

BEME601T: ENERGY CONVERSION- I (Theory)

Course Outcome:

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

		Blooms Level	PO
BEME601T	Explain the working of boiler.	Level 2	PO 1,2
BEME601T	<i>Explain</i> the working and <i>Analyze</i> the performance of Draught, chimney and generators.	Level 2,4	PO 1
BEME601T	<i>Explain</i> the performance of Fluidized bed boiler and Cogeneration	Level 2	PO 1
BEME601T	<i>Explain</i> the working and <i>Analyze</i> the performance of Steam nozzles and Steam turbines	Level 2,4	PO 2 &3
BEME601T	<i>Explain</i> the working and <i>Analyze</i> the performance of Steam condensers and Cooling towers	Level 2,4	PO 2 &3

Dr. Shailesh N. Kheklae

Name and Sign of Course Teacher

ME602T: Control System Engineering (Theory)

Course Outcome:

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

		Blooms Level	PO
ME602T.1	Determine basic foundation course in control system engineering.	Level 5	PO 1
ME602T.2	Demonstrate control systems, to understand the concepts of Mathematical modeling and Transfer function of engineering systems.	Level 2	PO 1, 2
ME602T.3	Analyze time domain analysis of engineering system	Level 4	PO 1
ME602T.4	Identify various methods to find stability of the system	Level 3	PO 2
ME602T.5	Analyze frequency domain analysis of engineering system.	Level 4	PO 1
ME602T.6	Identify Controllability and Observability.	Level 3	PO 1

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ME603T: OPERATIONS RESEARCH (Theory)

Course Outcome:

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

		Blooms Level	PO
ME603T.1	<i>Define</i> the basics of operations research and <i>explain</i> linear programming problem approach.	Level 1, 2	PO 1
ME603T.2	<i>Analyze</i> transportation model and the approaches for optimal solution. They will be able to solve the assignment, Traveling salesman problems.	Level 4	PO 1, 2
ME603T.3	<i>Analyze</i> strategies used in games and the method to find optimal solution <i>Classify</i> Inventory model.	Level 2,4	PO 1, 4
ME603T.4	<i>Explain</i> the network models of project management into their projects and <i>Solve</i> CPM and PERT problems	Level 2,6	PO 2
ME603T.5	<i>Explain</i> Replacement model and how the replacement of items to be done and at what period..	Level 2	PO 2
ME603T.6	<i>Illustrate</i> about the queing theory and simulation and will understand how to analyse the waiting time in various systems.	Level 2,3	PO 1, 4

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ME604 P: Mechatronics (Practical)

Course Outcome:

By the end of the Course, Students Shall be able to.....

		Blooms Level	PO
ME604 P.1	<i>Identify the solid state electronic devices.</i>	Level 3	PO 1
ME604 P.2	<i>Identify & demonstrate the different sensors</i>	Level 3,2	PO 2,4
ME604 P.3	<i>Identify & demonstrate the different actuators</i>	Level 3,2	PO 2,4
ME604 P.4	<i>Demonstrate the working of various digital to analog and analog to digital converters</i>	Level 2	PO 4
ME604 P.5	<i>Develop a programming using PLC for different application .</i>	Level 3	PO 3
ME604 P.6	<i>Illustrate & Demonstrate the working of electro pneumatic systems and electro hydraulic systems.</i>	Level 2	PO 3,4

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ME604 T: Mechatronics (Theory)

Course Outcome:

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

		Blooms Level	PO
ME604 T.1	Define and Illustrate key elements of mechatronics systems	Level 1, 2	PO 1
ME604 T.2	Identify various inputs and output devices in an automated system,	Level 3	PO 1, 2
ME604 T.3	Classify and draw ladder diagrams, to understand interfacing of input and output devices,	Level 2	PO 1, 4
ME604 T.4	Interpret about actuating systems, microprocessors & microcontroller.	Level 2	PO 2
ME604 T.5	Analyze the working of mechatronics systems	Level 4	PO 2
ME604 T.6	Apply the insight to build the mechatronics systems.	Level 3	PO 1, 4

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ME605P: Dynamics of Machines (Practical)

Course Outcome:

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

		Blooms Level	PO
ME605P.1	<i>Explain</i> about Dynamics of Machines and the gyroscope, its principle of working, and compare the theoretical and practical values.	Level 2	PO 1
ME605P.2	<i>Explain</i> jump-off phenomenon of cams.	Level 2	PO 1
ME605P.3	<i>Explain</i> how to do to static and dynamic balancing in rotating.	Level 2	PO 1, 4
ME605P.4	<i>Classify</i> the types of governor and <i>explain</i> the concept of flywheel	Level 2,4	PO 2
ME605P.5	<i>Classify</i> the concept of vibrations and whirling of shafts.	Level 2	PO 2

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ME605T: Dynamics of Machines (Theory)

Course Outcome:

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

		Blooms Level	PO
ME605T.1	Relate about Dynamics of Machines and the gyroscope and its principle of working.	Level 2	PO 1
ME605T.2	Apply the various dynamic forces in the mechanism and machines and explain jump-off phenomenon of cams.	Level 3	PO 1, 2
ME605T.3	Explain how to do to static and dynamic balancing in rotating and reciprocating mechanisms	Level 2	PO 1, 4
ME605T.4	Classify the types of governor and explain the concept of flywheel	Level 2,4	PO 2
ME605T.5	Conclude the concept of vibrations and how it is analyzed in machines	Level 5	PO 2
ME605T.6	Illustrate the torsional vibrations and vibration measuring instruments.	Level 2	PO 1, 4

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**BEME606T: FUNCTIONAL ENGLISH
(THEORY)**

Course Outcome:

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

		Blooms Level	PO
BEME606T.1	<i>Develop</i> some confidence to <i>solve</i> competitive examinations.	Level 3,6	PO 1
BEME606T.2	<i>Apply</i> the knowledge of vocabulary in their communication.	Level 3	PO 2
BEME606T.3	<i>Organize</i> their thoughts in English and hence face job interviews more confidently.	Level 3	PO 3
BEME606T.4	<i>Apply</i> language skills required to construct their Reviews/ Projects/ Reports.	Level 3	PO 4

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BEME607P: COMPUTER APPLICATIONS –II (Practical)

Course Outcome:

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

		Blooms Level	PO
BEME607P.1	<i>Explain</i> the concepts, application and the basic levels of DBMS	Level 2	PO 1
BEME607P.2	<i>Construct</i> a query of database using DDL/DML commands.	Level 3	PO 1,2,3
BEME607P.3	<i>Apply</i> different clauses set operators, functions, joins on created database.	Level 3	PO 3
BEME607P.4	<i>Create</i> and manipulate various database objects using views.	Level 6	PO 3
BEME607P.5	<i>Develop</i> and handle Databases and associated applications.	Level 6	PO1,2,3

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BEME608P: Industrial Case Study

Course Outcome:

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

		Blooms Level	PO
<u>BEME608P.1</u>	Illustrate the actual working environment including rules, regulations and safety practices.	Level 2	PO 1
<u>BEME608P.2</u>	Develop competence and interpersonal relationship.	Level 3	PO 1, 2
<u>BEME608P.3</u>	Develop a report based on the experiences and projects carried out demonstrating the ability to apply knowledge of Mathematics, Science, and Engineering Fundamentals.	Level 3	PO 1, 3
<u>BEME608P.4</u>	Effectively demonstrate skills in communication, in writing and using multimedia tools.	Level 2	PO 1, 2

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