

Academic Audit Report
(2020-2021)



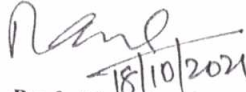
Department of Computer Science and Engineering
Sant Longowal Institute of Engineering & Technology,
Longowal




**Department of Computer Science and Engineering
Sant Longowal Institute of Engineering and Technology**


Recommendation of the committee during the academic audit of the Department of Computer Science and Engineering (CSE), SLIET on dated 24-09-2021 are as follows:


1. Update the study scheme and syllabus of the ICD Programme offered by the CSE department to make it as per requirements of industry.
2. To give more flexibility in the syllabi of ICD, UG, and PG programmes' by:
 - a. Providing content selection flexibility at the course instructors' end.
 - b. Add-on content by faculty.
3. Encourage research in the domains of deep learning, fog computing, IoT, blockchain technology, etc. for UG and PG programmes.
4. Increase frequency of interaction sessions between faculty members and students after the classes.
5. Propose a grading system for PG dissertation instead of the existing acceptance/non-acceptance system.
6. Start/Revive Students' Chapters (ACM students' chapter, CSI students' chapter, etc.). Students' Chapters provide students with various academic and research opportunities.
7. To foster interdisciplinary research among PG and doctoral scholars, bring in faculty from other departments/institutes and other organizations for co-supervision.
8. Increase financial support for research students to attend quality conferences in their areas of research.
9. Encourage faculty members for Government/Industry-funded research projects. These projects will help to enhance the research infrastructure in the department which will, in turn, improve the research ambience of the department.
10. Encourage faculty members to publish quality work and apply for patents.
11. Sign Memorandum of Understanding (MoUs) with other Academic Institutes/Government Departments/Industries to enrich the knowledge base of faculty members and students.
12. Get more Ph.D. research grants from Government Departments/Industries to increase the number of Ph.D. scholars in the department.
13. Procure new high-configuration workstations to help research scholars in their research.
14. Faculty members should attend quality improvement training to broaden their knowledge base.
15. Provide more space for offices and laboratories as per government standards.
16. Cultivate entrepreneurial thinking in students and help students with the infrastructure to start new ventures.

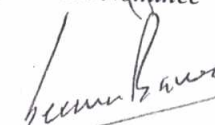

18/10/2021
Prof. Manoj Sachan
(HOD, CSE), Convenor


Prof. A. S. Arora
IQAC Member


Prof. Birmohah Singh
Department Nominee 18/10/21


Prof. A. P. Singh
Professor (ECE)


Prof. Mahesh Arora
Professor (M&H)


Prof. Seema Bawa
Professor, TIET, Patiala
External Member

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY
ACADEMIC AUDIT (2020- 2021)
PROFORMA OF ASSESSMENT

1. Name of the Department : Computer Science and Engineering
2. Reviewer (Name, Designation & Address) :
3. Date of Review: 24/09/2021

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 strength 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	10	
2.	Equivalence and Relevance of curriculum at national level	10	10	Statutory Approvals from AICTE
3.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	10	
4.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	10	10	
5.	Tour/Training/Industrial visits/Internship opportunities provided during the year	7	10	
6.	Effectiveness of Assisted Learning, Tutorial System for ICD Students/ Seminars (Refer Course File)	9	10	
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>	10	10	SSDC Club, IEEE Student Chapter
9.	Linkage of ICD programs to outcome based vocational education (Industry linkage)	10	10	
10.	Availability of workshop type lab/laboratory for providing hand on training to the students for skill development	10	10	List of Laboratories attached as Annexure
Total Score (out of 100)		96	100	



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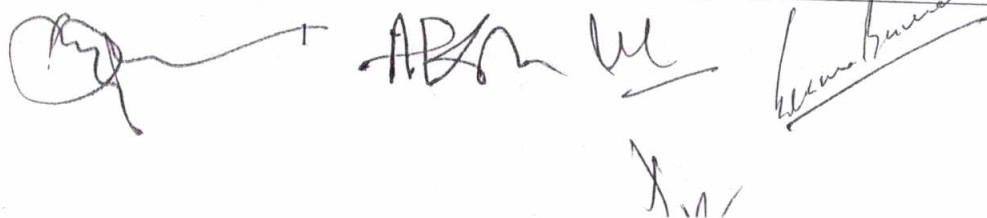
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	PG Program (Separate for each program)	Score		Remarks
		Self assessment	Expert assessment	
1.	Curriculum (Structure, Course Syllabi, Flexibility)	10	10	
2.	Formal Academic Load on Students [Teaching, Laboratory/Practical, Projects(minor/major)]	10	10	
3.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation)	10	10	
4.	Relevance of contents of courses taught to the students and scope of improvement	10	10	Dept. is following the AICTE model curriculum
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	10	Google classroom used as LMS E-resources including e-journals, e-books, search engines are available. Dept has two smart classrooms.
6.	Technical Societies/ Colloquium for Students i. Departmental Society ii. Student Chapter(s) of Professional Societies	10	10	SLIET Software Development Club, IEEE



