students.

16. (a) **NEW FACILITIES CREATED IN LAST 3 YRS:**

* Power System Lab
* IEEE Chapter has been introduced
* Machine Lab has been upgraded

 (b) **NEW EQUIPMENTS PROCURED IN LAST 3 YRS (BASIC EQUIPMENTS):**

* Power System lab equipment
* Electrical Machines lab equipment

 (c) **PROCUREMENT OF SOME ADVANCED EQUIPMENTS**(for research and consultancy)

* Procurement of thermal camera
* Department has actively participated in procurement of XRD i.e. centralized facility of the institute to be used in research and consultancy work.
* Process of establishment of Automation centre with external agencies is in process.

17. **REQUIREMENT FOR BETTERMENT** :

a) Revision of course curriculum is in process at ICD, UG and PG level as per relevant technologies of day to day demand of industry.

b) New laboratories infrastructure has to be set up in the department. Therefore, there is a requirement of special budgetary allocation for equipment (labs).

c) Upgradation and modernization of existing Labs for providing hands on training to students.

d) Class rooms/ Smart Class rooms are required so as to run the MOOC and SWAYAM courses.

e) MoUs with the industry for training/Project development are needed.

f) Proper arrangement for sitting of Research Scholars with updated resources (Desktop, Printers etc).

g) Recruitment of regular faculty and staff.

18. **STRENGTH OF THE DEPARTMENT** :

1. Well qualified, experienced and dedicated faculty and staff.
2. Significant contribution of faculty at Administrative level of the institute.
3. Good departmental library.

**WEAKNESS OF THE DEPARTMENT** :

1. Lacking in consultancy and funded research projects.
2. Shortage of smart classrooms.
3. Placement of students is not up to the mark.

19**. INTERNATIONAL EXPOSURE(**in the form of visiting professor or academic associates)

The faculty of the department has good exposure to present research paper and chair technical session in international conferences abroad. In past some faculty members have also accepted short term teaching assignments in reputed institutes like AIT Bangkok. Data of last 3 yrs is as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Name of Faculty | 2015-16 | 2016-17 | 2017-18 |
| Visiting Country | Purpose | Visiting Country | Purpose | Visiting Country | Purpose |
| Dr. V.K. Jain | Singapore, Int. Conf. |  |  |
| Dr. J.S. Dhillon | NIL | NIL | Canada, Int. Conf. |
| Dr. S. Marwaha | NIL | Singapore, Int. Conf. | NIL |
| Dr. A.S. Arora | London, Int. Conf. | NIL | Japan, Int. Conf. |
| Dr. Pratibha Tyagi | Thailand, Int. Conf. | NIL | NIL |
| Dr. Manpreet Kaur | Zurich, Int. Conf. | NIL | NIL |
| Dr. Surita Maini | Singapore, Int. Conf.USA, Int. Conf. | NIL | China, Int. Conf. |
| Er. Anshuka Bansal | NIL | NIL | NIL |
| Er. Rajinder Kaur | NIL | NIL | NIL |
| Er. Diljinder Singh | NIL | NIL | NIL |
| Dr. M.S. Manna | NIL | Geneva, Special Talk  | China, SeminarRussia, Lead delegation |
| Er. Charanjiv Gupta | Thailand, Int. Conf. | NIL | Thailand, Int. Conf. |
| Er. A.A. Khan | UK, Int. Conf. | USA, Int. Conf. | Egypt, Int. Conf. |
| Er. Gurmeet Singh | Australia, Int. Conf. | NIL | NIL |
| Dr. Sanjeev Singh | NIL | Canada, PDF | NIL |
| Dr. Manmohan Singh | NIL | NIL | NIL |
| Dr. A.K. Aggarwal | NIL | Australia, Int. Conf. | Japan, Int. Conf. |
| Dr. Raj Kumar | NIL | NIL | Singapore, Int.Conf. |
| Er. Sunil Kumar | NIL | NIL | NIL |
| Er. Barasha Mali | NIL | NIL | NIL |

