

**Department of Electrical Engineering**  
**Session-2022-23**  
**All Courses COs and CO-PO/PSO Mapping including 1<sup>st</sup> Year courses**

Course Code:	C101 Name of the Course: Mathematics –I													
	<b>Course Outcome Statements (Students will be able to)</b>													
C101.1	Apply the knowledge of calculus for analyzing Engineering problems													
C101.2	Solve first and second order differential equation using standard method and application to electrical circuits													
C101.3	Obtain series solution of differential equation													
C101.4	Apply Laplace Transformation to find complete solution to ordinary differential equation													
<b>CO-PO/PSO Mapping</b>														
<b>CO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C101.1	2	1	-	-	-	-	-	-	-	-	-	-	-	-
C101.2	3	2	-	2	-	-	-	-	-	-	-	-	-	-
C101.3	-	-	-	2	-	-	-	-	-	-	-	-	-	-
C101.4	3	-	-	2	-	-	-	-	-	-	-	-	-	-

Course Code:	C102 Name of the Course: Physics													
	<b>Course Outcome Statements (Students will be able to)</b>													
C102.1	Understand various types of oscillations and their amplification, the role of shock waves in various fields and recognize the elastic properties of materials for engineering applications.													
C102.2	Realise the interaction between time varying electric field and magnetic field, the transverse nature of electromagnetic waves and analyze the intensity variation of light due to interference and diffraction and role of optical fiber in communication.													
C102.3	Understand various crystal systems, concepts of fermions and bosons with their distributions functions and study the classification of materials in terms of band theory.													
C102.4	Compute eigen values, eigen function, momentum of atomic and subatomic particles using time independent one-dimensional Schrodinger wave equation and apprehend theoretical background of laser, construction and working of different types of laser and it's application.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C102.1	3	2	2	2	1	1	1	1	1	2	1	2	2	2
C102.2	3	2	3	2	1	1	1	2	1	1	2	2	2	2
C102.3	3	2	3	2	1	2	1	1	1	1	1	2	2	2
C102.4	3	2	2	3	2	1	1	1	2	2	1	2	2	2

Course Code:	C103 Name of the Course: Basic Electrical Engineering													
	<b>Course Outcome Statements (Students will be able to)</b>													
C103.1	Implement principles of DC network, theorems.													
C103.2	Analyze the concept of Single phase and three phase AC circuits.													
C103.3	Express the concept of magnetic circuit and DC machines.													
C103.4	Apply basic working principles of AC machines and Power Systems.													
<b>CO-PO/PSO Mapping</b>														
<b>CO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C103.1	3	3	2	1	1	2	1	-	-	-	-	1	3	1
C103.2	3	3	2	1	1	2	1	-	-	-	-	1	3	1
C103.3	3	3	2	1	1	2	1	-	-	-	-	1	3	1
C103.4	3	3	2	1	1	2	1	-	-	-	-	1	3	1

Course Code:	C104 Name of the Course: Basic Mechanical Engineering <b>Course Outcome Statements (Students will be able to)</b>													
C104.1	To understand fundamental understanding of terms related to thermodynamic systems, laws and properties of pure substances.													
C104.2	To obtain knowledge about application of wide range of thermodynamic systems.													
C104.3	To acquire concept about power transmission through flexible drive (Belt drive), positive drive (Gear drive) and robots													
C104.4	Able to know about the working of mechanical measurement devices													
<b>CO-PO/PSO Mapping</b>														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C104.1	3	2	-	1	-	-	1	-	-	-	-	2	3	1
C104.2	3	3	2	1	-	2	1	-	-	-	-	2	3	2
C104.3	3	3	3	3	2	2	-	-	-	-	-	-	3	1
C104.4	3	2	2	2	1	-	-	-	-	-	-	-	2	2

Course Code:	C105 Name of the Course: Communicative English <b>Course Outcome Statements (Students will be able to)</b>													
C105.1	Understand the process, basic factors & types of communication, knowledge about fundamental concepts in English grammar and its rectification.													
C105.2	Identify the concepts of pronunciation, syllable division, stress, intonation, problem sounds and its application.													
C105.3	Enhance communication in a culturally diverse workforce, addressing biases and creating polished business documents for effective written communication.													
C105.4	Develop comprehensive workplace communication skills, encompassing impactful presentations, interview techniques, team management, leadership, group discussions, and public speaking.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C105.1	-	-	-	1	-	2	2	1	2	2	1	2	-	-
C105.2	-	-	-	1	-	1	1	-	1	1	1	2	--	-
C105.3	-	-	-	3	-	3	3	2	2	3	3	3	-	-
C105.4	-	-	-	2	-	3	2	3	3	2	3	2	-	-

