SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL
(Deemed to be University under Ministry of Education, Govt. of India)
OFFICE OF ELECTRICAL & INSTRUMENTATION ENGG. DEPTT.

Ref. No. EIE/2024/ 1420   DATED: 20.12.24

From   : HOD (EIE)

To   : Dean (Academics)

Subject : Academic Audit.

As per Letter No. Dean (A)/1406 dated 9th October, 2024 the Academic Audit for the Academic Year 2023-24 of this Department has been conducted on 11th December, 2024. The complete report and recommendations of the committee in is forwarded please.

Manpreet
20/12/2
HOD (EIE)

Enclosed as above.

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(Deemed to be University under Ministry of Education, Govt. of India)
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MINUTES OF MEETING

Minutes of meeting held on 11th December 2024 at 11.00 AM in the office of HOD (EIE) pertaining to Academic Audit for the year 2023-24. The following members attended the meeting.

1. HOD (EIE)
2. Dean (A&IR)
3. Prof. Sanjay Marwaha, Deptt. of EIE
4. Prof. Rajesh Kumar, Deptt. of Mech. Engg.
5. Prof. P.K. Dhiman, Deptt. of M&H
6. Prof. Dilbag Singh, NIT Jalandhar

The recommendations of committee are as under:

➢ More efforts need to be put in fetching the research projects from Government funding agencies.
➢ Consolidate the department Alumni data so that branch perception and department perception may be improved.
➢ Increase the hardware based project for UG students.
➢ The faculty should be encouraged to get project and enhance the consultancy from industries.
➢ Enhance branch perception and improve departmental placement through Alumni engagement.
➢ Explore the possibility to signing MOU from Alumni / core industry to provide projects to the UG students.
➢ Explore the possibility to attract executive Ph.D candidates for the Department from nearby industry.
➢ Need to establish State of Art Laboratories and explore the possibility to integrate latest tools and Technology at large.
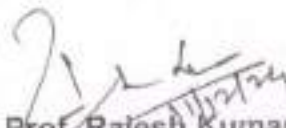
The committee appreciated the efforts of the HOD and team members of Department for the quick reply of the queries and submission of data.

Meeting ended with the vote of thanks to the chair.

Prof. Manpreet Kaur
HOD (EIE)

Prof. R.K. Mishra
Dean (A&IR)

Prof. Sanjay Marwaha
Deptt. of EIE

Prof. Rajesh Kumar
Deptt. of Mech. Engg.

Prof. P.K. Dhiman
Deptt. of M&H

Prof. Dilbag Singh
NIT Jalandhar

PROFORMA OF ASSESSMENT

For

ACADEMIC AUDIT (2023 - 2024)

DEPARTMENT OF ELECTRICAL & INSTRUMENTATION ENGINEERING

Sant Longowal Institute of Engineering & Technology

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC AUDIT (2023 - 2024)

PROFORMA OF ASSESSMENT

1. **Name of the Department:** Electrical & Instrumentation Engineering

2. **Reviewer (Name, Designation & Address) :**

Prof. Manpreet Kaur, HOD, EIE, SLIET, Longowal- Convener

Prof. Ravi Kant Mishra, Dean (A&IR), SLIET, Longowal

Prof. Sanjay Marwaha, EIE, SLIET, Longowal

Prof. Rajesh Kumar, ME, SLIET, Longowal

Prof. P.K. Dhiman, M&H, SLIET, Longowal

Prof. Dilbag Singh, NIT Jalandhar- External Expert
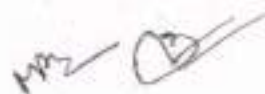
3. **Date of Review:** 11-12-2024

NOTE:

i. Please grade in the box provided for the following parameters in the range of 1-10 with 10 being the highest.

ii. Leave 'blank' for 'No Comment'.

iii. Kindly give your opinion on the strengths and weakness of the Department and your suggestions for future growth.

A. ACADEMICS –

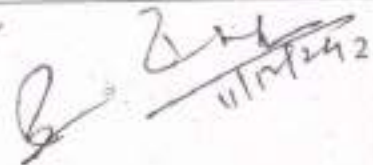| A.1	ICD Program	Score		Remarks
		Self assessment	Expert assessment	
1.	Curriculum (Structure, Course Syllabi, Flexibility), Theory/ practical (contents/ratio).	10	09	As per NEP 2020 http://eie.sliet.ac.in/scheme-and-syllabi/ • Annexure- A1, A2, A3
2.	Equivalence and Relevance of curriculum at national level	10	08	As per AICTE norms 2020 http://eie.sliet.ac.in/scheme-and-syllabi/

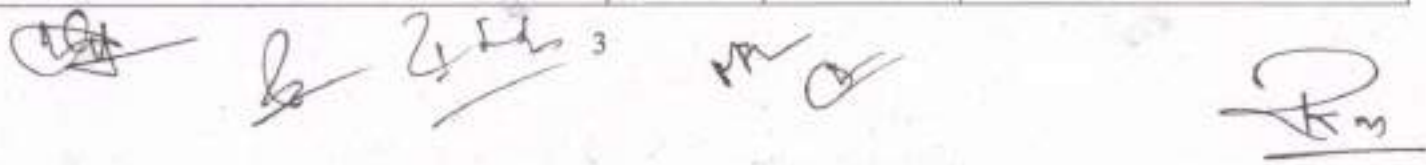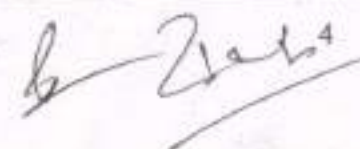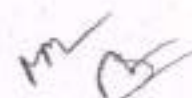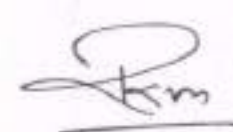|				
	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	09	As per AICTE norms SLIET Academic Section | Rules and Regulations • Annexure- A4
4.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	8	08	SLIET Academic Section | Rules and Regulations • Annexure- A5
5.	Tour/Training/Industrial visits/Internship opportunities provided during the year	9	07	Industrial tour organized by Shri Sunil Kumar Bansal for final year students of DIN-21 batch of the department. • Annexure- A6 Industrial training is conducted for both CEN-22 and CSMM-22 batches. In-house training is conducted for CEN-23 and CSMM-23 batches as per curriculum TP201. • Annexure- A7 Conducted every year to various industries as per curriculum TP301. http://eie.sliet.ac.in/scheme-and-syllabi/
6.	Effectiveness of Assisted Learning; Tutorial System for ICD Students/ Seminars (Refer Course File)	8	07	Identification of slow learner and Fast learner and treat them accordingly. Expert lecture are organized for "Communication skills : Reading ,Speaking and Listening" on 28/7/23 by ISTE and CSPDC Details regarding the batch, assessment, and overall outcomes of the course is available in course file. http://eie.sliet.ac.in/important-notices-and-forms/

		Score	Remarks
	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	10 / 10	Class counsellor and Tutor Gurdian Scheme Implemented. http://eie.sliet.ac.in/counselling/ • Annexure- A8, A9
8.	Practical activities, non-academic and totally related to a specific trade for skill development and *developing expertise in a particular group of techniques.*	10 / 08	Different activities of clubs and project labs available for students. Supporting students to make projects of their interest and for participating in various activities like tech fest. Workshops for mentoring of students. • Annexure- A10
9.	Linkage of ICD programs to outcome based vocational education (Industry linkage)	6 / 06	BOS of ICD curriculum restructuring was held in the month of May 2024. Restructured curriculum is implemented from July-24. The Qualification Pack (QP) has been identified and implemented in alignment with National Education Policy (NEP). http://eie.sliet.ac.in/scheme-and-syllabi/ • Annexure- A2
10	Availability of workshop type lab/laboratory for providing hand on training to the students for skill development	10 / 10	Available. http://eie.sliet.ac.in/laboratories/ • Annexure- A11
	Total Score (out of 100)	91 / 82	

UG Program	Score		Remarks
	Self assessment	Expert assessment	
1	Curriculum (Structure, Course Syllabi, Flexibility)	8	09	As per AICTE norms http://eie.sliet.ac.in/scheme-and-syllabi/ • Annexure- B1, B2
2	Status of study material developed by faculty for students	10	10	Developed and distributed in class and lab.
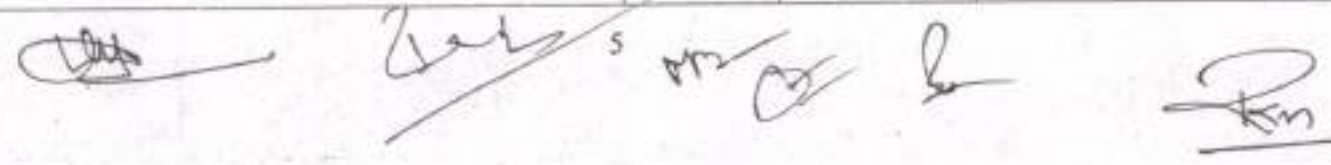
				Few recently developed course material by the faculty of Department. • Electrical Circuit Analysis and Synthesis (PCEE-511) subject course material is developed by Prof. Raj Kumar Garg. • Analytical and Optical Instrumentation (PCIE-611) subject course material is developed by Prof. Ashwani Kumar Aggarwal. • Process Control (IE-223) subject course material is developed by Dr. Barsha Mali. • Telemetry and Data Acquisition (PEIE-621C) subject course material is developed by Prof. Manpreet Kaur. • Online E-learning material is prepared by faculty of Department. http://eie.sliet.ac.in/e-learning/ • Annexure- B3
3	Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)	8	08	As per AICTE norms SLIET Academic Section	Rules and Regulations http://eie.sliet.ac.in/e-learning/ • Annexure- B4 (BOS)
4	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	09	As per AICTE norms SLIET Academic Section	Rules and Regulations • Annexure- B5, B5-(2), B6
5	Modern teaching methods in practice other than the conventional methods E-Assisted Learning (i) Availability of Library Resources (ii) Multi-Media Assisted Teaching	10	09	Hard copies and soft copies of books available in Department library. Smart classrooms available for ICT based teaching learning.

				Subscription of various Journals (IEEE, IETE, INSA etc.) http://library.sliet.ac.in/journals-magazines/ Department Library: http://eie.sliet.ac.in/department-library/ • Annexure- B3, B7, B8
6	Evaluation Process (Continuing Evaluation, and End-Term Evaluation) (i) Theory and tutorial (ii) Practical (case studies)	10	10	SLIET Academic Section | Rules and Regulations • Annexure- B9
7	Faculty–Student Interaction (Whether any slot is fixed for the students to interact with a teacher, after classes/labs	10	09	Yes, Class counsellor and Tutor Gurdian Scheme slot is fixed 12.30 pm every Wednesday. http://eie.sliet.ac.in/counselling/ • Annexure- B10, A9
8	Tour/Training/Industrial visits/Internship opportunities	8	07	Industrial tour organized by Shri Sunil Kumar Bansal for final year students of GIN-20 batch of the department. Compulsory 2 weeks and 4 weeks training for UG students and Optional 6 months internship. http://eie.sliet.ac.in/ • Annexure- B11
9	Effectiveness of Assisted Learning in Tutorial classes/seminars for Students Faculty Mentoring/Faculty Advisor System for Students/Class of Students	10	09	Expert lecture are organized for "Communication skills : Reading Speaking and Listening" on 28/7/23 by ISTE and CSPDC. Identification of slow learner and Fast learner and treat them accordingly. Encourage them to participate in Institute Level Projects and National Level Hackathon.

				Students are guided to Learn through "DO it Your Self" Details regarding the batch, assessment, and overall outcomes of the course is available in course file. http://eie.sliet.ac.in/important-notices-and-forms/ • Annexure- B12
				Class counsellor and Tutor Gurdian Scheme implemented. http://eie.sliet.ac.in/counselling/ • Annexure- B10, A9
10	Placement %age/higher studies options (last three years)	6	o 6	Placement percentage is increasing. http://eie.sliet.ac.in/students-activities/ • Section-25.3 (Year-wise Placement) in Audit Report (Pg-43) • Annexure- B13
	Total Score (out of 100)	90	86	
	PG Program (Separate for each program)	Score		Remarks
		Self assessment	Expert assessment	
1	Curriculum (Structure, Course Syllabi, Flexibility)	10	10	As per AICTE Norms. Also, PG in Electronic Instrumentation and Embedded Systems and PG in Control and Automation Engineering is being proposed. http://eie.sliet.ac.in/scheme-and-syllabi/ • Annexure- C1
2	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	10	As per AICTE norms SLIET Academic Section	Rules and Regulations • Annexure- C2
3	Evaluation Process (Continuing Evaluation, and End-Term	10	0 9	SLIET Academic Section	Rules and

				Regulations • Annexure- C3
4	Relevance of contents of courses taught to the students and scope of improvement	8	08	As per AICTE norms and syllabus are updated time to time http://eie.sliet.ac.in/ http://eie.sliet.ac.in/scheme-and-syllabi/ • Annexure- C4
5	Modern teaching methods in practice other than the conventional method E-Assisted Learning i. Availability of Library Resources and Major Search Engines (like Scopus, Web of Science) ii. Multi-Media Assisted Teaching	10	09	Smart classrooms available for ICT based teaching learning. Journal subscriptions for updated research. Hard copies and soft copies of books available. Subscription of various Journals (IEEE, IETE, INSA etc.) http://library.sliet.ac.in/journals-magazines/ Department Library: http://eie.sliet.ac.in/department-library/ Plagiarism software Urkund and DrillBit • Annexure- B3, B7, B8
5	Technical Societies/ Colloquium for Students i. Departmental Society ii. Student Chapter(s) of Professional Societies	6	06	Different activities of clubs and project labs available for students. IEEE SLIET Chapter available. Society of Electrical and Instrumentation Technocrats available. http://eie.sliet.ac.in/ • Annexure- C5
7	Tour/Training/Industrial visits/Internship opportunities	6	06	Industrial visits for research related work. Industrial training as per curriculum. http://eie.sliet.ac.in/files/2024/03/PG-Scheme-and-syllabus-2022.pdf
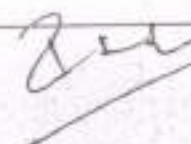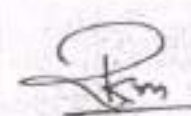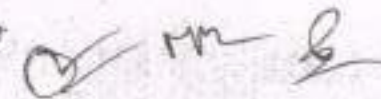
8	Collaboration with other departments (within institute)	10	10	Yes, experts lecture from other departments and subject of other department as per curriculum. (ACIE-811, CCIE-811, ACIE-821, OEIE-911) Research Methodology (RMAL-811) by Prof. A.K. Agarwal http://eie.sliet.ac.in/research-and-consultancy/ • Annexure- C6
9	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	8	08	R&D Monitoring and DRC available http://eie.sliet.ac.in/files/2023/07/Department-Committees-26th-June-2023.pdf Class Counselor: http://eie.sliet.ac.in/class-counselors/ • Annexure- B10
10	Monitoring and continuous evaluation of the project work assigned to the students (mechanism)	10	08	Evaluated at regular intervals by committee formed by HOD as per institute rules. (Synopsis, Mid-term evaluation, Pre submission, Final evaluation) http://academic.sliet.ac.in/ug-pg-cell/ug-pg-phd-academic-rule/ http://eie.sliet.ac.in/files/2023/07/Department-Committees-26th-June-2023.pdf
	Total Score (out of 100)	88	84	
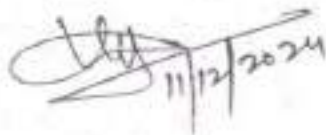
A.4	Doctoral (Ph.D.) Programmes	Score		
		Self assessment	Expert assessment	
1.	Intake of Ph.D. Students	2	02	Intake every year http://eie.sliet.ac.in/research-and-consultancy/
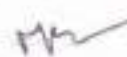
				• Annexure- C7
2.	Admission Process	10	09	GATE, SET V https://www.slietexam.co.in/#:~:text=C andidate%20shall%20log%20on%20t o.is%20a%205%20Step%20process. • Annexure- C7
3.	Pre-Ph.D. Courses and Evaluation Process	10	10	As per institute rules. http://academic.sliet.ac.in/ug-pg-cell/ug-pg-phd-academic-rule/ • Annexure- C8
4.	Breadth and Depth of Knowledge of Students	4	05	• Annexure- C8
5.	Seminar/ Presentations and Technical Communication	10	10	Evaluated at regular intervals by committee formed by HOD as per institute rules. http://academic.sliet.ac.in/ug-pg-cell/ug-pg-phd-academic-rule/ • Annexure- C9
6.	Research Facilities available in the Department	8	08	Labs and research facilities available http://eie.sliet.ac.in/ Research Lab : http://eie.sliet.ac.in/laboratories/resear ch-laboratory/ High Computational Lab. • Annexure- B5 (2)
7.	Average No. of Research Students/Faculty	2	02	2 (approx) http://eie.sliet.ac.in/research-and-consultancy/ • Annexure- C10
8.	Average No. of Research Papers of Ph. D Students (Indexed Journals)	6	06	> 2 per student http://eie.sliet.ac.in/research-and-consultancy/ • Annexure- C11, C12
9.	Average Duration to Complete Ph.D (years)	6	07	5 years (approx) http://eie.sliet.ac.in/research-and-consultancy/