20. **FACULTY ATTENTIVENESS**

* Course File Preparation : System is in place
* Attendance Register : System is in place
* Display of attendance alert: System is in place
* Preparation of model answer: ----Yet not in place---
* Makeup classes: System is in place on need basis
* Use of ICT in Teaching: Facilities available and in place

**Outcomes (Last 3-yrs)**

|  |  |  |
| --- | --- | --- |
|  |  | Details |
| 1 | Placements * 1. Placement of ICD
	2. Placement of B.Tech. (GEE & GIN)
	3. Placement of Masters Student
	4. Placement of Ph.D Students
 | 01(DEE), Students opt for higher education52(GIN) + 11(GEE)=63Not Available12 |
| 2 | Average No. of Ph.D.s Awarded per Year 2016: 05 2017: 02 2018: 03 | 03 |
| 3 | Publications per Faculty in Indexed Journals/Year (Average of last three years) | 117/(20x3)=1.95 |
| 4 | Average Citations per Faculty/Year (Last-Four Years)/(Web of Science/Scopus) | 2839/(20x4)=35.9 |
| 5 | Recognitions; Awards(National/International) to Faculty/Students | 12(Dr. M.S. Manna-11, Dr. S.Marwaha-1) |
| 6 | Consultancy and Externally Funded Projects  | NIL |
| 7 | No. of Ph.D. graduates who took Academics as Career (Last 5 Years) | 12 |

**PLACEMENT RECORD OF STUDENTS FOR THE YEAR 2015-2016**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Name of the Company** | **Name of selected students** |
| 1 | TCS, New Delhi | 1. Vandana Singh, GIN
2. Pawan Kumar, GIN
3. Rashmi, GIN
4. Rishikesh Anand, GIN
 |
| 2 | M/s. Eclerx Services Ltd., Chandigarh | 1. Nancy Goyal, GIN/113504
2. Sumeet Kumar, GIN/133825
 |
| 3 | Keshav Encon, Vadodara, Gujarat | 1. Arpit Shukla, GIN/112562
 |
| 4 | Nestle India Ltd. Moga | 1. Lucky Lal Gupta, GIN/112553
 |
| **Total** | **08** |

**PLACEMENT RECORD OF STUDENTS FOR THE YEAR 2016-2017**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **NAME OF THE COMPANY** | **NAME OF SELECTED STUDENTS** |
| 1 | *ECLERX SERVICES LTD., CHANDIGARH* | 1. LOKESH SHARMA,GIN/SL/14/1416
2. SAHIL,GIN/SL/14/1436
3. NILESH KUMAR JHA,GIN/100580
4. AMIT KUMAR,GIN/SL/14/1438
 |
| 2 | AMAZON | 1. LOKESH SHARMA,GIN/SL/14/1416
 |
| 3 | OM CAREERS, LUDHIANA | 1. ABHISHEK KUMAR, GIN/122505
 |
| 4 | *TRIANLGE TELE INCORPORATIONS PVT. LTD, INDORE (MP)* | 1. DINESH SHARMA, GIN/SL/14/1423
2. AKSHAY SHARMA, GIN/SL/14/1428
3. SAHIL, GIN/SL/14/1436
4. AMIT SHARMA, GIN/SL/14/1411
5. ADITYA SAMLIYA, GIN/SL/14/1403
6. DINESH ANAND, GIN/SL/14/1430
7. HARMEET SINGH KAMRA, GIN/SL/14/1421
8. DEEPAK MOHAN, GIN/101009
9. SUNNY GUGLANI, GIN/100708
10. NIKHIL SHARMA, GIN/SL/14/1435
11. AMIT KUMAR NAGWAL, GIN/1427
12. SHUBHROJIT NAG, GIN/SL/14/1424
13. MANDEEP KAUR, GIN/100814
14. SURBI MINHAS, GIN/122005
 |
| 5 | WESTLINE SHIPPING SERVICES | 1. DINESH, GIN/SL/14/1423
2. ROHIT KUMAR MANDAL, GIN/ 100882
3. SUBHRAJIT NAG, GIN/SL/14/1424
 |
| 6 | SMART SOLUTIONS IT, PATIALA | 1. KIRATVEER SINGH, GIN/1435101(W)
 |
| 7 | WEBASTRAL, MOHALI | 1. DINESH, GIN/1423 (W)
 |
| 8 | CHANDIGARH DISTILLERS AND BOTTLERS PVT. LTD., | 1. AJAY KUMAR, GIN/SL/14/1409
 |
| 9 | JUBLIANT FOODWORKS, MOHALI | 1. ROBINDEEP SINGH, GIN/100707
 |
| 10 | ARRIVE SOCIALLY | KABERI GOGOI, GIN/122511 |
| 11 | LUDHIANA GROUP OF COLLEGES, | MANINDER SINGH, GIN/SL/14/1434 |
| **Total** | **29** |