Course Code:	C106 Name of the Course: Physics Lab <b>Course Outcome Statements (Students will be able to)</b>													
C106.1	Apprehend the concepts of interference of light, diffraction.													
C106.2	Understand the principles of operations of semiconductor devices such as PN-Junction, PNP transistor and RC circuit using simple circuits.													
C106.3	Determine elastic moduli of given material, surface tension of liquid and acceleration due to gravity with the help of suggested procedures.													
C106.4	Recognize the resonance concept and its applications and understand the importance of measurement procedure, honest recording, representing the data, reproduction of final results.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C106.1	3	3	2	1	3	1	1	1	3	2	1	1	2	2
C106.2	3	3	2	1	3	1	1	1	3	2	1	1	2	2
C106.3	3	3	2	1	3	1	1	1	3	2	1	1	2	2
C106.4	3	3	2	1	3	1	1	1	3	2	1	1	2	2

Course Code:	C107 Name of the Course: Basic Electrical Engineering Lab <b>Course Outcome Statements (Students will be able to)</b>													
C107.1	Express the safety rules as per ISS and symbols of different electrical components and the use of various electrical instruments in the laboratory.													
C107.2	Demonstrate the working and operational characteristics of dc motor and dc generator.													
C107.3	Evaluate the voltage, current, power and power factor of choke coil and study BH curve of a ferromagnetic core.													
C107.4	Measure armature and field resistance of DC machines, earth resistance and insulation resistance and demonstrate the internal structure of different machines.													
C107.5	Analyze the connection and calibration of single-phase energy meter													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C107.1	3	3	2	1	3	2	-	-	-	-	-	1	2	2
C107.2	3	3	2	1	3	2	-	-	-	-	-	1	2	2
C107.3	3	3	2	1	3	2	-	-	-	-	-	1	2	2
C107.4	3	3	2	1	3	2	-	-	-	-	-	1	2	2
C107.5	3	3	2	1	3	2	-	-	-	-	-	1	2	2

Course Code:	C108 Name of the Course: Basic Mechanical Engineering Lab <b>Course Outcome Statements (Students will be able to)</b>													
C108.1	Illustrate the basic concepts of refrigeration system and thermal power plant													
C108.2	Identify the different parts of the automobile													
C108.3	To understand the construction and working principles of 2 stroke and 4 stroke I.C. engines using petrol and diesel													
C108.4	To understand the concept of power transmitting devices													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C108.1	2	3	1	2	2	3	2	-	-	-	-	-		
C108.2	2	3	2	2	1	2	3	-	-	3	1	-		
C108.3	3	3	2	2	1	2	-	2	-	2	3	-		
C108.4	3	2	3	2	1	2	1	-	1	2	1	-		

Course Code:	C109 Name of the Course: Engineering Graphics & Design Lab/Workshop <b>Course Outcome Statements (Students will be able to)</b>													
C109.1	To know the importance of technical drawings													
C109.2	To draw views in different planes of projections													
C109.3	Become fully aware of developing the surfaces after cutting of solids													
C109.4	The different positions of points and their projections													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C109.1	3	2	3	1	1	2	1	-	-	-	-	-		
C109.2	3	2	3	1	1	2	3	-	-	2	2	-		
C109.3	3	2	3	1	3	2	-	3	-	1	3	-		
C109.4	3	2	3	1	1	1	1	-	1	1	1	-		

Course Code:	C110 Name of the Course: English Language Lab <b>Course Outcome Statements (Students will be able to)</b>													
C110.1	Understand and apply the sounds of English with precision, using correct stress, tone, and rhythm in listening, speaking, reading, and writing contexts.													
C110.2	Develop proficiency in communication through presentations, role-play, and one-on-one interactions, emphasizing word accent, intonation, and rhythm for improved pronunciation and increased vocabulary.													
C110.3	Equip students with the ability to use language effectively in professional scenarios such as interviews, group discussions overcoming communication barriers for successful public speaking.													
C110.4	Acquire practical skills in resume/CV preparation, report writing, and format creation, enhancing overall writing abilities.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C110.1	-	-	-	1	-	1	1	1	2	2	1	2	-	-
C110.2	-	-	-	1	-	1	1	-	1	2	1	1	-	-
C110.3	-	-	-	2	-	3	2	2	1	1	2	3	-	-
C110.4	-	-	-	2	-	2	2	2	2	2	1	1	-	-