10.	Participation of Research Scholars in Conferences/Workshops	2	05	Yes http://eie.sliet.ac.in/research-and-consultancy/ • Annexure- C12
	Total Score (out of 100)	60	64	

B. RESEARCH

		Score		
		Self assessment	Expert assessment	
1	Research Ambience in the Department	9	09	Research labs and groups available. http://eie.sliet.ac.in/ • Section-8 (Faculty detail) in Audit Report (Pg-6) • Section-7 (Research Infrastructure) in Audit Report (Pg-5)
2	Research Awareness among Doctoral Students	10	09	Guided by the R&D Monitoring and DRC committee of the department at frequent intervals. http://eie.sliet.ac.in/ • Section-15 (Workshop/Expert Lecture) in Audit Report (Pg-34) • Conference & workshop list in PhD Annexure (Annexure- C12)
3	Thrust areas of research in the department	10	09	Research groups available. http://eie.sliet.ac.in/faculty-research-groups/ • Section-9 (Research Group) in Audit Report (Pg-10)
4	Quality of Research	10	09	The number of publications and citations . http://eie.sliet.ac.in/research-publication-2/ • Faculty wise Publication List in Annexure-D1 • Faculty wise Citation report in Annexure-D2 • Section-11 (Contribution of Faculty- Patent/award etc.)

				in Audit Report (Pg-19)
5	Collaborations with other departments (within the institute) and at National, and International levels.	10	09	Yes. Faculties co-guide students with other departments. http://eie.sliet.ac.in/research-and-consultancy/ • Section-23 (Collaborations) in Audit Report (Pg-40) • Annexure-D3
6	Impact and Quality of Publications	10	09	The number of publications and citations increasing. http://eie.sliet.ac.in/research-publication-2/ • Faculty wise Publication List in Annexure-D1 • Faculty wise Citation report in Annexure-D2
7	Relevance of Research to Knowledge Generation and Social Relevance	10	09	The number of publications and citations increasing. http://eie.sliet.ac.in/research-publication-2/ • Faculty wise Publication List in Annexure-D1 • Section-9 (Thrust Area) in Audit Report (Pg-10)
8	Student Exposure for Attending Quality Conferences/Symposia	8	08	The number of publications and citations is increasing. http://eie.sliet.ac.in/research-publication-2/ • Conference & workshop list in PhD Annexure-C12
9	Inter departmental collaborations	8	08	Yes. Faculties co-guide students with other departments. http://eie.sliet.ac.in/research-and-consultancy/ • Section-23 (Collaborations) in Audit Report (Pg-40)

					• Two research scholar collaborative research with Doctor's of Homi Bhabha Cancer Hospital Sangrur in project cancer detection. • Annexure-D3
10	Industry/externally funded sponsored research (Numbers and amount)		6	OS	Few externally funded projects are fetched by the faculties of the department. http://eie.sliet.ac.in/research-and-consultancy/ • Annexure-D3
	Total Score (out of 100)		91	84	

General Comments on,

1. Plan of action of the department for the next five years (in view of NEP 2020)
2. Significant achievements of the department (faculty/Staff/Students)
3. Placement record of the department (Last three years)
4. Scope for training of faculty/staff for further strengthening the teaching-learning process for strengthening the curriculum with the addition of new courses having relevance at National and International levels.
5. Effective/Continuous monitoring of faculty/staff in delivery of the course contents (at departmental level) for enhancing the teaching-learning process.
6. Technical Societies/ Colloquium for Students
   (i) Departmental Society
   (ii) Student Chapter(s) of Professional Societies
7. Scope of improvement in the presenting teaching –learning process
8. The skill and expertise of the faculty/Technical staff in the department (specific)
9. Strengthening laboratory infrastructure (adding of new equipment's and use of present facility for optimum use)
10. Any other point

11/12/2024   11/12/24

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C. Departmental Infrastructure

		Score		Remarks
		Self assessment	Expert assessment	
1	Adequacy of Class Rooms and Multi-Media Facility	10	10	Smart classrooms are fully functional. http://eie.sliet.ac.in/ • Smart classroom detail in UG Annexure-B8
2	Availability of Laboratories	10	10	2 new laboratories are setup. http://eie.sliet.ac.in/laboratories/ • Section-7 (Laboratory Facility) in Audit Report (Pg-5)
3	Availability of Conference/Seminar Room, etc	5	06	Conference rooms and smart classrooms are fully functional. http://eie.sliet.ac.in/department-library/
4	Availability of Seating Space for Faculty and Research Students	10	10	New office rooms and conference rooms are allotted to faculties. http://eie.sliet.ac.in/department-library/ • Annexure-D4
5	Availability of Internet Services in Research Labs and Class Rooms	10	09	Yes. http://eie.sliet.ac.in/
6	Departmental Library and E-Resources	10	10	Hard copy and Soft Copy of books are available. Journal subscriptions are available in the institute intranet. http://eie.sliet.ac.in/department-library/
7	Computing Facilities and Software	8	08	Yes. http://eie.sliet.ac.in/
8	Adequacy of Offices and Furnishing for Faculty	7	07	Yes. http://eie.sliet.ac.in/
9	Faculty - Student Ratio	6	06	http://eie.sliet.ac.in/ • Annexure-D5
10	Support Staff (Technical/Administrative) Adequacy	9	09	Yes. http://eie.sliet.ac.in/faculty-staff/staff/
	Total Score (out of 100)	85	85	

11/12/2024

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SWOT analysis by the department

Strengths:

1. Well qualified, experienced and dedicated faculty and staff.
2. Significant contribution of faculty at Administrative level of the institute.
3. Good departmental library.
4. High Computational Lab developed for Research Purpose.
5. State-of-the-art laboratories have been established like automation lab; Sensor Network and IoT lab.
6. The department has ICD, UG, PG and PhD programmes.
7. The department has well equipped laboratories for the students to get hands-on experimentation.
8. The department has adequate smart classrooms equipped with smart board and sound system for online seminar, conferences and classes.
9. SCI publications are increasing every year.

Weaknesses:

10. Student placement in core companies is less.
11. Very few graduation students are opting for higher studies in India.
12. Externally funded and consultancy projects are less in number

Opportunities:
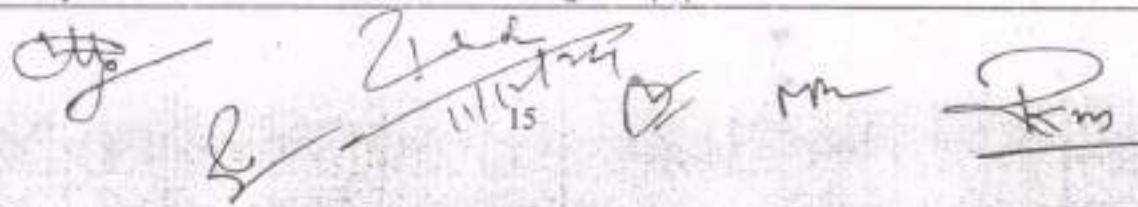
13. The Fee structure and location of the institute can attract the students from weaker section and local people complementing the slogan "Aatam Nirbhar Bharat"
14. Collaboration and innovation walk in the nearby villages gives the students a lot of opportunities to think and explore the innovative ideas, which is the demand of present scenario.
15. Precision agriculture is the new upcoming field to strengthen agriculture and department has offered subject on this.

Threats:

16. The location of the institute is not much attractive to fetch quality students and companies for placement.
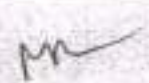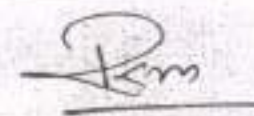
Suggestions for improvement:

17. More industry collaborated labs have to established.
18. Short-duration courses for skill development need to be started.
19. Suitable identified subjects should be linked with Artificial Intelligence (AI).
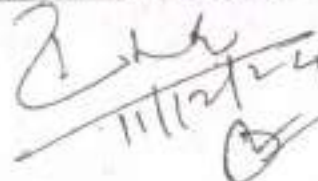
D. Outcomes

		Score		Remarks
		Self assessment	Expert assessment	
1	i. Placements for ICD ii. Placement of B.Tech. iii. Placement of Masters Student iv. Placement of Ph.D. Students	7.5	07	Placement percentage increased. http://eie.sliet.ac.in • Section-25 (OUTCOMES) in Audit Report (Pg-40)
2	Average No. of Ph.D.s Awarded per Year	7	07	4.33 in the last 3 years. http://eie.sliet.ac.in/research-and-consultancy/ • Section-10 (Ph.D. Awarded) in Audit Report (Pg-11, Section- 25.2)
3	Publications per Faculty in Indexed Journals/Year (Average of last three years)	10	08	4.15 http://eie.sliet.ac.in/research-and-consultancy/ • Faculty wise Publication List in Annexure-D1
4	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	8	07	80.66 http://eie.sliet.ac.in/research-and-consultancy/ • Section-25.2 (Placement & Research data) in Audit Report (Pg-43) • Annexure-D2
5	Recognitions; Awards(National/International) to Faculty/Students	6	07	3 http://eie.sliet.ac.in/research-and-consultancy/ • Section-11-(ii) (Contribution of Faculty and Staff) in Audit Report (Pg-18)
6	Consultancy and Externally Funded Projects	6	06	01 http://eie.sliet.ac.in/research-and-consultancy/
7	No. of Ph.D. graduates who took Academics as Career (Last 5 Years)	10	08	10 http://eie.sliet.ac.in/research-and-consultancy/

				• Section-25.4 in Audit Report (Pg-49)
8	Students offered for higher studies	04	04	Almost all ICD students opt for higher studies. UG and PG students also opt for higher studies. • Section-17 (Students Performance in National Level Competitive Exams) in Audit Report (Pg-35)
9	No. of qualified students NET/GATE/CAT etc (State/Central Civil Services)	04	04	08 • Section-17 (Students Performance in National Level Competitive Exams) in Audit Report (Pg-35)
10	Entrepreneurship	2	04	Few
	Total Score (out of 100)	64.5	69	

Comments & Suggestions for Improvement
1. More industry collaborated labs have to established.
2. Short-duration courses for skill development need to be started.
3. Suitable identified subjects should be linked with Artificial Intelligence (AI).

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC AUDIT (2023 - 2024)

SUMMARY SHEET

1.	Name of the Department	Electrical and Instrumentation Engineering	
2.	Name of Reviewer Designation & Address	From Academia	From Industry
		Prof. Dilbag Singh, NIT Jalandhar	
3.	Date of Meeting	11-12-2024	
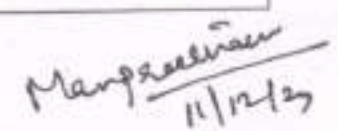
Score Summary (Self)

Academic				Research (Max Score 100)	Departmental Infrastructure (Max Score 100)	Outcome (Max Score 100)	Total Score (700)
ICD Program (Max Score 100)	UG Program (Max Score 100)	PG Programs (Max Score 100) (Average of all PG programs)	Doctoral Program (Max Score 100)				
91	90	86	60	91	85	64.5	569.5

Score Summary (Expert)

Academic				Research (Max Score 100)	Departmental Infrastructure (Max Score 100)	Outcome (Max Score 100)	Total Score (700)
ICD Program (Max Score 100)	UG Program (Max Score 100)	PG Programs (Max Score 100) (Average of all PG programs)	Doctoral Program (Max Score 100)				
82	86	84	64	84	85	62	547

Note: 1. Marks mentioned above is the average of the marks given by the experts.

2. If marks have not been allotted for some attributes by the experts, total score can be scaled to maximum marks.
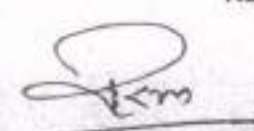
Name & Signature of HOD

18

ACADEMIC AUDIT REPORT

For

2023 - 2024

DEPARTMENT OF ELECTRICAL & INSTRUMENTATION ENGINEERING

Sant Longowal Institute of Engineering & Technology

DEPARTMENT OF ELECTRICAL & INSTRUMENTATION ENGINEERING SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY, LONGOWAL

ACADEMIC AUDIT 2023-2024

PURPOSE OF THE AUDIT:

The objective of Academic Audit (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/Centres.

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/Centres of Studies on Programs Offered, Students

1

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. has been considered.

- To evaluate the performances of faculty and their capability matrix under the context of their Teaching, Learning, Research and Development, and Extension Activities has been taken into account.

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, and for providing better amenities.

- The feedback process on the ERP portal provides students with an efficient platform to share their opinions about the academic experience. This process involves presenting students with 18 structured questions, covering various aspects such as teaching quality, course content, faculty engagement, and infrastructure. Each question is designed to gauge specific elements of the learning environment, enabling the institution to identify strengths and areas for improvement.

Departmental Visit by Academic Audit Committee (AAC)

- **Presentation of Departmental Profile** (Detail of the programs, accomplishments, achievements of Faculty and the perspective future plans)
- **Visit of the Department**, and Facilities for the purpose of understanding the Department, Faculty and their activities.

