

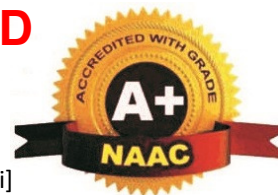


VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(An Autonomous Institution)

[Sponsored by Lavu Educational Society, Affiliated to JNTUH & Approved by AICTE, New Delhi]

Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri (D) - 501 301. Phone: 96529 10002/3



Department of Basic Sciences & Humanities

Regulation: VR25

I B. Tech I Semester

COURSE TITLE: MATRICES AND CALCULUS

COURSE CODE: 25MA101BS

After learning the contents of this subject the student must be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Apply matrix techniques to solve systems of linear equations and analyze vector spaces	3
CO2	Use differential calculus to analyze the behavior of functions and solve optimization problems	3
CO3	Solve first-order and higher-order differential equations relevant to engineering applications	3
CO4	Understand and apply multiple integrals in evaluating areas and volumes	2
CO5	Utilize Laplace transforms to solve linear differential equations and systems	3

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	2	2						2	2
CO2	3	3	2	2							2
CO3	3	3		2						2	2
CO4	3	3	2	2							2
CO5	3		2	2							2
Average	3	3	2	2						2	2

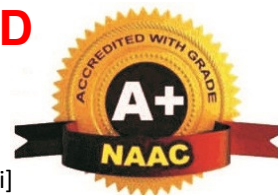


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Department of Basic Sciences & Humanities

Regulation: VR25

I B. Tech I Semester

COURSE TITLE: ADVANCED ENGINEERING
PHYSICS

COURSE CODE: 25PH102BS

At the end of the course the student will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Apply quantum mechanical principles to explain particle behavior and energy band formation in solids.	3
CO2	Identify the role of semiconductor devices in science and engineering applications & understand Nanomaterials.	2
CO3	Understand concepts of quantum computing use quantum gates.	2
CO4	Classify magnetic and dielectric materials and explain their properties, synthesis and applications.	2
CO5	Explain the principles of lasers and fiber optics and their applications in communication and sensing.	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	2	2	1				1		2
CO2	3	3	3	2	2	1	1	1	1		2
CO3	3	2	2	2	2		1	1	1		3
CO4	3	2	2	1	1	2	1	1			2
CO5	3	2	2	2	2	2			1		2
Average	3	2.4	2.2	1.8	1.6	1.67	1	1	1		2.2

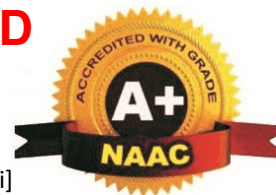


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Department of Basic Sciences & Humanities

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I B. Tech I Semester

COURSE TITLE: PROGRAMMING FOR PROBLEM SOLVING COURSE CODE: 25CS105ES

The student will learn

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Implement, compile and debug programs in C language for solving a problem	3
CO2	Design programs involving decision structures, loops for problem solving	6
CO3	Design programs to develop applications using array data structure	6
CO4	Apply functions to solve real world problems	3
CO5	Make use of pointers to design applications with efficient use of memory	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	3	3	3				3		3
CO2	2	3	2	3	3				2		3
CO3	2	3	2	3	3				2		2
CO4	3	3	3	3	3				3		2
CO5	3	2	3	2	2				3		3
Average	2.6	2.8	2.6	2.8	2.8				2.6		2.6

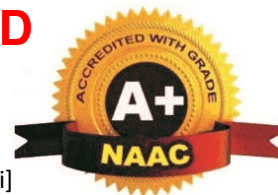


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I B. Tech I Semester

COURSE TITLE: INTRODUCTION TO ELECTRICAL ENGINEERING COURSE CODE: 25EE106ES

Students will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Analyze D.C. circuits using basic laws and theorems.	4
CO2	Analyze A.C. circuits and threephase systems.	2
CO3	Explain operation and performance of transformers.	2
CO4	Describe construction and working of electrical machines.	2
CO5	Identify components of electrical installations and perform basic calculations.	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	1	1					1		1
CO2	3	3	1	2	2				1		1
CO3	3	2	2	2	2				1		1
CO4	3	2	2	1	2			1	1		1
CO5	3	2	2	2	3	1		1	2	1	1
Average	3	2.4	1.6	1.6	2.25	1		1	1.2	1	1

