

ETE401T: Applied Mathematics IV (Theory)

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

		Blooms Level	PO
ETC301T.1	<i>Apply</i> numerical methods to obtain approximate solutions to mathematical problems.	Level 3	PO 1,2
ETC301T.2	<i>Find</i> Solutions of Difference Equations with Constant Coefficients using z-transform	Level 1	PO 1, 2
ETC301T.3	<i>Simplify the series solution of differential equation by different methods</i>	Level 4	PO 1, 2
ETC301T.4	<i>Determine probability distribution and density function</i>	Level 5	PO 1,2
ETC301T.5	<i>Define moment generating function and measures of central tendency</i>	Level 1	PO1, 2
ETC301T.6	<i>classify different probability distribution function</i>	Level 2	PO 1, 2

Name and Sign of Course Teacher

ETE402T: POWER DEVICES AND MACHINES (Theory)

❖ Course Outcome:

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

		Blooms Level	PO
ETE402T.1	Define and elaborate basics of different components used in Power Electronics.	Level 1, 6	PO 1
ETE402T.2	Understand the working and characteristics of different power devices and utilize them in Electronic circuits.	Level 3	PO 1, 2
ETE402T.3	Illustrate the concept of AC-DC converters, Choppers, Inverters which are widely used in industries.	Level 2	PO 1, 3
ETE402T.4	Explain the different AC/DC machines and their speed control methods.	Level 2	PO 1, 2

Name and Sign of Course Teacher

**ETE402P: POWER DEVICES AND MACHINES
(Practical)**

❖ **Course Outcome:**

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

		Blooms Level	PO
ETE402P	Illustrate the working and nature of characteristics of different power components used in Power Devices.	Level 2	PO 1, 2
ETE402P	Evaluate performance parameters for different devices.	Level 5	PO 2
ETE402P	Perform different tests for Transformers and motors for calculating the losses, efficiency, regulation etc.	Level 4	PO 3, 4

Name and Sign of Course Teacher

BEECE403T: ELECTROMAGNETIC FIELDS (Theory)

❖ Course Outcome:

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

		Blooms Level	PO
BEECE403T	Interpret the concepts of Electric, Magnetic and Electromagnetic fields required to understand the concepts of Electronic Communication.	Level 2	PO 1
BEECE403T	Illustrate the different coordinate system for mathematical analysis of Electromagnetic Engineering to solve the problems	Level 2,3	PO 1, 2
BEECE403T	Explain the different theorems and utilize them in Electromagnetic field.	Level 2,3	PO 1, 3
BEECE403T	Interpret the concept of basic wave propagation in different mediums.	Level 2	PO 2
BEECE403T	Illustrate the use of waveguides for the transmission of electromagnetic waves at higher frequencies	Level 2	PO 2
BEECE403T	Demonstrate the basic concepts of Radiation and Analyze Elements used for radiation along with the basic terminologies	Level 2,4	PO 1, 2,4

Name and Sign of Course Teacher

ETE404T : DIGITAL CIRCUITS AND FUNDAMENTAL OF MICROPROCESSOR (Theory)

❖ Course Outcome:

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

		Blooms Level	PO
ETE404T.1	Analyze, design, and evaluate digital circuits of medium complexity, that are based on SSIs, MSIs, and programmable logic devices.	Level 1, 2	PO 2
ETE404T.2	Apply the use of memories and their application in computer systems.	Level 1	PO 1
ETE404T.3	Make use of the number systems and arithmetic in digital circuits.	Level 3	PO 1, 4
ETE404T.4	Design combination logic circuits using Boolean algebra.	Level 3,6	PO 2
ETE404T.5	Analyze and describe the function of different types of counters and registers.	Level 4	PO 2
ETE404T.6	Interpret different combination logic circuits which may be used in various digital systems.	Level 2	PO 1, 4

Name and Sign of Course Teacher

**ETE404: DIGITAL CIRCUITS AND FUNDAMENTAL OF
MICROPROCESSOR
(Practical)**

❖ **Course Outcome:**

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

		Blooms Level	PO
ETE404P.1	Illustrate the fundamental of basic gates and their use in combinational and sequential circuits.	Level 2	PO 1
ETE404P.2	Interpret the use of digital components as a switching elements.	Level 2	PO 2,4
ETE404P.3	Develop and test basic arithmetic and logical circuits required in microcomputer systems.	Level 3,6	PO 2,4

Name and Sign of Course Teacher

ETE405T : SIGNALS AND SYSTEMS (Theory)

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

		Blooms Level	PO
ETE405T.1	Have Knowledge and understand about the fundamentals of continuous time and discrete time signals and systems both in time and frequency domains	Level 2	PO 1
ETE405T.2	Use linear systems tools, especially transform analysis and convolution, to analyze and predict the behavior of linear systems.	Level 4	PO 1, 2
ETE405T.3	Gain an appreciation for the importance of linear systems analysis in analog filter designing, communications, feedback control systems..	Level 4	PO 1, 4
ETE405T.4	Understand different coding schemes and able to apply selective coding scheme for the application needed	Level 2	PO 2
ETE405T.5	Understand the different analog and digital modulation schemes	Level 2	PO 2
ETE405T.6	Solve fourier series and fourier transform for feature extraction of different electronic signals	Level 3	PO 1, 4

Name and Sign of Course Teacher

ETE406T Environmental Engineering-I(Practical)

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

		Blooms Level	PO
ETE406T.1	Understand the natural environment and its relationships with human activities.	Level 2	PO 4
ETE406T.2	Illustrate and analyze human impacts on the environment.	Level 2,4	PO 1, 2
ETE406T.3	Relate facts, concepts, and methods from multiple disciplines and apply to environmental problems.	Level 2,3	PO 4,1
ETE406T.4	Adapting practical skills for scientific problem-solving, including familiarity with laboratory and field instrumentation, computer applications, statistical and modeling techniques.	Level 6	PO 2
ETE406T.5	Understand scientific research strategies, including collection, management, evaluation, and interpretation of environmental data	Level 2	PO 4

Name and Sign of Course Teacher

**ETE407P : SOFTWARE WORKSHOP
(Practical)**

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

		Blooms Level	PO
ETE407P	Apply knowledge to write MATLAB program for any given problem	Level 3	PO 1
ETE407P	Utilize various functions using different graphical techniques.	Level 3	PO 1, 2
ETE407P	Analyze and plot the characteristics of electronic circuits using Multisim Software.	Level 4	PO 1

Name and Sign of Course Teacher