

TCE UG Curriculum - Information Technology - Alumni Survey 2023 batch

Dear Alumni,

Greetings.

Hope you are doing good.

Being a prominent stakeholder of TCE academic process, we would like to get your valuable feedback on the impact of the existing curriculum in enhancing your technical knowledge, personal and interpersonal skills. Kindly spend few minutes to suggest suitable refinements in curriculum design to reflect the current demand such that we will try to incorporate in our Curriculum.

Thanks, and regards!
HOD IT Department

* Indicates required question

1. Email ID *

2. Name *

3. Current Designation *

4. Organization currently working in *

5. The existing curriculum matches with the emerging domain trends *

Mark only one oval.

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

6. Suggest few courses/topics that could be added to the existing curriculum to address the industrial needs *

7. Suggest few courses/topics that could be removed from the existing curriculum *

8. Suggest few programming languages/software framework/ hardware equipment /modern tools that can be included in the new curriculum *

9. Suggest few courses that can be offered to improve personal and interpersonal skills *

Impact of existing curriculum

Impact of any curriculum is measured with the attainment of Program Outcomes (PO). POs are statements about the knowledge, skills and attitudes (attributes) the graduate of a formal engineering program should have. We request you to rate yourself in the given Program Outcomes.

Programme Outcome (PO1) – Engineering knowledge.

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

10. I am able to contribute significantly in providing a technical solution for complex engineering problems *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

11. I am able to apply the principles of mathematics and science in my projects *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome (PO2) – Problem analysis

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

12. I am able to formulate an engineering problem for the societal/industrial needs *
and provide solutions with my problem solving skills

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

13. I am able to analyze and evaluate the assumptions used to solve the problem *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome (PO3) – Design/development of solutions

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

14. I am able to develop and use prototypes to solve the complex engineering problems *

Mark only one oval.

- Strongly Agree
 Agree
 Neutral
 Disagree
 Strongly Disagree

15. I am able to find appropriate optimization techniques and synthesize the final design *

Mark only one oval.

- Strongly Agree
 Agree
 Neutral
 Disagree
 Strongly Disagree

Programme Outcome (PO4) – Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

16. I am able to collect and interpret customer needs for a given project. *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

17. I am able to analyze the trade-offs between alternative design approaches and select the one that is best for your project. *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome(PO5) – Modern tool usage

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations

18. I am able to identify and use appropriate engineering tools and techniques to execute a given task *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

19. I am able to analyze the limitations of various engineering tools and choose the best to accomplish a task *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome (PO6) – The engineer and society

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

20. I am able to identify the interactions that an engineering project has with the economic, social, health, safety, legal, and cultural aspects of society, *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome (PO7) – Environment and sustainability

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

21. I am able to analyze impact of the professional engineering solutions in societal *
and environmental contexts

Mark only one oval.

- Strongly Agree
 Agree
 Neutral
 Disagree
 Strongly Disagree

Programme Outcome (PO8) – Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

22. I am aware of ethical principles and professional practices related to my *
domain

Mark only one oval.

- Strongly Agree
 Agree
 Neutral
 Disagree
 Strongly Disagree

23. I am able to analyze opposing positions on an issue and make a judgment *
based on the evidence

Mark only one oval.

- Strongly Agree
 Agree
 Neutral
 Disagree
 Strongly Disagree

Programme Outcome(PO9) – Individual and team work

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

24. I am able to analyze the strengths and weaknesses of my team and provide support wherever required *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome : (PO10) – Communication

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

25. I am confident in delivering a clear and organized formal presentation to a group of professionals and make effective documentation *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome (PO11) – Project management and finance

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

26. I am able to apply project cost management principles to ensure that a project is completed within budget. *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

Programme Outcome (PO12) –Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

27. I am comfortable in learning new technologies and update myself to the growing needs *

Mark only one oval.

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

A big thanks for your time and effort to give this valuable inputs.

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