Course Name: C101 - HS8151 Communicative English

C101.1	Analyze articles of general kind magazines and newspapers.
C101.2	Take part in informal conversations and express opinions; introduce themselves and their friends and express opinions in English.
C101.3	Construct conversations and small talks delivered in English.
C101.4	Develop short essays of a general kind and personal letters and emails in English.
C101.5	Improve the knowledge of vocabulary and grammar skills related to communication.

Course Name: C102 - MA8151 Engineering Mathematics – I

C102.1	Apply the basics of Differentiation.
C102.2	Find the maxima & minima of functions.
C102.3	Identify some techniques in Integration.
C102.4	Relate the need of Integration to find Area and Volume.
C102.5	Solve differential equations using some techniques.

Course Name: C103 - PH8151 Engineering Physics

C103.1	Understand the basics of properties of matter and its applications
C103.2	Infer knowledge on concept of waves, optical devices and their application in fibre optics
C103.3	Understand the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers
C103.4	Infer knowledge on advanced physics concepts of quantum theory and its application in tunneling microscope
C103.5	Categorize the crystals based on their structure and gain knowledge about different crystal growth techniques

Course Name: C104 - CY8151 Engineering Chemistry

C104.1	Understand the boiler feed water requirements and propose suitable treatment methodologies to treat water.
C104.2	Identify and apply basic concepts of surface chemistry and catalysis for engineering and technology applications.
C104.3	Develop the knowledge of phase rule and alloys for material selection requirements.
C104.4	Recommend suitable fuels for engineering processes and applications.
C104.5	Understand the different forms of energy resources and apply them for suitable applications in energy sources.

Course Name: C105 - GE8151 Problem Solving and Python Programming

C105.1	Understand the working of computers.
C105.2	Construct the basics of Python Programming constructs.
C105.3	Realize the need of strings, list, and tuple.
C105.4	Design programs involving dictionaries and function.
C105.5	Develop simple programs using file concept and modules.

Course Name: C106 - GE8152 Engineering Graphics

C106.1	Discuss about conics and orthographic views of engineering components.
C106.2	Draw the projection of points, lines and planes.
C106.3	Classify solids and projection of solids at different positions.
C106.4	Show sectioned view of solids and development of surfaces.
C106.5	Draw isometric projection and perspective views of an object/solid.

Course Name: C107 - GE8161 Problem Solving and Python Programming Lab

C107.1	Explain, test, and solve simple Python programs.
C107.2	Design Python programs with conditionals and loops.
C107.3	Develop Python programs step-wise by defining functions and calling them.
C107.4	Extend Python lists, tuples and dictionaries for representing compound data.
C107.5	Analyze data from/to files in Python.

Course Name: C108 - BS8161 Physics and Chemistry Laboratory

C108.1	Understand the functioning of various physics Laboratory equipments
C108.2	Analyze the observed Laboratory data’s using graphical models
C108.3	Solve problems individually and collaboratively

C108.4	Analyze the quality of water samples with respect to their acidity, alkalinity and hardness
C108.5	Determine the amount of metal ions through volumetric and spectroscopic techniques

Course Name: C109 - HS8251 Technical English

C109.1	Adapt reading technical texts and write area- specific texts effortlessly.
C109.2	Adapt and comprehend lectures and talks in their area of Specialization successfully.
C109.3	Apply speaking appropriately and effectively in varied formal and informal contexts.
C109.4	Develop reports and winning job application
C109.5	Improve the knowledge of grammar related to technical writing and speaking

Course Name: C110 - MA8251 Engineering Mathematics – II

C110.1	Classify the basic concepts of Matrices and its properties.
C110.2	Identify the line, surface and volume integrals, Gradient, divergence and curl of a vector point function and related identities.
C110.3	Analyze the basics of analytic functions and conformal mapping.
C110.4	Explain the basics of Cauchy's integral formula and Application of residue theorem for evaluation of real integrals.
C110.5	Compare the Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.

Course Name: C111 - PH8253 Physics for Electronics Engineering

C111.1	Understand classical and quantum free electron theories and energy band structures
C111.2	Analyze the basics of semiconductor Physics and its applications in various devices
C111.3	Categorize magnetic properties of materials and their applications in data storage
C111.4	Interpret the functioning of optical materials for opto electronics
C111.5	Understand the basics of quantum structures and their applications in carbon electronics

Course Name: C112 - BE8254 Basic Electrical and Instrumentation Engineering

C112.1	Understand the concept of three phase power circuits and measurement.
C112.2	Comprehend the concepts in transformers.
C112.3	Comprehend the concepts in electrical generators and motors.
C112.4	Operation of Three phase electrical circuits and power measurement.
C112.5	Able to choose appropriate measuring instruments for given application.

Course Name: C113 - EC8251 Circuit Analysis

C113.1	Understand the capacity to analyze electrical circuits.
C113.2	Understand circuit theorems and evaluate the AC and DC circuits.
C113.3	Analyze the frequency response of parallel and series resonance circuits and coupled circuits.
C113.4	Analyze steady state response of any RC, RL and RLC circuits.
C113.5	Analyze the network topologies.

Course Name: C114 - EC8252 Electronic Devices

C114.1	Recall the V-I characteristic of diode. UJT and SCR
C114.2	Describe the equivalence circuits of transistors.
C114.3	Characterize the basic electronic devices such as FET and MOSFET.
C114.4	Characterize the Special semiconductor device.
C114.5	Design and analyze the basic electronic devices such as power and display devices.

Course Name: C115 - EC8261 Circuits and Devices Laboratory

C115.1	Verify transient analysis of the basic electronic devices.
C115.2	Determine the resonance frequency of series and parallel RLC circuit.
C115.3	Verify Thevinin & Norton theorem KVL & KCL, and Super Position Theorems
C115.4	Learn the characteristics of basic electronic devices such as Diode, BJT,FET, SCR
C115.5	Determine RL and RC circuits.

Course Name: C116 - GE8261 Engineering Practices Laboratory

C116.1	Understand the basic components and pipe connections.
C116.2	Study of Making sheet metal models.

C116.3	Understand the foundry and fittings.
C116.4	Design of electrical circuits.
C116.5	Study of electrical components and soldering process.

Course Name: C201- MA8352 Linear Algebra and Partial Differential Equations

C201.1	Learn the fundamental concepts of advanced algebra and their role in modern Mathematics and applied contexts.
C201.2	Identify the accurate and efficient use of advanced algebraic techniques.
C201.3	Demonstrate their mastery by solving non - trivial problems related to the concepts and by proving simple theorems about the statements proven by the text.
C201.4	Compare and solve various types of partial differential equations.
C201.5	Understand to solve engineering problems using Fourier series.

Course Name: C202- EC8393 Fundamentals of Data Structures In C

C202.1	Implement linear and non-linear data structure operations using C
C202.2	Suggest appropriate linear / non-linear data structure for any given data set.
C202.3	Apply hashing concepts for a given problem
C202.4	Modify or suggest new data structure for an application
C202.5	Appropriately choose the sorting algorithm for an application

Course Name: C203- EC8351 Electronic Circuits- I

C203.1	Acquire knowledge of Working principles, characteristics and applications of BJT and FET.
C203.2	Acquire knowledge characteristics of BJT and FET amplifiers.
C203.3	Analyze the performance of small signal BJT and FET amplifiers - single stage and multi stage amplifiers
C203.4	Apply the knowledge gained in the design of Electronic circuits
C203.5	Analyze the frequency responses of amplifiers.

Course Name: C204- EC8352 Signals and Systems

C204.1	Learn to determine if a given system is linear/causal/stable.
C204.2	Design of determining the frequency components present in a deterministic signal.
C204.3	Analyze the characteristics of LTI systems in the time domain and frequency domain.
C204.4	Acquire knowledge of discrete time signals and system in the Fourier and Z transform domain.
C204.5	Analyze the output of an LTI system in the time and frequency domains.

Course Name: C205- EC8392 Digital Electronics

C205.1	Learn to digital electronics in the present contemporary world.
C205.2	Design of various combinational digital circuits using logic gates.
C205.3	Analyze and design procedures for synchronous sequential circuits.
C205.4	Analyze and design procedures for asynchronous sequential circuits.
C205.5	Acquire knowledge of semiconductor memories and related technology.