Head of Audit

- Academic (ICD, UG & PG Programme)
- Research
- Departmental Infrastructure
- Outcomes

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY

ACADEMIC AUDIT (2023-24)

PROFORMA OF ASSESSMENT

1. NAME OF THE DEPARTMENT : **Electrical & Instrumentation Engineering**
2. YEAR OF ESTABLISHMENT : **1991**
3. MEMBERS OF THE COMMITTEE :
   Dr. Manpreet Kaur, HoD (EIE)
   Dr. Ravi Kant Mishra, Dean (A & IR)
   Dr. Sanjay Marwaha, Professor (EIE)
   Dr. Rajesh Kumar, Professor (ME)
   Dr. P.K. Dhiman, Professor (M & H)
   Dr. Dilbag Singh, Prof. (EIE), NIT Jalandhar

4. DATE OF REVIEW : **11/12/2024**

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

Programme	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

6. INTAKE OF THE STUDENTS:

Name of Course(s)	2019 Batch		2020 Batch		2021 Batch		2022 Batch		2023 Batch	
	Admit.	Grad.	Admit.	Grad.	Admit.	Grad.	Admit.	Grad.	Admit.	Grad.
ICD/DIN	36	36	39	37	22	20	38	Conti	33	Conti
ICD/DEE	33	33	39	36	40	33	22+2	Conti	34	Conti
UG/GIN (JEE + LEET)	19+45	63	15 + 45	43	15+17	Conti	26+43	Conti	12+9	Conti
UG/GEE (JEE + LEET)	27+40	65	27 + 40	64	31+38	Conti	24+43	Conti	23+35	Conti
PG/ICE	05	05	04	04	04	02	01	01	02	Conti
Ph.D. Full Time	04	Conti	02	Conti	02	Conti	01	Conti	Conti	--
Ph.D. Part Time	01	Conti	01	Conti	01	Conti	--	--	--	--
No. of Ph.D.'s awarded since 2007 till date – 34										

7. LABORATORY FACILITY:

(i) Summary of Laboratories

S. No.	Name of the lab (Lab In charge)	Status of Lab (Quite modernized/Need to be modernized)	Status of Lab Equipment (Functioning properly/ Need maintenance/ up-gradation)	No. of experiments (Adequate /Need to be increased)
1	Electrical Workshop (Lab I/C—Er. AB)	Need to be modernized	Functioning properly and up-gradation is under process	14
2	Digital Electronics Lab (Lab I/C—Dr. AKA, Dr. BM)	Need to be modernized	Functioning properly and need up-gradation	15
3	Micro-controllers & Embedded Systems Lab (Lab I/C—Dr.AKA, Dr. BM)	Need to be modernized	Functioning properly and need up-gradation	15
4	Microprocessor Applications Lab (Lab I/C—Dr. AKA, Dr. BM)	Quite modernized	Functioning properly and need up-gradation	13
5	Biomedical Lab (Lab I/C—Dr. MK)	Quite modernized	Functioning properly and up-graded through MODROB-Rural Project by AICTE (Rs. 11,82,500/-)	12
6	Power Electronics (Lab I/C—Dr. RV)	Quite modernized	Functioning properly	10
7	Measurement Lab (Lab I/C—Dr. RKG)	Need to be modernized	Functioning properly and need up-gradation	21
8	Virtual Instrumentation &DAQ (Lab I/C—Er. SK)	Quite modernized	Functioning properly	21
9	Analytical Lab (Lab I/C—Dr. MK, Er. SK)	Quite modernized	Functioning properly and need up-gradation	10
10	Transducer Lab (Lab I/C—Dr. MS, Dr. JS)	Need to be modernized	Transducers kits under procurement.	12
11	Process Control (Lab I/C—Dr. AAK, Dr. BM)	Modernized	Functioning properly and need maintenance	09
12	Control Engg. Lab (Lab I/C—Dr. MS)	Quite modernized	Functioning properly	14

13	Basic Electrical Engg. (Lab I/C--Dr. CG)	Need to be modernized	Functioning properly	10
14	Electrical Machines Lab (Lab I/C--Dr. GS)	Quite modernized	Functioning properly	13
15	Computational Lab (Lab I/C--Dr. CG)	Quite modernized	Functioning properly and augmented with 80 computers.	10
16	Research Lab (Lab I/C--Dr. ASA)	Need to be modernized	Functioning properly and need up-gradation	N/A
17	DSP Lab (Lab I/C--Dr. AKA, Dr. BM)	Need to be modernized	Functioning properly and need up-gradation	12
18	Instrumentation Project Lab (Lab I/C--Dr. PT)	Need to be modernized	Functioning properly and need up-gradation	N/A
19	Power System Lab (Lab I/C--Dr. DS, Dr. RV)	Quite modernized	Functioning properly (to be housed in new block)	15
20	Automation Laboratory (Centre for Training and Research in Automation) (Lab I/C—Dr. RKG)	Advanced modernized	Functioning properly (new block)	16
21	High Computational Lab (Lab I/C—Dr. SM)	Advanced modernized	Functioning properly (new block)	NA
22	Sensor Network and IoT Lab (Lab I/C—Dr. SM and JS)	Advanced modernized	Functioning properly (new block)	15

(ii) **Recent Lab Equipment**

S. No.	Name of the lab	Equipment	Year of Purchase	Qty.	Price per unit
1	Transducer Lab (E-104)	Hydraulic Dead Weight Tester	2022	1	2,98,791/-
2	Sensor Network and IoT Lab (EE-116)	IOT Builder Platform (Scientech-6205)	2023	1	123559/- +18% GST
		IoT Learning Training System (Scientech-6205A)	2023	1	124576/- +18% GST
		IoT Enabled Smart Irrigation (Scientech-6205SI)	2023	1	286780/- +18% GST

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		IoT Enabled System for Biomedical Applications (Scientech-6205BA)	2023	1	89153/- +18% GST
		Arduino Startup Kit (EIE, SLIET)	2022	1	Developed Inhouse
		Generalized IoT Kit (EIE, SLIET)	2022	3	Developed Inhouse

(iii) Major Equipment

Sr. No.	Name of the Equipment	Year of Purchase	Amount (Rs.)	Name of Lab, where installed
1	Workstations	2023	4,56,884/-	EE-116 (New Block EIE)
2	Hydraulic Dead Weight Tester	2022	2,98,791/-	Transducer Lab (E-104)
3	Multi-physiological signal system with complete sensors	2021	20,39,715/-	Biomedical Lab (E-102)
4	Portable X-Ray Machine	2021	1,50,000/-	Biomedical Lab (E-102)
5	Scientech 2700 high voltage power electrical lab workbench	2021	6,89,120/-	Power Electronics Lab (E-324)
6	Viscometer	2021	1,48,000/-	Analytical Lab (E-102)
7	MP160 System with Acq Knowledge Window or Mac and accessories	2020	9,62,000/-	Biomedical Lab (E-102)
8	Basic + Advanced Pneumatic + Electro Pneumatic training Kit (1 each with 1 Rolling Table, 2 Drawer Units, 2 Power Supply)	2019	88,000,00/-	Centre for Training and Research in Automation (Automation Laboratory) (New Block EIE)
9	Training Kit-PLC Module			
10	Pick And Place Demo Kit			
11	Sorting Demo Kit			
12	Stamping Demo Kit			
13	Vacuum Technology			
14	Transparent Hydraulic Kit (Level 1, 2 & Electro-hydraulics)			

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15	Sensor Training Kit with Table			
16	Pneumatic Magnetic Board Symbols for Training Purpose			
17	Electrical Power Transmission Line Simulator	2018	3,95,000/-	Power System Lab (E-101)
18	Power Factor Control Kit	2018	1,25,000/-	Power System Lab (E-101)
19	Sequence Impedance of Alternator by Fault Analysis Panel	2018	1,75,000/-	Power System Lab (E-101)
20	Feeder Protection Simulation Panel	2018	3,50,000/-	Power System Lab (E-101)
21	Generator Protection Simulation Panel	2018	3,60,000/-	Power System Lab (E-101)
22	Transformer Protection Simulation Panel	2018	2,60,000/-	Power System Lab (E-101)
23	Radial and Ring Main Distribution System Training Panel	2018	2,50,000/-	Power System Lab (E-101)
24	Air Circuit Breaker Panel	2018	2,00,000/-	Power System Lab (E-101)
25	Vacuum Circuit Breaker Panel	2018	4,50,000/-	Power System Lab (E-101)
26	Static Var Controller	2018	1,25,000/-	Power System Lab (E-101)
27	A,B,C,D parameters of transmission line model	2018	1,12,100/-	Power systems Lab (E-101)

8. FACULTY MEMBERS

S. No	Name	Qualification	Designation	Specialization	Experience
1	Dr. J.S. Dhillon	Ph.D.	Professor	Power System Optimization	37
2	Dr. S. Marwaha	Ph.D.	Professor	Power Systems	34
3	Dr. A.S. Arora	Ph.D.	Professor	Biomedical Engineering	31
4	Dr. Surita Maini	Ph.D.	Professor	Antenna and Biomedical Engineering	29
5	Dr. Manpreet Kaur	Ph.D.	Professor	Biomedical Signal and Image Processing,	29

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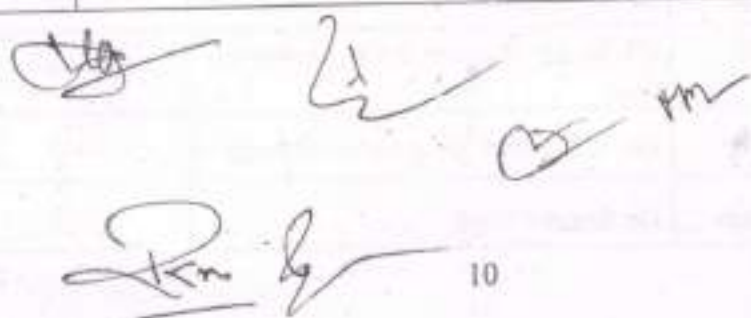
				Machine Learning	
6	Dr. A. K. Aggarwal	Ph.D.	Professor	Computer Vision	27
7	Dr. Manmohan Singh	Ph.D.	Professor	PowerSystem Optimization	25
8	Dr. Raj Kumar Garg	Ph.D.	Professor	Signal Processing, Power Quality, Industrial Process control	23
9	Dr. Prathiba Tyagi	Ph.D.	Associate Professor	Biomedical Engineering	31
10	Er. Rajinder Kaur	M.Tech	Associate Professor	Electrical and Biomedical Engineering	29
11	Dr. Diljinder Singh	Ph.D.	Associate Professor	Electrical Engineering	29
12	Er. Anshuka Bansal	M.Tech	Associate Professor	Electrical Engineering	27
13	Dr. Manpreet Singh	Ph.D.	Associate Professor	Electrical Engineering	26
14	Dr. Charanjiv Gupta	Ph.D.	Associate Professor	Electrical Engineering	28
15	Dr. Asim Ali Khan	Ph.D.	Associate Professor	Instrumentation, Biomedical Imaging	26
16	Dr. Gurmeet Singh	Ph.D.	Associate Professor	Electrical Engineering	28
17	Er. Sunil Kumar Bansal	M. E.*	Assistant Professor	Instrumentation & Control	11
18	Dr. Barsha Mali	Ph.D.	Assistant Professor	Instrumentation & Control	8
19	Dr. Jaspreet Singh	Ph.D.	Assistant Professor	Biomedical Engineering	4
20	Dr. Rishabh Verma	Ph.D.	Assistant Professor	Power System	4
21.	Dr. Nimish Bhatt	Ph.D.	Guest Faculty	Electrical Engineering	2
22.	Er. Ruchika	M. Tech*	Guest Faculty	Instrumentation Engineering	1
23.	Er. Avinash	M. Tech*	Guest Faculty	Electrical Engineering	1

*- Pursuing Ph.D.

9. RESEARCH GROUP(S)/ INTERDISCIPLINARY GROUP(S):

Research Groups	Thrust Area	Faculty
Instrumentation	• [1]Biomedical Engineering • [2]Medical Thermography • [3]Microprocessor Based Systems • [4]Brain Computer Interface • [5]Microwave Thermal Ablation • [6]Bio-Optics • [7]Design of Electromagnetic Devices • [8]Instrumentation and Control • [9]AI in Biomedical • [10]Biosensors • [11]Signal and Image Processing • [12]Internet of Things (IoT) • [13]Process Control	a) Dr. A.S. Arora [1,2,3,11] b) Dr. Surita Maini [1,4,5,6,9, 12] c) Dr. Manpreet Kaur [1,9,10] d) Dr. Prathiba Tyagi [1,11] e) Er. Anshuka Bansal ([10] f) Dr. Asim Ali Khan [11] g) Dr. A. K. Aggarwal [9,10,11] h) Er. Sunil Kumar Bansal [1,8,10] i) Dr. Barasha Mali [1,8,9,10] j) Dr. Jaspreet Singh [1,2,11, 12] k) Dr. Raj Kumar Garg [13]
Electrical	• [1]Power System • [2]Power Apparatus and Electrical Drives • [3]Design of Electromagnetic Devices • [4]Industrial Electronics and Power Quality • [5]Optimization • [6]AI in Power System • [7]Machine Designing • [8]Power Quality • [9]Signal Processing • [10]Energy Management & Renewable Energy	a) Dr. J.S. Dhillon [1,5,6,10] b) Dr. S. Marwaha [2,3,7,10] c) Dr. Diljinder Singh [1,5] d) Dr. Charanjiv Gupta [10] e) Dr. Manpreet Singh [2,3,4,6] f) Dr. Gurmeet Singh [3,7] g) Dr. Manmohan Singh [1,5,6] h) Dr. Raj Kumar Garg [8,9] i) Dr. Rishabh Verma [1,10] j) Dr. Manpreet Kaur [5]

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10. Ph.D. Awarded (Last 5 years)

S. No.	Research Fellow	Name of Supervisor	Year of Completion	Academics as Career
1.	Veenus Kansal	Dr. J.S. Dhillon	2023	Yes
2.	Ashok Kumar	Dr. J. S. Dhillon	2023	--
3.	Ashutosh Bhadora	Dr. Sanjay Marwaha	2023	--
4.	Sumika Chauhan	Dr. Manmohan Singh & Dr. Ashwani Kumar Aggarwal	2022	Yes
5.	Paramjeet Singh	Dr. Sanjeev Singh & Dr Shailendra Jain	2022	Yes
6.	Gurpreet Kaur	Dr. J. S. Dhillon	2022	Yes
7.	Risabh Dwivedy	Dr. Sanjeev Singh & Dr Shailendra Jain	2022	Yes
8.	Vinay Kumar	Dr. Sanjeev Singh & Dr Shailendra Jain	2022	Yes
9.	Vibhor K. Bharadwaj	Dr Surita Maini	2021	Yes
10.	Diljinder Singh	Dr. J. S. Dhillon	2021	Yes
11.	Asim Ali Khan	Dr. A.S. Arora	2021	Yes
12.	Rajat Kumar	Dr. Sanjay Marwaha & Dr. Raj Kumar Garg	2021	Yes
13.	Mohit Kumar	Dr. J. S. Dhillon	2021	Yes
14.	Gurmeet Singh	Dr. A.S. Arora & Dr. Sanjay Marwaha	2020	Yes
15.	Jaspreet Singh	Dr. A.S. Arora	2020	Yes
16.	Jatinder Singh	Dr. J. S. Dhillon	2020	--
17.	Manoj Kumar	Dr. Sanjeev Singh	2020	--
18.	Charanjiv Gupta	Dr. Sanjeev Singh	2020	Yes
19.	Sukhjit Singh	Dr. V. K. Jain	2020	--
20.	Gurinder Pal Singh	Dr. Sanjay Marwaha & Dr. Amanpreet Singh	2019	Yes
21.	Satyajit Sen	Dr. V.K. Jain & Dr. Amanpreet Singh	2019	--
22.	Jaspreet Singh	Dr. Sanjeev Singh	2019	Yes