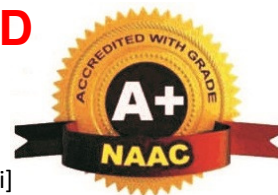


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I B. Tech I Semester

COURSE TITLE: ENGINEERING DRAWING AND
COMPUTER AIDED DRAFTING

COURSE CODE: 25ME103ES

At the end of the course, the student will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Student are able to draw various engineering curves in different methods and learned methods of dimensioning	2
CO2	Students can draw the first and third angle projections of points, lines and planes.	2
CO3	Students are able to draw the projections of solids.	2
CO4	Students are able to draw the projections of sections and developments of solids.	2
CO5	Students are able to draw the isometric views and convert isometric to orthographic and vice versa.	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3		3		3				2		2
CO2	3		1		2				3		2
CO3	3		3		2				2		3
CO4	3		3		2				3		3
CO5	3		2		3				3		3
Average	3		2.4		2.4				2.6		2.6

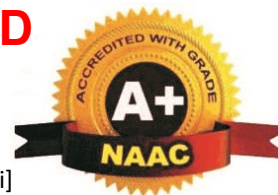


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I B. Tech I Semester

**COURSE TITLE: ENGLISH FOR SKILL
ENHANCEMENT**

COURSE CODE: 25EN104HS

Students will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Use English Language Effectively in Spoken and Written Forms.	3
CO2	Comprehend the given text and respond appropriately.	2
CO3	Communicate confidently in formal and informal contexts.	2
CO4	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.	2
CO5	The vocabulary skills of the students will be developed to guess the meanings of the words in different contexts and finally in grasping the overall message of the text.	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2					3	3	2	3		3
CO2	2					2	2	1	3		2
CO3	2					3	3	3	3		3
CO4	2					2	2	2	3		2
CO5	2					2	3		3		2
Average	2					2.4	2.6	2	3		2.4

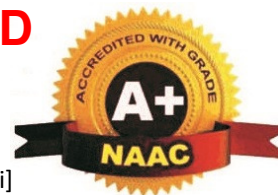


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I B. Tech I Semester

COURSE TITLE: ADVANCED ENGINEERING
PHYSICS LAB

COURSE CODE: 25PH107BS

The students will be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Appreciate Quantum physics in semiconductor devices and optoelectronics.	2
CO2	Determine key electrical, magnetic, and optical properties of semiconductors and other functional materials.	3
CO3	Characterize semiconductors using Hall effect and energy gap measurement techniques.	4
CO4	Demonstrate working knowledge of laser systems and optical Fiber parameters through experimental study.	3
CO5	Apply scientific methods for accurate data collection, analysis, and technical report writing.	3

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2									
CO2	3	3		2	2			1			
CO3	3	3	1	3	2	1	1	1			
CO4	2	2	1	2	3	1	1	1			
CO5	2	2	1	2	2	1	1	1	2	3	
Average	2.6	2.4	1	2.25	2.25	1	1	1	2	3	

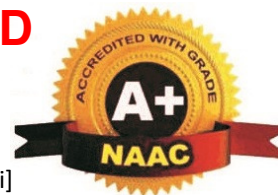


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I B. Tech I Semester

COURSE TITLE: PROGRAMMING FOR PROBLEM SOLVING LAB COURSE CODE: 25CS108ES

The candidate is expected to be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Implement, compile and debug programs in C language for solving a problem	3
CO2	Design programs involving decision structures, loops for problem solving	6
CO3	Design programs to develop applications using array data structure	6
CO4	Apply functions to solve real world problems	3
CO5	Make use of pointers to design applications with efficient use of memory	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	3	3	3				3		3
CO2	2	3	2	3	3				2		3
CO3	2	3	2	3	3				2		2
CO4	3	3	3	3	3				3		2
CO5	3	2	3	2	2				3		3
Average	2.6	2.8	2.6	2.8	2.8				2.6		2.6

