

3.1.3 <u>Program level Course- PO/PSOs matrix of ALL courses including first year</u> <u>courses</u>

S.NO	Particulars	Page number
1	Course Outcomes(CO) for the	2-22
	Academic Year (2020-21)	
2	CO/PO/PSO Mappings for the Academic Year	23-34
	(2020-21)	

Programme: B.E. Instrumentation and Control Engineering

Course OutComes for the Academic Year : 2020-21

for the	Title:COMMUNICATIVE ENGLISH,Subject Code:HS8151 NBA Code for the Subject :C101 ,Semester : 1 [20-210DD]Target		
:65 Cre			
	end of this course, Student will be able to		
CO- Code	Course outcome Description		
C101.1	To enable the learners develop their basic communication skills in English based on LSRW skills		
C101.2	To inculcate the habit of reading and writing leading to effective and efficient communication		
C101.3	Read articles of general kind in magazines and news papers		
C101.4	Participate effectively in informal conversations; introduce themselves and their friends and express opinion in English		
C101.5	Comprehend conversations and short talks delivered in English		
C101.6	Write short essays of general kind and personal letters and e-mails in English		
	IGINEERING MATHEMATICS - I,Subject Code:MA8151 NBA r the Subject :C102 ,Semester : 1 [20-210DD]Target dits:4		
At the e	end of this course, Student will be able to		
CO- Code	Course outcome Description		
C102.1	Understand the limit, continuity and derivative of the functions. Solve various functions and its maxima /minima using differentiation rules.		
C102.2	Apply the total and partial derivatives in Taylor series expansion of functions and the extremum of functions.		
C102.3	Evaluate the integrals both by using Riemann sums and by using the Fundamental theorem of Calculus. Evaluate integrals using various techniques of integration.		
C102.4	Understand the concepts of double integration and determine the area using integration. Also understands the concepts of the change of order of integration and Change of variables in integrals.		
C102.5	Understand the concepts of Triple integration and determine the volume using integration.		
C102.6	Solve the linear equations of second and higher order with constant, and variable coefficients, simultaneous first order differential equations. Apply the method of variation of parameters and undertermined coefficients in solving the differential equation.		
	Title:ENGINEERING PHYSICS,Subject Code:PH8151 NBA Code for the Subject :C103 ,Semester : 1 [20-210DD]Target :65 Credits:3		
At the e	end of this course, Student will be able to		
CO- Code	Course outcome Description		
C103.1	The students will gain knowledge on the basics of properties of matter and its applications		
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C103.2	The students will acquire the knowledge in optical devices and their applications in fibre optics
C103.3	The students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchanger
C103.4	The student will get knowledge on advanced physics concepts of quantum theory and its applications in tunnelling microscope
C103.5	The students will understand the basics of crystals, their structures and different crystal growth techniques
C103.6	The students will acquire knowledge on the concepts waves and oscillatory motion
	IGINEERING CHEMISTRY,Subject Code:CY8151 NBA Code for ject :C104 ,Semester : 1 [20-210DD]Target :65 Credits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C104.1	Familiarise the students with boiler feed water, its requirements, related problems and water treatment techniques for industrial applications.
C104.2	Discuss the basics and principles of adsorption for industrial applications.
C104.3	Develop an understanding of the basic concepts of phase rule, its application to one/two component systems and appreciate the purpose and significances of alloys.
C104.4	Explain the different types of fuels, their synthesis and analysis.
C104.5	Analysis of combustion process and its calculations.
C104.6	Summarise the knowledge on various energy sources and kinds of batteries.
Code:G	COBLEM SOLVING AND PYTHON PROGRAMMING, Subject E8151 NBA Code for the Subject :C105 ,Semester : 1 [20- Target :65 Credits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C105.1	Develop Algorithmic solutions to simple Computational Problems
C105.2	Read,write, execute by handful of simple python programs
C105.3	Structure Simple python programs for solving problems
C105.4	Decompose a python programs into functions
C105.5	Represent Compound data using Python lists,tuples and Dictionaries
C105.6	Read & Write Data from /to Files in python programs
	IGINEERING GRAPHICS,Subject Code:GE8152 NBA Code for ject :C106.4 ,Semester : 1 [20-210DD]Target :65 Credits:4
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
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C106.4.1	Student will able to develop the graphic skills for communication of concepts, curves, ideas and design of engineering products.	
