



**THIAGARAJAR COLLEGE OF ENGINEERING
MADURAI**

**STUDENT SATISFACTION SURVEY
2024-25**

STUDENT SATISFACTION SURVEY

As a part of continuous improvement at Thiagarajar College of Engineering, the student satisfaction survey is conducted by the end of every academic year. The voice of the students on the effectiveness of teaching learning process is recorded through the survey. The questionnaire has been designed with specific focus on curriculum, content delivery, assessment and support system/infrastructure. Google form with the link

UG & PG Programmes: <https://forms.gle/ExrwvNaaBqinHpvP8>

have been circulated among all the students. The feedback was collected in anonymous mode. Around 1978 students have participated in the survey. The responses have been carefully analysed and appropriate action plan has been prepared by the academics team of the institute to enhance the quality of Teaching Learning Process.

QUESTIONNAIRE FOR UNDER GRADUATE STUDENT SATISFACTION SURVEY

CURRICULUM

1. The curriculum is well balanced, updated periodically and satisfies the present needs.
 - *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
2. Exposure to industrial practices is provided through industry supported courses/ seminars/ guest lectures/ field visits/ student internships.
 - *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
3. The curriculum facilitates interdisciplinary learning through foundation electives and general electives.
 - *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
4. The curriculum has adequate number of practical courses / theory cum practical courses/ Project works for skill development.
 - *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
5. The Special Interest Groups (SIG) and programme electives have helped you in specialization of your area of interest.
 - *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
6. The implementation of the Choice Based Credit System (CBCS) has enabled you to enroll in the courses and slots you opted for.
 - *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
7. Adoption of Conceive, Design, Implement, Operate (CDIO) framework in TCE undergraduate curriculum has enriched the technical and professional skills.

- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
- 8. CDIO Skill based courses like Engineering Exploration, Lateral Thinking, Design Thinking, Project Management, System Thinking are facilitating participation in international contests / competitions
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
- 9. Audit courses like Environmental Sciences, Constitution of India, Professional Ethics etc., created social awareness
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

CONTENT DELIVERY

- 10. How much of the syllabus was covered in the class?
- *90 to 100%* ▪ *80 to 89%* ▪ *70 to 79%* ▪ *60 to 69%* ▪ *Less than 50%*
- 11. The instructors adopt active and collaborative learning strategies like Think Pair Share, Flipped Classroom, Problem Based Learning etc.,
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
- 12. The instructors use a variety of ICT Tools and Learning Management Systems like Moodle, Canvas, Google Classroom are effectively used for sharing of resource materials, conducting assignments, discussions and quizzes.
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
- 13. Instructors are readily available for clarification of doubts and for personal mentoring.
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
- 14. Laboratories are well equipped with appropriate hardware and software for the conduct of practical classes/project works.
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
- 15. The institute provides support for participation in online certification from NPTEL, Coursera, edX etc.,
- *Regularly* ▪ *Often* ▪ *Sometimes* ▪ *Rarely* ▪ *Never*

ASSESSMENT

16. The assessment process (CAT / Assignments / Terminal Examinations / Review) at TCE is fair and unbiased.

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

17. The tasks given in assignments have helped in enhancing your problem solving and communication skills.

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

18. The assessments are designed and evaluated appropriately to assess higher order thinking skills.

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

19. The assessments provided the right level of challenge and an opportunity for collaborative/co-operative learning.

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

20. Communication, Critical thinking, Collaboration, Creativity are given importance in assessments.

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

SUPPORT SYSTEM/INFRASTRUCTURE

21. The institute takes active interest in promoting internships / student exchange programmes / field visits opportunities for students.

▪ *Regularly* ▪ *Often* ▪ *Sometimes* ▪ *Rarely* ▪ *Never*

22. Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.

▪ *Regularly* ▪ *Often* ▪ *Sometimes* ▪ *Rarely* ▪ *Never*

23. The institute provides opportunities for co-curricular / extra-curricular activities.

▪ *Regularly* ▪ *Often* ▪ *Sometimes* ▪ *Rarely* ▪ *Never*

24. Course enrolments, course feedback, tracking of attendance and grades are made easier with the in-house automation software for the academic process

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

25. In connection with the implementation of Outcome Based Education, Course Outcomes and Programme Outcomes are assessed periodically and subsequent actions are taken for continuous improvement.

▪ *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*

▪

26. A mentoring/tutor system is available to identify your strengths and weaknesses and encourage you with providing the right level of challenges.

- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
27. Classrooms are well equipped with good Audio System/Multimedia Projectors/Digital Boards/Wi-Fi connectivity.
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
28. Library is digitized and includes sufficient count of reference and text books and access to international and national journals
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
29. The support systems like Hostel, Canteen, Bank, Post office, Stores and Clinic are functioning well and they cater to the need of the hour.
- *Strongly Agree* ▪ *Agree* ▪ *Neutral* ▪ *Disagree* ▪ *Strongly Disagree*
30. Record your suggestions for enhancing the quality of Teaching Learning process at TCE.