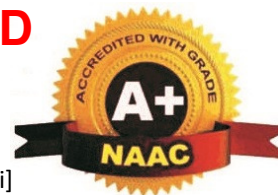


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I B. Tech I Semester

COURSE TITLE: ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB

COURSE CODE: 25EN109HS

At the end of the course, the student will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Better understanding of nuances of language through audio-visual experience and group activities.	2
CO2	Neutralization of accent for intelligibility.	2
CO3	Speaking with clarity and confidence thereby enhancing employability skills of the students.	2
CO4	Build self –confidence and art of presentations	6
CO5	Overcome stage fear, develop team playing	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2					3	3	2	3		3
CO2	2					2	2	1	3		2
CO3	2					3	3	3	3		3
CO4	2					2	2	2	3		2
CO5	2					2	3		3		2
Average	2					2.4	2.6	2	3		2.4

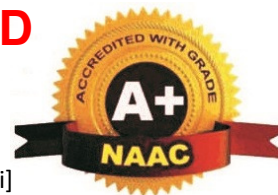


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I B. Tech II Semester

COURSE TITLE: ORDINARY DIFFERENTIAL
EQUATIONS AND VECTOR
CALCULUS

COURSE CODE: 25MA201BS

After learning the contents of this subject the student must be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Solve partial differential equations and apply them to physical systems	3
CO2	Apply Fourier series and transforms to analyze periodic functions and signals	3
CO3	Use Z-transforms and Laplace transforms for solving difference and differential equations	3
CO4	Understand complex analysis and apply contour integration techniques	2
CO5	Model engineering problems using mathematical tools and interpret results effectively	3

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	2	2							
CO2	3	3		2							
CO3	3		3	3							
CO4	3	3	3								
CO5	3	3	3	3							
Average	3	3	2.75	2.5							

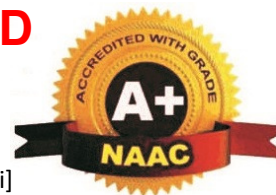


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I B. Tech II Semester

COURSE TITLE: ENGINEERING CHEMISTRY

COURSE CODE: 25CH202BS

At the end of the course, the student will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	To bring adaptability to the concepts of chemistry and to acquire the required skills to become a perfect engineer.	2
CO2	To impart the basic knowledge of atomic, molecular and electronic modifications which makes the student to understand the technology based on them	2
CO3	To acquire the knowledge of electrochemistry, corrosion and water treatment which are essential for the Engineers and in industry.	2
CO4	To acquire the skills pertaining to spectroscopy and to apply them for medical and other fields	2
CO5	To impart the knowledge of stereochemistry and synthetic aspects useful for understanding reaction pathways	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2	3	2								3
CO2	2	3	2								2
CO3	3	2	2								3
CO4	3	3	1								3
CO5	2	2	2								3
Average	2.4	2.6	1.8								2.8

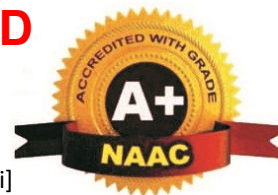


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I B. Tech II Semester

COURSE TITLE: PYTHON PROGRAMMING

COURSE CODE: 25ML203ES

Students will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Understand the basic syntax, control structures, and data types in Python programming.	2
CO2	Apply functions, modules, and exception handling to develop modular Python programs.	3
CO3	Implement file handling, regular expressions, and data structures for solving real-world problems.	3
CO4	Develop Python programs using object-oriented programming concepts and standard libraries.	6
CO5	Demonstrate teamwork, documentation, and ethical practices in software development using Python.	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	2						2	3
CO2	3	3	3	2						2	3
CO3	3			2						2	3
CO4	2	2	2	2						2	
CO5	2	2	2	2						2	
Average	2.6	2.25	2.25	2						2	3