11. CONTRIBUTION OF FACULTY AND STAFF:

(i) Research Publications/ Projects

Name of Faculty/ Staff	Designation/ Qualification/ Status	Contribution in Teaching (punctuality/ innovation/ use of ICT)	Contribution in B.E. Projects (Last One Year) (Annexure-B6)	Contribution in Research (Publications & M. Tech. Guidance (Last 3 Years)	Other (Department/Institute / National/ International) (Last 5 Years)
Dr. J.S. Dhillon	Professor/ Ph.D./ Regular	Use of ICT	-	10(SCI)/ 9(Scopus)/ 1(book)/ 1(pre-print)/ 01 (M.Tech.)	Ex-Dean (Acad), Ex-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	-	5 (SCI)/ 4(Scopus)/ 4(conferences)/ 2(pre-print)/ 1(other)/ 02 (M.Tech.)	NAAC Coordinator, Ex-HOD (EIE), FI (A&A), Coordinator (PMKVY). Member BOS (PTU & GNEC), Expert (NAAC), Expert NEQIP (AICTE)
Dr. A.S. Arora	Professor / Ph.D./ Regular	Use of ICT	01	1(SCI)/ 4(Scopus)/ 01 (M.Tech.)	President IIC, Ex-Dean (FSW), Ex-Dean (Acad), Ex- Dean (SFW), Member BOS (IKGPTU & MRSPTU), Expert (NBA), Member (Committee of Academics and Governance, ABVIET Pragati Nagar, Member Secretary ACOFOR, Chairman Estimation Committee

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					(Electrical),
Dr. Surita Maini	Professor /Ph.D./ Regular	Use of ICT	-	9 (SCI)/ 2(Scopus)/ 01 (M.Tech.)	Vice President (IIC), HOD (EIE), Ex-Chief Warden (GH), Ex-Chairperson (SPICMACAY), Ex-Class Counselor, Member CSAB, Core committee Member TEQIP, Board Member KV
Dr. Manpreet Kaur	Professor/Ph. D./ Regular	Use of ICT	01	14(SCI)/ 03(Scopus)/ 02(M. Tech.)	HOD (EIE), Class Counselor, Training Coordinator (GIN), NBA Coordinator (GIN), Coordinator (Cohort- 2) Pilot program under AICTE CSPDC Cell, Member core committee Madhuram 2019, Member CSPDC cell Coordinator (Degree), SPOC SWAYAM, Member IQAC, Member War-room Committee
Dr. A.K. Aggarwal	Prof./ Ph.D/ Regular	Use of ICT	01	12(SCI)/ 03(Scopus)/ /01 (Sponsored projects)	Branch Counselor (IEEE Chapter), Class Counselor, Department Time Table committee Member, Coordinator (HBCH Sangrur), B.Tech. project Co-ordinator, Departmental Placement committee convener
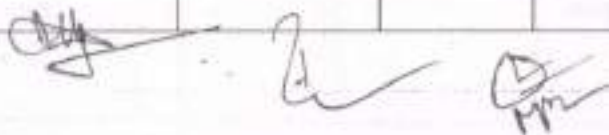
Dr. Manmohan Singh	Prof./ Ph.D./ Regular	Use of ICT	02	07(SCI)/ 03(Scopus)/ /02 (M.Tech.)	Chief Warden (BH), Faculty Advisor SRAS, Mentor for National Level event: Smart India Hackathon org. by MHRD, SLIET Internal Hackathon- 2020 Coordinator, Trainer in Internet of Things by NPIU
Dr. Raj Kumar	Prof./ Ph.D./ Regular	Use of ICT	03	3(SCI)/ 3(Scopus)	Ex-FI (Electrical), Class Counsellor, Training Coordinator, Member (BOM)
Dr. Pratibha Tyagi	Assoc. Prof./Ph.D./ Regular	Use of ICT	04	01(SCI)/ 02(Scopus)	Associate Dean (Alumni & Industrial Relations) , Ex-Chief Warden (GH), ATPO (EIE), Ex-Editor (Anshumat), Core Committee Member, Techfest-18 and Madhuram, Member (Creche Committee) Organized one day workshop, PhD thesis co-ordinator
Er. Anshuka Bansal	Assoc. Prof./ M.Tech./ Regular	Use of ICT	03	-	Chief Warden (GH), Vice-Chairman Madhuram 2022, Vice Chairperson Techfest 20, Member War room outreach and inclusivity, Senate member, Member energy conservation committee,

						Member Jal shakti Abhiyaan, Ex- Department Time Table committee convener
Dr. Diljinder Singh	Assoc. Prof./ PhD / Regular	Use of ICT	03		-	Department Time Table committee Convener, Ex-Warden (BH), Member Library Committee, Class Counselor, Ex-MTech thesis co-ordinator
Dr. M.S. Manna	Assoc. Prof./ Ph.D./ Regular	Use of ICT	-		01 (SCI)/ 06 (Scopus)	Chairman Madhuram 2022, Industry and Academic collaboration committee convener, Ex-Director AICTE, Coordinator SWAYAM, MTech thesis co-ordinator
Dr. Charanjiv Gupta	Assoc. Prof./ Ph.D./ Regular	Use of ICT	-		-	Associate Dean (Civil) & Associate Dean (Electrical), Deptt Purchase committee convener, Ex-FI (Electrical), Class Counselor, BTech project Co-ordinator, Departmental purchase

					committee convener
Dr. A.A. Khan	Assoc. Prof./ Ph.D/ Regular	Use of ICT	02	02 (Scopus)	Departmental Examination committee convener, FA (SRAC), Class Counselor, Nodal Officer (EPF),
Dr. Gurmeet Singh	Assoc. Prof./ Ph.D./ Regular	Use of ICT	-	-	Class Counselor, Member (EDPC)
Er. Sunil Kumar	Asstt. Prof./ PhD. Pursuing./ Regular	Use of ICT	02	01(SCI)	Class Counselor, Department Time Table committee Member, Departmental Placement committee member
Dr. Barasha Mali	Asstt. Prof./ Ph.D./ Regular	Use of ICT	02	-	Class Counselor, Warden (GH), Member IIC, NCC committee
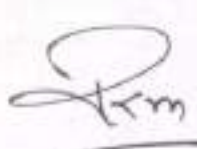
Dr. Jaspreet Singh	Asstt. Prof./ Ph.D./ Regular	Use of ICT	24	01 (SCI)/ 01 (Scopus)/ 01 (M.Tech.)	Class Counselor, Warden (BH), IIC Social Media Coordinator, Department Time Table Committee Member, Department Purchase Committee Member, Departmental website committee member
Dr. Rishabh Verma	Asstt. Prof./ Ph.D./ Regular	Use of ICT	04	01 (SCI)	Class Counselor, Ex-Warden (BH), SET Committee Member, Departmental committee member
Mr. S.S. Rathore	Sr. Tech. Diploma (Inst. and Control Engg.) BA (26 Yrs. Exp.)				
Mr. S.S. Bhullar	Technician Diploma in ECE (29 Yrs. Exp.)				
Mr. Vipan Kumar	Technician Diploma in Elect. Engg. (27 Yrs. Exp.)				
Mr. Amarjit Singh	Technician (24 Yrs. Exp.)				

Mr. Navdeep Kumar	Technician Diploma in Elect. Engg. M.Sc. (IT)(19 Yrs. Exp.)				
Mr. Ranvijay Kr. Singh	Clerk B.Com. (25 Yrs. Exp.)				Handling PMKVY work
Mr. Kila Ram	MTS,+2 (21 Yrs. Exp.)				
Ms. Harinder Kaur	MTS,+2 (14 Yrs. Exp.)				

(ii) Awards

a) Prof. J. S. Dhillon received the **"Er. Gurcharan Singh Oration Award"** conferred by Punjab Academy of Sciences during 27th Punjab Science Congress held at the Desh Bhagat University (February 7, 2024) for Achievements and contributions in Electrical sciences.

b) Dr. Manpreet Singh Manna received the **"ISTE Best Engineering and Administrator award 2023"** for Punjab state and Excellence in education.

c) Prof. Manpreet Kaur received the **"Distinguish Women Researcher in Bio-Medical Signal Processing"** by Venus Foundation.

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(iii) Patents

Granted

- Dr. Surita Maini Patent entitled "An Apparatus and Method for Determining Relative Concentration of a Sample" has been granted with Patent No.: 472222 dated 23/11/2023.
- Dr. Manpreet Kaur, "Heart Heal Monitoring Device", Patent Design No. 409079-001, Serial No. : 167956, Feb 2024.

Published

- Dr. Manpreet Singh Manna, "Hand Exercising Device" Patent Number: 530930, 28.03.2024.
- Dr. Manpreet Singh Manna, "Smart Shade Controlling Device", Patent Number: 530078, 25.03.2024.
- Dr. Manpreet Singh Manna, "Radiation Hardened Memory Device", Patent Number: 523628, 12.03.2024

(iv) Collaboration (Ph.D. Guiding)
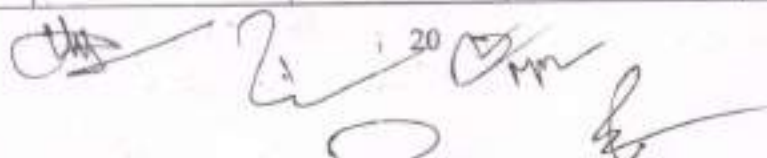
Sr. No.	Research Scholar	Supervisor or Co-supervisor	Collaboration with
1.	Devinder Mohan	Dr. Pratibha Tyagi	CSIO Chandigarh
2.	Bhaskar Panday	Dr. A.S. Arora	IIT Delhi
3.	Ruchika Thukral	Dr. A.S. Arora & Dr. Ashwani Aggarwal	Homi Bhabha Cancer Hospital, Sangrur
4.	Gulshan	Dr. A.S. Arora	Homi Bhabha Cancer Hospital, Sangrur
5.	Harpreet Singh	Dr. Manpreet Kaur	Department of CSE, SLIET
6.	Suvita Rani		
7.	Sandeep Kaur	Dr. Ashwani Aggarwal	

12. Subjects Taught by Faculties

Sr. No.	Session	Name of the Faculty	Class	Subject Code	Total No. Of Students	Passed students (%)
01	July-Dec 2021	Dr. J.S. Dhillon	GEE-19	PCEE-612	66	100
			PGICE-21	PCIE-812	4	100
		Dr. Sanjay Marwaha	GEE-20	PCEE-513	71	92.95
			PGICE - 21	PCIE - 811	4	100
			PGICE - 21	PCIE - 813 Lab	4	100

	Dr. A.S. Arora	PGICE-21	PEIE-812D	4	100
		ALL TRADES	OEIE-711B	12	100
		CEN-19	EE-312 Lab	36	91.66
	Dr. Surita Maini	GIN-18	PCIE-711	45	100
		GIN-18	PCIE-713 Lab	45	100
		PGICE-21	PEIE-811D	4	100
	Dr. Manpreet Kaur	CSMM-19	IE-313	36	100
		CSMM-19	IE-313 Lab	36	100
		GIN-19	PEIE-611A	63	100
		PGICE-21	PCIE-814 Lab	4	100
	Dr. Pratibha Tyagi	CEN-19	EE-313	36	100
		CEN-19	EE-313 Lab	36	100
		CSMM-19	IE-311	36	100
		CSMM-19	IE-311 Lab	36	100
	Er. Rajinder Kaur	On Leave			
	Er. Anshuka Bansal	GEE-21	ESEE-402	30	96.67
		ALL TRADE	OEEE-612A	150	100
		GEC-21	ESEE-402 Lab	30	100
		CEN-20	EE-213	37	100
		CEC-19	OEEE-612A	3	66.67
		CDE-20	EE-211 Lab	19	100
	Dr. M. S. Manna	CEN-20	EE-215	37	100
		CFP-20	EE-211 Lab	36	86.11
		GIN-18	PEIE-711A	45	100
		GEE-18	PEEE-711A	62	100
	Dr. Charanjiv Gupta	GCS-21/GIN-21/GEE-21/GEC-21	ESEE-401	30	100
		GCS-21	ESEE-402 Lab	62	98.37
	Dr. Diljinder Singh	GEE-19	PCEE-611	66	100
		GEE-18	PCEE-711	62	100
		GEE-18	PCEE-713 LAB	62	100
		CAC-20	EE-211 Lab	31	100
	Dr. A.A. Khan	CSMM-19	IE-315	36	100
		CSMM-19	IE-315 Lab	36	100
		CSMM-20	IE-213 Lab	38	100
		PGICE-20	PEIE-911	4	100
	Dr. Gurmeet Singh	CEN-20	EE-212	37	100
		GEE-18	PEEE-712B	62	100
		CTD-20	EE-211 Lab	29	93.10
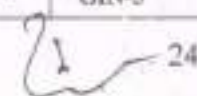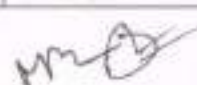
			PCEE-514 Lab	68	97.06
		Dr. Manmohan Singh	GEE-20	PCEE-511	68	97.06
			GIN-17	PCIE-612	63	100
			GIN-19	PCIE-613 Lab	63	100
		Dr. AK Aggarwal	GEE-20	PCEE-512	66	100
			CEN-20	EE-213 Lab	37	100
			GIN-18	PCIE-712	45	100
			GEE-19	PCEE-613 Lab	66	100
		Dr. Raj Kumar	GIN20	PCIE-511	50	92
			CDE/CWG/CFF-20	EE-211 Lab	98	91.83
			CSMM-19	IE-314	36	83.33
			CSMM-19	IE-314 Lab	36	83.33
		Er. Sunil Bansal	CSMM-20	IE-212	37	91.89
			CSMM-20	IE-212 Lab	37	91.89
			GIN-20	PCIE-513	50	100
			GIN-20	PCIE-515 Lab	50	100
		Dr. Barasha Mali	GIN-19	PCIE-611	63	98.41
			CEN-19	EE-315	36	100
			CEN-19	EE-315 Lab	36	100
			CSME-21/ CTV-21	EE-111	38	89.47
			GIN-21	ESEE-402 Lab	19	100
		Dr. Jaspreet Singh	GIN-18	PEIE-712C	45	100
			GIN-20	PCIE-512	50	98
			GIN-20	PCIE-514 Lab	50	98
			GEE-20	PCEE-515 Lab	68	97.06
		Dr. Rishabh Verma	GEE-18	PCEE-712	62	100
			GEE-18	PCEE-714 Lab	62	98.38
			CEN-21	EE-113	40	72.5
			CEN-21	EE-113 Lab	40	72.5
			CSMM-21	EE-113 Lab	22	90.90
02	Jan-June 2022	Dr. J.S. Dhillon	PGICE-21	PEIE-821	4	100
			GEE-20	PCEE-521	66	100
			GEE-20	PCEE-524 Lab	66	100
		Dr. Sanjay Marwaha	PGICE-21	PEIE-821D	4	100
			GEE-18	PEEE-722B	59	98.30
			CEN-20	EE-224 Lab	37	97.29
			CSMM-20	IE-226 Lab	38	76.31
		Dr. A.S. Arora	PGICE-21	PCIE-821	4	100

