

VII Semester B.E. (Mechanical)

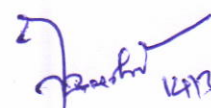
Subject code	Subject	University Exam / College Assessment	Marks				Paper durations-Hrs	Lecture-Hrs	Tutorials-Hrs	Pract/Drg-Hrs
			Theory		Practical					
			Maximum	Passing	Maximum	Passing				
7ME1	PRODUCTION TECHNOLOGY II	Univ	80	40	-	-	3	3	1	-
		College	20		-					
7ME2	ELECTIVE 1	Univ	80	40	-	-	3	3	1	-
		College	20		-					
7ME3	ELECTIVE II	Univ	80	40	25	25	3	3	1	2
		College	20		25					
7ME4	ENERGY CONVERSION II	Univ	80	40	25	25	3	3	1	2
		College	20		25					
7ME5	MACHINE DESIGN III	Univ	80	40	25	25	3	3	1	2
		College	20		25					
7ME6	PROJECT SEMINAR	College	-	-	50	25	-	-	-	3
Total			500		200			15	5	9

Dr. M. M. ...
 12/5/18
 (M. M. ...)

VIII Semester B.E. (Mechanical)

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			Theory		Practical					
			Maximum	Passing	Maximum	Passing				
8ME1	INDUSTRIAL MANAGEMENT	Univ	80	40	-	-	3	3	1	-
		College	20		-					
8ME2	ELECTIVE III	Univ	80	40	-	-	3	3	1	-
8ME3	AUTOMATION IN PRODUCTION	College	20		-					
		Univ	80	40	25	25	3	3	1	2
8ME4	ENERGY CONVERSION III	College	20		25					
		Univ	80	40	25	25	3	3	1	2
8ME5	COMPUTER AIDED DESIGN	College	20		25					
		Univ	80	40	25	25	3	3	1	2
8ME6	PROJECT	College			75	75	-	-	-	6
		Univ			-	-				
Total			500		300			15	5	12

*Subject pertaining to Applied Science & Humanities BOS** Subject pertaining to Metallurgy BOS
 # Subject pertaining to Electronics BOS


 (Dr. M. Basavaraj)

UNIT I

Work Study : Productivity –Concept and objectives of productivity, Types of productivity, factors affecting productivity, Tools and techniques to improve productivity, Measurement of productivity, Work study and methods study : Definitions, objectives, steps in method study, process charts, string diagram, motion study, micro motion study, SIMO Chart

[9 Hrs.]

UNIT II

Work measurement : Objectives, definition, stop watch study, work sampling, PMTs, MTM & Work factor method
Ergonomics : Objectives, Human factors in Engg., Man machine system, Display design, design controls, Principles of motion economy, work place design.

[9 Hrs.]

UNIT III

Plant layout : Objectives, Principle, Types of plant layout, Material handling, Objectives Principles and selection of material handling equipments, Unit load concept, material flow pattern.

[6 Hrs]

UNIT IV

Forecasting : Need for forecasting, classification of forecasting methods, like judgmental technique, time series analysis, least square method, moving average method, exponential smoothing method.

[7 Hrs.]

UNIT V

Production planning and control : Definition, objectives of PPC, functions of PPC, types of production
 Value analysis and value Engineering: Introduction, steps involved in value analysis, Applications in Manufacturing

[7 Hrs.]

UNIT VI

Maintenance: Objectives, Types of maintenance, preventive, predictive, break down maintenance Reliability and maintainability analysis Failure data analysis, reliability, MTBT, MTTR, Batch tub curve, series parallel and stand by system

[7 Hrs.]

RECOMMENDED BOOKS

1. Work study by ILO
2. Motion and Time study by Barnes
3. Ergonomics – Murell
4. PPC - Jain & Agrawal
5. Industrial Engg. and Project management by Mart and Telsang
6. Reliability Engg. By Balguruswami
7. Plant layout and Material Handling by James Apple.