SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL

(Deemed to be University and It Ministry of Education, Govt. of India)

OFFICE OF ELECTRICAL & INSTRUMENTATION ENGG. DEPTT.

REF. NO. EIE/2023/1454

DATED:19.12.2023

From:

HOD (EIE)

To:

Dean (Academics)

Subject:

Academic Audit.

In reference to letter No. Dean(A)/1275 dated 27<sup>th</sup> September 2023, the Academic Audit of this Department for the Academic year 2022-23 has been conducted on 19<sup>th</sup> December 2023. The complete report and recommendations of the committee in original is forwarded please.

Enclosed as above.

Forw arded

Coordinator 10AC.

for record.

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SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL

(DEEMED-TO-BE- UNIVERSITY)

(Established by MHRD, Govt. of India)

DEPTT. OF ELECTRICAL & INSTRUMENTATION ENGINEERING



ACADEMIC AUDIT 2022-23 19.12.2023

# SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY LONGOWAL



# (DEEMED-TO-BE- UNIVERSITY) (Established by MHRD, Govt. of India)

# DEPTT. OF ELECTRICAL & INSTRUMENTATION ENGINEERING

## MINUTES OF MEETING (ACADEMIC AUDIT : 2022-23)

Minutes of Meeting held on 19th December 2023 at 10.00 AM in the office of HOD (EIE) pertaining to Academic Audit 2022-23. The following members have attended the meeting.

- HOD (EIE) 1.
- 2. Dean (P&D)
- Prof. A.S. Arora, Deptt. of EIE 3.
- Prof. Pardeep Gupta, Deptt. of Mech. Engg.
- Dr. Mandeeep Ghai, AsP, Deptt. of M&H 5.
- Prof. Ravinder Aggarwal, Thapar University Patiala 6.

The recommendations of committee is as under.

- The committee appreciated the progress made by the Department since the last > Academic Audit in terms of establishing State of Art laboratories.
- The committee is of the opinion that more efforts need to be put in fetching the research projects from Government funding agencies.
- The committee suggested to consolidate the Departmental Alluminies data so that branch perception and Department perception may be improved.
- The committee pointed out to increase the hardware based presentation of B.Tech and > M.Tech. project works.
- The committee suggested to carry out the activities related to Personality > Development and attitude in Departmental Societies.
- The committee suggested to put more effort to establishing Industry Sponsored Centre of Excellence where ICD and UG students can experience industrial exposure.
- The flexibility in ICD Programme (choice based credit system, industry based syllabus as per NEP) may be adhered to increase the employability of Diploma holders.

The meeting ended with vote of thanks to the chair.

Prof. Surita Maini

HOD (EIE)

Prof. Pardeep Gupta, Deptt. of Mech. Engg.

19/12/23 Prof. Kamlesh Kumari,

Dean (P&D)

Dr. Mandeep Ghai,

Deptt. of M&H

Prof. A. S. Arora. Deptt. of EIE

Prof. Ravinder Aggarwal, Thapar University, Patiala

# SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY ACADEMIC AUDIT (2022 - 2023) PROFORMA OF ASSESSMENT

CELECTOR CERTICAL CONTROL OF CONT

- 1. Name of the Department: Electrical & Instrumentation Engineering
- 2. Reviewer (Name, Designation & Address):

Prof. Ravinder Agarwal, Thapar University, Patiala
Prof. Kamlesh Kumari, Dean P&D, SLIET, Longowal
Prof. A. S. Arora, EIE, SLIET, Longowal
Prof. Pradeep Gupta, ME, SLIET, Longowal
Dr. Mandeep Ghai, M&H, SLIET, Longowal

3. Date of Review: 19-12-2023

#### 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	9	As per NEP 2020 http://eie.sliet.ac.in/scheme-and-syllabi/
2.	Equivalence and Relevance of curriculum at national level	8	8	As per AICTE norms 2020 http://eie.sliet.ac.in/scheme-and-syllabi/
3.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	10	As per AICTE norms SLIET Academic Section   Rules and Regulations