	GIN-19	PCIE-621	63	96.82
	GIN-19	PCIE-623 Lab	63	100
Dr. Surita Maini	GIN-19	PCIE-622	63	100
	GIN-18	PCIE-722B	43	100
	PGICE-21	PCIE-823 Lab	4	100
Dr. Manpreet Kaur	PGICE-21	PEIE-822D	4	100
	PGICE-21	PCIE-824 Lab	4	100
	GIN-20	PCIE-521	49	100
	CSMM-20	IE-222 Lab	38	94.73
Dr. Pratibha Tyagi	CEN-20	EE-222	37	97.29
	CEN-20	EE-222 Lab	37	97.29
	CPT-20	EE-221 Lab	37	89.18
	CSMM-21	IE-121	22	95.45
	CSMM-20	IE-223 Lab	38	81.57
Er. Rajinder Kaur	On Leave			
Dr. Diljinder Singh	CEN-20	EE-227	37	97.29
	CEN-20	EE-226 Lab	37	97.29
	CEN-19	EE-324 Lab	58	100
	CEN-19	EE-324	58	100
Er. Anshuka Bansal	CEN-19	EE-323	36	91.67
	CEN-19	EE-326	36	91.67
	CEN-20	EE-223 Lab	36	100
Dr. M. S. Manna	CEN-19	EE-322	36	94.44
	CEN-19	EE-322 Lab	36	94.44
	CEN-19	EE-223	38	92.11
	CEN-21	EE-121 Lab	35	100
	GEE-18	PEEE-721B	59	100
	CEN-21	TP-201	35	100
Dr. Charunjiv Gupta	GEE-19	PEEE-621A	66	98.48
	GCT-21/GFT-21	ESEE-401	29	100
	GCT-21/GFT-21	ESEE-402 Lab	29	100
	CEN-20	EE-224 Lab	37	97.29
Dr. A.A. Khan	GEE-20	PCEE-523	66	86.36
	GIN-19	PCIE-623 Lab	46	100
	CEN-19	EE-321	36	86.11
	CSMM-19	IE-322 Lab	36	97.22
Dr. Gurmeet Singh	GEE-20	PCEE-522	66	98.48
	CEN-20	EE-226	37	97.29
	GEE-20	PCEE-525 Lab	66	100

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			CPT-20	EE-221 Lab	37	89.18
		Dr. Manmohan Singh	GIN-20	PCIE-523	49	100
			GEE-19	PCEE-622	66	98.48
			GEE-18	EEP-721	62	100
			GEE-19	PCEE-623 Lab	66	100
		Dr. A.K. Aggarwal	GIN-19	PEIE-621C	63	100
			GIN-18	PEIE-721B	43	100
			CSMM-19	IE-323 Lab	36	97.22
			PGICE-21	PCIE-825	4	100
		Dr. Raj Kumar	CSMM-19	IE-324	36	83.33
			CSMM-19	IE-324 Lab	36	83.33
			GIN-20	PCIE-522	49	79.59
			GIN-20	PCIE-523	49	95.23
			GIN-20	PCIE-525 Lab	49	100
		Er. Sunil Bansal	GEE-19	PCEE-621	66	98.48
			CSMM-19	IE-325	35	91.67
			CSMM-20	IE-224	38	84.21
			CSMM-20	IE-224 Lab	38	84.21
			CSMM-18	IE-326	36	97.22
		Dr. Barasha Mali	GIN-18/GIN-19	HDIE-621	19	94.73
			CSMM-19	IE-321	36	86.11
			CEN-19	IE-327	36	100
			GIN-20	TPID-521	49	97.95
			GIN-20	EAA-521+	49	97.95
			CSMM-20	IE-223	38	81.57
		Dr. Jaspreet Singh	GIN-18	HDIE-711	11	90.91
			CSMM-20	IE-226	38	71.05
			CSMM-20	IE-226 Lab	38	71.05
			CEN-19	EE-325 Lab	36	97.22
			GCS	OEIE-622D	9	100
		Dr. Rishabh Verma	GEE-18	HDEE-711	2	100
			GIN-20	PCIE-524 Lab	49	100
			GCT-18	EEO-711	20	100
			GEE-18/GEE-19	HDEE-621	11	81.82
03	July-Dec 2022	Dr. J.S. Dhillon	GEE-5	PCEE-612	66	100
			GEE-5	PCEE-613 Lab	66	100
			PGICE-1	PCIE-812	1	100
		Dr. Sanjay Marwaha	GEE-3	PCEE-513	71	98.59
			PGICE-1	PCIE - 811	1	100

		PGICE - 1	PCIE - 813 Lab	1	100
	Dr. A.S. Arora	GEE-7	PCEE-711	65	100
		GEE-7	PCEE-713 Lab	65	100
		PGICE-1	PEIE-811B	1	100
	Dr. Surita Maini	PGICE-3	PEIE-911E	4	100
		PGICE-1	PCIE-814 Lab	1	100
	Dr. Manpreet Kaur	GIN-7	PEIE-711C	63	100
		GIN-7	PRIE 711	63	100
		PGICE-1	PEIE-812D	1	100
	Dr. Pratibha Tyagi	GIN-3	PCIE-513	33	96.96
		CSMM-3	IE-211	21	90.47
	Er. Rajinder Kaur	On Leave			
	Er. Anshuka Bansal	CEN-1	EE-112 Lab	40	95
		CEN-3	EE-213	34	73.52
		GEE-5	PEEE-611	66	100
		GEE-5	PEEE-611C	66	96.96
	Dr. M. S. Manna	On lien			
	Dr. Charanjiv Gupta	GEE-1	ESEE-402 Lab	24	100
		GIN-1/GEE-1 B	ESEE-401	52	96.15
		GEC-1/GEE1 A	ESEE-401	39	100
		GEE-7	PREE-711	65	100
	Dr. Diljinder Singh	GEE-5	HDEE-611	7	100
		GEE-5	PCEE-611	66	98.48
	Dr. A.A. Khan	GIN-7	PCIE-711	63	100
		CSMM-3	IE-212	21	71.42
		GIN-7	PCIE-713 Lab	63	100
		CSMM-3	IE-315	37	70.27
		CSMM-3	IE-315 lab	37	70.27
	Dr. Gurmeet Singh	CEN-3	EE-212	34	97.05
		CEN-3	TP-307	36	98.59
		CEN-4	EE-225	33	87.87
		GEE-3	PCEE-514 Lab	71	98.59
		CSME-1/CTV-1	EE-111	36	90.47
		CSMM-3	IE-215	21	90.47
	Dr. Manmohan Singh	GEE-3	PCEE-515 Lab	71	98.59
		PGICE-3	PCIE-911	4	100
		GEE-3	PCEE-511	71	98.59
		GEE-7	HDEE-711	7	100
	Dr. AK Aggarwal	GIN-5	PEIE-611A	48	100

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			GIN-5	PCIE-611	48	100
			CTD-3	EE-211 Lab	78	100
			CBM-3/CTD-3	EE-211	104	100
		Dr. Raj Kumar	CEN-5	EE-312	36	91.66
			GEI-5	PCIE-612	48	77.08
			CSMM-3	IE-214 Lab	21	100
			GIN-5	PCIE-613 IAB	48	77.08
			GIN-3	PCIE-511	33	72.72
		Er. Sunil Bansal	CEN-5	EE-313 Lab	34	67.56
			CSMM-5	IE-313	37	67.56
			GIN-7	HDIE-711	7	100
			CEN-5	EE-313	36	97.22
			GIN-3	PCIE-515	33	100
		Dr. Barasha Mali	GIN-7	PCIE-712	63	100
			CAC-3/CAF-3	EE-211	35	94.28
			CSMM-5	IE-311 Lab	37	89.47
			CAC 3/CAF-3	EE-211 Lab	35	94.28
			GEB-21/GIN-21	MCUG-501	104	99.03
			GIN-5	PCIE-613 Lab	49	95
		Dr. Jaspreet Singh	CSMM-3	TP-301	37	100
			GEE-3	PCEE-512	71	92.95
			CSMM-1	IE-111	38	92.95
			GIN-5	PCIE-512	33	81.81
			CSMM-3	IE-312	37	91.89
			GIN-3	PCIE-514	33	100
			CSMM-5	IE-312 Lab	37	91.89
		Dr. Rishabh Verma	GEE5	PCEE-612	7	100
			GEE-7	PCEE-714 Lab	65	100
			GEE-7	PCEE-712	66	95
			GEE-7	PCEE-712B	65	100
		Er. Mohit Kumar	CEN-3	EE-311	36	97.22
			CEN-1	EE 216	34	79.41
			CEN-1	EE 216 Lab	34	79.41
			CEN-1	EE 215	34	85.29
		Dr. Mohan Kashyap	CSMM-2	IE-213	21	90.47
			CSMM-3	IE-313	37	75.67
			CSMM-3	IE-313 Lab	37	75.67
			CSMM-3	IE-314	37	75.67
			CSMM-3	IE-314 Lab	37	75.67

		Dr. Jitender Singh Bhadoriya	GEE-7	PCEE-711A	65	100
			CSMM-1	IE-113	38	92.10
			CEN-3	EE-315	36	97.22
			CEN-1	EE-113	40	95
		Er. Nimesh Bhatt	GIN-7	PEIE-711A	63	100
			CEN-3	EE-314	36	100
			CEN-1	EE-214	34	91.17
04	Jan-June 2023	Dr. J.S. Dhillon	PGICE-2	PEIE-821	1	100
			GEE-4	PCEE-521	70	78.57
		Dr. Sanjay Marwaha	PGICE-2	PEIE-821D	1	100
			CEN-4	EE-224 Lab	33	100
		Dr. A.S. Arora	PGICE-2	PCIE-822	1	100
			GIN-6	PCIE-621	48	91.60
		Dr. Surita Maini	GIN-6	PCIE-622	48	87.5
			PGICE-2	PCIE-824	1	100
		Dr. Manpreet Kaur	PGICE-2	PEIE-822D	1	100
			GIN-8	PHIE 721	7	100
			GIN-8	PRIIE 721	63	100
			PGICE-2	PCIE-823 Lab	1	100
			GIN-8	INID-721	24	100
			CSMM-6	IE-325	37	83.78
			PGICE-2	PCIE-825	1	95
		Dr. Pratibha Tyagi	CEN-4	EE-222	33	100
			CEN-4	EE-222 Lab	33	100
			GEE-6	TPID-621	64	100
			GIN-4	PCIE-522	33	90.90
		Er. Rajinder Kaur	On Leave			
		Dr. Diljioder Singh	CEN-2	TP-201	38	100
			GIN-6	MCUG-501	48	100
			GEE-6	MCUG-501	64	100
			GEE-4	PCEE-524 Lab	70	100
		Er. Anshuka Bansal	GEE-6	PEEE-621A	64	98.43
			CEN-4	EE-223 Lab	34	100
			GEE-2	TPIN-421	24	100
			GEE-2	TPIN-422	24	100
			CEN6	EE-326	33	100
		Dr. M. S. Manna	On lien			
		Dr. Charanjiv Gupta	GEE-3	PHEE-721	7	100
			GEE-8	INID-721	20	100

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			GEE-8	PREE-721	65	100
		Dr. A.A. Khan	GIN-4	PCIE-523	33	78.78
			GIN-4	TPIN-421	26	100
			GIN-4	TPIN-422	26	100
			GIN-8	PEIE-722A	39	100
			GIN-6	PCIE-623 Lab	48	100
		Dr. Gurmeet Singh	GEE-4	PCEE-525 Lab	71	100
			CEN-6	EE-327	36	100
			GEE-4	PCEE-522	70	97.14
		Dr. Manmohan Singh	GEE-4	PCEE-523	70	100
			GEE-6	PCEE-622	64	100
			GEE-6	PCEE-623	64	100
		Dr. A.K. Aggarwal	CSMM-2	IE-121	36	100
			CSMM-4	IE-224	20	100
			CSMM-4	IE-224 Lab	20	100
		Dr. Raj Kumar	CSMM-6	IE-324 Lab	37	81.08
			GIN-8	PEIE-721B	39	100
			CSMM-6	IE-324	37	81.08
			GIN-4	PCIE-524	33	100
			CEN-6	EE-321	37	100
		Er. Sunil Bansal	GEE-6	PCEE-621	64	93.75
			GIN-4	PCIE-521	33	87.87
			CSMM-2	IE-222	20	100
			CSMM-2	IE-225	20	95
			GIN-4	PCIE-525 Lab	33	100
		Dr. Harsha Mali	CSMM-4	IE-223	20	95
			CSMM-6	EE-321	37	97.29
			CSMM-6	EE-322	37	91.89
			GIN-6	TPID-621	46	100
			CSMM-6	EE-321 Lab	37	97.29
			CSMM-4	IE-223 Lab	20	95
		Dr. Jaspreet Singh	CSMM-4	IE-221	20	100
			CEN-6	EE-325	36	100
			GIN-6	PCIE-621A	48	100
			CSMM-6	IE-326	36	100
			CEN-6	EE-325 Lab	36	100
			CEN-6	EE-326 Lab	37	100
		Dr. Rishabh Verma	CEN-2	EE-121 Lab	38	100
			GEE-6	HDEE-621	7	100