STUDENTS PARTICIPATION – DEPARTMENT WISE**UG & PG PROGRAMMES**

Department	Count of Responses
Applied Mathematics and Computational Sciences	150
Artificial Intelligence and Machine Learning	55
Civil Engineering	177
Computer Applications	28
Computer Science and Business Systems	184
Computer Science and Engineering	393
Electrical and Electronics Engineering	178
Electronics and Communication Engineering	248
Information Technology	251
Mechanical Engineering	75
Mechatronics	69
T'SEDA	170
Total Responses	1978

ANALYSIS OF RESPONSES**UG & PG PROGRAMMES**

S.No	Questions	Positive Response %
Q1	The curriculum is well balanced, updated periodically and satisfies the present needs.	73.5%
Q2	Exposure to industrial practices is provided through industry supported courses/ seminars/ guest lectures/ field visits/ student internships	63.8%
Q3	The curriculum facilitates interdisciplinary learning through foundation electives and general electives	76.2%
Q4	The curriculum has adequate number of practical courses / theories cum practical courses/ Project works for skill development.	78.3%
Q5	The Special Interest Groups (SIG) and programme electives have helped you in specialization of your area of interest.	87%
Q6	The implementation of the Choice Based Credit System (CBCS) has enabled you to enroll in the courses and slots you opted for.	68.9%
Q7	Adoption of Conceive, Design, Implement, Operate (CDIO) framework in TCE undergraduate curriculum has enriched the technical and professional skills.	65.5%
Q8	CDIO Skill based courses like Engineering Exploration, Lateral Thinking, Design Thinking, Project Management, System Thinking are facilitating participation in international contests / competitions	65.8%
Q9	Audit courses like Environmental Sciences, Constitution of India, Professional Ethics etc., created social awareness	66.8%
Q10	How much of the syllabus was covered in the class?	87.9%
Q11	The instructors adopt active and collaborative learning strategies like Think Pair Share, Flipped Classroom, Problem Based Learning etc.,	68.8%
Q12	The instructors use a variety of ICT Tools and Learning Management Systems like Moodle, Canvas, Google	75.4%

	Classroom are effectively used for sharing of resource materials, conducting assignments, discussions and quizzes	
Q13	Instructors are readily available for clarification of doubts and for personal mentoring.	79.4%
Q14	Laboratories are well equipped with appropriate hardware and software for the conduct of practical classes/project works.	64.2%
Q15	The institute provides support for participation in online certification from NPTEL, Coursera, edX etc.,	94%
Q16	The assessment process (CAT / Assignments / Terminal Examinations / Review) at TCE is fair and unbiased.	72.9%
Q17	The tasks given in assignments have helped in enhancing your problem solving and communication skills.	74.4%
Q18	The assessments are designed and evaluated appropriately to assess higher order thinking skills	71.9%
Q19	The assessments provided the right level of challenge and an opportunity for collaborative/co-operative learning,	73.4%
Q20	Communication, Critical thinking, Collaboration, Creativity are given importance in assessments	70.1%
Q21	The institute takes active interest in promoting internships / student exchange programmes / field visits opportunities for students.	92.5%
Q22	Efforts are made by the institute/ teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work.	92.4%
Q23	The institute provides opportunities for co-curricular / extra- curricular activities	91.7%
Q24	Course enrolments, course feedback, tracking of attendance and grades are made easier with the in-house automation software for the academic process	76.4%
Q25	In connection with the implementation of Outcome Based Education, Course Outcomes and Programme Outcomes are assessed periodically and subsequent actions are taken for continuous improvement	74.2%

Q26	A mentoring/tutor system is available to identify your strengths and weaknesses and encourage you with providing the right level of challenges.	73.1%
Q27	Classrooms are well equipped with good Audio System/Multimedia Projectors/Digital Boards/Wi-Fi connectivity.	55.9%
Q28	Library is digitized and includes sufficient count of reference and text books and access to international and national journals	73.7%
Q29	The support systems like Hostel, Canteen, Bank, Post office, Stores and Clinic are functioning well and they cater to the need of the hour.	34.1%