C106.4.2	Student will able to develop the creative knowledge about the free hand sketching of basic geometrical constructions and multiple views.	
C106.4.3	3 Student will able to represent the application of orthographic projections for lines and plane surfaces.	
C106.4.4	⁴ Student will able to create the projection solids, section and development of surfaces.	
C106.4.5	Student will able to learn the optimum path for the benefit of society by using isometric and perspective sections of simple solids	
C106.4.6	6 Students will able to learn the standards of technical drawings.	
LABORA	OBLEM SOLVING AND PYTHON PROGRAMMING TORY,Subject Code:GE8161 NBA Code for the Subject Semester : 1 [20-210DD]Target :65 Credits:2	
At the e	nd of this course, Student will be able to	
CO- Code	Course outcome Description	
C107.1	Write, test, and debug simple Python programs.	
C107.2	Implement Python programs with conditional statements.	
C107.3	Implement Python programs with iterative statements.	
C107.4	Develop Python programs step-wise by defining functions and calling them.	
C107.5	Use Python lists, tuples, dictionaries for representing compound data.	
C107.6	Read and write data from/to files in Python.	
Code:BS	YSICS AND CHEMISTRY LABORATORY,Subject 8161 NBA Code for the Subject :CBS8161 ,Semester : 1 DD]Target :65 Credits:2	
At the e	nd of this course, Student will be able to	
CO-Code	e Course outcome Description	
CBS8161	.1 -	
CBS8161	.2 -	
CBS8161	.3 -	
CBS8161	Analyze the various water quality parameters like .4 hardness,alkalinity and dissolved oxygen content in the water sample.	
CBS8161	.5 Acquire practical skills by using instruments Conductivity meter, pH meter and Potentiometer.	
CBS8161	.6 Find the molecular weight of a polymer by viscometer.	
	CHNICAL ENGLISH, Subject Code: HS8251 NBA Code for the :C110 , Semester : 2 [20-21EVEN] Target :60 Credits:4	
At the e	nd of this course, Student will be able to	
CO- Code	Course outcome Description	
	To enable the learners to develop their basic communication	
C110.1	to enable the tearners to develop their basic communication	

	skills in English based on LSRW skills
C110.2	To inculcate the habit of reading and writing leading to effective and efficient communication
C110.3	To inculcate the habit of reading and writing leading to effective and efficient communication
C110.4	To inculcate the habit of reading and writing leading to effective and efficient communication
C110.5	Speak appropriately and effectively in varied formal and informal contexts
C110.6	Write reports and winning job applications
	IGINEERING MATHEMATICS - II,Subject Code:MA8251 NBA r the Subject :C110 ,Semester : 2 [20-21EVEN]Target dits:4
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C110.1	Eigen values and eigenvectors, diagonalization of a matrix, symmetric matrices, positive definite matrices and similar matrices.
C110.2	Gradient, divergence and curl of a vector point function and related identities.
C110.3	Evaluation of line,surface and volume integrals using Guass,Stokes and Green¿s theorems and their verification.
C110.4	Analytic functions,Conformal mapping and Complex integration.
C110.5	Solve contour integration and Cauchy Residue theorem.
C110.6	Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.
