



**THIAGARAJAR COLLEGE OF ENGINEERING**  
**MADURAI 625015**

**STUDENT SATISFACTION SURVEY**  
**2020-21**

## 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 forms with the links <https://forms.gle/P26aHPpjTxeMKm4X7> (UG) and <https://forms.gle/65SXi229MF3MU1P57> (PG) have been designed and are circulated among all the students. The feedback was collected in anonymous mode. 1896 UG and 169 PG 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 cocurricular / 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 (TCENet Gen3).  
 ▪ *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. To what extent, you are satisfied in the Teaching Learning via online mode during this pandemic period  
 ▪ *Highly Satisfied*      ▪ *Satisfied*      ▪ *Neutral*      ▪ *Dissatisfied*      ▪ *Highly Dissatisfied*
31. Record your suggestions for enhancing the quality of Teaching Learning process at TCE.

## QUESTIONNAIRE FOR POSTGRADUATE 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 has adequate number of practical courses / theory cum practical courses/ Project works for skill development.
  - *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
4. 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*
5. 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*

### CONTENT DELIVERY

6. 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%*
7. 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*
8. 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*
9. Instructors are readily available for clarification of doubts and for personal mentoring.
  - *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
10. Laboratories are well equipped with appropriate hardware and software for the conduct of practical classes/project works.
  - *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
11. The institute provides support for participation in online certification from NPTEL, Coursera, edX etc.,
  - *Regularly*    ▪ *Often*    ▪ *Sometimes*    ▪ *Rarely*    ▪ *Never*

**ASSESSMENT**

12. The assessment process (CAT / Assignments / Terminal Examinations / Review) at TCE is fair and unbiased.
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
13. The tasks given in assignments have helped in enhancing your problem solving and communication skills.
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
14. The assessments are designed and evaluated appropriately to assess higher order thinking skills.
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
15. The assessments provided the right level of challenge and an opportunity for collaborative/co-operative learning.
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
16. Communication, Critical thinking, Collaboration, Creativity are given importance in assessments.
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*

**SUPPORT SYSTEM/INFRASTRUCTURE**

17. The institute takes active interest in promoting internships / student exchange programmes / field visits opportunities for students.
- *Regularly*    ▪ *Often*    ▪ *Sometimes*    ▪ *Rarely*    ▪ *Never*
18. 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*
19. The institute provides opportunities for cocurricular / extra curricular activities.
- *Regularly*    ▪ *Often*    ▪ *Sometimes*    ▪ *Rarely*    ▪ *Never*
20. Course enrollments, course feedback, tracking of attendance and grades are made easier with the in-house automation software for the academic process (TCENet Gen3).
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
21. 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*
22. 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*
23. Classrooms are well equipped with good Audio System/Multimedia Projectors/Digital Boards/Wi-Fi connectivity.
- *Strongly Agree*    ▪ *Agree*    ▪ *Neutral*    ▪ *Disagree*    ▪ *Strongly Disagree*
24. 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*
25. 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*
26. To what extent, you are satisfied in the Teaching Learning via online mode during this pandemic period
- *Highly Satisfied*            ▪ *Satisfied*    ▪ *Neutral*    ▪ *Dissatisfied*    ▪ *Highly Dissatisfied*
27. Record your suggestions for enhancing the quality of Teaching Learning process at TCE.

**STUDENTS PARTICIPATION – DEPARTMENT WISE**  
**UNDERGRADUATE PROGRAMMES**

Department	Count of Responses
Civil Engineering	217
Mechanical Engineering	221
Electrical and Electronics Engineering	262
Electronics and Communication Engineering	321
Computer Science and Engineering	255
Information Technology	264
Mechatronics	132
Architecture	168
Computer Science and Business Systems	56
<b>Total Responses</b>	<b>1896</b>

**POST GRADUATE PROGRAMMES**

Department	Count of Responses
Computer Applications	42
Applied Mathematics and Computational Sciences	66
Civil	18
Electronics and Communication Engineering	5
Computer Science and Engineering	13
Electrical and Electronics	17
Mechanical	1
Architecture	7
<b>Total Responses</b>	<b>169</b>



