

## BEETE501T: ANTENNA & WAVE PROPAGATION (Theory)

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

		Blooms Level	PO
<b>BEETE501T.1</b>	Describe and <b>summarize</b> transmission line characteristics.	Level 2	PO 1,2
<b>BEETE501T.2</b>	calculate and <b>Analyze</b> antenna parameters (radiation pattern, beam width, lobes, directivity, gain, impedance, efficiency, polarization)	Level 4	PO 1, 2
<b>BEETE501T.3</b>	<b>Analyze</b> wire antennas (monopoles, dipoles, and loops).	Level 4	PO 1, 3
<b>BEETE501T.4</b>	<b>Analyze</b> and <b>design</b> antenna arrays.	Level 4,6	PO 1,3
<b>BEETE501T.5</b>	Describe and <b>demonstrate</b> the operation of aperture and reflector antennas	Level 2	PO 1,2
<b>BEETE501T.6</b>	<b>Analyze</b> and <b>design</b> Micro strip antennas.	Level 4,6	PO 1, 2,4

Name and Sign of Course Teacher

# **ETE502T: MICROPROCESSOR AND MICROCONTROLLER (Theory)**

## **❖ Course Outcome:**

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

		<b>Blooms Level</b>	<b>PO</b>
<b>ETE502T.1</b>	<b>Explain</b> internal organization of 8086/8088 microprocessors	Level 2,5	PO 1
<b>ETE502T.2</b>	<b>Explain</b> and <b>demonstrate</b> the concept of addressing modes and timing diagram of Microprocessor.	Level 2,5	PO 1, 3
<b>ETE502T.3</b>	<b>Discuss</b> and <b>develop</b> the interfacing of 8086 & 8251 with Keyboard/ Display, ADC/DAC, Stepper motor etc.	Level 6,3	PO 1, 3
<b>ETE502T.4</b>	<b>Demonstrate</b> the concept of interrupts and its application.	Level 2	PO 1
<b>ETE502T.5</b>	<b>Explain</b> 8087 Numeric coprocessor & <b>discuss</b> its use in practical application.	Level 2,6	PO 1,2,3
<b>ETE502T.6</b>	<b>Demonstrate</b> and <b>apply</b> the concept of Serial & parallel data communication	Level 2,3	PO 1, 2

**Name and Sign of Course Teacher**

# **ETE502P: MICROPROCESSOR AND MICROCONTROLLER (Practical)**

## **❖ Course Outcome:**

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

		<b>Blooms Level</b>	<b>PO</b>
<b>ETE502P.1</b>	<b>Explain</b> and <b>discuss</b> the concept of Assembly languages structure and programming.	Level 2,6	PO 1
<b>ETE502P.2</b>	<b>Explain</b> and <b>show</b> the interfacing of various peripherals with 8086 and 8051.	Level 2,1	PO 1, 2, 3
<b>ETE502P.3</b>	<b>Explain</b> and <b>experiment with</b> the simulation of the programs on different software platforms.	Level 2,3	PO 1, 3

**Name and Sign of Course**

## ETE503T: Analog Circuit Design (Theory)

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

		<b>Blooms Level</b>	<b>PO</b>
<b>ETE503T.1</b>	<b>Discuss</b> the basic differential Amplifier using transistor and <b>illustrate</b> its operation & characteristic.	Level 2,6	PO 1
<b>ETE503T.2</b>	<b>Design</b> linear Op-Amp circuits such as Voltage follower, Summing amplifier, scaling and averaging amplifier, and Understand Instrumentation amplifier circuits for various practical applications	Level 6	PO 1, 2
<b>ETE503T.3</b>	<b>Design</b> non-linear Op-Amp such as Comparators, Comparator IC such as LM 339, Schmitt trigger, multivibrator circuits for various practical applications using IC555	Level 6	PO 1, 2
<b>ETE503T.4</b>	<b>Analyze</b> and design amplifier circuits, oscillators, Filter, regulated power supply	Level 3	PO1, 2
<b>ETE503T.5</b>	<b>Design</b> the series voltage regulator	Level 6	PO1, 2
<b>ETE503T.6</b>	<b>Demonstrate</b> the concept filter and <b>design</b> Analog filter	Level 2,6	PO 1