7.	Tour/Training/Industrial visits/Internship opportunities	8	10	Not compulsory as per the PG curriculum
8.	Collaboration with other departments (within institute)	7	7	Open elective subjects for other departments
9.	Faculty Mentoring/Faculty Advisor System for Students/Class of Students	10	10	Class counsellors, Student Thesis supervisors
10.	Monitoring and continuous evaluation of the project work assigned to the students (mechanism)	10	10	
Total Score (out of 100)		95	97	

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A. ACADEMICS

	UG Program	Score		Remarks
		Self assessment	Expert assessment	
1.	Curriculum (Structure, Course Syllabi, Flexibility)	10	10	
2.	Status of study material developed by faculty for students	10	10	
3.	Relevance of contents of courses taught to the students and scope of improvement (revision of syllabus, addition of new experiments)	10	10	
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	10	10	
6.	Evaluation Process (Continuing Evaluation, and End-Term Evaluation) (i) Theory and tutorial (ii) Practical (case studies)	10	10	

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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	8	10	
9.	Effectiveness of Assisted Learning in Tutorial classes/seminars for Students Faculty Mentoring/Faculty Advisor System for Students/Class of Students	9	9	
10	Placement %age/higher studies options (last three years)	8	10	
	Total Score (out of 100)	95	99	

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2020 - 2021

A.4	Doctoral (Ph.D) Programmes	Score		Remarks
		Self assessment	Expert assessment	
1	Intake of Ph.D Students	10	10	Attached List A4.P1&P7
2	Admission Process	10	10	SET Brochures
3	Pre-Ph.D Courses and Evaluation Process	10	10	SLIET Ph.D. Course Work
4	Breadth and Depth of Knowledge of Students	10	10	SCI Publications
5	Seminar/ Presentations and Technical Communication	10	10	SLIET Ph.D. Rules
6	Research Facilities available in the Department	10	10	HPC Lab.
7	Average No. of Research Students/Faculty	8	8	Attached List A4.P1&P7
8	Average No. of Research Papers of Ph. D Students (Indexed Journals)	10	10	Attached List A4 P8
9	Average Duration to Complete Ph.D (years)	10	10	5 Years
10	Participation of Research Scholars in Conferences/Workshops	7	7	
Total Score (out of 100)		95	95	

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2020 - 2021

B. RESEARCH

		Score		Remarks
		Self assessment	Expert assessment	
1.	Research Ambience in the Department	8	8	
2.	Research Awareness among Doctoral Students	8	8	Attached A4. P8
3.	Thrust areas of research in the department	10	10	Attached B point 3
4.	Quality of Research	10	10	Attached A4. P4
5.	Collaborations with other departments (within the institute) and at National, and International levels.	7	7	Attached B point 5
6.	Impact and Quality of Publications	10	10	Attached B point 6 &7
7.	Relevance of Research to Knowledge Generation and Social Relevance	10	10	Attached B point 6 &7
8.	Student Exposure for Attending Quality Conferences/Symposia	7	7	
9.	Inter departmental collaborations	7	7	Attached B point 5
10.	Industry/externally funded sponsored research (Numbers and amount)	5	5	Attached B point 10 and D6
	Total Score (out of 100)	82	82	

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C. Departmental Infrastructure (Session 2020-2021)

		Score	
		Self assessment	Expert assessment
1	Adequacy of Class Rooms and Multi-Media Facility	10	10
2	Availability of Laboratories	10	10
3	Availability of Conference/Seminar Room, etc	10	10
4	Availability of Seating Space for Faculty and Research Students	8	8
5	Availability of Internet Services in Research Labs and Class Rooms	10	10
6	Departmental Library and E-Resources	10	10
7	Computing Facilities and Software	10	10
8	Adequacy of Offices and Furnishing for Faculty	8	8
9	Faculty- Student Ratio	8	8
10	Support Staff (Technical/Administrative) Adequacy	8	8
	Total	92	92

SWOT analysis by the department

Strengths:

Weaknesses:

Opportunities:

Threats:

Suggestions for improvement:

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SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY


ACADEMIC AUDIT (2020-2021)

SUMMARY SHEET

1.	Name of the Department	Computer Science and Engineering	
2.	Name of Reviewer Designation & Address	From Academia	From Industry
3.	Date of Meeting	24/9/2021	

Score Summary							
ICD Program (Max Score 100)	Academic			Research (Max Score 100)	Departmental Infrastructure (Max Score 100)	Outcome (Max Score 100)	Total Score (700)
	UG Program (Max Score 100)	PG Programs (Max Score 100) (Average of all PG programs)	Doctoral Program (Max Score 100)				
100	99	97	95	82	92	73	638

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.


 18/10/2021
Name & Signature of HOD