**ANALYSIS OF RESPONSES**  
**UNDER GRADUATE PROGRAMMES**

<b>S.No</b>	<b>Questions</b>	<b>Average</b>
<b>Q1</b>	The curriculum is well balanced, updated periodically and satisfies the present needs.	<b>3.44</b>
<b>Q2</b>	Exposure to industrial practices is provided through industry supported courses/ seminars/ guest lectures/ field visits/ student internships	<b>3.12</b>
<b>Q3</b>	The curriculum facilitates interdisciplinary learning through foundation electives and general electives	<b>3.56</b>
<b>Q4</b>	The curriculum has adequate number of practical courses / theory cum practical courses/ Project works for skill development.	<b>3.6</b>
<b>Q5</b>	The Special Interest Groups (SIG) and programme electives have helped you in specialization of your area of interest.	<b>3.2</b>
<b>Q6</b>	The implementation of the Choice Based Credit System (CBCS) has enabled you to enroll in the courses and slots you opted for.	<b>3.48</b>
<b>Q7</b>	Adoption of Conceive, Design, Implement, Operate (CDIO) framework in TCE undergraduate curriculum has enriched the technical and professional skills.	<b>3.44</b>
<b>Q8</b>	CDIO Skill based courses like Engineering Exploration, Lateral Thinking, Design Thinking, Project Management, System Thinking are facilitating participation in international contests / competitions	<b>3.4</b>
<b>Q9</b>	Audit courses like Environmental Sciences, Constitution of India, Professional Ethics etc., created social awareness	<b>3.44</b>
<b>Q10</b>	How much of the syllabus was covered in the class?	<b>3.64</b>
<b>Q11</b>	The instructors adopt active and collaborative learning strategies like Think Pair Share, Flipped Classroom, Problem Based Learning etc.,	<b>3.32</b>
<b>Q12</b>	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	<b>3.6</b>
<b>Q13</b>	Instructors are readily available for clarification of doubts and for personal mentoring.	<b>3.6</b>
<b>Q14</b>	Laboratories are well equipped with appropriate hardware and software for the conduct of practical classes/project works.	<b>3.4</b>

<b>Q15</b>	The institute provides support for participation in online certification from NPTEL, Coursera, edX etc.,	<b>3.28</b>
<b>Q16</b>	The assessment process (CAT / Assignments / Terminal Examinations / Review) at TCE is fair and unbiased.	<b>3.44</b>
<b>Q17</b>	The tasks given in assignments have helped in enhancing your problem solving and communication skills.	<b>3.48</b>
<b>Q18</b>	The assessments are designed and evaluated appropriately to assess higher order thinking skills	<b>3.48</b>
<b>Q19</b>	The assessments provided the right level of challenge and an opportunity for collaborative/co-operative learning,	<b>3.44</b>
<b>Q20</b>	Communication, Critical thinking, Collaboration, Creativity are given importance in assessments	<b>3.4</b>
<b>Q21</b>	The institute takes active interest in promoting internships / student exchange programmes / field visits opportunities for students.	<b>2.96</b>
<b>Q22</b>	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.	<b>3.36</b>
<b>Q23</b>	The institute provides opportunities for co-curricular / extra-curricular activities	<b>3.48</b>
<b>Q24</b>	Course enrolments, course feedback, tracking of attendance and grades are made easier with the in-house automation software for the academic process (TCENet Gen3).	<b>3.64</b>
<b>Q25</b>	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	<b>3.52</b>
<b>Q26</b>	A mentoring/tutor system is available to identify your strengths and weaknesses and encourage you with providing the right level of challenges.	<b>3.44</b>
<b>Q27</b>	Classrooms are well equipped with good Audio System/Multimedia Projectors/Digital Boards/Wi-Fi connectivity.	<b>3.12</b>
<b>Q28</b>	Library is digitized and includes sufficient count of reference and text books and access to international and national journals	<b>3.56</b>
<b>Q29</b>	The support systems like Hostel, Canteen, Bank, Post office, Stores and Clinic are functioning well and they cater to the need of the hour.	<b>2.4</b>
<b>Q30</b>	To what extent, you are satisfied in the Teaching Learning via online mode during this pandemic period	<b>3.08</b>