Course Code:	C111 Name of the Course: Mathematics –II <b>Course Outcome Statements (Students will be able to)</b>													
C111.1	Apply the knowledge of matrix algebra for solving system of linear equations and compute the inverse of matrices and to develop the essential tool of matrices to compute the eigen values and eigen vectors													
C111.2	Illustrate the concept of vector differential calculus to understand the solenoidal and irrotational vectors													
C111.3	Illustrate the concept of vector integral calculus and exhibit the inter dependence of line, surface and volume integrals													
C111.4	Know the use of periodic functions and Fourier series, Fourier Integral, Fourier Transform for analyzing circuit and system communications.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C111.1	2	3	1	2	2	3	-	-	-	-	-	2	-	-
C111.2	2	3	-	-	2	-	-	-	-	-	-	2	-	-
C111.3	-	-	3	2	2	-	-	-	-	-	-	-	-	-
C111.4	-	-	3	2	3	-	-	-	-	-	-	-	-	-

Course Code:	C112 Name of the Course: Engineering Mechanics <b>Course Outcome Statements (Students will be able to)</b>													
C112.1	To improve the ability of describing objects in static equilibrium including determination of forces, reaction forces, and moments, also to enrich the fundamental concept of friction.													
C112.2	To assimilating the knowledge for the determination of centroid, and second moment of area of different sections, and their applications.													
C112.3	To analyze the work done by forces, and subsequent energy transferred from one object to other, and application of work-energy conservation principle for realistic (/Practical) engineering problems.													
C112.4	To identify the various parameters associated with projectile motion, and application of the principle of dynamics to analyze the curvilinear motion of rigid bodies.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C112.1	3	3	1	2	1	-	2	-	-	-	3	1	3	2
C112.2	3	3	2	2	2	2	-	-	-	1	2	1	3	2
C112.3	3	1	3	2	1	3	1	-	-	-	1	-	2	1
C112.4	3	2	3	2	2	1	-	-	-	1	2	1	3	2



Course Code:	C116 Name of the Course: Programming for Problem Solving using C <b>Course Outcome Statements (Students will be able to)</b>													
C116.1	Understanding Syntax and structure of c programming language to develop efficient code to solve real world problems.													
C116.2	Apply conditional branching and iterative statements to control the sequence of program.													
C116.3	Decompose a problem into functions to implement code reusability.													
C116.4	Develop programs using pointer, structure and implement various searching and sorting techniques for a list of items.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C116.1	3	2	2	1	-	-	1	-	-	-	2	3	-	-
C116.2	3	2	-	1	-	-	1	-	-	-	2	3	-	-
C116.3	3	2	2	-	-	-	1	-	-	-	2	3	-	-
C116.4	2	2	2	1	-	-	1	-	-	-	2	3	-	-

Course Code:	C117 Name of the Course: Chemistry Lab <b>Course Outcome Statements (Students will be able to)</b>													
C117.1	Understand and know requirements specification of Quality of water.													
C117.2	Understand to find the strength of any solution and amount of ferrous present in a solution.													
C117.3	Estimation D.O. , % of Chlorine in Bleaching power and different alkalinity in a given sample.													
C117.4	Able to know the quality of lubricant oil & basic knowledge of preparation of drugs.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C117.1	3	3	3	-	1	-	-	-	-	-	-	3	-	-
C117.2	3	3	3	-	2	-	-	-	-	-	-	3	-	-
C117.3	3	3	3	-	1	-	-	-	-	-	-	3	-	-
C117.4	3	2	1	-	-	-	-	-	-	-	-	3	-	-

Course Code:	C118 Name of the Course: Basic Electronics Engineering Lab <b>Course Outcome Statements (Students will be able to)</b>													
C118.1	Acquire basic knowledge on electronic devices and components.													
C118.2	Design different electronics circuits using semiconductor diodes, BJTs and FETs and analyze their characteristics.													
C118.3	Implement operational amplifier circuits.													
C118.4	Acquire knowledge on basic digital logic gates and implement digital circuits using universal gates.													
C118.5	Analyse and develop the characteristics of BJTs and FETs circuits.													
<b>CO-PO/PSO Mapping</b>														
CO Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C118.1	3	3	2	3	3	2	1	1	3	3	1	1	2	2
C118.2	3	3	2	3	3	2	1	1	3	3	1	1	2	2
C118.3	3	3	2	3	3	2	1	1	3	3	1	1	2	2
C118.4	3	3	2	3	3	2	1	1	3	3	1	1	2	2
C118.5	3	3	2	3	3	2	1	1	3	3	1	1	2	2