Course Name: C206- EC8391Control Systems Engineering

C206.1	Identify the various control system components and their representations.
C206.2	Analyze the various time domain parameters.
C206.3	Analyze the various frequency response plots and its system.
C206.4	Apply the concepts of various system stability criterions.
C206.5	Design the various transfer functions of digital control system using state variable models.

Course Name: C207- EC8381 Fundamentals of Data Structures in C Laboratory

C207.1	Learn the basic and advanced programs in C.
C207.2	Implement the functions and recursive functions in C.
C207.3	Apply data structures using C.

C207.4	Design appropriate sorting algorithm for an application and implement it in a modularized way.
C207.5	Implement searching and sorting algorithms using C.

Course Name: C208- EC8361 Analog and Digital Circuits Laboratory

C208.1	Design and Test rectifiers, filters and regulated power supplies
C208.2	Design and Test BJT/JFET amplifiers and Differentiate cascode and cascade amplifiers.
C208.3	Analyze the limitation in bandwidth of single stage and multi stage amplifier and Measure CMRR in differential amplifier
C208.4	Simulate and analyze amplifier circuit using Pspice.
C208.5	Design and test the digital logic circuit.

Course Name: C209- HS8381 Interpersonal Skills/Listening &Speaking

C209.1	Learn to Listen and respond appropriately
C209.2	Test to Participate in group discussions
C209.3	Acquire knowledge to Make effective presentations
C209.4	Test to Participate confidently and appropriately in conversations both formal and informal
C209.5	Monitor the effective presentations.

Course Name: C210- MA8451 Probability and Random Processes

C210.1	Learn the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon.
C210.2	Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.
C210.3	Apply the concept random processes in engineering disciplines.
C210.4	Understand and apply the concept of correlation and spectral densities.
C210.5	Analyze the response of random inputs to linear time invariant systems.

Course Name: C211- EC8452 Electronic Circuits II

C211.1	Analyze different types of amplifier circuits.
C211.2	Design BJT oscillator circuits.
C211.3	Design tuned amplifiers
C211.4	Design wave shaping circuits and Multivibrators.
C211.5	Design power amplifier and DC convertors.

Course Name: C212- EC8491 Communication Theory

C212.1	Design AM communication systems.
C212.2	Design Angle modulated communication systems.
C212.3	Apply the concepts of Random Process to the design of Communication systems.
C212.4	Analyze the noise performance of AM and FM systems.
C212.5	Gain knowledge in sampling and quantization.

Course Name: C213- EC8451 Electromagnetic Fields

C213.1	Understand the of fundamental electromagnetic laws and concepts.
C213.2	Learn Maxwell's equations in integral, differential and phasor forms and explain their physical meaning.
C213.3	Apply electromagnetic wave propagation in lossy and in lossless media
C213.4	Solve simple problems requiring estimation of electric and magnetic field quantities based on Faraday's law & Maxwell Concept.
C213.5	Acquire knowledge to solve problems based on the Plane waves.

Course Name: C214- EC8453 Linear Integrated Circuits

C214.1	Design linear and non linear applications of OP – AMPS
C214.2	Design applications using OP – AMPS .
C214.3	Design applications using analog multiplier and PLL.

C214.4	Design ADC and DAC using OP – AMPS .
C214.5	Generate waveforms using OP – AMP Circuits and analyze special function ICs.

Course Name: C215- GE8291 Environmental Science and Engineering

C215.1	Study the Environmental Pollution or problems cannot be solved by mere laws.
C215.2	Public awareness of environmental is at infant stage.
C215.3	Ignorance and incomplete knowledge has lead to misconceptions
C215.4	Development and improvement in std. of living has lead to serious environmental disasters
C215.5	Study the integrated themes and biodiversity, natural resources, pollution control and waste management.

Course Name: C216- EC8461 Circuits Design and Simulation Laboratory

C216.1	Analyze various types of feedback amplifiers.
C216.2	Design oscillators, tuned amplifiers and wave-shaping circuits.
C216.3	Analysis the operation of various multivibrators.
C216.4	Design Clipper and Clamper Circuits.
C216.5	Design and simulate feedback amplifiers, oscillators, tuned amplifiers, wave-shaping Circuits and multivibrators using SPICE Tool.

Course Name: C217- EC8462 Linear Integrated Circuits Laboratory

C217.1	Design amplifiers, oscillators, D-A converters using operational amplifiers.
C217.2	Design filters using op-amp and performs an experiment on frequency response.
C217.3	Analyze the working of PLL and describe its application as a frequency multiplier.
C217.4	Design DC power supply using ICs.
C217.5	Analyze the performance of filters, multivibrators, A/D converter and analog multiplier using SPICE.

Course Name: C301- EC8501 Digital Communication

C301.1	Learn various source coding theorem and codes.
C301.2	Design PCM Systems and analyze different types of waveform coding.
C301.3	Design and implement base band transmission schemes.
C301.4	Analyze the spectral characteristics of band pass signaling schemes and their noise Performance.
C301.5	Design error control coding schemes.

Course Name: C302- EC8553 Discrete-Time Signal Processing

C302.1	Apply DFT for the analysis of digital signals and systems.
C302.2	Design IIR filters.
C302.3	Design FIR filters and Characterize the effects of finite precision representation on digital filters.
C302.4	Design fixed point and floating point number representation and find quantization error.
C302.5	Acquire knowledge about DSP processor.

Course Name: C303- EC8552 Computer Architecture and Organization

C303.1	Describe data representation, instruction formats and the operation of a digital computer.
C303.2	Illustrate the fixed point and floating-point arithmetic for ALU operation.
C303.3	Summarize the implementation schemes of control unit and pipeline performance.
C303.4	Apply the concept of various memories, interfacing and organization of multiple processors.
C303.5	Design parallel processing technique and unconventional architectures.

Course Name: C304- EC8551 Communication Networks

C304.1	Identify the components required to build different types of networks.
C304.2	Apply the required functionality at each layer for given application. Identify solution for each functionality at each layer.

C304.3	Trace the flow of information from one node to another node in the network.
C304.4	Summarize the various protocols(TCP,UDP).
C304.5	Learn the flow control and congestion control algorithms.

Course Name: C305-EC8073 Medical Electronics

C305.1	Know the human body electro- physiological parameters and recording of bio-potentials
C305.2	Comprehend the non-electrical physiological parameters and their measurement – body temperature, blood pressure, pulse, blood cell count, blood flow meter etc.
C305.3	Interpret the various assist devices used in the hospitals viz. pacemakers, defibrillators, dialyzers and ventilators
C305.4	Comprehend physical medicine methods eg. ultrasonic, shortwave, microwave surgical diathermies , and bio-telemetry principles and methods
C305.5	Know about recent trends in medical instrumentation

Course Name: C306- ORO551 Renewable Energy Sources

C306.1	Understanding the physics of solar radiation.
C306.2	Ability to classify the solar energy collectors and methodologies of storing solar energy.
C306.3	Knowledge in applying solar energy in a useful way.
C306.4	Gain Knowledge in wind energy and biomass with its economic aspects.
C306.5	Knowledge in capturing and applying other forms of energy sources like wind, biogas and geothermal energies.

Course Name: C307- EC8562 Digital Signal Processing Laboratory

C308.1	Learn basic signal processing operations.
C308.2	Demonstrate their abilities towards MATLAB based implementation of various DSP Systems.
C308.3	Analyze the architecture of a DSP Processor.
C308.4	Design and Implement the FIR and IIR Filters in DSP Processor for performing filtering operation over real-time signals.
C308.5	Design a DSP system for various applications of DSP.

Course Name: C308- EC8561 Communication Systems Laboratory

C309.1	Learn to Simulate & validate the various functional modules of a communication system
C309.2	Demonstrate their knowledge in base band signaling schemes through implementation of digital modulation schemes
C309.3	Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of communication system
C309.4	Simulate end-to-end communication Link
C309.5	Simulate Error control coding schemes

Course Name: C309- EC8563 Communication Networks Laboratory

C310.1	Communicate between two desktop computers.
C310.2	Implement the different protocols.
C310.3	Program using sockets.
C310.4	Implement and compare the various routing algorithms.
C310.5	Implement congestion control algorithm using simulation tool.