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	UG Program	Score		Remarks
	Total Score (out of 100)	85	85	
10.	Availability of workshop type lab/laboratory for providing hand on training to the students for skill development	10	9	Available. http://eie.sliet.ac.in/laboratories/
9.	Linkage of ICD programs to outcome based vocational education (Industry linkage)	5	6	ICD restructuring in Process. The Qualification Pack (QP) has been identified in alignment with National Education Policy (NEP).
8.	Practical activities, non-academic and totally related to a specific trade for skill development and developing expertise in a particular group of techniques.	9	9	Different activities of clubs and project labs available for students.  Supporting students to make projects their interest and for participating various activities like tech fest.  Workshops for mentoring of students.
7.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	9	9	Class counsellor and Tutor Gurdian Scheme implemented. http://eie.sliet.ac.in/counselling/
6.	Effectiveness of Assisted Learning, Tutorial System for ICD Students/ Seminars (Refer Course File)	8	8	Identification of slow learner and Fast learner and treat them accordingly.  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/
5.	Tour/Training/Industrial visits/Internship opportunities provided during the year	7	0	Conducted every year to various industries.
4.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	9	7	As per AICTE norms SLIET Academic Section   Rules and Regulations

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		Self	Expert		
		assessment	assessr	nent	. Note
1.	Curriculum (Structure, Course Syllabi, Flexibility)	9		9	As per AICTE norms http://eie.sliet.ac.in/scheme-and-syllabi/
2.	Status of study material developed by faculty for students	10	, le	10	Developed and distributed in class and lab. http://eie.sliet.ac.in
3.	Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)	9	17	9	As per AICTE norms SLIET Academic Section   Rules and Regulations
4.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	IU	10	As per AICTE norms SLIET Academic Section   Rules and Regulations
5.	Modern teaching methods in practice other than the conventional methods  E-Assisted Learning  (i) Availability of Library Resources  (ii) Multi-Media Assisted Teaching	8	5	8	Smart classrooms available for ICT based teaching learning. Hard copies and soft copies of books available. Subscription of various Journals (IEEE, IETE, INSA etc.) http://library.sliet.ac.in/journals-magazines/
6.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)  (i) Theory and tutorial (ii) Practical (case studies)	10		10	As per AICTE norms SLIET Academic Section   Rules and Regulations
7.	Faculty–Student Interaction (Whether any slot is fixed for the students to interact with a teacher, after classes/labs	10	10	10	Yes, Class counsellor and Tutor Gurdian Scheme slot is fixed 12.30 pm every Wednesday. http://eie.sliet.ac.in/counselling/
8.	Tour/Training/Industrial visits/Internship opportunities	10		10	Industrial tour organized by Dr. Charanjiv Gupta for final year students of the department. Compulsory 2 weeks and 4 weeks

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				training for UG students and Optional 6 months internship. http://eie.sliet.ac.in/
9.	Effectiveness of Assisted Learning in Tutorial classes/seminars for Students	9	9	Identification of slow learner and Fast learner and treat them accordingly.
	Faculty Mentoring/Faculty Advisor System for Students/Class of Students			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/
				Class counsellor and Tutor Gurdian Scheme implemented. http://eie.sliet.ac.in/counselling/
10	Placement %age/higher studies options (last three years)	7	8	Placement percentage is increasing. http://eie.sliet.ac.in/students-activities/
	Total Score (out of 100)	92	93	
	PG Program (Separate for each program)	Score		Remarks
		Self assessment	Expert assessment	
1.	Curriculum (Structure, Course Syllabi, Flexibility)	9	9	As per AICTE Norms. Also, PG in Electrical Engineering and PG in Biomedical Engineering is being proposed.  http://eie.sliet.ac.in/scheme-and-syllabi/

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2.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	9	9	As per AICTE norms SLIET Academic Section   Rules and Regulations As per AICTE norms
3.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	10	10	SLIET Academic Section   Rules and Regulations
4.	Relevance of contents of courses taught to the students and scope of improvement	9	9	As per AICTE norms and syllabus are updated time to time http://eie.sliet.ac.in/
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	8	9	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/  Plagiarism software Urkund and DrillE
6	Technical Societies/ Colloquium for Students     i. Departmental Society     ii. Student Chapter(s) of Professional Societies	6	8	Different activities of clubs and project labs available for students. IEEE SLIET Chapter available. Society of Electrical and Instrumentation Technocrates available. http://eie.sliet.ac.in/
7	/. Tour/Training/Industrial visits/Internship opportunities	6	8	Industrial visits for research related work.
}	3. Collaboration with other departments (within institute)	7	8	Yes. Faculties co-guide students with other departments. http://eie.sliet.ac.in/research-and-

