



# VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

Sponsored by Lavu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.  
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: MATRICES & CALCULUS (MA101BS)

After going through this course, the student gets a thorough knowledge on

### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
MA101BS.1	Apply matrix techniques to solve systems of linear equations and analyze vector spaces
MA101BS.2	Use differential calculus to analyze the behavior of functions and solve optimization problems
MA101BS.3	Solve first-order and higher-order differential equations relevant to engineering applications
MA101BS.4	Understand and apply multiple integrals in evaluating areas and volumes
MA101BS.5	Utilize Laplace transforms to solve linear differential equations and systems

### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
MA101BS.1	3	3	2	2							2	2
MA101BS.2	3	3	2	2								2
MA101BS.3	3	3		2							2	2
MA101BS.4	3	3	2	2								2
MA101BS.5	3		2	2								2
<b>Average</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>							<b>2</b>	<b>2</b>

Head of the Department



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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: APPLIED PHYSICS (PH102BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
PH102BS.1	The student would be able to learn the fundamental concepts on Quantum behavior of matter in its micro state.
PH102BS.2	The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fiber optics enable the students to apply to various systems like communications, solar cell, photo cells and so on.
PH102BS.3	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.
PH102BS.4	Students will be able to demonstrate competency and understanding of the concepts found in Fiber optics and lasers.
PH102BS.5	The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
PH102BS.1	3	2	3	2	2	2						2
PH102BS.2	3	2	2	2	2	2						
PH102BS.3	3	2	3	2	3	2						
PH102BS.4	2	2	2	2	3	3						
PH102BS.5	3	2	2	2	2	3						
<b>Average</b>	2.8	2	2.4	2	2.4	2.4						2

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: APPLIED PHYSICS LAB (PH107BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
PH107BS.1	To develop experimentation skills and understand importance of measurement practices in Science & Technology.
PH107BS.2	Develop analytical skills for interpreting data and drawing inferences.
PH107BS.3	Understand nature of experimental errors and practical means to estimate errors in acquired data.
PH107BS.4	Develop skills for team work and technical communication and discussions.
PH107BS.5	Apply theoretical principles of modern physics to analysis and measurements performed in the laboratory.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
PH107BS.1	2	2	2	3								
PH107BS.2	2	2	2	3								
PH107BS.3	2	2	2	3								
PH107BS.4	2	2	2	3								
PH107BS.5	2	2	2	3								
<b>Average</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>								

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: PROGRAMMING FOR PROBLEM SOLVING (CS103ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS103ES.1	Implement, compile and debug programs in C language for solving a problem
CS103ES.2	Design programs involving decision structures, loops for problem solving
CS103ES.3	Design programs to develop applications using array data structure
CS103ES.4	Apply functions to solve real world problems
CS103ES.5	Make use of pointers to design applications with efficient use of memory

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS103ES.1	3	3	3	3	1	2	1	-	1	3	1	1
CS103ES.2	2	3	2	3	1	-	1	1	-	2	-	1
CS103ES.3	2	3	2	3	-	1	-	-	1	2	-	-
CS103ES.4	3	3	3	3	1	2	1	1	-	3	1	1
CS103ES.5	3	2	3	2	1	2	1	-	-	3	1	1
Average	2.6	2.8	2.6	2.8	1	1.7	1	1	1	2.6	1	1