Course Name: C310- EC8691 Microprocessors and Microcontrollers

C311.1	Understand to execute programs based on 8086 microprocessor.
C311.2	Understand the 8086 bus structure.
C311.3	Design and interface I/O circuits.
C311.4	Analyze and implement 8051 microcontroller based systems.
C311.5	Design and interface 8051microcontroller based system.

Course Name: C311- EC8095 VLSI Design

C312.1	Realize the concepts of digital building blocks using MOS transistor.
C312.2	Design combinational MOS circuits and power strategies.
C312.3	Design and construct Sequential Circuits and Timing systems.

C312.4	Analysis arithmetic building blocks and memory subsystems.
C312.5	Apply and implement FPGA design flow and testing.

Course Name: C312- EC8652 Wireless Communication

C313.1	Characterize a wireless channel and evolve the system design specifications.
C313.2	Design a cellular system based on resource availability and traffic demands.
C313.3	Learn the various digital signaling techniques for fading channels.
C313.4	Identify suitable signaling and multipath mitigation techniques for the wireless Channel and system under consideration.
C313.5	Understand the concepts of multiple antenna techniques.

Course Name: C313- MG8591 Principles of Management

C314.1	Understand the international aspect of management.
C314.2	Learn the Managerial functions like planning, organizing, staffing, leading & controlling.
C314.3	Gain Knowledge the evolution of Management.
C314.4	Understand the functions and principles of management.
C314.5	Learn the application of the principles in an organization.

Course Name: C314- EC8651 Transmission Lines and RF Systems

C315.1	Understand the characteristics of transmission lines and its losses.
C315.2	Design the standing wave ratio and input impedance in high frequency transmission lines.
C315.3	Analyze impedance matching by stubs using smith charts.
C315.4	Analyze the characteristics of TE and TM waves.
C315.5	Design a RF transceiver system for wireless communication.

Course Name: C315- Naan Muthalvan

C316.1	Create a new problem/product.
C316.2	Design flow chat and experiments to find solution.
C316.3	Analyze the results and provide solution for the identified problem.
C316.4	Analyze and discuss the test results.
C316.5	Prepare reports and presentation .

Course Name: C316- EC8681 Microprocessors and Microcontrollers Laboratory

C317.1	Write ALP Programmes for fixed and Floating Point and Arithmetic operations.
C317.2	Interface different I/Os with processor.
C317.3	Generate waveforms using Microprocessors.
C317.4	Execute Programs in 8051.
C317.5	Execute Programs in 8086 and 8051 using MASM simulator.

Course Name: C317- EC8661 VLSI Design Laboratory

C318.1	Write HDL code for basic as well as advanced digital integrated circuit.
C318.2	Import the logic modules into FPGA Boards.
C318.3	Synthesize Place and Route the digital IPs.
C318.4	Design, Simulate and Extract the layouts of Digital & Analog IC Blocks using EDA Tools.
C318.5	Provide hands on design experience with professional design (EDA) platforms.

Course Name: C318- EC8611 Technical Seminar

C319.1	Learn to Listen and respond appropriately.
C319.2	Participate in group discussions.
C319.3	Gain Knowledge to effective presentations.
C319.4	Participate confidently and appropriately in conversations both formal and informal.
C319.5	Apply to Make effective presentations.

Course Name: C319- HS8581 Professional Communication

C320.1	Learn to make effective presentations.
C320.2	Participate confidently in Group Discussions.
C320.3	Learn to attend job interviews and be successful in them.

C320.4	Develop adequate Soft Skills required for the workplace.
C320.5	Develop their confidence and help them attend interviews successfully.

Course Name: C401- EC8701 Antennas and Microwave Engineering

C401.1	Apply the basic principles and evaluate antenna parameters and link power budgets.
C401.2	Enhance the knowledge in the area of various antenna designs.
C401.3	Enhance the knowledge in the area of antenna arrays & application.
C401.4	Gain knowledge in the area of microwave components and antenna for practical applications.
C401.5	Design a microwave system given the application specifications.

Course Name: C402- EC8751 Optical Communication

C402.1	Learn basic elements in optical fibers, different modes and configurations.
C402.2	Analyze the transmission characteristics associated with dispersion and polarization techniques.
C402.3	Design optical sources and detectors with their use in optical communication system.
C402.4	Construct fiber optic receiver systems, measurements and coupling techniques.
C402.5	Design optical communication systems and its networks.

Course Name: C403- EC8791 Embedded and Real Time Systems

C403.1	Learn the concepts of embedded systems.
C403.2	Design the architecture and programming of ARM processor.
C403.3	Gain Knowledge the basic concepts of embedded programming.
C403.4	Implement the basic concepts of real time operating system design.
C403.5	Apply embedded-system concepts for real-time applications.

Course Name: C404-EC8702 Ad hoc and Wireless Sensor Networks

C404.1	Learn the basics of Ad hoc networks and Wireless Sensor Networks.
C404.2	Apply this knowledge to identify the suitable routing algorithm based on the network and user requirement.
C404.3	Apply the knowledge to identify appropriate physical and MAC layer protocols.
C404.4	Understand the transport layer and security issues possible in Ad hoc and sensor networks.
C404.5	Acquire knowledge the OS used in Wireless Sensor Networks and build basic modules.

Course Name: C405-OME754 Industrial Safety

C405.1	Understand to identify and prevent chemical hazard through analysis and apply proper safety techniques on safety engineering and management.
C405.2	Learn to identify and prevent environmental hazard through analysis and apply proper safety techniques on safety engineering and management.
C405.3	Analysis to mechanical hazard .
C405.4	Gain knowledge on safety engineering fundamentals and safety management practices.
C405.5	Apply proper safety techniques on safety engineering and management.

Course Name: C406- Naan Muthalvan

C406.1	Create a new problem/product.
C406.2	Design flow chat and experiments to find solution.
C406.3	Analyze the results and provide solution for the identified problem.
C406.4	Analyze and discuss the test results.
C406.5	Prepare reports and presentation .

Course Name: C407-EC8711 Embedded Laboratory

C407.1	Write programs in ARM for a specific Application.
C407.2	Interface memory, A/D and D/A convertors with ARM system.

C407.3	Analyze the performance of interrupt.
C407.4	Write program for interfacing keyboard, display, motor and sensor.
C407.5	Formulate a mini project using embedded system.

Course Name: C408-EC8761Advanced Communication Laboratory

C408.1	Analyze the performance of simple optical link by measurement of losses and Analyzing the mode characteristics of fiber.
C408.2	Analyze the Eye Pattern, Pulse broadening of optical fiber and the impact on BER.
C408.3	Estimate the Wireless Channel Characteristics and Analyze the performance of Wireless Communication System.
C408.4	Understand the intricacies in Microwave System design.
C408.5	Understand actual communication waveforms that will be sent and received across wireless channel.

Course Name: C409-EC8093 Digital Image Processing

C409.1	Understand the basics and fundamentals of digital image processing, such as digitization, sampling, quantization, and 2D-transform.
C409.2	Operate on images using the techniques of smoothing, sharpening and enhancement.
C409.3	Understand the restoration concepts and filtering techniques.
C409.4	Learn the basics of segmentation and segmentation algorithm.
C409.5	Gain knowledge of image compression and recognition methods.

Course Name: C410-EC8094 Satellite Communication

C410.1	Analyze the satellite orbits.
C410.2	Compare the earth segment and space segment.
C410.3	Analyze the satellite Link design.
C410.4	Understand the concepts of satellite access &coding methods.
C410.5	Design various satellite applications.

Course Name: C411-EC8811 Project Work

C411.1	Formulate and analyze problem / create a new product/ process.
C411.2	Design and conduct experiments to find solution.
C411.3	Analyze the results and provide solution for the identified problem, prepare project report and make presentation.
C411.4	Conduct experiments, analyze and discuss the test results, and make conclusions.
C411.5	Prepare project reports and presentation .