## DETAILED RESPONSES – UNDER GRADUATE PROGRAMMES

S.No / Likert Scale	Count of Responses					Responses (%)				
	4	3	2	1	0	4	3	2	1	0
Q1	390	998	398	81	29	21	53	21	4	2
Q2	323	815	506	187	65	17	43	27	10	3
Q3	445	1042	350	45	14	23	55	18	2	1
Q4	521	1014	285	48	28	27	53	15	3	1
Q5	373	815	524	130	54	20	43	28	7	3
Q6	532	918	336	78	32	28	48	18	4	2
Q7	403	989	426	51	27	21	52	22	3	1
Q8	444	914	399	93	46	23	48	21	5	2
Q9	483	931	361	77	44	25	49	19	4	2
Q10	908	682	228	56	22	48	36	12	3	1
Q11	348	924	485	110	29	18	49	26	6	2
Q12	544	991	303	42	16	29	52	16	2	1
Q13	586	941	317	39	13	31	50	17	2	1
Q14	451	923	400	77	45	24	49	21	4	2
Q15	601	642	505	121	27	32	34	27	6	1
Q16	521	875	362	94	44	27	46	19	5	2
Q17	428	1003	374	64	27	23	53	20	3	1
Q18	400	1030	385	57	24	21	54	20	3	1
Q19	397	973	433	71	22	21	51	23	4	1
Q20	419	946	428	70	33	22	50	23	4	2
Q21	471	560	541	218	106	25	30	29	11	6
Q22	414	902	431	109	40	22	48	23	6	2
Q23	499	918	375	73	31	26	48	20	4	2
Q24	724	863	257	34	18	38	46	14	2	1
Q25	432	1022	382	34	26	23	54	20	2	1
Q26	515	897	366	81	37	27	47	19	4	2
Q27	343	827	464	167	95	18	44	24	9	5
Q28	528	966	345	39	18	28	51	18	2	1
Q29	141	624	548	200	383	7	33	29	11	20
Q30	397	703	572	142	82	21	37	30	7	4

## DETAILED RESPONSES – QUALITATIVE FEEDBACK (Samples)

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

- *Nice*
- *Good*
- *GOOD*
- *none*
- *good*
- *Yes*
- *No comments*
- *Nil*
- *All good*
- *Nothing much*
- *Excellent*
- *It would be better if the final exam is in online mode*
- *T*
- *Nil*
- *Very well*
- *Already good*
- *Offline classes*
- *Everything is alright*
- *Satisfied with this learning process*
- *Online teaching can be improved by making classes much more attentive as most of the staffs are using PDFs to teach which makes it difficult to concentrate.*
- *Need to provide research opportunities as early as possible*
- *Add new subjects and technologies.*
- *We need important question and answer*
- *We need material and model question for offline exam*
- *More interaction between the student and faculty should be facilitated*
- *Including a mini project to be done at the end in some suitable courses will help a lot in learning new things on course of developing the project. During the Capstone design project course I was able to learn many things. More such courses with projects would be helpful to us.*
- *Everything is very supportive*
- *Regular offline classes would be nice*
- *Nothing need to be changed, our college is perfect in teaching learning process let it continues*
- *Working wifi passwords to be given and compulsory courses based on industrial requirements*
- *May introduce student exchange programs which are available on other universities and may more focus on teaching new technology and software instead of teaching old outdated software*
- *Previous cat schedule 50% in cat 1 and 50% in cat 2 and full portion for cat 3 is better in my point of view*
- *No Comments*
- *Conceptualization of topic need to explain clearly particularly*
- *It is good and well advanced that suggestions can barely be given.*
- *Already good.*