DETAILED RESPONSES – UG & PG PROGRAMMES

S.No / Likert Scale	Count of Responses					
	4	3	2	1	0	Not Applicable
Q1	481	973	428	71	25	-
Q2	425	837	518	142	56	-
Q3	491	1016	402	50	19	-
Q4	576	973	357	47	25	-
Q5	559	560	702	166	91	-
Q6	513	851	453	101	60	-
Q7	411	885	493	32	15	142
Q8	409	893	475	63	20	118
Q9	455	867	440	73	42	101
Q10	469	817	452	150	90	-
Q11	420	941	469	107	41	-
Q12	518	974	389	67	30	-
Q13	612	959	358	28	21	-
Q14	442	829	509	128	17	-
Q15	790	662	408	83	35	-
Q16	536	905	395	95	47	-
Q17	478	993	229	50	29	-
Q18	462	960	477	51	28	-
Q19	441	1010	449	62	16	-
Q20	427	959	464	93	35	-
Q21	709	677	445	108	39	-
Q22	620	682	526	111	39	-
Q23	733	659	421	116	49	-
Q24	631	881	373	52	38	-
Q25	508	959	459	40	12	-
Q26	554	893	419	79	33	-
Q27	387	718	558	193	122	-
Q28	539	919	438	59	23	-
Q29	414	262	658	502	142	-

DETAILED RESPONSES – QUALITATIVE FEEDBACK (Samples)

Record your suggestions for enhancing the quality of Teaching Learning Process at TCE

Positive Response:



Improvement suggestions:



ACTION TAKEN ON STUDENT SATISFACTION SURVEY

The Student Satisfaction Survey results have been analysed, and specific attention was given to questions that received a percentage score below 70%. Appropriate actions have been taken to address these areas and improve the overall student experience, as detailed below:

Action taken on suggestions:

S.No.	Question and Action Taken	
Q29	The support systems like Hostel, Canteen, Bank, Post office, Stores and Clinic are functioning well and they cater to the need of the hour.	32.6%
	- New water dispensers are to be installed in every floor and existing dispensers are to be serviced periodically - A new common washroom facility is under construction near the canteen to improve convenience and hygiene for students and staff. Washroom facilities in different blocks shall be renovated with modern amenities. - Food quality in hostels shall be enhanced by taking appropriate measures. - Multiple Deputy wardens shall be appointed to look into the requirements of the students and discipline inside the hostel - Mobile applications for room bookings and feedback shall be designed for effective functioning of the hostels - Clinic staff shall be instructed to work along with college timings and to follow suitable medical procedures	
Q27	Classrooms are well equipped with good Audio System/Multimedia Projectors/Digital Boards/Wi-Fi connectivity.	55.9%
	- Wi-Fi connectivity speed shall be improved and necessary action shall be initiated towards the same - Purchase and replacement of malfunctioning equipment shall be done swiftly - Central auditorium is to be renovated with good audio system and expanded seating capacity and functional - New Classrooms are to be constructed with comfortable seating arrangements to accommodate the increase in intake	

Q14	Laboratories are well equipped with appropriate hardware and software for the conduct of practical classes/project works.	64.2%
Purchase of hardware and software shall be initiated in the departments based on the updated syllabus		
Q2	Exposure to industrial practices is provided through industry supported courses/ seminars/ guest lectures/ field visits/ student internships	63.8%
- Centres of Excellence in state-of-the art technologies shall be initiated to improve the industry institute interaction - Programme core courses / electives shall be offered in alliance with industries like Bajaj, TVS especially in the domain of EEE, ECE, Mechanical and Mechatronics - Laboratories shall be set up in the premises in association with industries College level Policies shall be formulated to improve the industry interaction		
Q7	Adoption of Conceive, Design, Implement, Operate (CDIO) framework in TCE undergraduate curriculum has enriched the technical and professional skills.	65.5%
- The offering of the existing Project courses shall be redefined to enhance the CDIO experience by appropriate designing of outcomes and rubrics - Problem statements and associated activities shall be specified to promote the competency of the students in their respective core engineering disciplines in various levels of CDIO - A manual for implementing OBE with CDIO framework shall be designed to guide faculty in this regard		
Q8	CDIO Skill based courses like Engineering Exploration, Lateral Thinking, Design Thinking, Project Management, System Thinking are facilitating participation in international contests / competitions	65.8%
- In-house competitions shall be conducted to demonstrate the outcomes of CDIO courses - High quality projects from every programme shall be shortlisted for extension to Patents and Publications		
Q9	Audit courses like Environmental Sciences, Constitution of India, Professional Ethics etc., created social awareness	66.8%
- Practice activities shall be refined to included practical exposure to UN SDG - Special programmes related to the audit courses shall be conducted to create social awareness		

Q11	The instructors adopt active and collaborative learning strategies like Think Pair Share, Flipped Classroom, Problem Based Learning etc.,	68.8%
	- As the strength of newly joining faculty has increased due to the expansion of intake and new programmes, one day programme on important teaching learning strategies shall be conducted in the orientation programme. - One day programme on AI tools for education shall be initiated for staff and students	
Q6	The implementation of the Choice Based Credit System (CBCS) has enabled you to enrol in the courses and slots you opted for.	68.9%
	More elective courses shall be offered to the students to accommodate the students' requirements	