**PLACEMENT RECORD OF STUDENTS FOR THE YEAR 2017-2018**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **NAME OF THE COMPANY** | **NAME OF SELECTED STUDENTS** |
| 1 | BYJU’S | 1. ANKUR SENGAR, GEE SL/14/4319
2. SHIDHARTH MUKHARJI, GEE/SL/14/4602
3. HAHARYAR SALMAN, GEE/SL/14/4348
 |
| 2 | FACE (FOCUS ACADEMY FOR CAREER ENHANCEMENT) | 1. SHIVAM MAURAY, GEE/SL/14/4351
 |
| 3 | TALENTPULL, MOHALI | 1. PARSHANT VASHIST, GIN/SL/15/1420
2. KULDEEP SINGH, GIN/110811
3. HARPREET SINGH, GIN/110823
4. PARMINDER SINGH, GIN/110522
5. RITESH KUMAR, GIN/132515
6. VIVEK KUMAR, GIN/132114
7. SHUBHAM SAINI, GIN/SL/15/1409
8. HARSH SANGAL, GIN/SL/15/1423
9. **ABHINAV KUMAR JHA, DEE/1510310**
 |
| 4 | CHANDIGARH DISTILLERS AND BOTTLERS PVT. LTD., CHANDIGARH | 1. PAVITAR SINGH, GIN/132503
 |
| 5 | TATA PROJECTS LIMITED | 1. ANKUR SENGAR, GEE SL/14/4319
2. ANIMESH VAISH, GEE/SL/14/4346
 |
| 6 | ALKEM LABORATORIES LIMITED, BADDI (HP) | 1. ANJALI PRIYA, GIN/110643
2. SAGAR VERMA, GIN/SL/15/1006
3. AJAY SHANKAR RAY, GIN/110639(W)
4. SHUSHMA BHARTI, GIN/110681(W)
 |
| 7 | GATE REVOLATION, CHANDIGARH | 1. NEERAJ KUMAR MAURYA, GEE/SL/14/4352
 |
| 8 | GIGA SOLAR | 1. ADARSH SARASWAT, GEE/SL/14/4355
2. DIVYA JYOTI, GEE/1630157
3. SAKSHI BISHT, GEE-SL/14/4338 (W)
 |
| 9 | SAMSUNG INDIA PVT. LTD. | 1. SHUBHAM SAINI, GIN/SL/15/1409
2. SUDHIR SINGH, GIN/SL/14/4517
 |
| 10 | MECHELONIC WELDERS PVT. LTD., BANGALORE | 1. SHIVAM MAURAY, GEE/SL/14/4351
 |
| **TOTAL**  | **27** |

Date:

|  |  |
| --- | --- |
| **Name & Signature of Audit Committee** | **Name & Signature of HOD** |