Course Name: C101 - HS8151 Communicative English

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101.1	-	-	-	-	-	3	3	3	1	3	2	-	-	-	-
C101.2	-	-	-	-	-	3	3	3	1	3	1	-	-	-	-
C101.3	-	-	-	-	-	3	3	3	2	3	3	-	-	-	-
C101.4	-	-	-	-	-	3	3	3	2	3	3	-	-	-	-
C101.5	-	-	-	-	-	3	3	3	2	3	2	-	-	-	-
Average	**0**	**0**	**0**	**0**	**0**	**3.0**	**3.0**	**3.0**	**1.6**	**3.0**	**2.2**	**0**	**0**	**0**	**0**

Course Name: C102 - MA8151 Engineering Mathematics – I

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C102.1	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C102.2	3	2	3	2	-	-	-	-	-	-	1	1	-	-	-
C102.3	3	2	3	2	-	-	-	-	-	-	1	1	-	-	-
C102.4	3	2	3	2	-	-	-	-	-	-	1	1	-	-	-
C102.5	2	2	2	2	-	-	-	-	-	-	1	1	-	-	-
Average	**2.8**	**2.0**	**2.8**	**2.2**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**0**	**0**	**0**

Course Name: C103 - PH8151 Engineering Physics

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C103.1	3	3	3	3	-	-	-	-	-	-	2	2	-	-	-
C103.2	3	3	3	2	-	-	-	-	-	-	2	2	-	-	-
C103.3	3	3	3	2	-	-	-	-	-	-	2	2	-	-	-
C103.4	3	2	2	2	-	-	-	-	-	-	1	2	-	-	-
C103.5	3	2	2	1	-	-	-	-	-	-	1	2	-	-	-
Average	**3.0**	**2.6**	**2.6**	**2.0**	0	0	0	0	0	0	**1.6**	**2.0**	**0**	**0**	**0**

Course Name: C104 - CY8151 Engineering Chemistry

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C104.1	3	2	3	2	-	-	-	-	-	-	1	1	-	-	-
C104.2	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C104.3	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C104.4	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C104.5	3	2	2	2	-	-	-	-	-	-	1	1	-	-	-
Average	**3.0**	**2.0**	**2.8**	**2.6**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**0**	**0**	**0**

Course Name: C105 - GE8151 Problem Solving and Python Programming

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C105.1	3	3	3	3	3	-	-	-	-	-	3	3	2	-	-
C105.2	3	3	2	2	2	-	-	-	-	-	2	2	3	-	-
C105.3	3	3	3	3	3	-	-	-	-	-	3	3	3	-	-
C105.4	3	3	3	3	3	-	-	-	-	-	3	3	3	-	-
C105.5	2	3	3	3	3	-	-	-	-	-	3	3	3	-	-
Average	**2.8**	**3.0**	**2.8**	**2.8**	**2.8**	**0**	**0**	**0**	**0**	**0**	**2.8**	**2.8**	**2.8**	**0**	**0**

Course Name: C106 - GE8152 Engineering Graphics

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C106.1	3	-	-	-	-	-	-	-	-	2	2	2	3	-	-
C106.2	3	-	-	-	-	-	-	-	-	2	2	2	3	-	-
C106.3	3	-	-	-	-	-	-	-	-	2	2	2	2	-	-
C106.4	3	-	-	-	-	-	-	-	-	2	1	2	3	-	-
C106.5	3	-	-	-	-	-	-	-	-	2	1	2	2	-	-
Average	**3.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2.0**	**1.6**	**2.0**	**2.6**	**0**	**0**

Course Name: C107 - GE8161 Problem Solving and Python Programming Lab

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C107.1	3	3	3	3	3	-	-	-	-	-	3	2	3	-	-

C107.2	3	3	3	3	3	-	-	-	-	-	3	2	3	-	-
C107.3	3	3	3	3	2	-	-	-	-	-	2	2	3	-	-
C107.4	3	2	2	2	2	-	-	-	-	-	1	3	3	-	-
C107.5	1	2	2	3	1	-	-	-	-	-	1	2	2	-	-
Average	**2.6**	**2.6**	**2.6**	**2.8**	**2.2**	**0**	**0**	**0**	**0**	**0**	**2.0**	**2.2**	**2.8**	**0**	**0**

Course Name: C108 - BS8161 Physics and Chemistry Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C108.1	3	2	3	2	-	-	-	-	-	-	1	1	-	-	-
C108.2	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C108.3	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C108.4	3	2	3	3	-	-	-	-	-	-	1	1	-	-	-
C108.5	3	2	2	2	-	-	-	-	-	-	1	1	-	-	-
Average	**3.0**	**2.0**	**2.8**	**2.6**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**0**	**0**	**0**

Course Name: C109 - HS8251 Technical English

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C109.1	-	-	-	-	3	3	3	3	2	3	3	3	-	-	-
C109.2	-	-	-	-	3	3	3	3	2	3	3	3	-	-	-
C109.3	-	-	-	-	3	3	3	3	2	3	3	3	-	-	-
C109.4	-	-	-	-	2	3	3	3	2	3	3	3	-	-	-
C109.5	-	-	-	-	-	-	-	-	3	3	3	3	-	-	-
Average	**0**	**0**	**0**	**0**	**2.8**	**3.0**	**3.0**	**3.0**	**2.2**	**3.0**	**3.0**	**3.0**	**0**	**0**	**0**

Course Name: C110 - MA8251 Engineering Mathematics – II

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C110.1	3	3	3	3	-	-	-	-	-	-	1	1	-	-	-
C110.2	3	3	3	2	-	-	-	-	-	-	1	1	-	-	-
C110.3	3	3	3	2	-	-	-	-	-	-	1	1	-	-	-

C110.4	3	3	3	2	-	-	-	-	-	-	1	1	-	-	-
C110.5	3	3	2	2	-	-	-	-	-	-	1	1	-	-	-
Average	**3.0**	**3.0**	**2.8**	**2.2**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**0**	**0**	**0**

Course Name: C111 - PH8253 Physics for Electronics Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C111.1	3	3	2	1	-	-	-	-	-	-	1	2	-	-	-
C111.2	3	3	3	2	-	-	-	-	-	-	2	2	-	-	-
C111.3	3	3	3	1	-	-	-	-	-	-	1	2	-	-	-
C111.4	3	3	3	2	-	-	-	-	-	-	2	2	-	-	-
C111.5	3	3	3	2	-	-	-	-	-	-	2	2	-	-	-
Average	**3.0**	**3.0**	**2.8**	**1.6**	**0**	**0**	**0**	**0**	**0**	**0**	**1.6**	**2.0**	**0**	**0**	**0**

Course Name: C112 - BE8254 Basic Electrical and Instrumentation Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C112.1	3	3	3	1	2	3	-	-	-	-	3	2	3	2	2
C112.2	3	2	3	2	1	3	-	-	-	-	3	3	3	3	3
C112.3	3	2	3	3	2	3	-	-	-	-	3	2	3	2	2
C112.4	3	2	3	3	3	3	-	-	-	-	3	3	3	3	3
C112.5	3	2	2	2	3	2	-	-	-	-	2	1	2	1	3
Average	**3.0**	**2.2**	**2.8**	**2.2**	**2.2**	**2.8**	**0**	**0**	**0**	**0**	**2.8**	**2.2**	**2.8**	**2.2**	**2.6**

Course Name: C113 - EC8251 Circuit Analysis

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C113.1	3	3	3	3	3	3	-	-	-	-	1	1	3	3	2
C113.2	3	3	3	2	3	3	-	-	-	-	3	2	3	2	3
C113.3	3	3	3	3	2	3	-	-	-	-	3	2	3	3	3
C113.4	3	3	3	3	3	3	-	-	-	-	3	3	3	2	2
C113.5	3	3	2	3	3	2	-	-	-	-	2	2	2	1	3

Average	**3.0**	**3.0**	**2.8**	**2.8**	**2.8**	**2.8**	**0**	**0**	**0**	**0**	**2.4**	**2.0**	**2.8**	**2.2**	**2.6**

Course Name: C114 - EC8252 Electronic Devices

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C114.1	3	3	3	1	2	3	-	-	-	-	3	2	2	2	2
C114.2	3	3	3	2	1	3	-	-	-	-	3	3	3	3	3
C114.3	3	2	3	3	2	3	-	-	-	-	3	2	3	2	2
C114.4	3	3	3	3	3	3	-	-	-	-	3	3	3	3	3
C114.5	3	3	2	2	3	3	-	-	-	-	2	1	3	3	2
Average	**3.0**	**2.8**	**2.8**	**2.2**	**2.2**	**3.0**	**0**	**0**	**0**	**0**	**2.8**	**2.2**	**2.8**	**2.6**	**2.4**