Course Code:	C119 Name of the Course: Basic Civil Engineering Lab <b>Course Outcome Statements (Students will be able to)</b>													
C119.1	Able to know the different instrument operations in civil engineering work.													
C119.2	Able to understand properties & tests on Brick.													
C119.3	Able to understand the concept of linear and angular measurement.													
C119.4	Able to test on concrete for analyzing quality of materials.													
C119.5	Able to understand properties and tests on cement.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C119.1	3	1	1	-	-	-	-	-	-	-	-	1	2	3
C119.2	2	2	3	-	-	-	-	-	-	-	-	1	2	3
C119.3	3	2	1	-	-	-	-	-	-	-	-	1	2	3
C119.4	2	2	1	-	-	-	-	-	-	-	-	1	2	3
C119.5	3	3	2	-	-	-	-	-	-	-	-	1	2	3

Course Code:	C120 Name of the Course: Workshop <b>Course Outcome Statements (Students will be able to)</b>													
C120.1	To understand about various manufacturing process and different machines.													
C120.2	Follow various safety precautions and use of various hand tools.													
C120.3	Demonstrate the process configuration and basic mechanism of different machines like Lathe, shaper and milling.													
C120.4	Prepare a job with a given dimension with the help of machines and welding practice.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C120.1	2	3	3	2	-	2	1	-	2	-	-	3	-	-
C120.2	3	2	3	1	1	2	3	-	-	2	2	-	-	-
C120.3	2	3	3	1	3	2	-	3	-	1	2	2	-	-
C120.4	3	2	3	1	2	1	3	-	1	1	1	-	-	-

Course Code:	C121 Name of the Course: Programming for Problem Solving using C Lab <b>Course Outcome Statements (Students will be able to)</b>													
C121.1	Develop C Programs for simple applications making use of basic constructs.													
C121.2	Develop C Programs for simple applications using Arrays and Function.													
C121.3	Develop C Programs involving Functions, Recursion and Pointers.													
C121.4	Develop C Programs involving structures.													
C121.5	Design applications using sequential and Random access file processing.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C121.1	3	3	3	1	1	2	-	-	-	-	-	2	2	2
C121.2	3	3	3	1	1	2	-	-	-	-	-	2	2	2
C121.3	3	3	3	1	1	2	-	-	-	-	-	2	2	2
C121.4	3	3	3	1	1	2	-	-	-	-	-	2	2	2
C121.5	3	3	3	1	1	2	-	-	-	-	-	2	2	2

Course Code:	C201 Name of the Course: Engineering Economics <b>Course Outcome Statements (Students will be able to)</b>													
C201.1	Learn the basic concepts of microeconomic theories and macroeconomic practices in determining the prices of products at different demand and supply positions and their significance in decision-making.													
C201.2	Understand the quantitative effects of changes in cost and revenue on the production of a product and its supply to the market in both periods.													
C201.3	May apply the knowledge of economic theories and principles to solve the discriminations in determining the price of the product and quantity to be sold to earn an expected level of profit.													
C201.4	Analyze the financial systems and subsystems of the country and their impact on the evaluation of business enterprises, engineering projects, and the available alternatives in considering depreciation, taxation, and inflation in society.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C201.1	2	2	2	-	2	-	-	2	-	-	3	2	1	-
C201.2	2	-	1	-	1	-	-	-	-	-	2	-	-	1
C201.3	-	-	-	2	3	-	-	-	-	-	-	-	1	-
C201.4	-	2	3	-	-	-	2	-	-	-	2	-	-	1

Course Code:	C203 Name of the Course: Evaluation of Internship – I <b>Course Outcome Statements (Students will be able to)</b>													
C203.1	To excel in career growth prior to Graduation courses													
C203.2	To correlate the theory to the need of the industrial environment													
C203.3	To judge one's interest and capabilities treating these as a challenge to work anywhere in the industrial scenario.													
C203.4	To develop a spirit of positive attitude and appreciate the work culture for ultimate success.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C203.1	3	3	3	3	3	-	-	-	-	-	-	3	3	3
C203.2	3	3	3	3	3	-	3	-	-	-	-	2	3	3
C203.3	3	3	3	3	3	-	2	-	-	-	-	3	3	3
C203.4	3	3	3	2	-	3	2	-	-	-	-	2	3	3

