



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/2021/1230

DATED: 13.10.2021

From: HOD (EIE)
To: Dean (Academics)
Subject: **Academic Audit.**

In reference to Office Order No. SLIET/Dean(A)/2021/747 dated 5th August 2021 the Academic Audit of this Department for the Academic year 2019-20 has been conducted on 26th August 2021. The report and recommendations of the committee is forwarded please.

Kaur
13/10/21
HOD (EIE)

Enclosed as above.

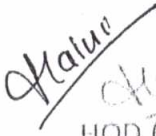
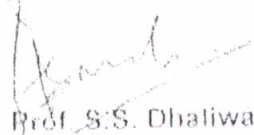
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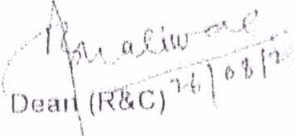
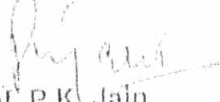
DEPARTMENT OF ELECTRICAL & INSTRUMENTATION ENGINEERING
MINUTES OF MEETING (ACADEMIC AUDIT-2020-21)

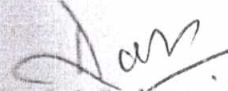
Minutes of Meeting held on 26th August 2021 at 11:30 AM in the office of HOD (EIE) pertaining to Academic Audit 2020-21. Following Faculty members of Department have also attended the meeting


- | | |
|----------------------------|-----------------------------|
| 1. Prof. J.S. Dhillon | 2. Prof. Sanjay Marwaha |
| 3. Prof. Manpreet Kaur | 4. Mr. Diljinder Singh, AsP |
| 5. Ms. Anshuka Bansal, AsP | 6. Dr. A.K. Aggarwal, AsP |
| 7. Mr. Sunil K. Bansal, AP | 8. Ms. Barasha Mali, AP |
| 9. Dr. Jaspreet Singh, AP | 10. Dr. Rishabh Verma, AP |

1. The committee pointed out the declining trend of admission in the department of Electrical and Instrumentation Engineering. However during deliberation it was resolved that although the declining trend of admissions is in all the branches, still the committee suggested that action plan may be chalked out by analyzing the latest trend of technology and incorporate the latest courses in curriculum in consultation with the industry.
2. Regular Webinars/Seminars/Workshops will be organized keeping in view the prospects of placements of the students. To strengthen the placement of students, emphasis will be laid on strengthening the soft skill part of the student, for this activity professional experts will be invited.
3. Committee recommended that Board of Studies (BOS) be conducted regularly with the assistance and active participation of the Core Industry personnel.
4. Special emphasis will be laid on teaching learning process, and latest contents.
5. The committee also suggested that the possibility of industry collaborated courses will also be explored and added.
6. The committee also suggested that more Research Proposals should be initiated, consultancy must be fetched, and significant outcomes of project must be reported.
7. The committee also suggested that there is a need to promote Technologies in Precision Agriculture and encourage the faculty to apply for Research Projects on the above subject and also guide UG, PG and Ph.D. students in this field to strengthen the real-life problems faced by farmers.
8. As development of Laboratory is continuous process and Department must upgrade the Laboratories as well as establish new Laboratories as per the newly introduced courses.


HOD (EIE)
26/08/21

Prof. S.S. Dhaliwal


Deant (R&C)
26/08/21

Prof. P.K. Jain


Prof. A.S. Arora


Prof. Dilbag Singh
NIT Jalandhar

ACADEMIC AUDIT (2020 - 2021)

PROFORMA OF ASSESSMENT

1. Name of the Department : Electrical & Instrumentation Engineering

2. Reviewer (Name, Designation & Address) :

Prof. Dilbag Singh, NIT Jalandhar

Prof. A. S. Dhaliwal, Dean R&C, SLIET, Longowal

Prof. S.S Dhaliwal, SLIET, Longowal

Prof. P.K. Jain, SLIET, Longowal

Prof. Ajat Shatru Arora

3. Date of Review: 26-08-2021

NOTE:

- Please grade in the box provided for the following parameters in the range of 1-10 with 10 being the highest.
- Leave 'blank' for 'No Comment'.
- Kindly give your opinion on the strength and weakness of the Department and your suggestions for future growth.