Code:P	IYSICS FOR ELECTRONICS ENGINEERING,Subject H8253 NBA Code for the Subject :C111 ,Semester : 2 [20- I]Target :65 Credits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C111.1	To gain knowledge on classical and quantum electron theories, and energy band structuues
C111.2	To acquire knowledge on basics of semiconductor physics and its applications in various devices,
C111.3	To get knowledge on magnetic and dielectric properties of materials
C111.4	To get knowledge on magnetic and dielectric properties of materials
C111.5	To understand the basics of quantum structures and their applications in spintronics and carbon electronics
C111.6	To understand the basics of quantum structures and their applications in spintronics and carbon electronics
	RCUIT THEORY,Subject Code:EE8251 NBA Code for the :C113 ,Semester : 2 [20-21EVEN]Target :65 Credits:3
At the e	nd of this course, Student will be able to
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CO- Code	Course outcome Description		
C113.1	APPLY KVL AND KCL TO SIMPLE CIRCUITS AND SOLVE COMPLEX CIRCUITS USING MESH AND NODAL ANALYSIS		
C113.2	UNDERSTAND THE CONCEPT OF NETWORK REDUCTION TECHNIQUE USING SERIES AND PARELLEL COMBINATION AND STAR DELTA CONVERSION		
C113.3	APPLY NETWORK THEOREM TO SOLVE SIMPLE AND COMPLEX LINEAR CIRCUITS		
C113.4	DEVELOPE THE TRANSIENT RESPONSE OF RLC CIRCUITS USING LAPLACE TRANSFORM		
C113.5	ILLUSTRATE THE CONCEPTS IN SINGLE AND THREE PHASE CIRCUITS AND FORMULATE THE EXPRESSIONS FOR V,I&PF FOR ALL THE LOADS		
C113.6	SOLVE THE SERIES AND PARELLEL REASONANT CIRCUIT.ANALYZE THE PERFORMANCE OF SINGLE & DOUBLE TUNED CIRCUITS		
Code:B	ASIC CIVIL AND MECHANICAL ENGINEERING,Subject E8252 NBA Code for the Subject :C114 ,Semester : 2 [20- I]Target :65 Credits:4		
At the e	end of this course, Student will be able to		
CO- Code	Course outcome Description		
C114.1	Student will be able to appreciate the Civil and Mechanical Engineering components of Projects.		
C114.2	Student will be able to explain the usage of construction material and proper selection of construction materials.		
C114.3	Student will be able to measure distances and area by surveying		
C114.4	Student will be able to identify the components used in power plant cycle.		
C114.5	Student will be able to demonstrate working principles of petrol and diesel engine.		
C114.6	Student will be able to elaborate the components of refrigeration and Air conditioning cycle.		
Code:G	Title:ENVIRONMENTAL SCIENCE AND ENGINEERING,Subject Code:GE8291 NBA Code for the Subject :C114 ,Semester : 2 [20- 21EVEN]Target :65 Credits:3		
At the e	At the end of this course, Student will be able to		
CO- Code	Course outcome Description		
C114.1	Infer the importance of environment and explain the concept, types, structure and functions of ecosystem.		
C114.2	Recall the various functions, different values, measurement, levels, threats and the need for conservation of biodiversity.		
C114.3	Explain the different types of pollution and propose the suitable methods to prevent the same to enhance the environment.		
C114.4	Discuss the different types of natural resources, characteristics, optimum usage and its importance of conservation of natural resources.		
C114.5	List the various social issues, environmental protection acts, Page 6 of 34		

	different disasters and possible solutions to protect the environment for sustainable development.	
C114.6	Describe the effects of population explosion, trend of population in various countries and explain the role of IT in environment and human health.	
	ECTRIC CIRCUITS LABORATORY,Subject Code:EE8261 NBA or the Subject :C116 ,Semester : 2 [20-21EVEN]Target dits:2	
At the e	end of this course, Student will be able to	
CO- Code	Course outcome Description	
C116.1	Explain practically the concept of circuit laws, thevenins theorem	
C116.2	Acquire the knowledge of Norton, Superposition and Maximum power transfer theorem in electrical network	
C116.3	Use basic laboratory equipment such as multimeter, power supply, signal generators and oscilloscope and its techniques to measure electrical quantities	
C116.4	Understand the concept of transients, frequency response of RLC circuit, Resonance circuit and 3 phase circuits	
C116.5	Become proficient with computer skills for the analysis and design of circuits using PSPICE/MULTISIM	
C116.6	Acquire team work skills for working effectively in groups	
Code:M	RANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS, Subject A8353 NBA Code for the Subject :C201 ,Semester : 3 [20- Target :65 Credits:4	
At the e	end of this course, Student will be able to	
CO- Code	Course outcome Description	
C201.1	The fundamental concepts of partial differential equations and the various solution procedures for solving the first order non-linear partial differential equations.	
C201.2	Analytical methods for solving higher order partial differential equations.	
C201.3	Understand the Dirichlet's conditions, the basic concepts in Fourier series, analyze their properties such as parsevals identity and its problems.	
C201.4	The application of Fourier series for solving the initial boundary value problems in one Dimensional wave and heat equations and boundary value problems in elliptic equations.	