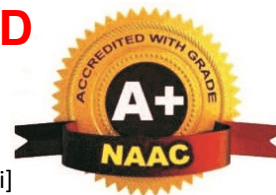


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I B. Tech II Semester

COURSE TITLE: DATA STRUCTURES

COURSE CODE: 25DS205ES

The students will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Understand basic data structures like arrays, linked lists, stacks, and queues	2
CO2	Apply operations such as insertion, deletion, and traversal on linear and non-linear structures	3
CO3	Implement searching, sorting, and hashing techniques for efficient data access	3
CO4	Design and analyze algorithms for trees and graphs	6
CO5	Demonstrate problem-solving skills and teamwork through programming assignments and projects	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	3	3	2	2		3		3	3
CO2	2	3	2	3	2	3		2		2	2
CO3	3	3	2	2	3	2		3		2	3
CO4	3	3	2	3	3	3		2		2	3
CO5	2	3	3	3	2	2		2		2	3
Average	2.6	2.8	2.4	2.8	2.4	2.4		2.4		2.2	2.8

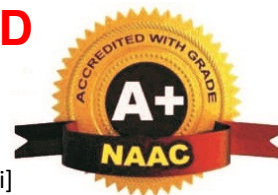


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COURSE TITLE: NETWORK ANALYSIS AND SYNTHESIS

COURSE CODE: 25EE204ES

After learning the contents of this subject the student must be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Analyzing electrical networks using theorems and techniques	2
CO2	Gain the knowledge on basic RLC circuits behaviour.	2
CO3	Analyse the Steady state and transient analysis of RLC Circuits.	4
CO4	Characterization of two port network parameters.	2
CO5	Analyse the Design aspect of various filters and attenuators	4

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	3	2	2					3	3
CO2	3	2	1								1
CO3	2	3	2								1
CO4	3	2	1								1
CO5	2	3	3								1
Average	2.6	2.6	2	2	2					3	1.4

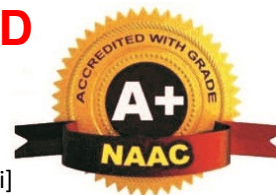


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COURSE TITLE: ENGINEERING CHEMISTRY LAB COURSE CODE: 25CH206BS

The experiments will make the student gain skills on:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Synthesize polymers	6
CO2	Analyze ores and bleaching powder	4
CO3	Estimate the Hardness of water in terms of Calcium and Magnesium ions	4
CO4	Separate organic compounds using chromatographic techniques	2
CO5	Standardize solutions using titration, conductivity meter, pH-meter, potentiometer and colorimeter	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3						2			
CO2	2	3						1			
CO3	2	2						3			
CO4	3	2						2			
CO5	2	3						3			
Average	2.4	2.6						2.2			

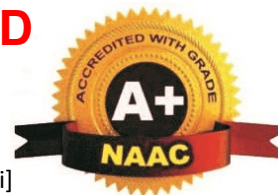


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I B. Tech II Semester

COURSE TITLE: APPLIED PYTHON
PROGRAMMING LAB

COURSE CODE: 25ML208ES

Upon completing this Lab, the students will be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Build basic programs using fundamental programming constructs	6
CO2	Write and execute python codes for different applications	6
CO3	Capable to implement on hardware boards	2
CO4	Implement exception handling mechanisms to create robust and error-tolerant applications.	3
CO5	Utilizing Python Libraries and Modules	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	2						2	3
CO2	3	3	3	2						2	3
CO3	3			2						2	3
CO4	2	2	2	2						2	
CO5	2	2	2	2						2	
Average	2.6	2.25	2.25	2						2	3

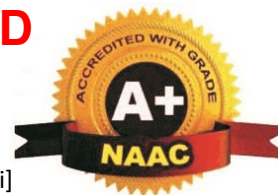


VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(An Autonomous Institution)

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Deaprtment of Basic Sciences & Humanities