Course Code:	C204 Name of the Course: Mathematics – III <b>Course Outcome Statements (Students will be able to)</b>													
C204.1	Apply interpolation technique for numerical differentiation and integration and understand concepts of errors associated with them													
C204.2	Understand and apply the quadrature formulae for numerical integration and concepts of errors associated with them													
C204.3	Verify the function as probability mass and density function and to use probability distributions in solving physical and engineering problems.													
C204.4	Determine the defectiveness in items / products using probability distributions													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C204.1	2	-	-	-	-	1	1	-	-	-	-	-	-	-
C204.2	-	-	-	-	-	1	2	-	-	-	-	-	-	-
C204.3	2	2	-	-	-	-	-	-	-	-	-	-	-	-
C204.4	-	-	-	-	-	1	1	-	-	-	-	-	-	-



Course Code:	C205 Name of the Course: Object Oriented Programming Using JAVA <b>Course Outcome Statements (Students will be able to)</b>													
C205.1	Understand the concept of Object oriented Programming to solve real world problems.													
C205.2	Use the concept of class and object with access control to represent real world entity													
C205.3	Develop multithreaded application and handle Exceptions to avoid abnormal termination of program													
C205.4	Understand the process of Graphical User Interface (GUI) design and implementation Using AWT and swing.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C205.1	3	2	2	2	1	-	-	-	2	-	2	2	-	-
C205.2	3	2	2	2	2	-	-	-	2	-	2	2	-	-
C205.3	3	2	3	2	3	-	-	-	2	-	2	2	-	-
C205.4	3	2	3	2	3	-	-	-	2	-	2	1	-	-

Course Code:	C206 Name of the Course: OOP Using JAVA Lab <b>Course Outcome Statements (Students will be able to)</b>													
C206.1	Develop program based on control statements, array, dynamic array, etc.													
C206.2	Apply OOP concepts of Java for problem solving.													
C206.3	Apply multithreading and exception handling.													
C206.4	Apply the concepts of Java Files, collections and database in real time problem solving													
C206.5	Design GUI applications using AWT(Event Handling),Swing components, applets.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C206.1	3	3	2	3	2	-	-	-	-	-	-	2	2	-
C206.2	3	3	2	3	1	-	-	-	-	-	-	2	3	3
C206.3	3	3	2	3	2	-	-	-	-	-	-	2	1	3
C206.4	3	3	-	3	3	-	-	-	-	-	-	2	2	3
C206.5	3	3	2	3	2	-	-	-	-	-	-	2	2	3

Course Code:	C207 Name of the Course: Organizational Behaviour <b>Course Outcome Statements (Students will be able to)</b>													
C207.1	To learn and identify the basic concepts of OB, the Relationship between OB and the individual, Theoretical framework (cognitive), behavioristic and social (cognitive) in establishing the rapport Organization.													
C207.2	Students will be able to identify the components of individual behavior and apply the concept of Attitude, personality and perception													
C207.3	The students will be able to analyze behavior of individuals and groups in organizations in terms of the key factors that influence organizational behavior and demonstrate skills required for working in groups(Team Building)													
C207.4	To analyze the Organizational Culture and forces that stimulates change in the Concept of Workplace Spirituality in applying learning Culture in the Organization.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C207.1	-	-	-	-	-	-	-	2	2	2	-	-	1	-
C207.2	-	-	1	-	-	2	-	2	2	-	2	-	1	-
C207.3	-	-	-	-	-	-	-	-	2	-	3	-	1	-
C207.4	-	-	-	-	-	2	-	-	-	-	2	-	1	-



Course Code:	C212 Name of the Course: Analog Electronic Circuits Lab <b>Course Outcome Statements (Students will be able to)</b>													
C212.1	Design and analysis of CE, CB, CC amplifiers using small signal h-model and Tmodel and derivation of voltage gain, current gain, input impedance.													
C212.2	Design and analysis of RC coupled single stage and multi-stage amplifiers and their frequency response and the effect of coupling and by pass capacitors in amplifiers.													
C212.3	Design and analysis of common source FET/MOSFET amplifiers and its frequency response.													
C212.4	Design and analysis of negative feedback amplifiers, oscillators.													
C212.5	Design and analysis of different types of power amplifiers.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C212.1	3	3	3	2	3	1	1	1	2	3	1	1	2	2
C212.2	3	3	3	2	3	1	1	1	2	3	1	1	2	2
C212.3	3	3	3	2	3	1	1	1	2	3	1	1	2	2
C212.4	3	3	3	2	3	1	1	1	2	3	1	1	2	2
C212.5	3	3	3	2	3	1	1	1	2	3	1	1	2	2