			GEE-8	PESE-721C	45	100
			GEE-4	TPD-521	70	100
		Dr. Mohit Kumar	CEN-6	EE-322	36	100
			CEN-6	EE-323	36	100
			CEN-4	EE-427	33	100
		Dr. Jitender Singh Bhadoriya	GFE-8	PREE-721B	45	100
			CEN-6	EE-324	36	100
		Dr. Nimesh Bhatt	CSMM-6	IE-323	37	97.29
			CEN-4	EE-225	33	100
			CEN-4	EE-225 Lab	33	100
05	July- Dec 2023	Dr. J.S. Dhillon	GEE-5	PCEE-612	69	86.76
			GEE-5	PCEE-613 Lab	69	100
			PGICE-1	PCIE-812	2	100
		Dr. Sanjay Marwaha	GEE-3	PCEE-513	68	98.52
			PGICE-1	PCIE-811	2	100
			PGICE-1	PCIE-813 Lab	2	100
		Dr. A.S. Arora	GEE-7	PCEE-711	64	78.12
			GEE-7	PCEE-713 Lab	64	100
			GIN-5	PEIE-611A	33	93.94
		Dr. Surita Maini	PGICE-1	PEIE-811D	2	100
			GIN-7	PCIE-711	48	97.92
			GIN-7	PCIE-713 Lab	48	97.92
		Dr. Manpreet Kaur	PGICE-1	PEIE-812D	2	100
			PGICE-1	PCIE-814	2	100
			CEN-5	EE-315	33	100
		Dr. Pratibha Tyagi	GIN-3	PCIE-513	24	100
			GIN-3	PCIE-515 Lab	24	100
			CSMM-1	IE-111	37	97.3
			CSMM-5	IE-311	20	100
		Er. Rajinder Kaur	On Leave			
		Er. Anshuka Bansal	CEN-1	EE-112 Lab	38	100
			CEN-3	EE-213	37	81.08
			CEN-3	EE-213 Lab	37	81.08
			CSMM-5	IE-313	20	100
			GEE-5	PEEE-611C	69	100
		Dr. M.S. Manna	On lien			
		Dr. Charanjiv Gupta	GEE-1	ESEE-401	25	100
			GIN-1	ESEE-401	13	100
			GEC-1	ESEE-401	26	96.15

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	GEE-?	ESEE-402 Lab	25	100
	CSC-1	ESEE-402 Lab	26	96.15
	CTV-?	EE-111	19	89.47
	CSME-1	EE-111	20	75
	-	OEEE-611C	8	100
Dr. Diljinder Singh	GEE-5	PCEE-611	69	100
	CEN-3	EE-214	37	100
	CEN-3	EE-216	37	89.19
	CSMM-3	IE-215	36	97.22
	CWG-3	EE-211 Lab	26	100
	CFF-3	EE-211 Lab	9	100
Dr. A.A. Khan	GCS-1	ESEE-401	63	88.89
	GCS-1	ESEE-402 Lab	63	98.41
	PGICE-3	PEIE-911E	1	100
	CSMM-5	IE-312	20	95
	CSMM-3	IE-214	36	97.22
Dr. Gurmeet Singh	CEN-3	EE-212 (T+L)	37	94.6
	GEE-3	PCEE-514 Lab	68	100
	GEE-7	PEEE-711A	64	98.44
	CFP-3	EE-211	39	100
Dr. Manmohan Singh	GEE-3	PCEE-515 Lab	68	98.52
	GEE-3	PCEE-511	68	98.52
	GEE-7	HDEE-711	7	100
	GIN-7	PEIE-711A	48	100
Dr. A.K. Aggarwal	PG-1	RMAL-811	2	100
	CBM-3	EE-211	22	95.45
	CTD-3	EE-211	14	100
	CSMM-5	IE-315	20	100
Dr. Raj Kumar	CEN-5	EE-512 (T+L)	20	95
	GIN-7	PCIE-712	48	85.42
	CSMM-3	IE-213 (T+L)	36	77.78
Er. Sunil Bansal	CEN-3	EE-216	37	89.19
	CSMM-5	IE-314	20	100
	GIN-5	PCIE-612	33	93.94
	CEN-5	EE-313	33	78.79
	GIN-5	PCIE-613 Lab	33	96.97
Dr. Barasha Mali	CAF-3	EE-211	10	100
	CAC-3	EE-211	9	100

			GIN-5	PCIE-611	33	100
			CEN-5	EE-315 Lab	33	100
			GIN-3	PCIE-511	24	100
			CSMM-3	IE-215	36	97.22
		Dr. Jaspreet Singh	GIN-3	PCIE-512	24	100
			GIN-3	PCIE-514 Lab	24	100
			GEE-3	PCEE-512	68	98.52
			CSMM-3	IE-212 (T+L)	36	94.44
			CEN-3	EE-216	37	89.19
		Dr. Rishabh Verma	GEE-7	PEEE-712B	64	100
			GEE-7	PCEE-712	64	100
			GEE-7	PCEE-714 Lab	64	100
			-	OEEE-612A	10	100
			CDE-3	EE-211 Lab	71	97.18
		Dr. Nimesh Bhatt	CEN-5	EE-311	33	81.82
			GEE-5	PCEE-613 Lab	69	100
			CEN-1/ CSMM-1	EE-113	75	88
			CEN-3	EE-215	37	89.19
		Ruchika Thukral	CSMM-3	IE-211	36	97.22
			CDE-3	EE-211	71	97.18
			CAC-3	EE-211 Lab	9	100
			CFF-3	EE-211	9	100
			CWG-3	EE-211	26	100
		Avinash Kumar	GIN-7	PEIE-712B	48	100
			GIN-7	PCIE-713 Lab	48	100
			CEN-5	EE-314	33	100
			CFP-3	EE-211	34	97
06	Jan-June 2024		PGICE-2	PCIE-825 Lab	2	100
		Dr. J.S. Dhillon	GIN-4	PCIE-521	24	95.8
			GEE-4	PCEE-521	67	97
		Dr. Sanjay Marwaha	GCT-2/ GFT-2	ESEE-401	24	100
			GCT-2/ GFT-2	ESEE-402 Lab	24	100
			PGICE-2	PEIE-821D	2	100
			CEN-4	EE-226	37	89
		Dr. AS Arora	PGICE-2	PCIE-822	2	100
			GIN-6	PCIE-621	33	100
			GIN-6	PCIE-623 Lab	33	100
		Dr. Surita Maini	PGICE-2	PCIE-821	2	100

			GIN-8	PEIE-722B	47	96
			PGICE-2	PCIE-823 Lab	2	100
		Dr. Manpreet Kaur	GIN-6	PEIE-621C	33	94
			PGICE-2	PEIE-822D	2	100
			PGICE-2	PCIE-824 Lab	2	100
		Dr. Pratibha Tyagi	CSMM-2	IE-121	37	89
			GIN-4	PCIE-522	24	96
			CSMM-4	IE-222 Lab	34	100
		Er. Rajinder Kaur	On Leave			
		Dr. Diljinder Singh	GEE-4	PCEE-524 Lab	67	100
			GIN-4	EE-227	37	100
			GEE-8	PEEE-721B	64	100
			GEE-6	PCEE-623 Lab	69	100
		Er. Anshuka Bansal	GIN-6	EE-326	33	91
			GEE-6	PEEE-621A	69	100
			CEN-4	EE-223 Lab	37	97
			CSMM-4	IE-226 Lab	34	100
		Dr. M.S. Manna	On Lien			
		Dr. Charanjiv Gupta	CEN-4	EE-224 Lab	37	100
			CEN-6	EE-323	33	97
			GME-2	ESEE-402 Lab	53	96
			-	OEIE-622E	49	100
		Dr. A.A. Khan	CEN-6	EE-321	33	73
			GIN-6	PCIE-623 Lab	33	100
			PGICE-2	PCIE-823 Lab	2	100
			GIN-4	PCIE-525 Lab	24	100
		Dr. Gurmeet Singh	GEE-4	PCEE-525 Lab	67	100
			CEN-4	EE-226	37	92
			GEE-4	PCEE-522	67	100
		Dr. Manmohan Singh	GEE-6	PCEE-622	69	100
			GEE-4	PCEE-523	67	97
			GEE-6	PCEE-623 Lab	69	100
		Dr. A.K. Aggarwal	CSMM-4	IE-221	34	100
			GIN-4	PCIE-523	24	95.8
			CSMM-4	IE-224 Lab	34	100
		Dr. R.K. Garg	CEN-6	EE-322 (T+L)	33	82
			GIN-4	PCIE-524 Lab	24	95.8
			GIN-8	PEIE-721B	47	91

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		GIN-6	PCIE-622	33	87.9
	Er. Sunil Kumar	CSMM-6	IE-322 (T+L)	20	100
		CSMM-6	IE-323	20	85
		GIN-4	PCIE-525 Lab	24	100
	Dr. Barasha Mali	CSMM-4	IE-223 (T+L)	34	100
		GEE-6	PCEE-621	69	100
		CPT-4	EE-221 (T+L)	18	89
	Dr. Jaspreet Singh	CEN-4	EE-222 (T+L)	37	86
		CSMM-4	IE-224	34	100
		CEN-6	EE-325 Lab	33	97
	Dr. Rishabh Verma	CSMM-6	IE-324 (T+L)	20	100
		CEN-2	EE-121 Lab	35	97
		GEE-8	PEEE-722B	64	100
	Dr. Nimish Bhatt (GF-1)	CSMM-6	IE-323 Lab	20	85
		GME-2	ESEE-401	53	96
		CEN-6	EE-325	33	97
	Mrs. Ruchika Thukral (GF-2)	CSMM-6	IE-321 (T+L)	20	100
		CSMM-4	IE-226	34	100
		CSMM-6	IE-325	20	100
		CEN-2	EE-121 Lab	35	97
	Mr. Avinash Kumar (GF-3)	CEN-6	EE-324 (T+L)	33	97
		CEN-4	EE-225	37	97
		CSMM-4	IE-225	34	100

13. 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. Department has industrial grade pressure calibration facility. 3. Department has in-house developed IoT kits, modernized Automation Lab and Power System Lab, which could cater the needs of adjoining institutes. 4. Computational Lab of the department is well equipped with licensed softwares. 5. Advance instruments for research purpose are available. 6. Department has 07 smart classrooms. 7. High Computational Lab developed for Research Purpose.

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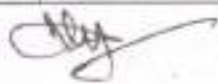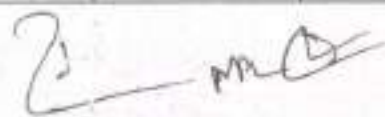|	
	8. Sensor Network and IoT Lab developed for up-to date exposure of students.
Unique features of the department	1. Department has expertise in the diverse fields viz Biomedical Engineering, Industrial Automation, Power System Operation and Reliability, Electrical Machines.
	2. MOU has been signed with Homi Bhabha Cancer Hospital, Sangrur to facilitate the research in the area of cancer detection.
	3. MOU with PGIMER, Chandigarh.
	4. MOU signed with Research for Resurgence Foundation, Nagpur
	5. MOU signed with Sabudh Foundation, Sahibzada Ajit Singh Nagar, Mohali
Shortage in department (if any)	1. Department has a less number of sponsored research projects and consultancy work.
	2. Admission in UG and PG is decreasing.
	3. No. of research scholars is also decreasing.

14. ANNUAL BUDGET OF THE DEPARTMENT (Allocated and Expenditure, in Lacs):
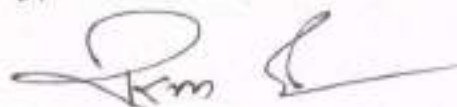
Sub-head	Year-wise budget (in Lacs)		
	2021-22	2022-23	2023-24
Equipment	70.00 (OH-35)	75.00 (OH-35)	50.00 (OH-35)
Consumable	13.50 (OH-31)	13.50 (OH-31)	13.50 (OH-31)
Maintenance			
Tour & Training			
Research & Development			

15. NO. OF SEMINARS/CONFERENCES/SHORT TERM COURSES ATTENDED:

Organized by the Institute	Name of Faculty	2021-2022	2022-2023	2023-2024
	Dr. J. S. Dhillon	NIL	NIL	NIL
	Dr. S. Marwaha	NIL	NIL	NIL
	Dr. A.S. Arora	1	01	01
	Dr. Surita Maini	2	01	01
	Dr. Manpreet Kaur	NIL	NIL	01
	Dr. Pratibha Tyagi	NIL	NIL	01

	Er. Anshuka Bansal	01	NIL	NIL
	Dr. Diljinder Singh	NIL	NIL	NIL
	Dr. M.S. Manna	NIL	NIL	NIL
	Dr. Chiranjiv Gupta	NIL	NIL	01
	Dr. A.A. Khan	NIL	01	NIL
	Dr. Gurmeet Singh	NIL	NIL	NIL
	Dr. Manmohan Singh	NIL	01	NIL
	Dr. A.K. Aggarwal	02	NIL	01
	Dr. Raj Kumar	NIL	NIL	NIL
	Er. Sunil Kumar	NIL	NIL	01
	Dr. Barasha Mali	NIL	NIL	03
	Dr. Jaspreet Singh	NIL	01	01
	Dr. Rishabh Verma	NIL	NIL	01
	Dr. J. S. Dhillon	06	NIL	NIL
	Dr. S. Marwaha	04	NIL	NIL
	Dr. A.S. Arora	01	NIL	02
	Dr. Surita Maini	02	NIL	04
	Dr. Manpreet Kaur	06	NIL	
	Dr. Pratibha Tyagi	04	NIL	NIL
	Er. Anshuka Bansal	NIL	NIL	01
	Dr. Diljinder Singh	01	01	NIL
	Dr. M.S. Manna	NIL	NIL	NIL
	Dr. Chiranjiv Gupta	NIL	NIL	02
	Dr. A.A. Khan	NIL	NIL	NIL
	Dr. Gurmeet Singh	NIL	NIL	NIL
Details of outside the institute	Dr. Manmohan Singh	05	NIL	NIL
	Dr. A.K. Aggarwal	05	NIL	01
	Dr. Raj Kumar	NIL	NIL	NIL
	Er. Sunil Kumar	NIL	NIL	02
	Dr. Barasha Mali	NIL	NIL	01
	Dr. Jaspreet Singh	NIL	02	02
	Dr. Rishabh Verma	01	NIL	NIL

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Workshop/Seminars Conferences/Short Term Courses Organized/ Expert Talk Delivered (2023-24)

1. NPTEL awareness program or SWAYAM course, 15-March 2024 by Prof. Manpreet Kaur.

2. Worlds Engineer Day for Sustainable Development, organized by The Institution of Engineers (India), 04-March 2024 by Prof. Manpreet Kaur.

3. Delivered an Expert Talk on "Electric Vehicle: State of the Art" at Deenbandhu Chhotu Ram University of Science and Technology Murthal, Sonepat on November 3, 2023 by Prof. Sanjay Marwaha.

4. Delivered Expert talk on "Startup Problems and Solutions in EV Sector" at Chandigarh College of Engineering & Technology, Sector-26, Chandigarh on April 12, 2024 by Prof. Sanjay Marwaha.

5. STTP on Green Energy for Sustainable Development from 18-22 March 2024 organized by EIE department SLIET Longowal.

6. Workshop on Communication skills: Reading, Speaking and Listening, organized by ISTE and CSPDC on 28/7/23 by Prof. Manpreet Kaur.

16. RESEARCH PUBLICATIONS IN THE DEPARTMENT:

Publications	2021-22	2022-23	2023-24
SCI/SCIE Journals	29	27	15
Scopus Indexed	05	02	12
Peer reviewed	NIL	NIL	NIL
Indexed conferences	NIL	NIL	NIL
National Conferences	NIL	NIL	NIL
International Conferences	40	10	12
Books Chapters Published	01	05	NIL
Any other	NIL	NIL	NIL

17. STUDENTS PERFORMANCE IN NATIONAL LEVEL COMPETITIVE EXAMS (GATE/NET etc.)

	2021-22	2022-23	2023-24
GATE	02	02	05

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CAT	-	-	-	-
Any other (GRE, SLIET)	-		01	01+02

List of GATE Qualified UG Students -2022 to 2024

S.No.	NAME OF STUDENT	TRADE/REGN NO.	MOBILE NO.	All India Rank	GATE Score/ marks	Registration Number
1.	Abhishek Kakroda	GEE/1940481	9587688642	17079	260	EE22S23023187
2.	Deepankar Jha	GEE/2030652	9123120946	9297	357	EE22S24041242
3.	Shivansu Singh	GEE/1940494	7060896663	2210	494	EE24S85001137
4.	Praveen Kumar					EE24S84010331
5.	Sobin	GIN/19	9060630788	436		

18. DETAILS OF STUDENT ACTIVITIES (last 3 yrs)

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

1. The students have participated in various national level events, like Smart India Hackathon - 2023, TechFest Workshop in collaboration with IIT Bombay (Workshop on "Gripper Bot and Line Follower Bot").