Regulation: VR25

I B. Tech II Semester

COURSE TITLE: DATA STRUCTURES LAB

COURSE CODE: 25DS207ES

Upon completing this Lab, the students will be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Implement linear data structures such as arrays, stacks, and queues	3
CO2	Apply linked lists for dynamic memory management and manipulation	3
CO3	Develop programs using trees and graphs for hierarchical and networked data	6
CO4	Implement searching, sorting, and hashing techniques for efficient data access	3
CO5	Demonstrate teamwork, debugging, and documentation skills in lab assignments	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	3	2	2	2	2		3		2	2
CO2	3	3	3	3	2	2		2		3	2
CO3	3	3	3	3	2	2		2		3	3
CO4	3	3	3	3	3	2		2		2	3
CO5	3	3	3	3	3	3		3		2	3
Average	3	3	2.8	2.8	2.4	2.2		2.4		2.4	2.6

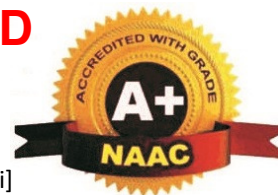


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Department of Basic Sciences & Humanities

Regulation: VR25

I B. Tech II Semester

COURSE TITLE: BASIC ELECTRICAL
ENGINEERING LAB

COURSE CODE: 25EE209ES

At the end of the Laboratory, the student will be able to

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Study different meters and instruments for measurement of electrical quantities	2
CO2	Study the linear and nonlinear characteristics of different types of loads experimentally	2
CO3	Design and experiment potential divider circuits	6
CO4	Experimentally verify the basic circuit theorems	2
CO5	Measure power and power factor in ac circuits	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2	3	2	2		2		2	2		3
CO2	3	3	2	3		2		2	2		3
CO3	3	3	3	2		2		2	2		2
CO4	3	2	3	3		2		2	2		3
CO5	3	2	2	3		2		2	2		2
Average	2.8	2.6	2.4	2.6		2		2	2		2.6

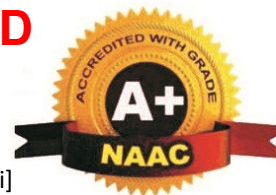


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Department of Basic Sciences & Humanities

Regulation: VR25

I B. Tech II Semester

COURSE TITLE: ENGINEERING WORKSHOP

COURSE CODE: 25ME210ES

At the end of the workshop/course, the student will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Study and practice on machine tools and their operations	2
CO2	Practice on manufacturing of components using workshop trades including plumbing, fitting.	3
CO3	Practice on manufacturing of components using workshop trades including carpentry, foundry, house wiring and welding.	3
CO4	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiselling.	2
CO5	Apply basic electrical engineering knowledge for house wiring practice.	3

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	2		3		3			3	2		3
CO2	2		3		3			3	2		2
CO3	3		2		2			2	2		2
CO4	3		2		2			2	3		2
CO5	3		3		2			2	3		3
Average	2.6		2.6		2.4			2.4	2.4		2.4

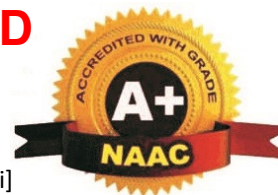


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Department of Basic Sciences & Humanities

Regulation: VR25

I-B. Tech I Semester

COURSE TITLE: ELECTRONIC DEVICES AND CIRCUITS

COURSE CODE: 25EC303PC

By the end of this course, students will be able to:

CO No.	COURSE OUTCOME STATEMENT	BT Level
CO1	Analyze the electrical characteristics and models of semiconductor diodes and apply them in rectifier and clipping circuits.	2
CO2	Evaluate the operation and configurations of Bipolar Junction Transistors (BJTs) and analyze their input and output characteristics.	4
CO3	Design appropriate biasing networks for BJTs and determine the operating point for amplifier applications.	3
CO4	Analyze transistor amplifier circuits using h-parameter models and assess performance for various configurations.	3
CO5	Analyze the structure, working, and characteristics of JFETs, MOSFETs, and advanced devices like Fin FETs and CNTFETs, and compare modern device technologies	2

MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	2	1							1
CO2	3	3	3	2				1			1
CO3	3	3	3	2				1			2
CO4	3	3	3	3				1			2
CO5	3	2	3	2				2			2
Average	3	2.6	2.8	2				1.25			1.6