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9.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	8	9	R&D Monitoring and DRC available http://eie.sliet.ac.in/files/2023/07/Depart ment-Committees-26th-June-2023.pdf
10.	Monitoring and continuous evaluation of the project work assigned to the students (mechanism)	8	9	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/
	Total Score (out of 100)	80	88	

	Doctoral (Ph.D) Programmes	Sco	re	
A.4	Doctoral (Ph.D) Programmes	Self assessment	Expert assessment	
1.	Intake of Ph.D Students	9	8	Intake every year http://eie.sliet.ac.in/research-and- consultancy/
2.	Admission Process	10	10	GATE, SET V https://www.slietexam.co.in/#:~:text=0 andidate%20shall%20log%20on%20t o,is%20a%205%20Step%20process.
3.	Pre-Ph.D Courses and Evaluation Process	8	9	As per institute rules. http://academic.sliet.ac.in/ug-pg- cell/ug-pg-phd-academic-rule/
4.	Breadth and Depth of Knowledge of Students	8	8	
5.	Seminar/ Presentations and Technical Communication	8	8	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/
6.	Research Facilities available in the Department	9	9	Labs and research facilities available

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				http://eie.sliet.ac.in/
7.	Average No. of Research Students/Faculty	8	8	2(aprox.) http://eie.sliet.ac.in/research-and- consultancy/
8.	Average No. of Research Papers of Ph. D Students (Indexed Journals)	8	8	3 (aprox.) http://eie.sliet.ac.in/research-and- consultancy/
9.	Average Duration to Complete Ph.D (years)	8	8	5 years (aprox) http://eie.sliet.ac.in/research-and- consultancy/
10.	Participation of Research Scholars in Conferences/Workshops	8	8	Yes http://eie.sliet.ac.in/research-and- consultancy/
	Total Score (out of 100)	84	84	

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#### B. RESEARCH

		Sc	ore	
		Self	Expert	
	*	assessment	assessment	
1.	Research Ambience in the Department	9	9	Research labs and groups available. http://eie.sliet.ac.in/
	Research Awareness among Doctoral Students	9	9	Guided by the R&D Monitoring and DRC committee of the department at frequent intervals http://eie.sliet.ac.in/
3.	Thrust areas of research in the department	9	9	Research groups available. http://eie.sliet.ac.in/faculty- research-groups/
	Quality of Research	8	8	The number of publications and citations increasing. http://eie.sliet.ac.in/research-publication-2/
4.	Collaborations with other departments (within the institute) and		8	Yes. Faculties co-guide student with other departments. http://eie.sliet.ac.in/research-arconsultancy/
	at National, and International levels.  Impact and Quality of Publications	8	8	The number of publications and citations increasing. http://eie.sliet.ac.in/research-publication-2/
6. 7.	Relevance of Research to Knowledge Generation and Social Relevance	8	8	The number of publications and citations increasing. http://eie.sliet.ac.in/research-publication-2/
	Student Exposure for Attending Quality	8	8	The number of publications an

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	Total Score (out of 100)	85	86	
10.	Industry/externally funded sponsored research (Numbers and amount)	8	9	Few externally funded projects are fetched by the faculties of the department. <a href="http://eie.sliet.ac.in/research-anconsultancy/">http://eie.sliet.ac.in/research-anconsultancy/</a>
9.	Inter departmental collaborations	10	Jo	Yes. Faculties co-guide students with other departments. http://eie.sliet.ac.in/research-and consultancy/
	Conferences/Symposia			citations is increasing. http://eie.sliet.ac.in/research- publication-2/

#### General Comments on,

- Plan of action of the department for the next five years (in view of NEP 2020)
- Significant achievements of the department (faculty/Staff/Students) 2.
- Placement record of the department (Last three years) 3.
- 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.
- Effective/Continuous monitoring of faculty/staff in delivery of the course contents (at departmental level) for enhancing the teaching-learning process.
- Technical Societies/ Colloquium for Students
  - Departmental Society (i)
  - Student Chapter(s) of Professional Societies
- Scope of improvement in the presenting teaching -learning process
- The skill and expertise of the faculty/Technical staff in the department (specific)
- Strengthening laboratory infrastructure (adding of new equipment's and use of present facility for optimum use)
- Any other point 10.