Course Code:	C213 Name of the Course: Digital Electronics <b>Course Outcome Statements (Students will be able to)</b>													
C213.1	Understand working of logic families and logic gates.													
C213.2	Analyze Combinational and Sequential logic circuits.													
C213.3	Understand the process of Analog to Digital conversion and Digital to Analog conversion.													
C213.4	Understand the use of PLDs to implement the given logical problem.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C213.1	3	2	2	2	-	-	-	-	-	-	-	2	2	3
C213.2	3	2	2	-	-	-	-	-	-	-	-	2	2	3
C213.3	3	-	2	2	-	-	-	-	-	-	-	2	2	3
C213.4	3	2	2	2	-	-	-	-	-	-	-	2	2	3

Course Code:	C214 Name of the Course: Electrical Machines-I <b>Course Outcome Statements (Students will be able to)</b>													
C214.1	Understand the concepts of magnetic field and magnetic circuits													
C214.2	Understand the principle of operation of dc machines.													
C214.3	Analyse the different characteristic and testing of DC Machine.													
C214.4	Analyse the performance of single phase and three phase transformers													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C214.1	3	2	-	2	-	2	1	-	-	-	-	2	3	1
C214.2	3	3	-	2	-	3	2	-	-	-	-	2	3	3
C214.3	3	2	-	3	-	2	2	-	-	-	-	2	3	3
C214.4	3	2	-	2	-	2	2	-	-	-	-	2	3	3





Course Code:	C301 Name of the Course: Evaluation of Summer Internship – II <b>Course Outcome Statements (Students will be able to)</b>													
C301.1	To excel in career growth prior to Graduation courses													
C301.2	To correlate the theory to the need of the industrial environment													
C301.3	To judge one’s interest and capabilities treating these as a challenge to work anywhere in the industrial scenario.													
C301.4	To develop a spirit of positive attitude and appreciate the work culture for ultimate success.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C301.1	3	3	3	3	3	-		-	-	-	-	3	3	3
C301.2	3	3	3	3	3	-	3	-	-	-	-	2	3	3
C301.3	3	3	3	3	3	-	2	-	-	-	-	3	3	3
C301.4	3	3	3	2		3	2	-	-	-	-	2	3	3

Course Code:	C303 Name of the Course: Artificial Intelligence and Machine Learning <b>Course Outcome Statements (Students will be able to)</b>													
C303.1	Demonstrate Ability to comprehend AI and Expert System to analyze and map real world activities to digital world.													
C303.2	Ability to identify problems that are amenable solved by AI methods.													
C303.3	Ability to Acting under Uncertainty, Representing Knowledge in an Uncertain Domain.													
C303.4	Explain Explanation-based Learning, Discovery, Analogy, Formal Learning Theory, Neural Net Learning and Genetic Learning. Expert Systems: Representing and Using Domain Knowledge, Expert System.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C303.1	3	2	2	2	1	-	-	-	2	-	2	2	1	1
C303.2	3	2	2	2	2	-	-	-	2	-	2	2	1	1
C303.3	3	2	3	2	3	-	-	-	2	-	2	2	1	1
C303.4	3	2	3	2	3	-	-	-	2	-	2	1	1	1

Course Code:	C304 Name of the Course: Future Ready Contributor Program <b>Course Outcome Statements (Students will be able to)</b>													
C304.1	Improve the employability of students by giving them the right work ethic and thinking that employers are looking for contributors and not just workers.													
C304.2	Build their confidence and career-worthiness with which they can develop into future-ready contributors with ability to navigate a career in a volatile world.													
C304.3	Improve their ability to engage better in the workplace and to apply contributor thinking to real-world or career relevant challenges.													
C304.4	Empower technical professionals to broaden career options and create opportunities, encouraging them to contribute positively to their communities and state.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C304.1	-	-	-	2	1	1	2	3	2	1	1	2		
C304.2	-	-	-	1	1	1	3	2	2	2	1	2		
C304.3	-	-	-	1	2	2	1	3	3	1	1	3		
C304.4	-	-	-	1	1	2	2	1	2	1	1	1		



Course Code:	C309 Name of the Course: Control System <b>Course Outcome Statements (Students will be able to)</b>													
C309.1	Understand the mathematical model of the physical systems and analyze the response of the closed and open loop systems.													
C309.2	Analyze the various time responses and frequency responses to check the stability of the systems.													
C309.3	Learn the features of different types of compensators and to design compensators using time-domain and frequency domain specifications.													
C309.4	Understand the concept of state variables for evaluating the transfer function of discrete-time systems.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C309.1	3	2	2	2	-	-	-	-	-	-	-	-	2	3
C309.2	2	3	2	2	-	-	-	-	-	-	-	-	2	2
C309.3	2	2	3	2	-	-	-	-	-	-	-	-	2	3
C309.4	2	3	2	2	-	-	-	-	-	-	-	-	2	2