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: ELEMENTS OF COMPUTER SCIENCE AND ENGINEERING (CS106ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS106ES.1	Understand the basic components of computer systems and their roles in computation.
CS106ES.2	Apply problem-solving techniques using flowcharts, algorithms, and basic programming constructs.
CS106ES.3	Demonstrate knowledge of software development processes and tools used in engineering practice.
CS106ES.4	Analyze the interaction between hardware and software in executing programs.
CS106ES.5	Exhibit professional ethics, teamwork, and effective communication in computing environments.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
MA101BS.1	3	2	2	2	2							2
MA101BS.2	3	3	3	2	2							2
MA101BS.3	2	2		2								
MA101BS.4	2	2	2	2								
MA101BS.5	2	2	2	2								2
<b>Average</b>	<b>2.4</b>	<b>2.2</b>	<b>2.2</b>	<b>2</b>	<b>2</b>							<b>2</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: COMPUTER AIDED ENGINEERING GRAPHICS (ME105ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
ME105ES.1	Student are able to draw various engineering curves in different methods and learned methods of dimensioning
ME105ES.2	Students can draw the first and third angle projections of points, lines and planes.
ME105ES.3	Students are able to draw the projections of solids.
ME105ES.4	Students are able to draw the projections of sections and developments of solids.
ME105ES.5	Students are able to draw the isometric views and convert isometric to orthographic and vice versa.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
ME105ES.1	3		3		3					2		2
ME105ES.2	3		1		2					3		2
ME105ES.3	3		3		2					2		3
ME105ES.4	3		3		2					3		3
ME105ES.5	3		2		3					3		3
<b>Average</b>	<b>3</b>		<b>2.4</b>		<b>2.4</b>					<b>2.6</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: ENGINEERING WORKSHOP (ME104ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
ME104ES.1	Study and practice on machine tools and their operations
ME104ES.2	Practice on manufacturing of components using workshop trades including plumbing, fitting.
ME104ES.3	Practice on manufacturing of components using workshop trades including carpentry, foundry, house wiring and welding.
ME104ES.4	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiselling.
ME104ES.5	Apply basic electrical engineering knowledge for house wiring practice.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
ME104ES.1	2		3		3				3	2		3
ME104ES.2	2		3		3				3	2		2
ME104ES.3	3		2		2				2	2		2
ME104ES.4	3		2		2				2	3		2
ME104ES.5	3		3		2				2	3		3
<b>Average</b>	<b>2.6</b>		<b>2.6</b>		<b>2.4</b>				<b>2.4</b>	<b>2.4</b>		<b>2.4</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: ENGINEERING CHEMISTRY (CH102BS)

After going through this course, the student gets a thorough knowledge on

### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CH102BS.1	To bring adaptability to the concepts of chemistry and to acquire the required skills to become a perfect engineer.
CH102BS.2	To impart the basic knowledge of atomic, molecular and electronic modifications which makes the student to understand the technology based on them
CH102BS.3	To acquire the knowledge of electrochemistry, corrosion and water treatment which are essential for the Engineers and in industry.
CH102BS.4	To acquire the skills pertaining to spectroscopy and to apply them for medical and other fields
CH102BS.5	To impart the knowledge of stereochemistry and synthetic aspects useful for understanding reaction pathways

### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CH102BS .1	2	3	2									3
CH102BS .2	2	3	2									2
CH102BS .3	3	2	2									3
CH102BS .4	3	3	1									3
CH102BS .5	2	2	2									3
<b>Average</b>	<b>2.4</b>	<b>2.6</b>	<b>1.8</b>									<b>2.8</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: ENGINEERING CHEMISTRY LABORATORY (CH107BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CH107BS.1	Synthesize polymers
CH107BS.2	Analyze ores and bleaching powder
CH107BS.3	Estimate the Hardness of water in terms of Calcium and Magnesium ions
CH107BS.4	Separate organic compounds using chromatographic techniques
CH107BS.5	Standardize solutions using titration, conductivity meter, pH-meter, potentiometer and colorimeter

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CH107BS .1	3	3							2			
CH107BS .2	2	3							1			
CH107BS .3	2	2							3			
CH107BS .4	3	2							2			
CH107BS .5	2	3							3			
<b>Average</b>	<b>2.4</b>	<b>2.6</b>							<b>2.2</b>			

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

**SUBJECT: PROGRAMMING FOR PROBLEM SOLVING LABORATORY (CS108ES)**

After going through this course, the student gets a thorough knowledge on

### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS108ES.1	Implement, compile and debug programs in C language for solving a problem
CS108ES.2	Design programs involving decision structures, loops for problem solving
CS108ES.3	Design programs to develop applications using array data structure
CS108ES.4	Apply functions to solve real world problems
CS108ES.5	Make use of pointers to design applications with efficient use of memory

### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS108ES .1	3	3	3	3	3					3		3
CS108ES .2	2	3	2	3	3					2		3
CS108ES .3	2	3	2	3	3					2		2
CS108ES .4	3	3	3	3	3					3		2
CS108ES .5	3	2	3	2	2					3		3
<b>Average</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>					<b>2.6</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: ENGLISH FOR SKILL ENHANCEMENT (EN105HS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EN105HS.1	Use English Language Effectively in Spoken and Written Forms.
EN105HS.2	Comprehend the given text and respond appropriately.
EN105HS.3	Communicate confidently in formal and informal contexts.
EN105HS.4	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.
EN105HS.5	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.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EN105HS.1	2					3		3	2	3		3
EN105HS.2	2					2		2	1	3		2
EN105HS.3	2					3		3	3	3		3
EN105HS.4	2					2		2	2	3		2
EN105HS.5	2					2		3		3		2
<b>Average</b>	<b>2</b>					<b>2.4</b>		<b>2.6</b>	<b>2</b>			<b>2.4</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB(EN109HS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EN109HS.1	Better understanding of nuances of language through audio-visual experience and group activities.
EN109HS.2	Neutralization of accent for intelligibility.
EN109HS.3	Speaking with clarity and confidence thereby enhancing employability skills of the students.
EN109HS.4	Build self –confidence and art of presentations
EN109HS.5	Overcome stage fear, develop team playing

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EN109HS.1								3	3	3		3
EN109HS.2								2	3	3		3
EN109HS.3								3	3	3		3
EN109HS.4								2	3	3		3
EN109HS.5								2	3	3		3
<b>Average</b>								<b>2.4</b>	<b>3</b>	<b>3</b>		<b>3</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING (EE104ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EE104ES.1	Understand and analyse basic Electrical circuits
EE104ES.2	Analyze single-phase and three-phase AC circuits to determine resonance conditions
EE104ES.3	Study the working principles of Transformers
EE104ES.4	Study the working principles of Electrical Machines
EE104ES.5	Introduce components of Low Voltage Electrical Installations.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EE104ES.1	3	3	2	2		2			2	2		
EE104ES.2	3	3	2	2		2			2	2		
EE104ES.3	2	2	2	2		2			2	2		
EE104ES.4	2	2	2	2		2			2	2		
EE104ES.5	2	2	2	2		2			2	2		
<b>Average</b>	<b>2.4</b>	<b>2.4</b>	<b>2</b>	<b>2</b>		<b>2</b>			<b>2</b>	<b>2</b>		

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: BASIC ELECTRICAL ENGINEERING LAB (EE109ES)

After going through this course, the student gets a thorough knowledge on

### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EE109ES.1	Study different meters and instruments for measurement of electrical quantities
EE109ES.2	Study the linear and nonlinear characteristics of different types of loads experimentally
EE109ES.3	Design and experiment potential divider circuits
EE109ES.4	Experimentally verify the basic circuit theorems
EE109ES.5	Measure power and power factor in ac circuits

### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EE109ES.1	2	3	2	2		2	2		2	2		3
EE109ES.2	3	3	2	3		2	2		2	2		3
EE109ES.3	3	3	3	2		2	2		2	2		2
EE109ES.4	3	2	3	3		2	2		2	2		3
EE109ES.5	3	2	2	3		2	3		2	2		2
<b>Average</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>		<b>2</b>	<b>2.2</b>		<b>2</b>	<b>2</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: ENVIRONMENTAL SCIENCE (MC110)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
MC110.1	Understand technologies on the basis of ecological principles principles and environmental regulations
MC110.2	Evaluate technologies on the basis of ecological principles principles and environmental regulations
MC110.3	Develop technologies on the basis of ecological principles principles and environmental regulations
MC110.4	Understand the impacts of developmental activities and mitigation measures
MC110.5	Understand the importance of ecological balance for sustainable development

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
MC110.1	2					2	3	2				2
MC110.2	2					3	3	2				2
MC110.3	2					3	3	2				3
MC110.4	2					2	3	2				2
MC110.5	3					2	3	2				2
<b>Average</b>	<b>2.2</b>					<b>2.4</b>	<b>3</b>	<b>2</b>				<b>2.2</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: C PROGRAMMING FOR ENGINEERS (EC103ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EC103ES.1	Explain computer system components and convert algorithms into C programs
EC103ES.2	Apply expressions and control structures to solve programming problems.
EC103ES.3	Develop modular programs using functions, arrays, and recursion.
EC103ES.4	Use pointers and file handling for efficient data management.
EC103ES.5	Implement derived data types and basic algorithms with complexity analysis.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EC103ES.1	3	2	2	1	3				1	1		2
EC103ES.2	3	3	2	2	3				1			2
EC103ES.3	3	3	3	2	3							2
EC103ES.4	3	3	2	2	3							2
EC103ES.5	3	3	3	3	3							3
<b>Average</b>	<b>3</b>	<b>2.8</b>	<b>2.4</b>	<b>2</b>	<b>3</b>				<b>1</b>	<b>1</b>		<b>2.2</b>

