



**An analysis of Objectives, Outcomes and SWOT – Exit Students’ Perspective for
 the B Tech Programme in Production Engineering**

From time to time, Department of Production Engineering, Govt. Engineering College Thrissur evaluates the attainment levels of the Programme Educational Objectives (PEO), Programme Outcomes (PO) and Programme Specific Outcomes (PSO) of the B Tech Programme and analyzes the Strength/Weakness/Opportunities/Threats (SWOT) of the programme. The PEO, PO, and PSO set are given in Part A and a SWOT matrix is given in Part B. You are requested to go through each of the PEO, PO and PSOs and indicate your responses in Part A and the SWOT as identified by you in Part B. As a student of the programme, you would be in a position to judge the B Tech Degree programme in Production Engineering on how far the objectives / outcomes are attained.

Details of Respondent

Name of the student _____
 Year of Pass out _____
 Year of Admission _____
 Date of Response _____

Part A : Attainment of PEO and PO and PSO		
Fill up the boxes against each statement by giving your opinion as H High level of attainment M Medium level of attainment L Low level of attainment		
No.	PROGRAM EDUCATIONAL OBJECTIVES (PEOs) <i>(Judge at what level the following was attained in your employees case)</i>	Attainment Level H/M/L
1	Production Engineering Programme instils sound engineering knowledge and problem solving skills among the students.	
2	Production Engineering Programme inspires students to pursue advanced degree and other courses in engineering and management	
3	Production Engineering Programme moulds students into good engineering professionals who can find roles in industry.	
4	Production Engineering Programme orients students towards developing socially relevant products and services	
No.	PROGRAMME OUTCOMES <i>(Judge at what level the following was attained in your employees case)</i>	Attainment Level H/M/L
1	Engineering Knowledge : Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	
2	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.	
3	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	
4	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.	
5	Modern tool usage : Create, select, and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.	
6	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	
7	Environmental 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.	

8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	
9	Individual and Team work: Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.	
10	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 presentation, and give and receive clear instruction	
11	Project management and finance: Demonstrate knowledge and undertaking of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects in multi-disciplinary environments	
12	Life-long learning: Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	
No.	PROGRAMME SPECIFIC OUTCOMES <i>(Judge at what level the following was attained in your employees case)</i>	Attainment Level H/M/L
1	Production Engineering Programme provides a clear understanding of the Production systems and their management	
2	Production Engineering Programme instils the ability to understand, model and solve problems related to manufacturing areas	
Part B : SWOT Analysis		
List the major strengths of the programme (list out those internal factors and positive advantages which are originating from the programme or inherent to the programme and are helpful in achieving the objectives/outcomes; PEO/ PO/PSO)		
List the major weakness of the programme (list out those internal factors and negative disadvantages which are originating from the programme or inherent to the programme and detract and harmful in achieving the objectives/outcomes; PEO/ PO/PSO)		
List the major opportunities of the programme (list out those external positive attractive factors which are originating from the environment or outside institution and are helpful in achieving the objectives/outcomes; PEO/ PO/PSO)		
List the major threats of the programme (list out those external negative detrimental or disadvantages originating from the environment or outside institution and detract and harmful achieving the objectives/outcomes; PEO/ PO/PSO)		

Signature of the student

We thankfully appreciate your willingness to associate with our evaluation process.

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