Course Code:	C310 Name of the Course: Electrical Machines-II <b>Course Outcome Statements (Students will be able to)</b>													
C310.1	Relate and identify different types windings for the generation of various magnetic fields, as well as understand and analyses the concept of revolving magnetic field.													
C310.2	Understand the basic concept of Three-phase and single-phase induction motor and its torque slip characteristics													
C310.3	Explain the basic concepts of Synchronous Machines, construction, EMF equation and armature reaction													
C310.4	Understand the concept of two reaction theory and performance analysis of synchronous Motor													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C310.1	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C310.2	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C310.3	3	3	2	2	-	-	-	-	-	-	-	-	3	2
C310.4	3	3	3	2	-	-	-	-	-	-	-	-	3	2

Course Code:	C311 Name of the Course: Electric Power Transmission and Distribution Lab <b>Course Outcome Statements (Students will be able to)</b>													
C311.1	Students are able understand the ABCD parameters and Ferranti Effect													
C311.2	Able compute string efficiency and earth resistance													
C311.3	Able to test quality of transformer oil Able to understand various lightning arrester													
C311.4	Students are able understand corona discharge.													
C311.5	Fault analysis in the line													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C311.1	2	2		1		3	1	-	-	-	2	-	3	3
C311.2	3	3		2		3	2	-	-	-	2	-	2	3
C311.3	2	2		1		3	2	-	-	-	2	-	3	3
C311.4	1	1		1		1	2	-	-	-	1	-	2	2
C311.5	3	3		2		2	3	-	-	-	2		3	3



Course Code:	C312 Name of the Course: Control and Instrumentation Lab <b>Course Outcome Statements (Students will be able to)</b>													
C312.1	To apply the control strategies through controlling devices.													
C312.2	Analyze the response of control system by measuring relevant parameters													
C312.3	Demonstrate the knowledge of simulation tools for control system design													
C312.4	Acquire practical concept and application of various transducers in the field of industrial automation.													
C312.5	Able to design Controllers using MATLAB Software													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C312.1	2	3	3	3	-	-	-	-	2	-	-	-	3	3
C312.2	3	3	2	3	-	-	-	-	2	-	-	-	3	3
C312.3	2	2	2	3	-	-	-	-	2	-	-	-	3	3
C312.4	3	2	2	2	-	-	-	-	2	-	-	-	3	3
C321.5	3	3	3	3	-	-	-	-	2	-	-	-	3	3

Course Code:	C313 Name of the Course: Electrical Machines Lab – II <b>Course Outcome Statements (Students will be able to)</b>													
C313.1	Understand the different Starting and speed control methods of 3-Phase Induction Motor.													
C313.2	Perform no-load and blocked rotor test to analyse the performance of 3-Phase Induction Motor.													
C313.3	Determine equivalent circuit parameters of an alternator and also its voltage regulation by different methods.													
C313.4	Perform the synchronization of an alternator to infinite bus and control load sharing.													
	Analyze the behavior of Synchronous motor at different loading conditions using V and inverted V curve.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C313.1	3	3	3	3	3	-	-	-	-	1	-	3	3	3
C313.2	3	3	3	3	3	-	-	-	-	1	-	3	2	2
C313.3	3	3	3	3	3	-	-	-	-	1	-	3	3	3
C313.4	3	3	3	3	3	-	-	-	-	1	-	3	2	2
C313.5	3	3	3	3	3	-	-	-	-	1	-	3	3	3

Course Code:	C314 Name of the Course: Electrical Machine Design <b>Course Outcome Statements (Students will be able to)</b>													
C314.1	To understand the constructional features, protection and the concepts of optimal design of transformer to ensure its best operation													
C314.2	CO2: Realise the effects of various performance parameters for optimal design of armature, field system & commutator and brushes													
C314.3	Application. and selection of appropriate parameters for optimal rotor design of three phase induction motor.													
C314.4	CO4: To design both stator and rotor and analyse the performance characteristics of various classes of synchronous machines													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C314.1	3	3	3	2	-	2	2	2	-	-	3	-	3	3
C314.2	3	3	3	2	-	-	2	2	-	-	2	-	3	3
C314.3	3	3	3	3	-	-	2	2	-	-	3	-	3	3
C314.4	3	3	3	3	-	-	2	2	-	-	3	-	3	3