C201.5	Understand ,Apply,Evaluate and analyse the concepts of Fourier transform and mathematical concepts which are applied in various field of Engineering.	
C201.6	The mathematical techniques of Z-transform applied in various topics in engineering discipline.	
	Title:DIGITAL LOGIC CIRCUITS,Subject Code:EE8351 NBA Code for the Subject :C202 ,Semester : 3 [20-210DD]Target :65 Credits:3	
At the e	end of this course, Student will be able to	
CO- Code	Course outcome Description	
C202.1	Describe the various types of number systems, binary codes and examine the digital logic families	

C202.2	Use K map for simplification and implementation of combinational logic circuit.	
C202.3	Explain the synchronous sequential logic circuits and produce a state transition diagram from a description of sequential logic function.	
C202.4	Demonstrate the synchronous sequential circuits and describe the operation of programmable logic devices	
C202.5	Describe the VHDL programming language for logic circuits	
C202.6	Produce VHDL coding for combinational logic and sequential circuits	
	ECTRON DEVICES AND CIRCUITS,Subject Code:EC8353 NBA r the Subject :C203 ,Semester : 3 [20-210DD]Target dits:3	
At the e	nd of this course, Student will be able to	
CO- Code	Course outcome Description	
C203.1	explain the operation & characteristics of PN junction diode, operation with it sclassification	
C203.2	draw & explain the structure, operation & characteristics of BJT, JFET, MOSFET & UJT	
C203.3	differentiate CB, CE, CC amplifiers	
C203.4	discuss multistage and differential amplifier	
C203.5	describe about negative and positive feedback	
C203.6	explain about the oscillator and its types	
for the :65 Cre		
At the e	nd of this course, Student will be able to	
CO- Code	Course outcome Description	
C204.1	Examine current and voltage using various types of instruments	
C204.2	Examine power and energy using wattmeter and energy meter	
C204.3	Determine unknown potential drop using potentiometer	
C204.4	Distinguish the operation of current and potential transformers.	
C204.5	Understand the concept of various resistance measuring methods.	
C204.6	Calculate the value of unknown impedance and capacitance using bridges.	
	ANSDUCERS ENGINEERING, Subject Code: El8352 NBA Code Subject : C205 , Semester : 3 [20-210DD] Target dits: 3	
At the e	At the end of this course, Student will be able to	
CO- Code	Course outcome Description	
	Derive the model and infer knowledge on the characteristics	
C205.1	Derive the model and Infer knowledge on the characteristics of transducers	

C205.2	Explain about variable resistance transducers and their characteristics.		
C205.3	Understand about variable inductance transducers and its real time applications		
C205.4	Explain about variable capacitance transducers		
C205.5	Outline the applications of other transducer and it needs		
C205.6	Calculate the value of unknown impedance and capacitance using bridges.		
	3JECT ORIENTED PROGRAMMING,Subject Code:CS8392 NBA r the Subject :C206 ,Semester : 3 [20-210DD]Target dits:3		
At the e	nd of this course, Student will be able to		
CO- Code	Course outcome Description		
C206.1	Learn the Architecture of Java Environment and understand the role of JVM and JRE.		
C206.2	understand Object Oriented Programming concepts and basic characteristics of Java		
C206.3	know the principles of inheritance and interfaces		
C206.4	define exceptions and use I/O streams		
C206.5	develop a java application with threads and generics classes		
C206.6	design and build simple Graphical User Interfaces		
Code:C	3JECT ORIENTED PROGRAMMING LAB,Subject 58383 NBA Code for the Subject :C207 ,Semester : 3 [20- Target :80 Credits:2		
At the e	nd of this course, Student will be able to		
CO- Code	I (ourse outcome Description		
C207.1	To build software development skills using java programming for real-world applications.		
C207.2	Learn Features of Object oriented programming by developing programs using Classes,Packages and Interfaces.		
C207.3	Design and implement java programs using Exceptions,Arrays.		
C207.4	Develop java applications using multithreading,Generic Programming		
C207.5	Design and implement java programs using I/O Streams.		