A. ACADEMICS

A.1	ICD Program	Score	
		Self assessment	Expert assessment
1.	Curriculum (Structure, Course Syllabi, Flexibility), Theory/practical (contents/ratio).	10	10
2.	Equivalence and Relevance of curriculum at national level	8	8
3.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	10
4.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	8	8
5.	Tour/Training/Industrial visits/Internship opportunities provided during the year	8	8
6.	Effectiveness of Assisted Learning, Tutorial System for ICD Students/ Seminars (Refer Course File)	8	8
7.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	10	10
8.	Practical activities, non-academic and totally related to a specific trade for skill development and <i>developing expertise in a particular group of techniques.</i>	8	8
9.	Linkage of ICD programs to outcome based vocational	8	8

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	education (Industry linkage)		
10.	Availability of workshop type lab/laboratory for providing hand on training to the students for skill development	8	8
	Total Score (out of 100)	86	86
	UG Program	Score	
		Self assessment	Expert assessment
1.	Curriculum (Structure, Course Syllabi, Flexibility)	8	8
2.	Status of study material developed by faculty for students	8	8
3.	Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)	8	8
4.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	10
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	8
6.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)		
	(i) Theory and tutorial		
	(ii) Practical (case studies)	9	9
7.	Faculty-Student Interaction (Whether any slot is fixed for the students to interact with a teacher, after classes/labs)	10	10
8.	Tour/Training/Industrial visits/Internship opportunities	9	9
9.	Effectiveness of Assisted Learning in Tutorial classes/seminars for Students	8	8
	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	9	9
10.	Placement %age/higher studies options (last three years)	7	7
	Total Score (out of 100)	84	84
	PG Program (Separate for each program)	Score	
		Self assessment	Expert assessment
1.	Curriculum (Structure, Course Syllabi, Flexibility)	8	8
2.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	9	9

2



	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	9	9
4.	Relevance of contents of courses taught to the students and scope of improvement	9	9
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	8
6.	Technical Societies/ Colloquium for Students i. Departmental Society ii. Student Chapter(s) of Professional Societies	7	7
7.	Tour/Training/Industrial visits/Internship opportunities	7	7
8.	Collaboration with other departments (within institute)	7	7
9.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	8	8
10.	Monitoring and continuous evaluation of the project work assigned to the students (mechanism)	9	9
Total Score (out of 100)		81	81

A.4	Doctoral (Ph.D) Programmes	Score	
		Self assessment	Expert assessment
1.	Intake of Ph.D Students	9	9
2.	Admission Process	10	10
3.	Pre-Ph.D Courses and Evaluation Process	8	8
4.	Breadth and Depth of Knowledge of Students	8	8
5.	Seminar/ Presentations and Technical Communication	8	8
6.	Research Facilities available in the Department	8	8
7.	Average No. of Research Students/Faculty	8	8
8.	Average No. of Research Papers of Ph. D Students (Indexed Journals)	8	8
9.	Average Duration to Complete Ph.D (years)	8	8
10.	Participation of Research Scholars in Conferences/Workshops	8	8
Total Score (out of 100)		83	83

B. RESEARCH

		Score	
		Self assessment	Expert assessment
1	Research Ambience in the Department	8	8
2	Research Awareness among Doctoral Students	9	9
3	Thrust areas of research in the department	8	8
4	Quality of Research	8	8
5	Collaborations with other departments (within the institute) and at National, and International levels.	6	6
6	Impact and Quality of Publications	8	8
7	Relevance of Research to Knowledge Generation and Social Relevance	8	8
8	Student Exposure for Attending Quality Conferences/Symposia	8	8
9	Inter departmental collaborations	6	6
10	Industry/externally funded sponsored research (Numbers and amount)	6	6
Total Score (out of 100)		75	75

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

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C. Departmental Infrastructure

		Score	
		Self assessment	Expert assessment
1	Adequacy of Class Rooms and Multi-Media Facility	8	8
2	Availability of Laboratories	8	8
3	Availability of Conference/Seminar Room, etc	8	8
4	Availability of Seating Space for Faculty and Research Students	10	10
5	Availability of Internet Services in Research Labs and Class Rooms	10	10
6	Departmental Library and E-Resources	9	9
7	Computing Facilities and Software	9	9
8	Adequacy of Offices and Furnishing for Faculty	9	9
9	Faculty- Student Ratio	8	8
10	Support Staff (Technical/Administrative) Adequacy	9	9
Total Score (out of 100)		88	88

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. The department has ICD, UG, PG and PhD programmes for both Electrical Engineering and Instrumentation & Control Engineering.
5. The department has well equipped laboratories for the students to get hands-on experimentation.
6. State-of-the-art laboratories have been established like automation lab; In addition many industry-collaborated labs are in pipe-line.
7. The department has sufficient smart classrooms equipped with smart board and sound system for online seminar, conferences and classes.
8. SCI publications are increasing every year.

