

GUJARAT TECHNOLOGICAL UNIVERSITY
M.E. Mechanical (Industrial Engineering)
Semester: II

Subject: Value Engineering and Analysis (Interdisciplinary Elective – II)
Code: 1724607

Sr. No.	Topic	Hours
1	Introduction: An Overview of Value Engineering (VE) - Definition, Concepts and Approaches of Value Analysis and Engineering, Evolution of VE.	03
2	Function Evaluation: Different types of functions, Evaluation of function by different methods, , Steps of problem setting system, Problem solving system, Setting and solving management –decision- type problems, Setting and solving service problems.	07
3	Phases of Value Engineering and Result Accelerators: Application of different phases of VE	10
4	VE Technique: Function Analysis System Technique (FAST), Creating and Using FAST diagram.	10
5	Organization for VE: Forming VE team, Coordination and working of VE team, Essential qualifications and training for VE team, Effect of value analysis on other work in the business.	09
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Term Work:

The term work shall be based on the topics mentioned above.

Practical / Viva:

The candidate shall be examined on the basis of term-work.

Text Books:

1. Value Engineering Theory, Parker, D.E., Sundaram Publishers,
2. Techniques of Value Engineering and Analysis, Miles, L.D., McGraw Hill Book Co.
3. Compendium on Value Engineering, Tuftly Herald, G., The Indo American Society.