Course code	C401 Name of the Course: Entrepreneurship Development <b>Course Outcome Statements (Students will be able to)</b>													
C401.1	Understanding the nature of entrepreneurship and being able to foster an entrepreneurial culture.													
C401.2	Create and design strategies for the successful implementation of ideas.													
C401.3	Analyze the role of agencies in the promotion of entrepreneurship in the country.													
C401.4	Assess the constraints to overcome the risks from failure due to sickness and the role of Banks and Governments in reviving the industries.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C401.1	1	1	-	2	-	-	2	-	-	3	3	-	-	1
C401.2	-	-	2	-	-	-	1	2	-	2	2	-	-	1
C401.3	-	-	-	2	-	-	3	-	3	2	3	-	-	1
C401.4	-	2	3	-	-	-	-	-	-	-	3	-	-	1

Course code	C402 Name of the Course: Green Technology <b>Course Outcome Statements (Students will be able to)</b>													
C402.1	To present different concepts of green technologies.													
C402.2	To acquire principles of Energy efficient technologies.													
C402.3	To impart knowledge on the methods of reducing CO2 levels in atmosphere.													
C402.4	To learn the importance of green fuels and its impact on environment													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C402.1	2	-	3	2	-	2	1	-	-	-	-	-	2	2
C402.2	1	-	-	3	-	-	1	-	-	-	-	-	1	1
C402.3	1	-	2	-	-	2	1	-	-	-	-	-	1	1
C402.4	2	-	-	3	-	2	1	-	-	-	-	-	2	2

Course code	C404 Name of the Course: Minor Project <b>Course Outcome Statements (Students will be able to)</b>													
C404.1	Define problem and suggest a feasible, cost effective, ecofriendly solution for the benefit of the society													
C404.2	Discuss the relation of the project to literature and engineering knowledge													
C404.3	Demonstrate properly to complete the project within the scheduled time													
C404.4	Analyse project with proper methodology and team spirit													
C404.5	Evaluate and validate the project													
C404.6	Generate thesis/project report as per the standard norm													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C404.1	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C404.2	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C404.3	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C404.4	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C404.5	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C404.6	3	3	2	3	3	1	2	1	3	3	3	3	2	3

Course code	C405 Name of the Course: Seminar-II <b>Course Outcome Statements (Students will be able to)</b>													
C405.1	Outline the topics on modern Technology, Prepare implementation of the same as the presentation													
C405.2	Understanding the technologies used by extracting the new things to be implemented by reviewing the journals/research papers													
C405.3	Sketch the application of the technology for the use of mankind													
C405.4	Analyse and correlate the new technology with the subject of interest for further study													
C405.5	Evaluate, plan and reframe the technology with the communication skills for a better explanation and presentation													
C405.6	Modify and design the concept into the realistic world.													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C405.1	2	3	2	2	1	1	1	1	1	1	1	1	2	2
C405.2	2	3	2	2	1	1	1	1	1	1	1	1	2	2
C405.3	2	3	2	2	1	2	2	1	1	1	1	1	2	2
C405.4	2	3	2	2	1	1	1	1	1	1	1	1	2	2
C405.5	2	3	2	2	1	2	2	1	1	2	1	1	2	2
C405.6	2	3	2	2	1	2	2	1	1	2	1	1	2	2

Course code	C406 Name of the Course: Comprehensive viva <b>Course Outcome Statements (Students will be able to)</b>													
C406.1	Students will be able to recall and refresh fundamental concepts which they have learnt in previous semesters.													
C406.2	Students will be able to Improve the understanding of different subjects learnt in previous semesters.													
C406.3	Students will be able to enhance their interview facing skills													
C406.4	Students will be able to Improve the success rate in competitive examinations and higher education													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C406.1	3	2	2	1	-	-	-	-	-	-	-	3	2	2
C406.2	3	2	2	1	-	-	-	-	-	-	-	3		
C406.3	2	2	2	-	-	-	-	-	-	3	-	-	2	2
C406.4	3	2	2	-	-	-	-	-	-	3	-	3	2	

Course code	C407 Name of the Course: Major Project <b>Course Outcome Statements (Students will be able to)</b>													
C407.1	Define problem and suggest a feasible, cost effective, ecofriendly solution for the benefit of the society													
C407.2	Discuss the relation of the project to literature and engineering knowledge													
C407.3	Demonstrate properly to complete the project within the scheduled time													
C407.4	Analyse project with proper methodology and team spirit													
C407.5	Evaluate and validate the project													
C407.6	Generate thesis/project report as per the standard norm													
<b>CO-PO/PSO Mapping</b>														
<b>CO Code</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
C407.1	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C407.2	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C407.3	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C407.4	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C407.5	3	3	2	3	3	1	2	1	3	3	3	3	2	3
C407.6	3	3	2	3	3	1	2	1	3	3	3	3	2	3