Weaknesses:

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

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Chaitani

Rajam

M

Opportunities:

1. The Fee structure and location of the institute can attract the students from weaker section and local people complementing the slogan "Aatam Nirbhar Bharat"
2. 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.
3. Precision agriculture is the new upcoming field to strengthen the agriculture and department has offered subject on this.

Threats:

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

Suggestions for improvement:

1. OBE workshop has been planned
2. Workshop for CO/PO mapping is also planned.
3. To revise the syllabi of UG and PG the BOS is also proposed.
4. Foreign language for students is also proposed for the students.
5. Planning to sign a MOU with MAPUA University, Philippines
6. Going to establish new advanced lab in the department.

D. Outcomes

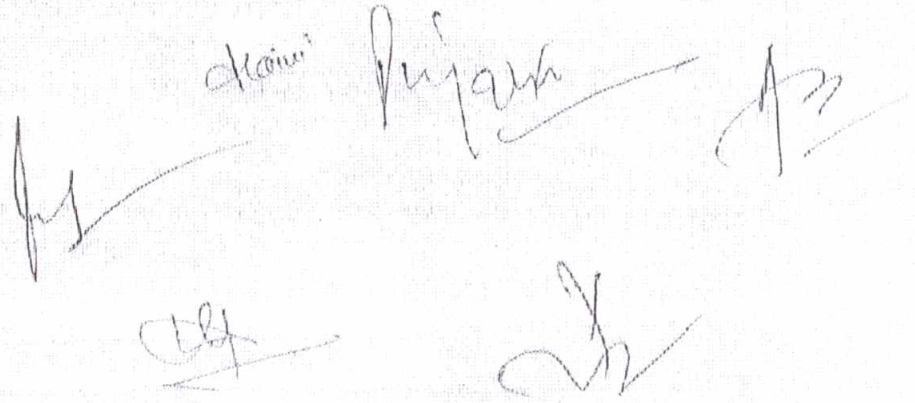
		Score	
		Self assessment	Expert assessment
1	i. Placements for ICD ii. Placement of B.Tech iii. Placement of Masters Student iv. Placement of Ph.D Students	7	7
2	Average No. of Ph.Ds Awarded per Year	8	8
3	Publications per Faculty in Indexed Journals/Year (Average of last three years)	8	8
4	Average Citations per Faculty/Year (Last-Three Years) (Web of Science/Scopus)	8	8
5	Recognitions; Awards(National/International) to Faculty/Students	8	8
6	Consultancy and Externally Funded Projects	8	8
7	No. of Ph.D. graduates who took Academics as Career (Last 5 Years)	8	8
8	Students offered for higher studies	8	8
9	No. of qualified students NET/GATE/CAT etc (State/Central Civil Services)	8	8



10	Entrepreneurship	8	8
	Total Score (out of 100)	79	79

Comments & Suggestions for Improvement

1. OBE workshop has been planned
2. Workshop for CO/PO mapping is also planned.
3. To revise the syllabi of UG and PG the BOS is also proposed.
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5. Planning to sign a MOU with MAPUA University, Philippines
6. Going to establish new advanced lab in the department.


 A collection of handwritten signatures and initials in black ink. At the top, there are several signatures, including one that appears to be 'Pujaw' and another that looks like 'AS'. Below these, there are more initials, some of which are crossed out with a horizontal line.

SANT LONGOWAL
INSTITUTE OF ENGINEERING & TECHNOLOGY
ACADEMIC AUDIT (2020 - 2021)
SUMMARY SHEET

1.	Name of the Department	Electrical and Instrumentation Engineering	
2.	Name of Reviewer Designation & Address	From Academia	From Industry
		Prof. Dillbag Singh, NIT Jalandhar	
3.	Date of Meeting	26-08-2021	

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)				
86	84	81	83	75	88	79	576

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)				
86	84	81	83	75	88	79	576

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

(Signature)

(Prof. Dillbag Singh) (Prof. A. S. Ahluwalia) (Prof. S. S. Ahluwalia) (Prof. P. K. Jaina)

(Prof. A. S. Ahluwalia)