Course Name: C115 - EC8261 Circuits and Devices Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C115.1	3	3	3	3	3	-	-	-	-	-	2	1	3	3	2
C115.2	3	3	3	2	3	-	-	-	-	-	2	3	3	2	3
C115.3	3	3	3	3	3	-	-	-	-	-	3	3	3	3	3
C115.4	3	3	3	3	2	-	-	-	-	-	2	2	3	2	3
C115.5	3	3	2	2	2	-	-	-	-	-	1	3	3	3	3
Average	**3.0**	**3.0**	**2.8**	**2.6**	**2.6**	**0**	**0**	**0**	**0**	**0**	**2.0**	**2.4**	**3.0**	**2.6**	**2.8**

Course Name: C116 - GE8261 Engineering Practices Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C116.1	3	3	3	1	1	-	-	-	-	-	1	2	2	1	2
C116.2	3	3	3	2	3	-	-	-	-	-	2	3	3	2	1
C116.3	3	3	3	3	3	-	-	-	-	-	1	3	2	2	3
C116.4	3	3	3	1	3	-	-	-	-	-	3	3	3	2	2
C116.5	3	3	2	3	2	-	-	-	-	-	3	1	2	2	3
Average	**3.0**	**3.0**	**2.8**	**2.0**	**2.4**	**0**	**0**	**0**	**0**	**0**	**2.0**	**2.4**	**2.4**	**1.8**	**2.2**

Course Name: C201- MA8352 Linear Algebra and Partial Differential Equations

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C201.1	3	3	3	2	1	-	-	-	-	-	2	2	-	-	-
C201.2	3	3	3	2	1	-	-	-	-	-	3	3	-	-	-
C201.3	3	3	3	2	1	-	-	-	-	-	3	2	-	-	-
C201.4	3	3	3	2	1	-	-	-	-	-	3	3	-	-	-
C201.5	3	3	2	2	1	-	-	-	-	-	1	2	-	-	-
Average	**3.0**	**3.0**	**2.8**	**2.0**	**1.0**	**0**	**0**	**0**	**0**	**0**	**2.4**	**2.4**	**0**	**0**	**0**

Course Name: C202- EC8393 Fundamentals of Data Structures In C

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C202.1	**2**	**3**	**3**	**2**	**2**	**3**	**-**	**-**	**-**	**-**	**1**	**3**	**3**	**2**	**2**
C202.2	**1**	**2**	**3**	**2**	**2**	**3**	**-**	**-**	**-**	**-**	**2**	**2**	**3**	**2**	**2**
C202.3	**2**	**3**	**3**	**2**	**3**	**3**	**-**	**-**	**-**	**-**	**2**	**2**	**2**	**2**	**2**
C202.4	**2**	**1**	**3**	**3**	**1**	**3**	**-**	**-**	**-**	**-**	**2**	**2**	**3**	**3**	**3**
C202.5	**2**	**3**	**2**	**2**	**3**	**3**	**-**	**-**	**-**	**-**	**1**	**3**	**3**	**2**	**3**
Average	**1.8**	**2.4**	**2.8**	**2.2**	**2.2**	**3.0**	**0**	**0**	**0**	**0**	**1.6**	**2.4**	**2.8**	**2.2**	**2.4**

Course Name: C203- EC8351 Electronic Circuits- I

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C203.1	3	3	3	3	2	3	-	-	-	-	3	2	2	2	2
C203.2	3	3	3	2	3	2	-	-	-	-	3	3	2	3	3
C203.3	3	3	3	3	2	3	-	-	-	-	3	2	3	2	2
C203.4	3	3	3	3	3	3	-	-	-	-	3	3	2	3	3
C203.5	3	2	2	3	3	3	-	-	-	-	2	3	2	3	2
Average	**3.0**	**2.8**	**2.8**	**2.8**	**2.6**	**2.8**	**0**	**0**	**0**	**0**	**2.8**	**2.6**	**2.2**	**2.6**	**2.4**

Course Name: C204- EC8352 Signals and Systems

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C204.1	3	2	2	-	3	3	-	-	-	-	2	3	3	3	2
C204.2	3	3	3	-	2	3	-	-	-	-	2	3	3	3	3
C204.3	3	3	3	-	3	2	-	-	-	-	1	3	3	3	3
C204.4	3	3	3	-	2	3	-	-	-	-	2	3	3	3	2
C204.5	3	3	2	3	3	2	-	-	-	-	1	3	3	3	3
Average	**3.0**	**2.8**	**2.6**	**3.0**	**2.6**	**2.6**	**0**	**0**	**0**	**0**	**1.6**	**3.0**	**3.0**	**3.0**	**2.6**

Course Name: C205- EC8392 Digital Electronics

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C205.1	3	3	3	3	3	3	-	-	-	-	3	3	2	3	2
C205.2	3	3	3	3	3	3	-	-	-	-	2	1	3	2	1
C205.3	3	3	3	3	2	3	-	-	-	-	2	2	2	3	3
C205.4	2	3	1	3	3	3	-	-	-	-	3	2	3	2	1
C205.5	3	3	3	2	2	3	-	-	-	-	2	2	2	3	3
Average	**2.8**	**3.0**	**2.6**	**2.8**	**2.6**	**3.0**	**0**	**0**	**0**	**0**	**2.4**	**2.0**	**2.4**	**2.6**	**2.0**

Course Name: C206- EC8391Control Systems Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

C206.1	3	3	3	2	2	3	-	-	-	-	2	3	3	3	2
C206.2	3	3	3	3	3	3	-	-	-	-	2	2	3	3	1
C206.3	3	3	3	3	3	3	-	-	-	-	2	3	3	3	3
C206.4	3	3	3	2	3	3	-	-	-	-	2	2	3	2	3
C206.5	3	2	3	3	2	3	-	-	-	-	2	3	2	3	3
Average	**3.0**	**2.8**	**3.0**	**2.6**	**2.6**	**3.0**	**0**	**0**	**0**	**0**	**2.0**	**2.6**	**2.8**	**2.8**	**2.4**

Course Name: C207- EC8381 Fundamentals of Data Structures in C Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C207.1	2	3	3	2	2	2	-	-	-	-	3	3	2	1	2
C207.2	3	3	1	1	2	3	-	-	-	-	1	2	3	2	1
C207.3	3	3	3	2	3	3	-	-	-	-	3	2	2	3	3
C207.4	3	1	2	3	1	3	-	-	-	-	1	2	3	2	2
C207.5	3	2	3	2	2	3	-	-	-	-	3	3	2	3	2
Average	**2.8**	**2.4**	**2.4**	**2.0**	**2.0**	**2.8**	**0**	**0**	**0**	**0**	**2.2**	**2.4**	**2.4**	**2.2**	**2.0**

Course Name: C208- EC8361 Analog and Digital Circuits Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C208.1	3	2	3	2	1	3	-	-	-	-	2	2	3	2	2
C208.2	3	2	3	2	3	3	-	-	-	-	2	2	3	2	2
C208.3	3	3	3	1	3	3	-	-	-	-	2	2	3	2	2
C208.4	3	3	3	3	3	3	-	-	-	-	2	2	3	3	3
C208.5	3	3	2	3	3	3	-	-	-	-	2	2	3	2	3
Average	**3.0**	**2.6**	**2.8**	**2.2**	**2.6**	**3.0**	**0**	**0**	**0**	**0**	**2.0**	**2.0**	**3.0**	**2.2**	**2.4**

Course Name: C209- HS8381 Interpersonal Skills/Listening &Speaking

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C209.1	-	-	-	-	-	3	-	3	2	3	2	3	-	-	-
C209.2	-	-	-	-	-	3	-	3	3	3	2	3	-	-	-

C209.3	-	-	-	-	-	3	-	3	2	3	3	3	-	-	-
C209.4	-	-	-	-	-	3	-	3	2	3	3	3	-	-	-
C209.5	-	-	-	-	-	3	-	3	2	3	1	3	-	-	-
Average	**0**	**0**	**0**	**0**	**0**	**3.0**	**0**	**3.0**	**2.2**	**3.0**	**2.2**	**3.0**	**0**	**0**	**0**