Head of the Department



# VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: C PROGRAMMING FOR ENGINEERS LABORATORY (EC108ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EC108ES.1	Write algorithms and to draw flowcharts for solving problems and translate the algorithms/flowcharts to programs (in C language).
EC108ES.2	Use functions to develop modular reusable code
EC108ES.3	Use arrays, pointers, strings and structures to formulate algorithms and programs.
EC108ES.4	Understand Searching and sorting algorithms
EC108ES.5	Develop, test, and debug C programs for real-world applications.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EC108ES.1	3	2	2	1	3				1			2
EC108ES.2	3	3	3	2	3							2
EC108ES.3	3	3	3	2	3							2
EC108ES.4	3	3	2	2	3							2
EC108ES.5	3	3	3	3	3				1	1		3
<b>Average</b>	<b>3</b>	<b>2.8</b>	<b>2.6</b>	<b>2</b>	<b>3</b>				<b>0.4</b>	<b>0.4</b>	<b>0</b>	<b>2.2</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: ELEMENTS OF ELECTRONICS AND COMMUNICATION ENGINEERING (EC106ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EC106ES.1	Identify the different components used for electronics applications
EC106ES.2	Measure different parameters using various measuring instruments
EC106ES.3	Analyze and interpret waveforms using CRO, function generator, and spectrum analyzer.
EC106ES.4	Verify logic gate operations and distinguish between analog and digital ICs.
EC106ES.5	Demonstrate basic modulation concepts and utilize relevant software tools in electronics and communication.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EC106ES .1	3	2	2	1	2							2
EC106ES .2	3	3	2	2	3							2
EC106ES .3	3	3	3	3	3							3
EC106ES .4	3	3	2	2	3							2
EC106ES .5	3	3	3	3	3	1	1		1	1		3
<b>Average</b>	<b>3</b>	<b>2.8</b>	<b>2.4</b>	<b>2.2</b>	<b>2.8</b>	<b>1</b>	<b>1</b>		<b>1</b>	<b>1</b>		<b>2.4</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: ELECTRONIC DEVICES AND CIRCUITS (EC105ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EC105ES.1	Understand the characteristics and operation of semiconductor devices such as diodes and transistors.
EC105ES.2	Analyze and design basic electronic circuits including rectifiers, amplifiers, and voltage regulators.
EC105ES.3	Apply biasing techniques and small signal models to evaluate transistor performance in analog circuits.
EC105ES.4	Use simulation tools to model and analyze electronic circuits for performance and reliability.
EC105ES.5	Demonstrate teamwork, documentation, and ethical responsibility in electronic circuit design projects.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EC105ES.1	3	2	2	1								1
EC105ES.2	3	3	3	2					1			1
EC105ES.3	3	3	3	2					1			2
EC105ES.4	3	3	3	3					1			2
EC105ES.5	3	2	3	2					2			2
<b>Average</b>	<b>3</b>	<b>2.6</b>	<b>2.8</b>	<b>2</b>					<b>1.3</b>			<b>1.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: ELECTRONIC DEVICES AND CIRCUITS LABORATORY (EC209ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EC109ES.1	The students will be able to Acquire the knowledge of various semiconductor devices and their use in real life
EC109ES.2	The students will be Design aspects of biasing and keep them in active region of the device for functional circuits
EC109ES.3	The students will be able to Acquire the knowledge about the role of special purpose devices and their applications.
EC109ES.5	The students will be able to Evaluate the behavior of FETs and MOSFETs in different configurations.
EC109ES.5	The students will be able to Examine the characteristics and applications of special semiconductor devices like Zener, SCR, UJT, LED, and Photodiode.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EC209ES .1	3	2	2	1	2	1	1	-	-	-	-	1
EC209ES .2	3	3	3	2	3	-	-	-	-	-	-	2
EC209ES .3	3	3	3	1	2	1	1	-	-	-	-	1
EC209ES .4	3	3	3	2	3	1	-	-	-	-	-	2
EC209ES .5	3	3	3	2	3	1	1	-	-	-	-	2
<b>Average</b>	<b>3</b>	<b>2.8</b>	<b>2.8</b>	<b>1.6</b>	<b>2.6</b>	<b>1</b>	<b>1</b>					<b>1.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