**ANALYSIS OF RESPONSES  
POST GRADUATE PROGRAMMES**

<b>S.No</b>	<b>Questions</b>	<b>Average</b>
<b>Q1</b>	The curriculum is well balanced, updated periodically and satisfies the present needs.	<b>3.56</b>
<b>Q2</b>	Exposure to industrial practices is provided through industry supported courses/ seminars/ guest lectures/ field visits/ student internships	<b>3.44</b>
<b>Q3</b>	The curriculum has adequate number of practical courses / theory cum practical courses/ Project works for skill development.	<b>3.56</b>
<b>Q4</b>	The Special Interest Groups (SIG) and programme electives have helped you in specialization of your area of interest.	<b>3.20</b>
<b>Q5</b>	Audit courses like Environmental Sciences, Constitution of India, Professional Ethics etc., created social awareness	<b>3.20</b>
<b>Q6</b>	How much of the syllabus was covered in the class?	<b>3.72</b>
<b>Q7</b>	The instructors adopt active and collaborative learning strategies like Think Pair Share, Flipped Classroom, Problem Based Learning etc.,	<b>3.40</b>
<b>Q8</b>	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	<b>3.20</b>
<b>Q9</b>	Instructors are readily available for clarification of doubts and for personal mentoring.	<b>3.72</b>
<b>Q10</b>	Laboratories are well equipped with appropriate hardware and software for the conduct of practical classes/project works.	<b>3.48</b>
<b>Q11</b>	The institute provides support for participation in online certification from NPTEL, coursera, edX etc.,	<b>3.56</b>
<b>Q12</b>	The assessment process (CAT / Assignments / Terminal Examinations / Review) at TCE is fair and unbiased.	<b>3.60</b>
<b>Q13</b>	The tasks given in assignments have helped in enhancing your problem solving and communication skills.	<b>3.64</b>
<b>Q14</b>	The assessments are designed and evaluated appropriately to assess higher order thinking skills	<b>3.68</b>
<b>Q15</b>	The assessments provided the right level of challenge and an opportunity for collaborative/co-operative learning,	<b>3.64</b>
<b>Q16</b>	Communication, Critical thinking, Collaboration, Creativity are given importance in assessments	<b>3.52</b>
<b>Q17</b>	The institute takes active interest in promoting internships / student exchange programmes / field visits opportunities for students.	<b>3.32</b>
<b>Q18</b>	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.	<b>3.48</b>
<b>Q19</b>	The institute provides opportunities for co-curricular / extra-curricular activities	<b>3.28</b>
<b>Q20</b>	Course enrolments, course feedback, tracking of attendance and grades are made easier with the in-house automation software for the academic process (TCENet Gen3).	<b>3.76</b>

<b>Q21</b>	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	<b>3.64</b>
<b>Q22</b>	A mentoring/tutor system is available to identify your strengths and weaknesses and encourage you with providing the right level of challenges.	<b>3.48</b>
<b>Q23</b>	Classrooms are well equipped with good Audio System/Multimedia Projectors/Digital Boards/Wi-Fi connectivity.	<b>3.04</b>
<b>Q24</b>	Library is digitized and includes sufficient count of reference and text books and access to international and national journals	<b>3.64</b>
<b>Q25</b>	The support systems like Hostel, Canteen, Bank, Post office, Stores and Clinic are functioning well and they cater to the need of the hour.	<b>2.40</b>
<b>Q26</b>	To what extent, you are satisfied in the Teaching Learning via online mode during this pandemic period	<b>3.44</b>

## DETAILED RESPONSES – POST GRADUATE PROGRAMMES

S.No / Likert Scale	Count of Responses					Responses (%)				
	4	3	2	1	0	4	3	2	1	0
Q1	44	87	34	4	0	26	51	20	2	0
Q2	32	89	39	9	0	19	53	23	5	0
Q3	47	85	35	2	0	28	50	21	1	0
Q4	34	71	43	19	2	20	42	25	11	1
Q5	29	85	36	5	14	17	50	21	3	8
Q6	101	47	17	3	1	60	28	10	2	1
Q7	43	77	40	7	2	25	46	24	4	1
Q8	60	87	20	2	630	8	11	3	0	79
Q9	63	84	19	3	0	37	50	11	2	0
Q10	48	77	39	5	0	28	46	23	3	0
Q11	71	62	32	3	1	42	37	19	2	1
Q12	67	69	25	7	1	40	41	15	4	1
Q13	53	86	24	6	0	31	51	14	4	0
Q14	52	90	24	3	0	31	53	14	2	0
Q15	51	88	24	6	0	30	52	14	4	0
Q16	42	86	33	8	0	25	51	20	5	0
Q17	51	63	42	9	4	30	37	25	5	2
Q18	48	77	40	3	1	28	46	24	2	1
Q19	42	72	40	10	5	25	43	24	6	3
Q20	67	83	19	0	0	40	49	11	0	0
Q21	45	94	29	1	0	27	56	17	1	0
Q22	45	82	37	2	3	27	49	22	1	2
Q23	40	59	43	16	11	24	35	25	9	7
Q24	53	85	28	3	0	31	50	17	2	0
Q25	16	55	44	18	36	9	33	26	11	21
Q26	52	74	35	5	3	31	44	21	3	2