Course Name: C210- MA8451 Probability and Random Processes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C210.1	3	3	3	3	2	-	-	-	-	-	2	2			
C210.2	3	3	3	2	2	-	-	-	-	-	3	2			
C210.3	3	3	3	2	2	-	-	-	-	-	3	2			
C210.4	3	3	3	2	2	-	-	-	-	-	2	2			
C210.5	3	3	2	2	2	-	-	-	-	-	3	2			
Average	**3.0**	**3.0**	**2.8**	**2.2**	**2.0**	**0**	**0**	**0**	**0**	**0**	**2.6**	**2.0**	**0**	**0**	**0**

Course Name: C211- EC8452 Electronic Circuits II

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C211.1	3	3	3	3	2	3	-	-	-	-	1	2	2	1	2
C211.2	3	3	2	3	2	3	-	-	-	-	3	2	3	2	1
C211.3	3	3	3	3	3	3	-	-	-	-	3	2	2	1	3
C211.4	3	3	2	3	3	3	-	-	-	-	3	2	3	2	2
C211.5	3	2	3	2	2	3	-	-	-	-	3	2	2	2	2
Average	**3.0**	**2.8**	**2.6**	**2.8**	**2.4**	**3.0**	**0**	**0**	**0**	**0**	**2.6**	**2.0**	**2.4**	**1.6**	**2.0**

Course Name: C212- EC8491 Communication Theory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C212.1	3	3	3	3	2	3	-	-	-	-	1	1	3	3	2
C212.2	3	3	3	3	2	3	-	-	-	-	3	3	3	2	1
C212.3	3	3	3	3	3	3	-	-	-	-	1	3	3	3	3

C212.4	3	3	3	3	3	3	-	-	-	-	3	3	3	2	2
C212.5	3	3	3	3	2	3	-	-	-	-	3	1	3	3	3
Average	**3.0**	**3.0**	**3.0**	**3.0**	**2.4**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**3.0**	**2.6**	**2.2**

Course Name: C213- EC8451 Electromagnetic Fields

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	3	3	3	3	-	3	-	-	-	-	3	2	2	3	2
C213.2	3	3	3	3	2	3	-	-	-	-	3	2	3	3	3
C213.3	3	3	3	3	2	3	-	-	-	-	3	2	2	3	3
C213.4	3	3	3	3	2	3	-	-	-	-	1	2	3	2	3
C213.5	3	3	2	2	2	3	-	-	-	-	2	3	2	3	3
Average	**3.0**	**3.0**	**2.8**	**2.8**	**2.0**	**3.0**	**0**	**0**	**0**	**0**	**2.4**	**2.2**	**2.4**	**2.8**	**2.8**

Course Name: C214- EC8453 Linear Integrated Circuits

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C214.1	3	3	3	3	3	3	-	-	-	-	3	3	3	3	2
C214.2	3	3	3	3	2	3	-	-	-	-	3	3	3	3	2
C214.3	3	3	3	3	3	3	-	-	-	-	3	3	2	1	2
C214.4	3	3	3	3	2	3	-	-	-	-	3	3	3	3	3
C214.5	3	2	3	2	3	2	-	-	-	-	1	3	3	2	3
Average	**3.0**	**2.8**	**3.0**	**2.8**	**2.6**	**2.8**	**0**	**0**	**0**	**0**	**2.6**	**3.0**	**2.8**	**2.4**	**2.4**

Course Name: C215- GE8291 Environmental Science and Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C215.1	3	3	-	3	-	3	3	1	-	-	2	2	-	-	-
C215.2	3	3	-	3	-	3	3	1	-	-	1	2	-	-	-
C215.3	3	3	-	3	-	3	2	1	-	-	1	2	-	-	-
C215.4	3	3	-	3	-	3	2	1	-	-	2	2	-	-	-

C215.5	3	2	-	2	-	3	2	1	-	-	1	1	-	-	-
Average	**3.0**	**2.8**	**0**	**2.8**	**0**	**3.0**	**2.4**	**1.0**	**0**	**0**	**1.4**	**1.8**	**0**	**0**	**0**

Course Name: C216- EC8461 Circuits Design and Simulation Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C216.1	3	3	3	3	2	3	-	-	-	-	3	2	2	1	2
C216.2	3	3	3	3	3	3	-	-	-	-	3	2	3	2	1
C216.3	3	3	3	3	3	2	-	-	-	-	3	2	2	3	3
C216.4	3	3	2	3	3	3	-	-	-	-	2	2	3	2	2
C216.5	3	2	2	3	2	3	-	-	-	-	2	2	2	2	3
Average	**3.0**	**2.8**	**2.6**	**3.0**	**2.6**	**2.8**	**0**	**0**	**0**	**0**	**2.6**	**2.0**	**2.4**	**2.0**	**2.2**

Course Name: C217- EC8462 Linear Integrated Circuits Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C217.1	2	3	3	3	1	3	-	-	-	-	2	2	3	3	2
C217.2	2	3	3	3	1	3	-	-	-	-	3	1	3	3	1
C217.3	2	3	3	3	1	3	-	-	-	-	3	2	2	3	3
C217.4	2	3	3	3	2	3	-	-	-	-	2	2	3	3	2
C217.5	3	3	2	2	3	3	-	-	-	-	1	1	3	3	3
Average	**2.2**	**3.0**	**2.8**	**2.8**	**1.6**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**1.6**	**2.8**	**3.0**	**2.2**

Course Name: C301- EC8501 Digital Communication

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	3	2	3	3	2	2	-	-	-	-	3	3	2	3	2
C301.2	3	3	3	3	3	3	-	-	-	-	2	1	3	3	1
C301.3	3	3	3	3	2	2	-	-	-	-	2	2	3	3	3
C301.4	3	3	3	3	3	3	-	-	-	-	3	2	3	3	2
C301.5	3	3	3	2	3	3	-	-	-	-	2	2	3	3	3
Average	**3.0**	**2.8**	**3.0**	**2.8**	**2.6**	**2.6**	**0**	**0**	**0**	**0**	**2.4**	**2.0**	**2.8**	**3.0**	**2.2**

Course Name: C302- EC8553 Discrete-Time Signal Processing

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	3	3	3	2	3	-	-	-	-	2	3	3	3	2
C302.2	3	3	3	3	2	3	-	-	-	-	1	1	3	3	1
C302.3	3	3	3	3	2	3	-	-	-	-	2	3	3	3	3
C302.4	3	3	3	3	3	3	-	-	-	-	2	3	3	3	2
C302.5	3	2	3	2	3	3	-	-	-	-	2	2	2	3	3
Average	**3.0**	**2.8**	**3.0**	**2.8**	**2.4**	**3.0**	**0**	**0**	**0**	**0**	**1.8**	**2.4**	**2.8**	**3.0**	**2.2**

Course Name: C303- EC8552 Computer Architecture and Organization

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C303.1	3	3	2	3	-	3	-	-	-	-	3	3	2	3	2
C303.2	3	3	3	3	-	3	-	-	-	-	2	1	3	3	1
C303.3	3	3	3	3	-	3	-	-	-	-	2	2	2	3	3
C303.4	3	3	2	3	-	3	-	-	-	-	3	2	3	3	2
C303.5	3	2	3	3	-	3	-	-	-	-	2	2	2	3	3
Average	**3.0**	**2.8**	**2.6**	**3.0**	**0**	**3.0**	**0**	**0**	**0**	**0**	**2.4**	**2.0**	**2.4**	**3.0**	**2.2**

Course Name: C304- EC8551 Communication Networks

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C304.1	3	3	3	3	2	3	-	-	-	-	1	1	2	1	2
C304.2	3	3	3	3	2	3	-	-	-	-	3	2	1	2	1
C304.3	3	3	3	3	3	2	-	-	-	-	3	3	2	3	3
C304.4	3	3	3	3	2	3	-	-	-	-	3	2	1	2	2
C304.5	3	3	2	2	2	3	-	-	-	-	1	3	2	3	3
Average	**3.0**	**3.0**	**2.8**	**2.8**	**2.2**	**2.8**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**1.6**	**2.2**	**2.2**