**SUBJECT: PROGRAMING FOR PROBLEM SOLVING (CS103ES)**

After going through this course, the student gets a thorough knowledge on

### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS103ES.1	Implement, compile and debug programs in C language for solving a problem
CS103ES.2	Design programs involving decision structures, loops for problem solving
CS103ES.3	Design programs to develop applications using array data structure
CS103ES.4	Apply functions to solve real world problems
CS103ES.5	Make use of pointers to design applications with efficient use of memory

### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS103ES .1	3	3	3	3	3					3		3
CS103ES .2	2	3	2	3	3					2		3
CS103ES .3	2	3	2	3	3					2		2
CS103ES .4	3	3	3	3	3					3		2
CS103ES .5	3	2	3	2	2					3		3
<b>Average</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>					<b>2.6</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech I Semester (VR24 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING (EE104ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EE104ES.1	Analyze and solve electric and magnetic circuits.
EE104ES.2	Understand the principles of operation of DC machines, single phase transformers and three phase induction motors
EE104ES.3	Identify the starting methods of starting synchronous and induction motors and speed control methods for DC motors
EE104ES.4	Understand the principle of operation of moving coil, moving iron and dynamometer type instruments
EE104ES.5	Understand the components of Low Voltage Electrical Installations

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EE104ES .1	2	3	2	2		2	2		2	2		3
EE104ES .2	3	3	2	3		2	2		2	2		3
EE104ES .3	3	3	3	2		2	2		2	2		2
EE104ES .4	3	2	3	3		2	2		2	2		3
EE104ES .5	3	2	2	3		2	3		2	2		2
<b>Average</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>		<b>2</b>	<b>2.2</b>		<b>2</b>	<b>2</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech I Semester (VR24 Regulation)

### SUBJECT: BASIC ELECTRICAL ENGINEERING LABORATORY (CS109ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS109ES.1	Study different meters and instruments for measurement of electrical quantities
CS109ES.2	Study the linear and nonlinear characteristics of different types of loads experimentally
CS109ES.3	Design and experiment potential divider circuits
CS109ES.4	Experimentally verify the basic circuit theorems
CS109ES.5	Measure power and power factor in ac circuits

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS109ES .1	2	3	2	2		2	2		2	2		3
CS109ES .2	3	3	2	3		2	2		2	2		3
CS109ES .3	3	3	3	2		2	2		2	2		2
CS109ES .4	3	2	3	3		2	2		2	2		3
CS109ES .5	3	2	2	3		2	3		2	2		2
<b>Average</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>		<b>2</b>	<b>2.2</b>		<b>2</b>	<b>2</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: APPLIED PHYSICS (PH202BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
PH202BS.1	The student would be able to learn the fundamental concepts on Quantum behavior of matter in its micro state.
PH202BS.2	The knowledge of fundamentals of Semiconductor physics, Optoelectronics, Lasers and fiber optics enable the students to apply to various systems like communications, solar cell, photo cells and so on.
PH202BS.3	Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications.
PH202BS.4	Students will be able to demonstrate competency and understanding of the concepts found in Fiber optics and lasers.
PH202BS.5	The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
PH202BS.1	3	2	3	2	2	2						2
PH202BS.2	3	2	2	2	2	2						
PH202BS.3	3	2	3	2	3	2						
PH02BS.4	2	2	2	2	3	3						
PH202BS.5	3	2	2	2	2	3						
<b>Average</b>	2.8	2	2.4	2	2.4	2.4						2

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: APPLIED PHYSICS LAB (PH207BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
PH207BS.1	To develop experimentation skills and understand importance of measurement practices in Science & Technology.
PH207BS.2	Develop analytical skills for interpreting data and drawing inferences.
PH207BS.3	Understand nature of experimental errors and practical means to estimate errors in acquired data.
PH207BS.4	Develop skills for team work and technical communication and discussions.
PH207BS.5	Apply theoretical principles of modern physics to analysis and measurements performed in the laboratory.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
PH207BS.1	2	2	2	3								
PH207BS.2	2	2	2	3								
PH207BS.3	2	2	2	3								
PH207BS.4	2	2	2	3								
PH207BS.5	2	2	2	3								
<b>Average</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>								

