Production Engineering Department
Government Engineering College Trichur
Thrissur – 9 www.gectct.ac.in

PROGRAM EXIT SURVEY

An analysis of 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 Outcomes (PO) and Programme Specific Outcomes (PSO) of the B Tech Programme and analyzes the Strength/Weakness/Opportunities/Threats (SWOT) of the programme. The 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 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 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 **5 Excellent 2 Satisfactory** **4 Very Good 1 Poor** **3 Good 0 Not achieved**		
No.	**PROGRAMME OUTCOMES** ***(Judge at what level the following was attained in your employees case)***	**Attainment Level 0 to 5**
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** ***(Judge at what level the following was attained in your employees case)***	**Attainment Level 0 to 3**
1	**Problem solving in manufacturing** : Ability to apply knowledge in design and analysis of products and processes.	
2	**Production system management** : Ability to design and improve production systems.	

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; 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; 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; 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; PO/PSO)

Signature of the respondent

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

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