Course Name: C305-EC8073 Medical Electronics

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

C305.1	3	3	3	3	2	1	-	-	-	-	2	2	1	1	2
C305.2	3	2	3	3	2	2	-	-	-	-	2	2	1	2	1
C305.3	3	3	3	3	1	2	-	-	-	-	2	2	1	3	1
C305.4	3	3	3	3	2	2	-	-	-	-	2	2	1	2	1
C305.5	3	2	3	2	2	1	-	-	-	-	2	2	1	3	1
Average	**3.0**	**2.6**	**3.0**	**2.8**	**1.8**	**1.6**	**0**	**0**	**0**	**0**	**2.0**	**2.0**	**1.0**	**2.2**	**1.2**

Course Name: C306- ORO551 Renewable Energy Sources

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C306.1	3	3	-	-	-	-	-	-	-	-	2	3	-	-	-
C306.2	3	2	-	-	-	-	-	-	-	-	2	3	-	-	-
C306.3	3	2	-	-	-	-	-	-	-	-	2	3	-	-	-
C306.4	3	2	-	-	-	-	-	-	-	-	2	3	-	-	-
C306.5	3	2	-	-	-	-	-	-	-	-	2	3	-	-	-
Average	**3.0**	**2.2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2.0**	**3.0**	**0**	**0**	**0**

Course Name: C307- EC8562 Digital Signal Processing Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C307.1	3	3	3	3	3	3	-	-	-	-	3	2	3	3	2
C307.2	2	3	3	3	3	3	-	-	-	-	3	2	3	3	2
C307.3	3	3	3	3	3	3	-	-	-	-	3	2	2	3	2
C307.4	3	3	2	3	3	3	-	-	-	-	3	2	3	3	3
C307.5	3	3	2	3	2	3	-	-	-	-	3	2	3	3	3
Average	**2.8**	**3.0**	**2.6**	**3.0**	**2.8**	**3.0**	**0**	**0**	**0**	**0**	**3.0**	**2.0**	**2.8**	**3.0**	**2.4**

Course Name: C308- EC8561 Communication Systems Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C308.1	3	3	3	3	3	3	-	-	-	-	1	2	3	3	2

C308.2	3	3	3	3	3	2	-	-	-	-	2	3	3	3	1
C308.3	3	3	3	3	3	2	-	-	-	-	2	3	3	3	3
C308.4	3	3	3	3	3	3	-	-	-	-	3	1	3	3	3
C308.5	3	3	3	3	3	2	-	-	-	-	3	3	3	3	3
Average	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.4**	**0**	**0**	**0**	**0**	**2.2**	**2.4**	**3.0**	**3.0**	**2.4**

Course Name: C309- EC8563 Networks Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C309.1	3	3	2	3	3	3	-	-	-	-	1	3	3	3	2
C309.2	3	3	3	3	3	2	-	-	-	-	1	1	3	2	1
C309.3	3	3	2	3	3	2	-	-	-	-	2	2	3	3	1
C309.4	3	3	3	3	3	3	-	-	-	-	3	2	3	2	2
C309.5	3	2	3	3	2	2	-	-	-	-	2	2	3	3	3
Average	**3.0**	**2.8**	**2.6**	**3.0**	**2.8**	**2.4**	**0**	**0**	**0**	**0**	**1.8**	**2.0**	**3.0**	**2.6**	**1.8**

Course Name: C310- EC8691 Microprocessors and Microcontrollers

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C310.1	3	3	2	3	3	3	-	-	-	-	3	1	3	3	2
C310.2	3	3	3	3	3	3	-	-	-	-	1	3	3	2	1
C310.3	3	3	3	3	3	3	-	-	-	-	1	3	3	3	3
C310.4	3	3	2	3	2	3	-	-	-	-	3	3	3	2	2
C310.5	3	2	3	3	2	3	-	-	-	-	3	1	3	3	3
Average	**3.0**	**2.8**	**2.6**	**3.0**	**2.6**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**3.0**	**2.6**	**2.2**

Course Name: C311- EC8095 VLSI Design

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C311.1	3	3	2	3	1	3	-	-	-	-	1	1	2	1	2
C311.2	3	3	3	3	2	3	-	-	-	-	3	3	3	3	1

C311.3	3	3	2	3	3	1	-	-	-	-	2	3	2	3	3
C311.4	3	3	3	3	3	3	-	-	-	-	3	3	3	3	1
C311.5	3	2	3	2	1	2	-	-	-	-	1	3	2	3	3
Average	**3.0**	**2.8**	**2.6**	**2.8**	**2.0**	**2.4**	**0**	**0**	**0**	**0**	**2.0**	**2.6**	**2.4**	**2.6**	**2.0**

Course Name: C312- EC8652 Wireless Communication

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C312.1	3	3	3	3	3	3	-	-	-	-	3	1	3	2	2
C312.2	3	3	3	3	3	3	-	-	-	-	3	3	3	2	2
C312.3	3	3	3	3	2	3	-	-	-	-	3	1	2	2	2
C312.4	2	3	3	3	2	3	-	-	-	-	1	3	3	3	3
C312.5	2	3	2	2	2	3	-	-	-	-	1	3	3	2	3
Average	**2.6**	**3.0**	**2.8**	**2.8**	**2.4**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**2.8**	**2.2**	**2.4**

Course Name: C313- MG8591 Principles of Management

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C313.1	-	-	-	-	-	3	3	2	-	2	2	1	-	-	-
C313.2	-	-	-	-	-	3	3	3	-	2	1	3	-	-	-
C313.3	-	-	-	-	-	3	3	3	-	3	2	3	-	-	-
C313.4	-	-	-	-	-	3	3	2	-	2	2	3	-	-	-
C313.5	-	-	-	-	-	3	2	2	-	2	3	2	-	-	-
Average	**0**	**0**	**0**	**0**	**0**	**3.0**	**2.8**	**2.4**	**0**	**2.2**	**2.0**	**2.4**	**0**	**0**	**0**

Course Name: C314- EC8651 Transmission Lines and RF Systems

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C314.1	3	3	3	3	2	3	-	-	-	-	1	2	2	1	2
C314.2	3	2	3	3	2	3	-	-	-	-	3	2	3	1	1
C314.3	3	3	3	3	1	3	-	-	-	-	3	2	2	1	3

C314.4	3	3	3	3	2	3	-	-	-	-	3	2	3	1	3
C314.5	3	2	3	2	2	3	-	-	-	-	1	2	2	1	3
Average	**3.0**	**2.6**	**3.0**	**2.8**	**1.8**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.0**	**2.4**	**1.0**	**2.4**

Course Name: C315- Naan Muthalvan

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C315.1	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
C315.2	3	3	3	3	3	2	2	1	3	3	3	2	3	3	3
C315.3	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
C315.4	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
C315.5	3	3	3	3	3	2	2	1	3	3	3	2	3	3	3
Average	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.0**	**2.0**	**1.6**	**3.0**	**3.0**	**3.0**	**2.0**	**3.0**	**3.0**	**3.0**

Course Name: C316- EC8681 Microprocessors and Microcontrollers Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C316.1	3	3	3	3	3	3	-	-	-	-	1	2	3	3	2
C316.2	2	3	3	3	3	3	-	-	-	-	2	3	3	3	1
C316.3	3	3	3	3	3	3	-	-	-	-	2	3	2	3	3
C316.4	2	3	3	3	3	3	-	-	-	-	1	1	3	3	2
C316.5	3	3	2	2	3	2	-	-	-	-	3	3	3	3	3
Average	**2.6**	**3.0**	**2.8**	**2.8**	**3.0**	**2.8**	**0**	**0**	**0**	**0**	**1.8**	**2.4**	**2.8**	**3.0**	**2.2**

Course Name: C317- EC8661 VLSI Design Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C317.1	3	3	3	3	2	3	-	-	-	-	2	2	3	2	3
C317.2	3	3	3	3	3	3	-	-	-	-	2	3	3	2	3
C317.3	3	3	3	3	3	3	-	-	-	-	3	2	2	2	3
C317.4	3	3	3	3	3	3	-	-	-	-	2	2	3	1	3

C317.5	3	3	2	2	1	3	-	-	-	-	2	2	3	2	3
Average	**3.0**	**3.0**	**2.8**	**2.8**	**2.4**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**2.8**	**1.8**	**3.0**