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING (EE204ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EE204ES.1	Analyze and solve electric and magnetic circuits.
E204ES.2	Understand the principles of operation of DC machines, single phase transformers and three phase induction motors
EE204ES.3	Identify the starting methods of starting synchronous and induction motors and speed control methods for DC motors
EE204ES.4	Understand the principle of operation of moving coil, moving iron and dynamometer type instruments
EE204ES.5	Understand the components of Low Voltage Electrical Installations

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EE204ES.1	2	3	2	2		2	2		2	2		3
EE204ES.2	3	3	2	3		2	2		2	2		3
EE204ES.3	3	3	3	2		2	2		2	2		2
EE204ES.4	3	2	3	3		2	2		2	2		3
EE204ES.5	3	2	2	3		2	3		2	2		2
<b>Average</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>		<b>2</b>	<b>2.2</b>		<b>2</b>	<b>2</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING LAB (EE209ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EE209ES.1	Study different meters and instruments for measurement of electrical quantities
EE209ES.2	Study the linear and nonlinear characteristics of different types of loads experimentally
EE209ES.3	Design and experiment potential divider circuits
EE209ES.4	Experimentally verify the basic circuit theorems
EE209ES.5	Measure power and power factor in ac circuits

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EE209ES.1	2	3	2	2		2	2		2	2		3
EE209ES.2	3	3	2	3		2	2		2	2		3
EE209ES.3	3	3	3	2		2	2		2	2		2
EE209ES.4	3	2	3	3		2	2		2	2		3
EE209ES.5	3	2	2	3		2	3		2	2		2
<b>Average</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>		<b>2</b>	<b>2.2</b>		<b>2</b>	<b>2</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: COMPUTER AIDED ENGINEERING GRAPHICS (ME205ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
ME205ES.1	Student are able to draw various engineering curves in different methods and learned methods of dimensioning
ME205ES.2	Students can draw the first and third angle projections of points, lines and planes.
ME205ES.3	Students are able to draw the projections of solids.
ME205ES.4	Students are able to draw the projections of sections and developments of solids.
ME205ES.5	Students are able to draw the isometric views and convert isometric to orthographic and vice versa.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
ME205ES.1	3		3		3					2		2
ME205ES.2	3		1		2					3		2
ME205ES.3	3		3		2					2		3
ME205ES.4	3		3		2					3		3
ME205ES.5	3		2		3					3		3
<b>Average</b>	<b>3</b>		<b>2.4</b>		<b>2.4</b>					<b>2.6</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ENGINEERING CHEMISTRY (CH202BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CH202BS.1	To bring adaptability to the concepts of chemistry and to acquire the required skills to become a perfect engineer.
CH202BS.2	To impart the basic knowledge of atomic, molecular and electronic modifications which makes the student to understand the technology based on them
CH202BS.3	To acquire the knowledge of electrochemistry, corrosion and water treatment which are essential for the Engineers and in industry.
CH202BS.4	To acquire the skills pertaining to spectroscopy and to apply them for medical and other fields
CH202BS.5	To impart the knowledge of stereochemistry and synthetic aspects useful for understanding reaction pathways

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CH202BS .1	2	3	2									3
CH202BS .2	2	3	2									2
CH202BS .3	3	2	2									3
CH202BS .4	3	3	1									3
CH202BS .5	2	2	2									3
<b>Average</b>	<b>2.4</b>	<b>2.6</b>	<b>1.8</b>									<b>2.8</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ENGINEERING CHEMISTRY LABORATORY (CH207BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CH207BS.1	Synthesize polymers
CH207BS.2	Analyze ores and bleaching powder
CH207BS.3	Estimate the Hardness of water in terms of Calcium and Magnesium ions
CH207BS.4	Separate organic compounds using chromatographic techniques
CH207BS.5	Standardize solutions using titration, conductivity meter, pH-meter, potentiometer and colorimeter

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CH207BS .1	3	3							2			
CH207BS .2	2	3							1			
CH207BS .3	2	2							3			
CH207BS .4	3	2							2			
CH207BS .5	2	3							3			
<b>Average</b>	<b>2.4</b>	<b>2.6</b>							<b>2.2</b>			