**Name and Sign of Course Teacher**

## ETE503P: Analog Circuit Design (Practical)

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

		Blooms Level	PO
<b>ETE503.1</b>	<b>Analysis</b> and <b>design</b> of analog electronic circuits and systems	Level 4,6	PO 1,4
<b>ETE503.2</b>	<b>Design</b> linear and nonlinear applications of operational amplifier..	Level 6	PO 3,4
<b>ETE503.3</b>	<b>Design</b> the oscillators and other complex circuits using op amp ICs.	Level 6	PO 2,4
<b>ETE503.4</b>	<b>Demonstrate</b> the gain-bandwidth concept and frequency response of basic amplifiers.	Level 2	PO 1,2

**Name and Sign of Course Teacher**

## ETE504T : Communication Theory (Theory)

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

		<b>Blooms Level</b>	<b>PO</b>
<b>ETE504T.1</b>	<b>Demonstrate</b> a basic understanding of the term bandwidth and its application in communications	Level 2	PO 1
<b>ETE504T.2</b>	<b>Compare and analyze</b> the different pulse analog modulation techniques.	Level 2,6	PO 1, 6
<b>ETE504T.3</b>	<b>Define and explain</b> quantizing and PCM signals, bandwidth and bit rate calculations, study amplitude and angle modulation and demodulation of analog signals etc.	Level 1,6	PO 1
<b>ETE504T.4</b>	<b>Solve</b> the problems involving bandwidth calculation, representation & Generation of an AM sine wave	Level 3	PO 1
<b>ETE504T.5</b>	<b>Compare</b> different modulation techniques of Generation of FM (Direct & Indirect Method) .	Level 2	PO 1
<b>ETE504T.6</b>	<b>Identify, formulate &amp; solve</b> communication engineering problems.	Level 3,6	PO 1,6

**Name and Sign of Course Teacher**

**ETE504P : Communication Theory  
(Practical)**

❖ **Course Outcome:**

**After the completion of Course Student will be able to**

		<b>Blooms Level</b>	<b>PO</b>
<b>ETE504P</b>	<b>Demonstrate</b> different modulation techniques used in electronic communication system.	Level 2	PO 1
<b>ETE504P</b>	<b>Evaluate</b> fundamental communication system parameters, such as bandwidth power, signal to quantization noise ratio, data rate etc.	Level 5	PO 1, 6

**Name and Sign of Course Teacher**

**BEETE505T:INDUSTRIAL ECONOMICS & ENTREPRENEURSHIP  
DEVELOPMENT**

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

		Blooms Level	PO
<b>BEETE505T.1</b>	<i>Define</i> and <i>explain</i> the different kind of business structures and the basic concepts of economics	Level 1, 2	PO11
<b>BEETE505T.2</b>	<i>Define</i> and <i>explain</i> the types of market structures and the concepts of business integration, Economies and Diseconomies, LPG Policy, Trade Cycle and Optimum size	Level 1, 2	PO 6,11
<b>BEETE505T.3</b>	<i>Summarize</i> the functions of central bank and commercial bank, effect of policies regarding trade and <i>explain</i> the concepts inflation, deflation, stagflation, PPP models, Capital formation, inclusive growth	Level 2	PO 6,11
<b>BEETE505T.4</b>	<i>Explain</i> the basics of entrepreneurship and Small Scale Industries.	Level 2	PO 9,10,11
<b>BEETE505T.5</b>	<i>List</i> the different sources of finance and Government support system and <i>explain</i> the concept of BEP and Taxation.	Level 4, 2	PO 6,11
<b>BEETE505T.6</b>	<i>Summarize</i> the problems of SSIs & causes of Sickness of SSIs and <i>explain</i> the role of TCOs, Govt. Policies, Tax and other incentive, FDI for SSIs	Level 2	PO 6,7.11

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