## DETAILED RESPONSES – QUALITATIVE FEEDBACK (Samples)

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

- *Its good*
- *It is already good*
- *Everything is good*
- *More industrial visits shall be arranged to get more practical knowledge.*
- *Nil*
- *This seems to be fare and good*
- *guest lectures, field visits are needed and improve college wifi*
- *Can have more practical knowledge teaching*
- *stay same*
- *The teaching is really good....but timings maybe a bit relaxed for lunch for hostel student purpose*
- *No comments*
- *Good enough*
- *Will decrease the class duration...it seems sometime more difficult to concentrate for long hours*
- *We need permanent classrooms for our department. We are sharing the classrooms with IT.*
- *It better to improve the quality of the hostel*
- *Nil.*
- *Staff interaction on overall students are good but understanding their individual talents and enhancing them have to be improvised*
- *Can be improved*
- *Projectors are not functioning in some classrooms and those can be repaired*
- *Everything nice*
- *Providing more assessments will help in increasing the academics score*
- *Ni comments*
- *Everything is good but except hostel facility .*
- *Implement some new techniques*
- *Null*
- *none*
- *No Suggestions*
- *All good*
- *Collaborative learning can be encouraged*
- *The present one is really satisfactory*
- *Good planning*
- *I request COE to provide the time table for terminal theory and practical exams at the earliest(at least 6 weeks before) for every year, every department and also for lateral entry students.*
- *Good*
- *No suggestion*
- *No wifi connectivity*
- *Decrease the syllabus content of every semester and increase the level of more industrial oriented subjects*
- *Can allot a larger time for co curricular activities and involve a lot of studies involving real time case studies*
- *Nil.*
- *For gaining real time practical knowledge, arrange a visit for real time industries.*
- *all is well.*



**ACTION TAKEN FOR IMPROVEMENT OF TEACHING LEARNING PROCESS**

1. Development of digital repository with focus on higher order cognitive skills for first semester courses and selected courses in higher semesters has been initiated
2. Establishment of Smart learning classrooms with interactive digital boards, e-podium, horizontal sliding boards, reconfigurable seating arrangements to promote active and collaborative learning has been initiated
3. Increase in the count of Industry Supported courses offered in the next academic year has been done. The list of courses in Table 1 are planned for the Academic year 2021-22

S.No	Course Code	Course Name	Name of the Industry
1	18CE1L0	Intellectual Property Rights	Alatcit, Chennai
2	18CE1B0	Green Construction	ES Consultancy Services, Madurai
3	18CE1K0	Municipal Wastewater Treatment Plant Design and Practice	L&T, Chennai
4	18CE1J0	Structural Analysis and Design using BIM Software	BIM Channel Partner
5	18CE1D0	Framing of structures and optimum foundation systems	L&T, Chennai
6	18ME2F0	Design of jigs and fixtures	Karun tooling Bangalore
7	18EC1A0	Field Tests For A 5G Future	Elmack Engg. Services
8	18EC1B0	Deep Learning with Tensor flow	BudhiA
9	18EC1E0	VLSI Implementation of Communication Transceivers	Texas Instruments
10	18EC1D0	Speech Signal Processing	Indiaspeaks Technology
11	18EC1F0	Embedded System Design	Texas Instruments
12	18CSIB0	Cyber Security	JDA
13	18CS1H0	Healthcare Automation using Machine Learning	BUDDI HEALTH
14	18CS1D0	Cloud Object Storage	Accenture
15	18CS1F0	Practical Approach to Data Warehousing using Informatica	Wipro Technologies
16	18IT2B0	Penetration Testing Methodologies	Spider Labs, Singapore
17	18IT1D0	Stream Analytics	Bluecross and Blue Shield of Illinois, US
18	18IT1C0	API Development and Deployment	Zebra Technologies, Bengaluru
19	18MT2A0	Design for Environmental Compatibility	Trane Tech, Bengaluru

4. Collaboration with edX has been made to promote online learning.
5. Financial support for completion of NPTEL courses has been extended to faculty members who have scored elite Grade
6. Development of TCE Online Courses to promote interdisciplinary learning and skill development has been planned. Design of eleven courses on futuristic technologies like Blockchain, Data Science, Industrial Automation and core courses like Theory of Computation and Discrete Time Signal Processing are in progress
7. Training for Faculty members in using ICT tools and Pedagogy has been planned.
8. Process of assessment of COs, POs and PSOs has been automated in TCENETGen3.
9. Tutor ward system has been strengthened and automation of all the processes related to mentoring has been planned.
10. Course on Research practice has been introduced to promote research culture among undergraduate students.