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ENGLISH FOR SKILL ENHANCEMENT (EN205HS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EN205HS.1	Use English Language Effectively in Spoken and Written Forms.
EN205HS.2	Comprehend the given text and respond appropriately.
EN205HS.3	Communicate confidently in formal and informal contexts.
EN205HS.4	Acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.
EN205HS.5	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.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EN205HS.1	2					3		3	2	3		3
EN205HS.2	2					2		2	1	3		2
EN205HS.3	2					3		3	3	3		3
EN205HS.4	2					2		2	2	3		2
EN205HS.5	2					2		3		3		2
<b>Average</b>	<b>2</b>					<b>2.4</b>		<b>2.6</b>	<b>2</b>			<b>2.4</b>

Head of the Department



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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ENGLISH LANGUAGE AND COMMUNICATION SKILLS LAB(EN209HS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EN209HS.1	Better understanding of nuances of language through audio-visual experience and group activities.
EN209HS.2	Neutralization of accent for intelligibility.
EN209HS.3	Speaking with clarity and confidence thereby enhancing employability skills of the students.
EN209HS.4	Build self –confidence and art of presentations
EN209HS.5	Overcome stage fear, develop team playing

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EN209HS.1								3	3	3		3
EN209HS.2								2	3	3		3
EN209HS.3								3	3	3		3
EN209HS.4								2	3	3		3
EN209HS.5								2	3	3		3
<b>Average</b>								<b>2.4</b>	<b>3</b>	<b>3</b>		<b>3</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ENVIRONMENTAL SCIENCE (MC210)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
MC210.1	Understand technologies on the basis of ecological principles principles and environmental regulations
MC210.2	Evaluate technologies on the basis of ecological principles principles and environmental regulations
MC210.3	Develop technologies on the basis of ecological principles principles and environmental regulations
MC210.4	Understand the impacts of developmental activities and mitigation measures
MC210.5	Understand the importance of ecological balance for sustainable development

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
MC210.1	2					2	3	2				2
MC210.2	2					3	3	2				2
MC210.3	2					3	3	2				3
MC210.4	2					2	3	2				2
MC210.5	3					2	3	2				2
<b>Average</b>	<b>2.2</b>					<b>2.4</b>	<b>3</b>	<b>2</b>				<b>2.2</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ENGINEERING WORKSHOP (ME204ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
ME04ES.1	Study and practice on machine tools and their operations
ME204ES.2	Practice on manufacturing of components using workshop trades including plumbing, fitting.
ME04ES.3	Practice on manufacturing of components using workshop trades including carpentry, foundry, house wiring and welding.
ME204ES.4	Identify and apply suitable tools for different trades of Engineering processes including drilling, material removing, measuring, chiseling.
ME204ES.5	Apply basic electrical engineering knowledge for house wiring practice.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
ME204ES.1	2		3		3				3	2		3
ME204ES.2	2		3		3				3	2		2
ME204ES.3	3		2		2				2	2		2
ME204ES.4	3		2		2				2	3		2
ME204ES.5	3		3		2				2	3		3
<b>Average</b>	<b>2.6</b>		<b>2.6</b>		<b>2.4</b>				<b>2.4</b>	<b>2.4</b>		<b>2.4</b>

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## Department of Basic Science & Humanities

AY: 2024-25

I-B.Tech II Semester (VR24 Regulation)

### SUBJECT: ORDINARY DIFFERENTIAL EQUATIONS AND VECTOR CALCULUS (MA201BS)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
MA201BS.1	Solve partial differential equations and apply them to physical systems
MA201BS.2	Apply Fourier series and transforms to analyze periodic functions and signals
MA201BS.3	Use Z-transforms and Laplace transform for solving difference and differential equations
MA201BS.4	Understand complex analysis and apply contour integration techniques
MA201BS.5	Model engineering problems using mathematical tools and interpret results effectively

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
MA201BS.1	3	3	2	2								
MA201BS.2	3	3		2								
MA201BS.3	3		3	3								
MA201BS.4	3	3	3									
MA201BS.5	3	3	3	3								
<b>Average</b>	<b>3</b>	<b>3</b>	<b>2.7</b>	<b>2.5</b>								