C207.6	Learn to develop GUI programming and event handling using swing and awt classes		
Code:El	Title:MEASUREMENTS AND TRANSDUCERS LABORATORY,Subject Code:El8361 NBA Code for the Subject :C207 ,Semester : 3 [20- 210DD]Target :65 Credits:2		
At the e	At the end of this course, Student will be able to		
CO- Code	Course outcome Description		
C207.1	Investigate the characteristics of strain gauge, load cell and potentiometer		
C207.2	Analyze Hall Effect transducer, LVDT and Photoelectric tachometer		
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C207.3	Implement LDR, thermistor, RTD and thermocouple.
C207.4	Investigate the Wheatstone, Schering, Anderson and Kelvin¿s bridge and measurement of angular displacement
C207.5	Examine various single-phase energy meter and wattmeter
C207.6	Investigate the calibration of Ammeter and Voltmeter.
	umerical Methods,Subject Code:MA8491 NBA Code for the :C209 ,Semester : 4 [20-21EVEN]Target :60 Credits:4
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C209.1	solve algebraic and transcendental equations by various methods. Simultaneous linear equations using direct and indirect methods. Compute Eigen values of a matrix by power method.
C209.2	Interpret the data using interpolation by various methods and cubic spline approximation.
C209.3	Compute the numerical differentiation using various methods and integration using trapezoidal and simpson's rule to solve single and double integration.
C209.4	Solving first order and second order differential equations using various types of single step methods.
C209.5	Solving first order and second order differential equations using various types of multi step methods.
C209.6	Applying finite difference method for solving two point linear boundary value problems. Solving one dimentional heat flow equation and wave equation by explicit and implicit methods to Solve two dimensional heat equations.
	ectrical Machines,Subject Code:El8451 NBA Code for the :C210 ,Semester : 4 [20-21EVEN]Target :65 Credits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C210.1	Acquire knowledge to solve problems associated with DC and AC Machines
C210.2	Test and control different machines based on the familiarity of basic concepts and working principle.
C210.3	Choose appropriate machines for a given application while carrying out projects. Ability to choose appropriate machines for a given application while carrying out projects.
C210.4	Apply the knowledge gained to choose appropriate machines for specific application useful for the society
C210.5	Know about the latest developments related to machines and to learn their concepts even after the completion of the course
C210.6	acquire knowledge of Special Electrical Machines
	dustrial Instrumentation - I,Subject Code:El8452 NBA Code Subject :C211 ,Semester : 4 [20-21EVEN]Target dits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
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C211.1	Ability to understand the construction and working of instruments used for measurement of force, torque, speed, acceleration, vibration, density, viscosity, humidity, moisture, temperature.
C211.2	Ability to select instruments according to the application.
C211.3	Ability to understand the concept of calibration of instruments and gain knowledge about temperature measurement devices.
C211.4	Ability to design signal conditioning circuits and compensation schemes for temperature measuring instruments.
C211.5	Ability to understand the working of instruments used for measurement of pressure.
C211.6	Ability to measure fiber optic sensor to measure temperature.
Code:El 21EVEN	near Integrated Circuitsand Applications,Subject E8451 NBA Code for the Subject :C213 ,Semester : 4 [20-]Target :65 Credits:3
	nd of this course, Student will be able to
CO- Code	Course outcome Description
C213.1	Explain the fundamentals, classification, procedures for the realization of monolithic ICs and discuss the fabrication of diodes, capacitance, resistance, FETs
C213.2	Describe the characteristics of operational amplifier and explain the basic applications of OP-Amp
C213.3	Explain the concepts of amplifiers, filters, comparators, Multivibrators, waveform generators, peak detectors, S/H circuit, A/D and D/A converters using OP-Amp
C213.4	Describe the internal functional blocks, characteristics and applications of timer, voltage controlled oscillator, phase lock loop and analog multiplier ICs
C213.5	Discuss the internal functional blocks, working principle and applications of voltage regulators and SMPS
C213.6	Describe the internal functional blocks, characteristics and application of power amplifier and function generator IC
