

## ME701T: INDUSTRIAL ENGINEERING (Theory)

### Course Outcome:

After the completion of Course, Students will be able to.....

		<b>Blooms Level</b>	<b>PO</b>
<b>ME701T.1</b>	<i>Relate</i> the concept of productivity, work study and method study.	Level 2	PO 1
<b>ME701T.2</b>	<i>Define</i> the objectives of work measurement and <i>explain</i> and <i>Identify</i> the parameters affecting work place design.	Level 1,2,3	PO 1, 2
<b>ME701T.3</b>	<i>Explain</i> the need of forecasting and <i>classify</i> the forecasting methods	Level 2	PO 1, 4
<b>ME701T.4</b>	<i>Classify</i> the types of maintenance and <i>explain</i> the concept of reliability	Level 2,4	PO 2
<b>ME701T.5</b>	<i>Define</i> Quality Control , <i>Classify</i> types of sampling plans and <i>explain</i> the concepts of quality control	Level 1,2	PO 2
<b>ME701T.6</b>	<i>Explain</i> the Statical Quality control and <i>Define</i> the approaches to quality management.	Level 2	PO 1, 4

**Name and Sign of Course Teacher**

## ME702T3: ELECTIVE-I:AUTO.ENGG (Theory)

### Course Outcome:

After the completion of Course, Students will be able to.....

		Blooms Level	PO
ME702T.1	<b>Summarize</b> the fundamentals of automobile engineering.	Level 2	PO 1
ME702T.2	<b>Identify</b> the different parts of the automobile	Level 3	PO 1, 2
ME702T.3	<b>Explain</b> the working of various parts like engine, transmission, clutch, brakes	Level 2	PO 1, 4
ME702T.4	<b>Demonstrate</b> how the steering and the suspension systems operate	Level 2	PO 2
ME702T.5	<b>Illustrate</b> the environmental implications of automobile emissions	Level 2	PO 2
ME702T.6	<b>Develop</b> a strong base for understanding future developments in the automobile industry	Level 3	PO 1, 4

Name and Sign of Course Teacher

## **BEME703P: COMPUTER AIDED DESIGN (Practical)**

### **Course Outcome:**

**After the completion of Course, Students will be able to.....**

		<b>Blooms Level</b>	<b>PO</b>
<b>ME703P.1</b>	<b>Choose</b> the software and hardware required for computer graphics.	Level 2	PO 1
<b>ME703P.2</b>	<b>Develop</b> algorithms & the c-programs to generate the line and circle	Level 3	PO 3
<b>ME703P.3</b>	<b>Create</b> 2-D and 3-D geometrical entity by modelling software.	Level 6	PO 5
<b>ME703P.4</b>	<b>Analyze</b> the various structures like trusses, beams and frames & Perform static & thermal, modal analysis by analysis software.	Level 4	PO 2,5

**Name and Sign of Course Teacher**

## BEME703T: COMPUTER AIDED DESIGN (Theory)

### Course Outcome:

After the completion of Course, Students will be able to.....

		<b>Blooms Level</b>	<b>PO</b>
<b>ME703T.1</b>	<i>Illustrate the basic concept of computer aided design and computer graphics.</i>	Level 2	PO 1
<b>ME703T.2</b>	<i>Develop the programs to generate the line and circle as well as to realize the importance of 2-D transformation to manipulate a geometrical entity.</i>	Level 3	PO 3
<b>ME703T.3</b>	<i>Evaluate the concept of 3-D transformation and various techniques of modelling</i>	Level 5	PO 2, 3
<b>ME703T.4</b>	<i>Classify the basic concept and applications of FEM to analyze the 1-D bar and 2-D trusses.</i>	Level 2	PO 1, 2
<b>ME703T.5</b>	<i>Analyse the structure by CST elements and to understand the various optimization techniques.</i>	Level 4	PO 4

**Name and Sign of Course Teacher**

## ME704P: Energy Conversion II (Practical)

### Course Outcome:

After the completion of Course, Students will be able to.....

		Blooms Level	PO
ME704P.1	<i>Analyze</i> the performance of air compressors	Level 4	PO 4
ME704P.2	<i>Demonstrate</i> the function of elements of I.C. engine and <i>Analyze</i> the performance of I.C. engines	Level 2,4	PO 3, 4
ME704P.3	<i>Analyze</i> the performance of vapor compression system	Level 4	PO 3,4

**Name and Sign of Course Teacher**

## ME704T: Energy Conversion II (Theory)

### Course Outcome:

After the completion of Course, Students will be able to.....

		<b>Blooms Level</b>	<b>PO</b>
<b>ME704T.1</b>	<i>Explain</i> the working of various types of compressor and <i>Analyze</i> the performance of same	Level 2,4	PO 1,2
<b>ME704T.2</b>	<i>Explain</i> the working of internal combustion engine	Level 2	PO 2
<b>ME704T.3</b>	<i>Analyze</i> the performance of I.C. engine and the parameters affecting efficiency of I.C. engine	Level 4	PO 2,3
<b>ME704T.4</b>	<i>Explain</i> the working of refrigeration and air conditioning system	Level 2	PO 2
<b>ME704T.5</b>	<i>Analyze</i> the performance of refrigeration system and <i>Compare</i> the properties and processes affecting human comfort	Level 4	PO 2,3

**Name and Sign of Course Teacher**

## ME705T: DESIGN OF MECHANICAL DRIVES ( Theory )

### Course Outcome:

After the completion of course, Students will be able to.....

		Blooms Level	PO
ME705T.1	Recognize and <b>identify</b> the need for a redesign or new design.	Level 3	PO 1
ME705T.2	<b>Assess</b> the static requirements in machine-design problems.	Level 5	PO 2,3
ME705T.3	<b>Define</b> and calculate the factor of safety according to static failure criteria.	Level 1	PO 1, 3
ME705T.4	<b>Select</b> mechanical drives according to requirements.	Level 3	PO 2,5

Name and Sign of Course Teacher

## ME706P: PROJECT SEMINAR (Practical)

### Course Outcome:

After the completion of final project, Students will be able to.....

		Blooms Level	PO
<b>ME706P.1</b>	<i>Identify</i> a topic in different areas of Mechanical Engineering related society/ industry need and <i>choose</i> appropriate modern techniques to solve the same.	Level 1,3,5	PO 1, 2, 5, 10
<b>ME706P.2</b>	<i>Summarize</i> literature for survey, to <i>identify</i> gaps and <i>define</i> objectives & scope of the work.	Level 1,2,4	PO 2,3,4, 11

Name and Sign of Course Teacher