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: ELECTRONIC DEVICES AND CIRCUITS (EC205ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
EC205ES.1	Understand the characteristics and operation of semiconductor devices such as diodes and transistors.
EC205ES.2	Analyze and design basic electronic circuits including rectifiers, amplifiers, and voltage regulators.
EC205ES.3	Apply biasing techniques and small signal models to evaluate transistor performance in analog circuits.
EC205ES.4	Use simulation tools to model and analyze electronic circuits for performance and reliability.
EC205ES.5	Demonstrate teamwork, documentation, and ethical responsibility in electronic circuit design projects.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
EC205ES .1	3	2	2	1								1
EC205ES .2	3	3	3	2					1			1
EC205ES .3	3	3	3	2					1			2
EC205ES .4	3	3	3	3					1			2
EC205ES .5	3	2	3	2					2			2
<b>Average</b>	<b>3</b>	<b>2.6</b>	<b>2.8</b>	<b>2</b>					<b>1.3</b>			<b>1.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: PYTHON PROGRAMMING LABORATORY (CS206ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS206ES.1	Understand the basic syntax, control structures, and data types in Python programming.
CS206ES.2	Apply functions, modules, and exception handling to develop modular Python programs.
CS206ES.3	Implement file handling, regular expressions, and data structures for solving real-world problems.
CS206ES.4	Develop Python programs using object-oriented programming concepts and standard libraries.
CS206ES.5	Demonstrate teamwork, documentation, and ethical practices in software development using Python.

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS206ES.1	3	2	2	2							2	3
CS206ES.2	3	3	3	2							2	3
CS206ES.3	3			2							2	3
CS206ES.4	2	2	2	2							2	
CS206ES.5	2	2	2	2							2	
<b>Average</b>	<b>2.6</b>	<b>2.2</b>	<b>2.2</b>	<b>2</b>							<b>2</b>	<b>3</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: IT WORKSHOP (CS209ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS209ES.1	Identify and use basic computer hardware and software tools
CS209ES.2	Create and format documents, spreadsheets, and presentations using office tools
CS209ES.3	Develop basic web pages using HTML and CSS
CS209ES.4	Use productivity tools and internet resources for academic and professional tasks
CS209ES.5	Demonstrate teamwork, communication, and documentation skills in lab activities

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS209ES.1	3	2	2		2				2			2
CS209ES.2	3	3	3		2				1			2
CS209ES.3	3	2	2		2				1			1
CS209ES.4	2	2	2		2				3			1
CS209ES.5	1	1	2		2				2			2
<b>Average</b>	<b>2.4</b>	<b>2</b>	<b>2.2</b>		<b>2</b>				<b>1.8</b>			<b>1.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: PROGRAMMING FOR PROBLEM SOLVING LABORATORY (CS208ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS208ES.1	Implement, compile and debug programs in C language for solving a problem
CS208ES.2	Design programs involving decision structures, loops for problem solving
CS208ES.3	Design programs to develop applications using array data structure
CS208ES.4	Apply functions to solve real world problems
CS208ES.5	Make use of pointers to design applications with efficient use of memory

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS208ES .1	3	3	3	3	3					3		3
CS208ES .2	2	3	2	3	3					2		3
CS208ES .3	2	3	2	3	3					2		2
CS208ES .4	3	3	3	3	3					3		2
CS208ES .5	3	2	3	2	2					3		3
<b>Average</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>					<b>2.6</b>		<b>2.6</b>

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## Department of Basic Science & Humanities

AY: 2024-25

### I-B.Tech II Semester (VR24 Regulation)

#### SUBJECT: BASIC ELECTRICAL ENGINEERING LABORATORY (CS209ES)

After going through this course, the student gets a thorough knowledge on

#### COURSE OUTCOMES:

S.No.	COURSE OUTCOMES
CS209ES.1	Study different meters and instruments for measurement of electrical quantities
CS209ES.2	Study the linear and nonlinear characteristics of different types of loads experimentally
CS209ES.3	Design and experiment potential divider circuits
CS209ES.4	Experimentally verify the basic circuit theorems
CS209ES.5	Measure power and power factor in ac circuits

#### MAPPING:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CS209ES .1	2	3	2	2		2	2		2	2		3
CS209ES .2	3	3	2	3		2	2		2	2		3
CS209ES .3	3	3	3	2		2	2		2	2		2
CS209ES .4	3	2	3	3		2	2		2	2		3
CS209ES .5	3	2	2	3		2	3		2	2		2
<b>Average</b>	<b>2.8</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>		<b>2</b>	<b>2.2</b>		<b>2</b>	<b>2</b>		<b>2.6</b>

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