2. Students have attended various workshops organized by other departments/ societies of the institute, like 3D printing and technology, Fundamental of AutoCAD and its Applications.

3. 03 Students have presented a paper in a National Conference on "Advanced & Emerging Materials for Technological Applications (AEMTA-2024)".

4. Various students actively participated in NCC.

5. Arranged workshop on following:

   - IoT for various applications

   - Industrial Automation and PLC

6. Offered 2 weeks and 4 weeks industrial training (last three years) on "IoT" and "PLC in Industrial Automation" for students during summer vacations and help the students to develop their skills in the application of theory to practical knowledge.

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7. Training on 'PLC & Automation' Two weeks (20.11.2023 to 02.12.2023) in the Department of EIE, SLIET, Longowal.
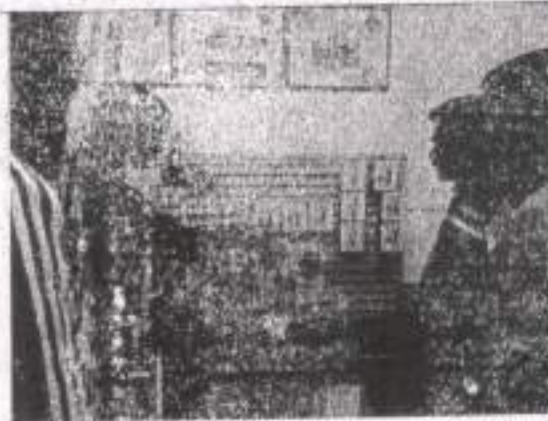
8. Training on 'Internet of Things in Automation' One Week (04.12.2023 to 09.12.2023) Department of EIE, SLIET, Longowal

19.(a) NEW FACILITIES CREATED IN LAST 4 YRS

- 7 numbers of Smart Classrooms.
- Committee Room functional in new EIE block.
- Purchased books for Departmental Library
- High Computational Lab
- Sensor Network and IoT Lab

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

- Dead Weight tester
- High Computational Lab (High Performance Computing PCs).
- New Computational lab

- Sensor Network and IoT Lab (IoT Builder Platform, IoT Learning Training System, IoT Smart Irrigation Kit, IoT for Biomedical Applications, Arduino Startup Kit, Generalized IoT Kit).

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

- Workstations (2 no.)
- IoT Builder Platform
- IoT Learning Training System
- IoT Smart Irrigation Kit
- IoT for Biomedical Applications
- Arduino Startup Kit
- Generalized IoT Kit
- Procurement of thermal cameras
- MP-160 BIOPAC System
- Multi-physiological data acquisition system
- High Power Electronics Workbench

20. REQUIREMENT FOR BETTERMENT

a) The proposal for new M.Tech. branches as per present demand is currently under development.

b) Revision of course curriculum is in process for UG and PG level as per relevant technologies of day-to-day demand of industry.

c) There is a requirement of special budgetary allocation for equipment (labs).

d) Up-gradation and modernization of some existing Labs for providing hands on training to students.

e) MoUs with the industry for training/Project development are needed to help students in their training and placement programs.

f) Recruitment of regular faculty and staff.

21. STRENGTH OF THE DEPARTMENT

a) Well qualified, experienced and dedicated faculty and staff.

b) Significant contribution of faculty at Administrative level of the institute.

c) Good departmental library.

d) High Computational Lab developed for Research Purpose.

e) State-of-the-art laboratories have been established like automation lab; Sensor Network and IoT lab.

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f) The department has ICD, UG, PG and PhD programmes.

g) The department has well equipped laboratories for the students to get hands-on experimentation.

h) The department has adequate smart classrooms equipped with smart board and sound system for online seminar, conferences and classes.

i) SCI publications are increasing every year.

WEAKNESS OF THE DEPARTMENT

   i. Student placement in core companies is less.

   ii. Very few graduation students are opting for higher studies in India.

   iii. Externally funded and consultancy projects are less in number.

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

The faculties of the department have good exposure to the research abroad as Visiting Professor and as Expert. Data of last 3 years is as follows:

Name of Faculty	2021-22		2022-23		2023-24	
	Visiting Country	Purpose	Visiting Country	Purpose	Visiting Country	Purpose
Dr. A. K. Aggarwal	UiTM Campus, Kota Kinabalu, Sabah, Malaysia, Expert for Technology for Agriculture Workshop		NIL		NIL	

23. COLLABORATION (Institute/ National/ International)

Sr. No.	Organization of Collaboration
1.	Asia-Pacific Network, Japan sponsored Collaborative project under its Capacity Development Programme (CAPaBLE)
2	MOU signed with Sabudh Foundation, Sahibzada Ajit Singh Nagar, Mohali
3	MOU with PGIMER, Chandigarh for Bio Medical Instrumentation and device Hub.
4	Two PhD supervision in collaboration with other institute (CSIO, Chandigarh & IIT Delhi)
5	Research Methodology subject taught on institute level by Prof. A.K. Aggarwal for PG Students.

24. 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: Need improvements
- Makeup classes: System is in place on need basis
- Use of ICT in Teaching: Facilities available and in place

25. OUTCOMES
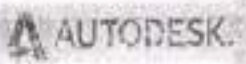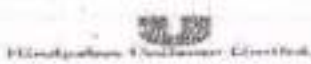
25.1 Our Recruiters

❖ JSW	JSW
❖ KHANNA PAPER MILLS	KHANNA
❖ XENONSTACK	XENONSTACK A Stack Innovator
❖ COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	cognizant
❖ RELIANCE JIO	Jio
❖ RAD TECHPRO SERVICES	RAD
❖ ENDIAVOLVE ONLINE EDUTECH PVT. LTD	
❖ VEDANTA	vedanta transforming elements VEDANTA LIMITED
❖ TCS	tcs TATA CONSULTANCY SERVICES

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❖	VARDHMAN TEXTILE LTD.	
❖	AUTODESK	**A** AUTODESK.
❖	WELSPUN GROUP	**WELSPUN GROUP** Leading Tomorrow Together
❖	HCL	HCL
❖	NEWGEN SOFTWARE COMPANY	NEWGEN
❖	CAPEGEMINI	Capgemini
❖	HINDUSTAN UNILEVER LTD.	Hindustan Unilever Limited
❖	GOLDMANSACHS	Goldman Sachs
❖	MAHINDRA & MAHINDRA LTD.	Mahindra & Mahindra
❖	CINIF TECHNOLOGIES LIMITED	CTL
❖	DHAMPUR SUGAR MILLS LIMITED	dhampur
❖	L&T TECHNOLOGY SERVICES	L&T Technology Services
❖	CHC ASIA CONSULTING, QUARK CITY, MOHALI	CHC A **CONGRUEX** COMPANY

	ALP NISHIKAWA CO. PVT. LTD.	ALP THE ALP GROUP

25.2 Placement & Research data

S. no.	Placement & Research Data	Details
1	Placement of ICD	Mostly Students opt for higher education
	Placement of B. Tech. (GEE & GIN)	2021-22: 08 (GIN) + 22(GEE) = 30 2022-23: 29 (GIN) + 30(GEE) = 59 2023-24: 17 (GIN) + 24(GEE) = 41
	Placement of Masters' Student (last 3 Years)	3
	Placement of Ph.D. Students (last 3 years)	13
2	Average No. of Ph.D.s Awarded per Year	2021: 05 2022: 05 2023: 03 **Average: 4.33**
3	Publications per Faculty in Indexed Journals/Year (Average of last three years)	$130/(20\times3) = 2.16$
4	Average Citations per Faculty/Year (Last-three Years)/ (Web of Science/Scopus)	$4472/(20\times3) = 80.66$

2021-22	2022-23	2023-24
1471	1138	2231

S. no.	Placement & Research Data	Details
5	Recognitions; Awards (National/International) to Faculty/Students	03
6	Consultancy and Externally Funded Projects	0
7	No. of Ph.D. graduates who took Academics as Career (Last 3 Years)	10 (Section 25.4)

25.3 Year-wise Placement %

Year	Placement (%)	
	GEE	**GIN**
2021-22	35.48	21.05

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2022-23	66.67	74.35
2023-24	37.50	39.53

GEE-20

S. No.	Regd No	Student	Company Name	CTC	Higher_Education
1	2040260	ARYAN SINGH	Nenonstack, Mohali Punjab	-	
2	2040269	SWATI KUMARI	PRICCLITE ENERGY Solutions LLP, India	3.00 LPA	
3	2040302	AAYUSH DWIVEDI	Mahindra & Mahindra Ltd.	4.20 LPA	
4	2040304	SAURAV KUMAR	JINDAL SAW LIMITED	4.00 LPA	
5	2040316	PRIYA KUMARI	Indus Tower		
6	2040317	SHUBHAM PURI GOSWAMI	Larsen & Toubro Limited	6.00 LPA	
7	2040321	YOGESH KUMAR GHUSINGA	IOL CHEMICALS & PHARMACEUTICALS LIMITED (IOLCP)	-	
8	2040329	AAKASH SINGH	SICKLE INNOVATIONS PVT LTD, MOHALI	3.00 LPA	
9	2040330	PRAKASH KUMAR	VA TECH WABAG LIMITED	4.00 LPA	
10	2040332	ASHWANI SINGH	Mahindra & Mahindra Ltd.	4.20 LPA	
11	2040358	SHIVAM PORWAL	Karwy Eng. Ltd, Vododara	-	
12	2130257	BHAWANA	Mahindra & Mahindra Ltd.	4.20 LPA	
13	2130259	RISHABH	JINDAL SAW LIMITED	4.00 LPA	
14	2130651	OM RISHI	-	-	Higher Education-M. Tech.Research-IIT Mandi
15	2130652	FRINCE RAJ	SML ISUZU Limited	6.70 LPA	
16	2130653	KANUPRIYA	Hindustan unilever	7.00 LPA	
17	2130654	NISHA SINGH	LEARNING ROUTES PVT. LTD.	5.70 LPA	
18	2130658	BIPUL KUMAR	KUANTUM PAPERS LTD., Hoshiarpur	3.00 LPA	
19	2130660	UTSAV ANAND	SICKLE INNOVATIONS PVT LTD, MOHALI	3.00 LPA	
20	2130661	ASHUTOSH KUMAR	Shree Cement Ltd	4.00 LPA	
21	2130662	ABHISHEK RAJ	BDA Technologies Pvt Ltd, New Delhi	-	

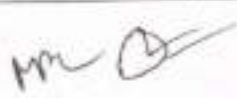| S.No	Regd No	Student Name	Company Name	CTC	Higher Study
22	2130663	HARSHIT BANSAL	JINDAL SAW LIMITED	4.00 LPA	Higher Education--M. Tech.Research--IIT Mandi--M. Tech.Research--Govt--
23	2130670	AKASHDEEP SINGH	IOL CHEMICALS & PHARMACEUTICALS LIMITED (IOLCP)	-	
24	2130672	YOGESH GUPTA	KUANTUM PAPERS LTD., Hoshiarpur	3.00 LPA	
25	2130673	SHIVAM KUMAR	IRM ENERGY LIMITED (A Group of CADILA PHARMACEUTICALS LIMITED).	3.00 LPA	
26	2130679	TANYA RAJ	TRICOLITE ENERGY Solutions LLP, India	3.00 LPA	

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S.No	Regd No	Student Name	Company Name	CTC	Higher Study
1	2040251	VARIKUTI NAGA PAVAN KUMAR	Mahindra & Mahindra Ltd.	4.20 LPA	
2	2040267	ANTIMA KUMARI	JINDAL SAW LIMITED	4.00 LPA	
3	2040272	RAJAN KUMAR SINGH	IOL CHEMICALS & PHARMACEUTICALS LIMITED (IOLCP)	-	
4	2040277	UPENDRA KUMAR	Off Campus Placement--GET--EULER MOTORS PVT LTD--GET----PRIVATE	-	
5	2130208	ABHISHEK KUMAR	Johnson Controls (India) Pvt. Ltd.	5.00 LPA	
6	2130217	AJAY KUMAR	-	-	M.Tech, SLIET Longowal
7	2130601	VIVEK KUMAR THAKUR	KANGARO INDUSTRIES LTD	-	
8	2130604	TANYA	Dhampur Bio Organics Limited	3	
9	2130606	ANUKALP KUMAR	Off Campus Placement--GET--RAVPROZ INDUSTRIAL SERICES PVT--GET----PRIVATE	-	
10	2130607	SHRADHA KUMARI	JINDAL SAW LIMITED	4.00 LPA	
11	2130608	PULKIT PUSHP	Automation industry in dera, Bassi Punjab	-	
12	2130621	UTSAV RAJ	Mahindra & Mahindra Ltd.	4.20 LPA	
13	2130626	ADITYA KUMAR SINGH	Dhampur Bio Organics Limited	3	
14	2130628	ASHUTOSH SAURABH	KESHAV ENCON PVT. LTD (ISPRL Mangalore)	-	
15	2130629	AMIT KUMAR SINGH	Dhampur Bio Organics Limited	3	

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16	2130602	KOMAL KUMARI	Shiva i Engineering Pvt. Ltd.	-	
17	2130612	HARSHIT AGGARWAL	Erec r Instrumentation Pvt. Ltd.	-	
18	2130603	RITU RAJ	Indicon projects	-	