	ontrol Systems,Subject Code:IC8451 NBA Code for the :C213 ,Semester : 4 [20-21EVEN]Target :65 Credits:4
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
	Derive the transfer function of electrical and mechanical
C213.1	systems using various reduction techniques
C213.1 C213.2	
	systems using various reduction techniques Analyze the response of the control system by investigating
C213.2	systems using various reduction techniques Analyze the response of the control system by investigating steady state error and time domain specifications Construct the root locus to find the stability of the system

C213.6	Explain the state variable representation of physical systems with the effects of state feedback		
for the	Title:CommunicationEngineering,Subject Code:EC8395 NBA Code for the Subject :C314 ,Semester : 4 [20-21EVEN]Target :65 Credits:3		
At the e	nd of this course, Student will be able to		
CO- Code	Course outcome Description		
C314.1	DESIGN AND ANALYZE ANALOG TRANSMISSION SYSTEMS		
C314.2	DESIGN AND ANALYZE PULSE TRANSMISSION SYSTEMS		
C314.3	DESIGN AND ANALYZE DIGITAL TRANSMISSION SYSTEMS FOR HIGH BIT RATE TRANSMISSION		
C314.4	ANALYZE CODING TECHNIQUES TO MINIMIZE THE TRANSMISSION ERRORS		
C314.5	ANALYZE THE SPREAD SPECTRUM TECHNIQUE FOR SECURED TRANSMISSION		
C314.6	ANALYZE TECHNIQUES FOR MULTI USER COMMUNICATION		
Code fo	Title:Devices and Machines Laboratory,Subject Code:El8461 NBA Code for the Subject :C215 ,Semester : 4 [20-21EVEN]Target :65 Credits:2		
At the e	end of this course, Student will be able to		
CO- Code	Course outcome Description		
C215.1	Gain knowledge on the proper usage of various electronic equipment and simulation tools for design and analysis of electronic circuits.		
C215.2	Get hands-on experience in studying the characteristics of semiconductor devices.		
C215.3	Ability to analyze various electronic circuits such as voltage regulators, transistor amplifiers and oscillators.		
C215.4	Ability to make use of basic concepts to obtain the no load and load characteristics of D.C machines.		
C215.5	Analyze and draw conclusion from the characteristics obtained by conducting experiments on machines.		
C215.6	Ability to carry out the Experiments in batches to motivate the Team work.		
Code:E	Title:Linear and DigitalIntegrated Circuits Laboratory,Subject Code:EE8461 NBA Code for the Subject :C216 ,Semester : 4 [20- 21EVEN]Target :65 Credits:2		
At the e	nd of this course, Student will be able to		
CO- Code	Course outcome Description		
C216.1	demonstrate the working practice in experiment test hence to learn design, testing & characteristics of circuit behavior with digital & analog		
C216.2	to infer about the operation of linear and digital electronic circuit		
C216.3	analyse the behavior of linear & digital electronic circuit for different input conditions		
C216.4	characterize the applications of basic analog IC's and their importance in engineering		
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C216.5	investigation of functions of VCO & PLL IC's
C216.6	design & implementation of the synchronous & asynchronous counter
	nalytical Instruments,Subject Code:El8551 NBA Code for ject :C301 ,Semester : 5 [20-210DD]Target :65 Credits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C301.1	Infer various techniques and methods of analysis which occur in the various regions of the spectrum
C301.2	Classify the various chromatography techniques
C301.3	Estimate the various methods of analysis of industrial gases
C301.4	Compute the air pollution monitoring techniques
C301.5	Estimate the importance of chemical process using liquids or solutions
C301.6	Describe about the nuclear magnetic resonance and mass spectrometry techniques
	dustrial Instrumentation - II,Subject Code:EI8552 NBA r the Subject :C302 ,Semester : 5 [20-210DD]Target dits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C302.1	Define the various techniques and methods of flow meter
C302.2	Describe the various methods of quantity meters
C302.3	Examine the concept of area flow meters and mass flow meters
C302.4	Explain the concept of electrical flow meters
C302.5	Classify the various techniques of level measurements
C302.6	Describe the different types of transmitters
	ocess Control,Subject Code:El8553 NBA Code for the :C303 ,Semester : 5 [20-210DD]Target :65 Credits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C303.1	Derive the Mathematical model of first order level, flow, pressure, temperature process.
C303.2	Outline various final control elements and modelling of pneumatic actuators.
C303.3	Illustrate the effect of various control actions.
C303.4	Classify the evaluation criteria and tuning techniques of controllers.
C303.5	Elaborate the model based control schemes.