Course Name: C318- EC8611 Technical Seminar

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C318.1	-	3	-	3	3	3	-	2	2	2	3	3	3	1	3
C318.2	-	3	-	3	3	3	-	2	2	2	3	3	3	2	3
C318.3	-	3	-	3	3	3	-	2	2	2	3	3	3	3	3
C318.4	-	3	-	3	3	3	-	2	2	2	3	3	3	2	3
C318.5	-	3	-	3	3	3	-	2	2	2	3	3	2	3	3
Average	**0**	**3.0**	**0**	**3.0**	**3.0**	**3.0**	**0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**2.8**	**2.2**	**3.0**

Course Name: C319- HS8581 Professional Communication

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C319.1	-	-	-	-	-	3	-	-	-	3	-	2	-	-	-
C319.2	-	-	-	-	-	3	-	-	-	3	-	2	-	-	-
C319.3	-	-	-	-	-	3	-	-	-	3	-	2	-	-	-
C319.4	-	-	-	-	-	3	-	-	-	3	-	2	-	-	-
C319.5	-	-	-	-	-	3	-	-	-	3	-	2	-	-	-
Average	**0**	**0**	**0**	**0**	**0**	**3.0**	**0**	**0**	**0**	**3.0**	**0**	**2.0**	**0**	**0**	**0**

Course Name: C401- EC8701 Antennas and Microwave Engineering

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C401.1	3	3	3	3	2	3	-	-	-	-	3	2	3	1	2
C401.2	3	3	3	3	2	3	-	-	-	-	3	2	3	2	1
C401.3	3	3	3	3	2	3	-	-	-	-	3	2	3	3	3
C401.4	3	3	3	3	2	3	-	-	-	-	3	2	3	2	2
C401.5	3	3	3	2	2	3	-	-	-	-	3	2	3	3	3
Average	**3.0**	**3.0**	**3.0**	**2.8**	**2.0**	**3.0**	**0**	**0**	**0**	**0**	**3.0**	**2.0**	**3.0**	**2.2**	**2.2**

Course Name: C402- EC8751 Optical Communication

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	3	3	3	3	-	3	-	-	-	-	1	2	3	2	2
C402.2	3	3	3	3	-	3	-	-	-	-	2	2	3	1	2
C402.3	3	3	3	3	-	3	-	-	-	-	3	2	3	2	2
C402.4	3	3	3	3	-	3	-	-	-	-	3	2	3	1	3
C402.5	3	3	3	2	-	3	-	-	-	-	1	2	3	2	3
Average	**3.0**	**3.0**	**3.0**	**2.8**	**0**	**3.0**	**0**	**0**	**0**	**0**	**2.0**	**2.0**	**3.0**	**1.6**	**2.4**

Course Name: C403- EC8791 Embedded and Real Time Systems

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	3	3	3	3	2	3	-	-	-	-	2	3	2	3	3
C403.2	3	3	3	3	2	3	-	-	-	-	2	3	3	2	3
C403.3	3	3	3	3	2	3	-	-	-	-	3	2	2	3	3
C403.4	3	3	3	3	2	3	-	-	-	-	3	2	3	2	3
C403.5	3	3	3	2	3	3	-	-	-	-	2	2	2	3	3
Average	**3.0**	**3.0**	**3.0**	**2.8**	**2.2**	**3.0**	**0**	**0**	**0**	**0**	**2.4**	**2.4**	**2.4**	**2.6**	**3.0**

Course Name: C404-EC8702 Ad hoc and Wireless Sensor Networks

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C404.1	3	3	3	3	2	3	-	-	-	-	3	2	2	1	3
C404.2	3	3	3	3	2	3	-	-	-	-	2	2	3	2	3
C404.3	3	3	3	3	1	3	-	-	-	-	3	3	2	2	3
C404.4	3	3	3	3	2	3	-	-	-	-	2	2	3	2	3
C404.5	2	1	3	2	2	3	-	-	-	-	3	2	2	3	3
Average	**2.8**	**2.6**	**3.0**	**2.8**	**1.8**	**3.0**	**0**	**0**	**0**	**0**	**2.6**	**2.2**	**2.4**	**2.0**	**3.0**

Course Name: C405- OME754 Industrial Safety

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

C405.1	-	-	-	-	-	-	2	3	3	3	3	3	-	-	-
C405.2	-	-	-	-	-	-	2	3	3	3	3	3	-	-	-
C405.3	-	-	-	-	-	-	2	2	3	3	3	2	-	-	-
C405.4	-	-	-	-	-	-	2	2	3	3	1	3	-	-	-
C405.5	-	-	-	-	-	-	2	2	3	2	2	3	-	-	-
Average	**0**	**0**	**0**	**0**	**0**	**0**	**2.0**	**2.4**	**3.0**	**2.8**	**2.4**	**2.8**	**0**	**0**	**0**

Course Name: C406- Naan Muthalvan

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C406.1	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
C406.2	3	3	3	3	3	2	2	1	3	3	3	2	3	3	3
C406.3	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
C406.4	3	3	3	3	3	2	2	2	3	3	3	2	3	3	3
C406.5	3	3	3	3	3	2	2	1	3	3	3	2	3	3	3
Average	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	**2.0**	**2.0**	**1.6**	**3.0**	**3.0**	**3.0**	**2.0**	**3.0**	**3.0**	**3.0**

Course Name: C407-EC8711 Embedded Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C407.1	3	3	3	3	1	3	-	-	-	-	3	3	3	3	3
C407.2	3	3	3	3	1	3	-	-	-	-	3	3	3	2	3
C407.3	3	3	3	3	3	3	-	-	-	-	3	3	3	3	3
C407.4	3	3	3	3	3	3	-	-	-	-	3	3	3	2	3
C407.5	3	2	3	3	3	3	-	-	-	-	3	3	3	3	3
Average	**3.0**	**2.8**	**3.0**	**3.0**	**2.2**	**3.0**	**0**	**0**	**0**	**0**	**3.0**	**3.0**	**3.0**	**2.6**	**3.0**

Course Name: C408-EC8761Advanced Communication Laboratory

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C408.1	3	3	3	3	3	3	-	-	-	-	3	3	3	3	2

C408.2	3	3	3	3	3	3	-	-	-	-	2	2	3	3	2
C408.3	3	3	3	3	3	3	-	-	-	-	2	2	3	2	2
C408.4	3	3	3	3	3	3	-	-	-	-	2	2	3	3	3
C408.5	3	3	3	2	3	2	-	-	-	-	2	2	3	2	3
Average	**3.0**	**3.0**	**3.0**	**2.8**	**3.0**	**2.8**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**3.0**	**2.6**	**2.4**

Course Name: C409-EC8093 Digital Image Processing

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409.1	3	3	3	3	3	3	-	-	-	-	3	1	3	1	2
C409.2	3	2	2	3	3	3	-	-	-	-	2	3	3	2	1
C409.3	3	3	3	3	3	3	-	-	-	-	2	3	3	1	3
C409.4	3	3	2	3	3	3	-	-	-	-	2	3	3	2	2
C409.5	3	2	3	3	2	3	-	-	-	-	2	1	3	3	3
Average	**3.0**	**2.6**	**2.6**	**3.0**	**2.8**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**3.0**	**1.8**	**2.2**

Course Name: C410-EC8094 Satellite Communication

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C410.1	3	3	3	3	2	3	-	-	-	-	3	1	3	3	2
C410.2	3	2	3	3	2	3	-	-	-	-	2	3	3	3	1
C410.3	3	3	3	3	1	3	-	-	-	-	2	3	3	3	3
C410.4	3	3	3	3	2	3	-	-	-	-	2	2	3	3	2
C410.5	3	2	3	2	2	3	-	-	-	-	2	2	3	2	3
Average	**3.0**	**2.6**	**3.0**	**2.8**	**1.8**	**3.0**	**0**	**0**	**0**	**0**	**2.2**	**2.2**	**3.0**	**2.8**	**2.2**

Course Name: C411-EC8811 Project Work

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C411.1	3	3	3	3	3	3	-	2	3	3	3	2	3	3	3
C411.2	3	3	3	3	3	3	-	1	3	3	3	2	3	3	3

C411.3	3	3	3	3	3	3	-	2	3	3	3	2	3	3	3
C411.4	3	3	3	3	3	3	-	2	3	3	3	2	3	3	3
C411.5	3	3	3	3	3	3	-	1	3	3	3	2	3	3	3
Average	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	**3.0**	0	**1.6**	**3.0**	**3.0**	**3.0**	**2.0**	**3.0**	**3.0**	**3.0**