GIN 19, GEE 19, PGICX 21

S.NO	NAME OF THE COMPANY	NAME OF SELECTED STUDENT	TRADE	REGN No.
1	CAPGEMINI	KM. GAGR I KUMARI	GIN	2030240
2	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	SHUJET KUMAR	GEE	1940513
3	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	MD AR WAJ ALAM	C.EE	1940515
4	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	AURAV KUMAR	GEE	1940518
5	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	ASHMI RAJ	GEE	2030662
6	DNYAN AUTOMATION PVT. LTD.	KASIREDDY SRAVANTH	GIN	1940228
7	DNYAN AUTOMATION PVT. LTD.	SUDHANSHU RANJAN	GIN	2030245
8	DNYAN AUTOMATION PVT. LTD.	ASHISH KUMAR	GIN	2030247
9	DNYAN AUTOMATION PVT. LTD.	RUPESH RANJAN	GIN	2030602
10	DNYAN AUTOMATION PVT. LTD.	SONU KUMAR CHOUDHARY	GIN	2030607
11	DNYAN AUTOMATION PVT. LTD.	ANKIT KUMAR	GIN	2030617
12	DNYAN AUTOMATION PVT. LTD.	SANJIT RAI	GIN	2030618
13	DNYAN AUTOMATION PVT. LTD.	AVINASH KUMAR	GIN	2030619
14	DNYAN AUTOMATION PVT. LTD.	AMBER KUMAR	GIN	2030624
15	DNYAN AUTOMATION PVT. LTD.	AJIT KUMAR BHAGAT	GIN	2030631
16	ENDRESS+HAUSER	MINTULLAH	GIN	2030243
17	HCL	CHETAN SINGH	CEE	1940507
18	HCL	MANISH KUMAR	GIN	1940220
19	HCL	PRA UAL RAJ CHOUHAN	GIN	1940224
20	IOL CHEMICALS & PHARMACEUTICALS LIMITED (IOLCP)	ABHISHEK	GIN	2030227
21	IOL CHEMICALS & PHARMACEUTICALS LIMITED (IOLCP)	JATIN KUMAR	GIN	2030241
22	JINDAL SAW LIMITED	PRAVEEN KUMAR	GEE	1940512
23	JINDAL SAW LIMITED	MD FAHIM	GEE	2030653
24	JINDAL SAW LIMITED	SANKHA MAITI	GEE	2030656
25	JSW GROUP	ALOK KUMAR AMAN	GEE	1940099
26	JSW GROUP	ANTARA SINGH	GEE	1940482
27	JSW GROUP	SABAVAT JASWANTH NAIK	GIN	1940215
28	JSW GROUP	ANEK KUMAR	GIN	1940218
29	JSW GROUP	MOHAMMAD MUQUIM HUSSAIN	GIN	1940219
30	JSW GROUP	BRAJESH KUMAR	GIN	1940225
31	JSW GROUP	RAVI SHANKAR	GIN	1940227
32	JSW GROUP	SURYANSH	GIN	1940234

33	KHANNA PAPER MILLS LTD	DILSHAD ANSARI	GIN	1940217
34	KHANNA PAPER MILLS LTD	SUKHWINDER SINGH	GIN	2030228
35	KHANNA PAPER MILLS LTD	AANAND KUMAR	GIN	2030603
36	L&T TECHNOLOGY SERVICES LIMITED	SHIVAM RAJ	GEE	1940516
37	L&T TECHNOLOGY SERVICES LIMITED	SOURABH KUMAR	GEE	2030651
38	L&T TECHNOLOGY SERVICES LIMITED	ASHMI RAJ	GEE	2030662
39	MAHINDRA & MAHINDRA LTD.	SHRADDHA SAGAR	GEE	1940214
40	MAHINDRA & MAHINDRA LTD.	SALONI YADAV	GEE	2030654
41	MAHINDRA & MAHINDRA LTD.	SHALU KUMARI	GEE	2030666
42	MAHINDRA & MAHINDRA LTD.	NEHA KUMARI	GIN	2030605
43	MWIDM IS A WMBE CERTIFIED GLOBAL STAFFING FIRM	MD AYAZ ANWER	GEE	1940501
44	MWIDM IS A WMBE CERTIFIED GLOBAL STAFFING FIRM	AMISHA RAJ	GEE	2030661
45	RAD TECHPRO SERVICES	KUNDAN KUMAR	GEE	1940517
46	RAD TECHPRO SERVICES	ALISH KUMARI	GIN	2030238
47	RAD TECHPRO SERVICES	FALAK MANI	GIN	2030614
48	RELIANCE JIO	MANBENDRA KUMAR	GEE	1940487
49	RELIANCE JIO	ADEEB JAMAL	GEE	1940509
50	RELIANCE JIO	MD ARWAJ ALAM	GEE	1940515
51	TCS	SAURAV KUMAR	GEE	1940518
52	TCS	RAHUL THAKUR	GEE	2030260
53	TORRENTGAS PVT. LTD.	KUSUM KUMARI	GEE	2030663
54	VARDHMAN CAMPUS RECRUITMENT	DEEPANKAR JHA	GEE	2030652
55	VARDHMAN CAMPUS RECRUITMENT	PRINCE	GEE	2030657
56	XENONSTACK	ROHAN RAJ	GEE	1940505
57	XENONSTACK	GIRISH SHANKAR	GEE	2030677
58	HINDUSTAN UNILEVER	PRIYANKA KUMARI	GEE	2030665
59	XENONSTACK	MADHURI DIXIT	GIN	2030244

PGICE Students

1	ENDIAVOLVE ONLINE EDUTECH PVT. LTD	SARVAGYA KARNA	PG/ICE	2150205
2	ENDIAVOLVE ONLINE EDUTECH PVT. LTD	MOHAMMAD SHAMIM	PG/ICE	2150206

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Sr. no.	Admission No	Student	Batch	Company Name	CTC
1	1840104	AJAY GOSWAMI	2018-19	Infosys Limited	6.25 LPA
2	1840108	RISHAV KUMAR	2018-19	IBM	4.25 LPA
3	1840108	RISHAV KUMAR	2018-19	TCS	4.00 LPA
4	1840111	TELGOTE ABHILASH	2018-19	JSW GROUP	8.00 LPA

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Sr. no.	Reg. No.	Student	Batch	Company Name	CTC
		GHANSHYAM			
5	1840111	TELGOTE ABHILASH GHANSHYAM	2018-19	L&T TECHNOLOGY SERVICES LIMITED	4.00 LPA
6	1932001	NEEL PRAKASH	2018-19	WIPRO	4.00 LPA
7	1932001	NEEL PRAKASH	2018-19	HEXAWARE TECHNOLOGIES COMPANY	4.00 LPA
8	1932003	AVINASH RAI	2018-19	WIPRO	4.00 LPA
9	1932007	NANHE KUMAR JHA	2018-19	Khanna Paper Mills Ltd	3.75 LPA
10	1932046	SURBHI KUMARI	2018-19	TCS	4.00 LPA
11	1933574	GAUTAM MISHRA	2018-19	MWIDM is a WMBE Certified Global Staffing firm	4.00 LPA
12	1933575	INSHAL AHMAD	2018-19	WIPRO	4.00 LPA

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Sr. no.	Reg. No.	Student	Batch	CompanyName	CTC
1	1840105	SRISHTI BHARDWAJ	2018-19	Mahindra & Mahindra Ltd.	Stipend @ Rs. 25000/- per month.
2	1840151	RAVI KUMAR JANGID	2018-19	BYJU S	6.00 LPA
3	1840153	AMITKUMAR PATIL	2018-19	L&T TECHNOLOGY SERVICES LIMITED	4.00 LPA
4	1840159	MONU KUMAR	2018-19	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	4.00 LPA
5	1840163	TUSHAR DHIMAN	2013-19	Infosys Limited	3.6.00 LPA
6	1840164	AKASH SINGH	2018-19	L&T TECHNOLOGY SERVICES LIMITED	4.00 LPA
7	1840170	ANKIT KUMAR SHARMA	2018-19	MWIDM is a WMBE Certified Global Staffing firm	4.00 LPA
8	1840176	KSHITIZ	2018-19	Capgemini	4.00 LPA
9	1840176	KSHITIZ	2018-19	LatentView Analytics	
10	1840179	SHIVOTKARSH RAJ	2018-19	Mahindra & Mahindra Ltd.	Stipend â€" Rs. 25000/- per month.
11	1930073	PUSHPA MANI SINGH	2018-19	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	4.00 LPA
12	1932504	SUJIT KUMAR	2018-19	TORRENTGAS PVT. LTD.	
13	1932505	AKRITI KUMARI	2018-19	WIPRO	4.00 LPA
14	1932506	BHAVESH KUMAR JHA	2018-19	Metro Tyres,	

15	1932507	SUMIT KUMAR	2018-19	Metro Tyres,	
16	1932507	SUMIT KUMAR	2018-19	HCL	
17	1932510	AYUSH KUMAR	2018-19	WIPRO	4.00 LPA
18	1932511	AMIT KUMAR	2018-19	TORRENTGAS PVT. LTD.	
19	1932513	ADITYA KUMAR SUMAN	2018-19	Metro Tyres,	
20	1932513	ADITYA KUMAR SUMAN	2018-19	L&T TECHNOLOGY SERVICES LIMITED	4.00 LPA
21	1932516	VIVEK KUMAR	2018-19	MWIDM is a WMBE Certified Global Staffing firm	4.00 LPA
22	1932517	VIMAL KUMAR	2018-19	TORRENTGAS PVT. LTD.	
23	1932521	HARSH SHARMA	2018-19	Mahindra & Mahindra Ltd.	Stipend @ Rs. 25000/- per month.
24	1932522	SHUBHAM SHUKLA	2018-19	JSW GROUP	8.00 LPA
25	1932524	HIMANSHU RAJ	2018-19	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	4.00 LPA
26	1932524	HIMANSHU RAJ	2018-19	TCS	4.00 LPA
27	1932526	SURAJ KUMAR	2018-19	Infosys Limited	3.60 LPA
28	1932533	POOJA	2018-19	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD	4.00 LPA
29	1932534	RITU KUMARI	2018-19		
30	1932535	ANSHUL CHAUDHARY	2018-19	MWIDM is a WMBE Certified Global Staffing firm	4.00 LPA
31	1932536	SHIV SHAKTI PARKASH	2018-19	MWIDM is a WMBE Certified Global Staffing firm	4.00 LPA

25.4 List of Ph.D. Scholars in last 5 years who selected Academics as their profession

S. No.	Name	Reg. No.	Passing Year	Selected Academics as Profession	Working Institute
1.	Sumika	PEI/1806	2023	Yes	Wroclaw University of Science and Technology, Poland
2.	Veenus Kansal	PEI/1702	2023	Yes	IIT, Delhi
3.	Vinay Kumar	PEI/1810	2023	Yes	GL Bajaj, G. Noida
4.	Mohit Kumar	PEI/1501	2021	Yes	NIT, Jalandhar
5.	Rajat Kumar	PEI/1703	2021	Yes	Dayalbagh Educational Institute, Agra
6.	Jaspreet Singh	PEI/1502	2020	Yes	SLIET, Longowal
7.	Paramjeet Singh	PEI/1803	2023	Yes	NIT, Bhopal
8.	Updesh Verma	PEI/1808	2024	Yes	JBIT, Dehradun
9.	Rupam	PEI/1802	2024	Yes	PEC, Chandigarh
10.	Vibhor Kumar	PEI/1801	2021	Yes	Bhagwant Group,

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26. Recommendations of the Committee during Academic Audit on dated 19.12.2023 are as follows:

Sr. No.	Recommendations	Action taken
1.	The committee appreciated the progress made by the Department since the last Academic Audit in terms of establishing State of Art laboratories.	• "IoT Lab" and "*Centre of Training and Research in Automation*" facilities are present to support innovative research and provide our students with the best learning experiences possible.
2.	The committee is of the opinion that more efforts need to be put in fetching the research projects from Government funding agencies.	• Faculty members have done doing industrial training in government funded/private industries to understand the real industrial problems that need solution. (List attached in Annexure-E1) • Faculty members have applied for externally funded projects in Govt. Funding agencies. (List attached in Annexure-E2) • Department is interacting with industries for collaboration/consultancy. • Asia-Pacific Network, Japan sponsored Collaborative project under its Capacity Development Programme (CAPaBLE) involving countries Bangladesh, India, Japan, Malaysia, Indonesia, Viet Nam on Knowledge Sharing and Capacity Building Workshops for Precision Agriculture using UAV techniques in South and Southeast Asia for the year 2021-2023. • Efforts are being made to extend the project with 'Homi Bhabha Cancer Hospital and Research Centre (A Unit of Department of Atomic Energy, Govt. of India)' on Non-Invasive application of Thermal Imaging to Co-relate Clinically Node Positive Head & Neck Cancer for the year 2021-2023.

3.	The committee suggested to consolidate the Departmental Alumni data so that branch perception and Department perception may be improved.	• Social media groups (facebook and Whatsapp) are currently active to have time to time interaction with alumni. • Alumni interaction is arranged during induction program and during the academic session for the student for improving branch perception. • On-campus placed final year student are interacting with the Pre-final Year students in a Mentoring Session organized by the department in May 2023. • More students are taking interest to opt for the 6 months industry internship, and this will help improve the branch perception among stakeholders.
4.	The committee pointed out to increase the hardware based presentation of B.Tech and M.Tech project works.	Following are the number of hardware based projects in the last year (Annexure-B6): • 19 number of Project Stage II (GIN-20) • 12 number of Project Stage II (GEE-20) • 12 number of Project Stage I (GIN-20) • 17 number of Project Stage I (GEE-20)
5.	The committee suggested to carry out the activities related to Personality Development and attitude in Departmental Societies.	• Various activities are organized under Society of Electrical and Instrumentation Technocrats. • Students of Pre-Final year are being motivated to attend and appear in the aptitude/group discussion sessions and tests conducted by the T&P cell. Final Year students are involved in coordinating the events.
6.	The committee suggested to put more effort to establishing Industry Sponsored Centre of Excellence where ICD and UG students can experience industrial exposure.	• Department is planning to establish state-of-art laboratories, like Electric Vehicle and Micro-grid Labs. • Industrial exposure is encouraged in the form of student industrial visit and faculty Industrial training. • More students have opted for industrial internship during their last semester of UG programme.
7.	The flexibility in ICD Programme (choice-based credit system, industry based syllabus as per NEP) may be adhered to increase the employability	• Restructuring of ICD syllabus as per NEP has been done (Annexure-A2).

of Diploma holders.

Achievements of the Department

- ICD restructuring is completed and implemented from July-24 onwards. The Qualification Pack (QP) has been aligned with National Education Policy (NEP).
- High Computational Lab developed for Research Purpose.
- Sensor Network and IoT Lab developed for up-to-date exposure of students.
- UG programmes are NBA accredited during June 2024 up to 30-06-2027.
- Two Patents are granted and three are published.
- The number of publications and citations has increased as compared to previous years.
- Facility of 07 smart classrooms is fully functional.
- The 2 weeks and 4 weeks industrial training program for UG students on "Internet of Things" and "PLC in Industrial Automation" during the summer vacations are organized by the Department which help the students to enhance their practical skills.
- Admissions improved in ICD programme of the department.
- Improved faculty involvement in the institute level duties, like Dean, Associate Deans, Chief Wardens, President & Vice-President IIC, and wardens.
- Four faculty members have presented their research paper in the International Conferences held outside India.

Future Plans

- Department is planning to establish state-of-art laboratories, like Electric Vehicle and Micro-grid Labs.
- PG in *Electronic Instrumentation & Embedded System* and PG in *Control and Automation* is being proposed.
- To revise the COs and POs for ICD and UG Programme.

Date: 11/12/24

Prof. Ravi Kant Mishra, Dean
(A & IR), SLIET, Longowal

Prof. Sanjay Marwaha, EIE,
SLIET, Longowal

Prof. Rajesh Kumar, ME,
SLIET, Longowal

Prof. P.K. Dhiman, M& H,
SLIET, Longowal

Prof. Dilbag Singh, NIT
Jalandhar-External Expert

Prof. Manpreet Kaur
HOD, EIE, SLIET, Longowal-

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