C303.6	Explain the concept of multi loop control techniques.
Code:El	croprocessors and Microcontrollers,Subject E8551 NBA Code for the Subject :C305 ,Semester : 5 [20- Target :65 Credits:3
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CO- Code	Course outcome Description
C305.1	Understand the architecture, addressing modes, Instruction set of 8086 microprocessor for programming the microprocessor and also understand the operations of stacks, interrupt service routines
C305.2	Create ALP programs in assembly language using 8085
C305.3	Understand techniques for interfacing I/O devices to the microprocessor including several specific standard I/O devices
C305.4	Understand the architecture, interrupt structure, Timer, counter of 8051 microcontroller
C305.5	Create a microcontroller based minimal system for a particular application
C305.6	Design microcontroller based system design
	hit Operation and Control,Subject Code:El8093 NBA Code Subject :C305 ,Semester : 5 [20-210DD]Target dits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C305.1	Study the unit operations involved for transportation, mixing and separation of solids.
C305.2	Study the unit operations involved for transportation, mixing and separation of fluids
C305.3	Understand the basic operations involved with heat exchangers, Distillation and chemical reactions
C305.4	Gain knowledge about the operations of evaporators and crystallizers, drying and cooling towers
C305.5	Gain knowledge on the operation of dryers, distillation column, refrigerators and chemical reactors.
C305.6	Apply concept of unit operations to Thermal Power plant, Steel Industry, Paper and Pulp Industry, Leather Industry
Code:O	R POLLUTION AND CONTROL ENGINEERINGSubject CE551 NBA Code for the Subject :C306 ,Semester : 5 [20- Target :65 Credits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C306.1	Outline the basic concepts of air quality management
C306.2	Examine the characteristics of air pollutants and their effects
C306.3	Identify, formulate and solve meteorological effects
C306.4	ability to design stacks and particulate air pollution control devices to meet applicable standards. ability to design stacks and particulate air pollution control devices to meet applicable standards
C306.5	Ability to select control equipment

Title:Microprocessors and Microcontrollers Laboratory,Subject Code:EE8681 NBA Code for the Subject :C307 ,Semester : 5 [20-210DD]Target :65 Credits:2

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At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C307.1	Understand the architecture, addressing modes, Instruction set of 8086 microprocessor for programming the microprocessor and also understand the operations of stacks, interrupt service routines
C307.2	Create ALP programs in assembly language using 8085
C307.3	Understand techniques for interfacing I/O devices to the microprocessor including several specific standard I/O devices
C307.4	Understand the architecture, interrupt structure, Timer, counter of 8051 microcontroller
C307.5	Create a microcontroller based minimal system for a particular application
C307.6	Design microcontroller based system design
Code:El	dustrial Instrumentation Laboratory,Subject 8561 NBA Code for the Subject :C307 ,Semester : 5 [20- Target :80 Credits:2
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C307.1	Experimentally verify the process in flow
C307.2	Compute various parameters like level, pressure, temperature
C307.3	Apply the speed, torque, vibration, moisture and viscosity measurement
C307.4	Experiment and control of spectrometer
C307.5	Measure the pH, conductivity of solutions
C307.6	Analyze the ECG and pulse measurement
	ta Structures ,Subject Code:CS8391 NBA Code for the :C203 ,Semester : 6 [20-21EVEN]Target :65 Credits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C203.1	Explain ADT, linked list implementations, operations and its applications
C203.2	Apply Stack and Queue ADT operations to problem solutions
C203.3	Apply different types of tree data structure(Binary, AVL, B,B+) and traversals to solve various problems
C203.4	Implement graph data structures and its traversals
C203.5	Discuss the topological sort, graph connectivity and applications of graphs
C203.6	Implement Sorting and Searching algorithms, Hash Function and Open addressing
Title:Ac	Ivanced Control System,Subject Code:IC8651 NBA Code for
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the Sub	ject :C309 ,Semester : 6 [20-21EVEN]Target :65 Credits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C309.1	construct the model of linear and non linear systems using state variable analysis
C309.2	Design and compute the state feedback control and state observer
C309.3	Examine sample data analysis
C309.4	Analyze the stability of the systems using different techniques.
C309.5	Construct phase trajectories for non- linear systems using the phase plane analysis and describing function analysis.