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# C. Departmental Infrastructure

		Sc	ore	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/
2	Availability of Laboratories	9	9	2 new laboratories are setup. http://eie.sliet.ac.in/laboratories/
3	Availability of Conference/Seminar Room, etc	9	9	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/
5	Availability of Internet Services in Research Labs and Class Rooms	10	10	Yes. http://eie.sliet.ac.in/
6	Departmental Library and E-Resources	9	9	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	9	9	Yes. http://eie.sliet.ac.in/
8	Adequacy of Offices and Furnishing for Faculty	9	9	Yes. http://eie.sliet.ac.in/
9	Faculty- Student Ratio	8	8	http://eie.sliet.ac.in/
10	Support Staff (Technical/Administrative) Adequacy	9	9	Yes.

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		h	ttp://eie.sliet.ac.in/faculty-staff/staff/
Total Score (out of 100)	92	91	
Total Score (out or 100)	0.0	10	

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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.
- The department has ICD, UG, PG and PhD programmes for both Electrical Engineering and Instrumentation & Control Engineering.
- 7. The department has well equipped laboratories for the students to get hands-on experimentation.
- 8. MoU signed with industries and industry-collaborated labs are in pipe-line.
- 9. The department has adequate smart classrooms equipped with smart board and sound system for online seminar, conferences and classes.
- 10. SCI publications are increasing every year.

#### Weaknesses:

- 11. Student placement in core companies is not satisfactory.
- 12. Very few graduation students are opting for higher studies in India, whereas more number of students are opting for higher studies in abroad.
- 13. Externally funded and consultancy projects are less in number.

#### Opportunities:

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

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#### Threats:

17. The location of the institute is not much attractive to fetch quality students and convince companies for placement.

#### Suggestions for improvement:

- 1. Industry Collaborated Lab has to be established.
- 2. Idea to Implementation (i2i) Lab has been planned.
- 3. ICD restructuring in Process. The Qualification Pack (QP) has been identified in alignment with National Education Policy (NEP).

)	Outcomes	Sci	ore	Remarks	
		Self assessment	Expert assessment		
	i. Placements for ICD  ii. Placement of B.Tech  iii. Placement of Masters Student  iv. Placement of Ph.D Students	9	9	Placement percentage increased. http://eie.sliet.ac.in	
2	Average No. of Ph.Ds Awarded per Year	7	7	5.33 in the last 3 years. http://eie.sliet.ac.in/research-and- consultancy/	
3	Publications per Faculty in Indexed Journals/Year (Average of last three years)	8	8	2.3 http://eie.sliet.ac.in/research-and- consultancy/	
4	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	8	8	62.98 http://eie.sliet.ac.in/research-and- consultancy/	
5	Recognitions; Awards(National/International) to Faculty/Students	8	8	Few http://eie.sliet.ac.in/research-and-consultancy/	

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	Total Score (out of 100)	80	74	
)	Entrepreneurship	8	6	Few http://eie.sliet.ac.in
	No. of qualified students NET/GATE/CAT etc (State/Central Civil Services)	8	4 4	Few http://eie.sliet.ac.in
	Students offered for higher studies	8	8	Almost all ICD students opt for higher studies. UG and PG students also opt for higher studies. http://eie.sliet.ac.in
	No. of Ph.D. graduates who took Academics as Career (Last 5 Years)	8	8	18 http://eie.sliet.ac.in/research-and- consultancy/
	Consultancy and Externally Funded Projects	8	8	03 in last 3 years http://eie.sliet.ac.in/research-and- consultancy/

### Comments & Suggestions for Improvement

- 1. Industry Collaborated Lab has to be established.
- 2. Idea to Implementation (i2i) Lab has been planned.
- 3. ICD restructuring in Process. The Qualification Pack (QP) has been identified in alignment with National Education Policy (NEP).

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# SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY ACADEMIC AUDIT (2022 - 2023)

#### SUMMARY SHEET

1.	Name of the Department	Electrical and Instrumentation Engineering				
2.	Name of Reviewer	From Academia	From Industry			
Designation & Address	Prof. Ravinder Agarwal, Thapar University, Patiala					
3.	Date of Meeting	19-12-2023				

Score Summary (Self)							
Academic				Research	Departmental	Outcome	Total Score
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)	(Max Score 100)	Infrastructure (Max Score 100)	(Max Score 100)	(700)
85	92	80	84	85	92	80	598

			Score Su	ımmary (Expert)			
Academic			Research	Departmental	Outcome	Total Score	
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)	(Max Score 100)	Infrastructure (Max Score 100)	(Max Score 100)	(700)
85	93	88	84	86	92	74	602

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.

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Name & Signature of HOD

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