C309.6	Discuss the design of optimal controller.
Code:E	ogic and Distributed Control System ,Subject 18651 NBA Code for the Subject :C310 ,Semester : 6 [20- I]Target :65 Credits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C310.1	Know about the Programmable Logic Controller (PLC) and SCADA
C310.2	Explain about the basics of ladder logic programming
C310.3	Explain about the PLC programming using other languages
C310.4	Identify the architecture and local control unit of Distributed Control System (DCS).
C310.5	Gives the basic knowledge in the interfaces used in DCS.
C310.6	Know about the importance and applications of PLC and DCS used in automation industries.
Code:E	nermal Power Plant Instrumentation ,Subject 18092 NBA Code for the Subject :C312 ,Semester : 6 [20- 1]Target :65 Credits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C312.1	Describe an overview on power generation through various methods.
C312.2	Identify various measurements and controls used in power plant.
C312.3	Understand basic furnace control techniques
C312.4	Know basic boiler control techniques.
C312.5	Discriminate advanced boiler control techniques.
C312.6	Summarize the turbine control techniques.
	EMS and Nano Science ,Subject Code:EE8072 NBA Code for ject :C313-E11 ,Semester : 6 [20-21EVEN]Target dits:3
At the e	end of this course, Student will be able to
CO-	Course outcome Description
I	Page 16 of 24

Code	
	Know about the intrinsic characteristics of MEMS and Microsystems.
C313- E11.2	Understand the operation of actuators at micro level.
	Describe about the various micromachining methods like surface micromachining, bulk micromachining.
	Understand about the importance of polymer and optical MEMS.
C313- E11.5	Explain about the nano scale engineering.
	State about patterning and preparation methods at nano scale.
	oplied Soft Computing,Subject Code:EE8071 NBA Code for ject :C314 ,Semester : 6 [20-21EVEN]Target :65 Credits:3
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C314.1	Associate the concepts of architectures in neural networks.
C314.2	Illustrate the concepts of neural networks for control
C314.3	Distinguish the adaptive fuzzy system and neuro-fuzzy systems.
C314.4	Infer a comprehensive knowledge on fuzzy logic control and their applications
C314.5	Explain the concept of genetic algorithms
C314.6	Applying tabu search and ant colony search techniques for solving optimisation problems.
	ata Structures Laboratory ,Subject Code:CS8381 NBA Code Subject :C206 ,Semester : 6 [20-21EVEN]Target dits:2
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
C206.1	Implement the linear data structures like list and stack using arrays and linked list Implement the linear data structures like list and stack using arrays and linked list
C206.2	Implement the applications of linear data structures
C206.3	Implement the non-linear data structures tree and its traversals and applications
C206.4	Implement the non-linear data structures graph and its traversals
C206.5	Implement Sorting and Searching algorithms
C206.6	Implement various Hash Functions
	ofessional Communication ,Subject Code:HS8581 NBA or the Subject :C308 ,Semester : 6 [20-21EVEN]Target dits:1
At the e	end of this course, Student will be able to
CO- Code	Course outcome Description
	Page 17 of 34

C308.1	To enhance the learners speaking skill through various activities like group discussion, telephonic conversation, presentation skill etc.,
C308.2	To develop listening and speaking skills through communicative functions
C308.3	Enhance the Employability and Career Skills of student
C308.4	Orient the students towards grooming as a professional
C308.5	Make them Employability Graduates
C308.6	Develop their confidence and help them attend interviews successfully
	ocess Control Laboratory ,Subject Code:El8661 NBA Code Subject :C317 ,Semester : 6 [20-21EVEN]Target dits:2
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C317.1	Simulate lumped / distributed parameter system and identify the model using non parametric identification methods.
C317.2	Analyze process control engineering problems and control valve characteristics.
C317.3	Apply the tuning techniques on PID controllers for solving various practical problems and to face implementation issues.
C317.4	Experiment and control of closed loop AC and DC drives.
C317.5	Experimentally verify the process control concepts on the selected process control loops like level, pressure, temperature and flow.
C317.6	Apply the complex control techniques like cascade, feed forward on three tank and four tank system and model predictive control schemes.
	ECTRONICS INSTRUMENTATION,Subject Code:EI8692 NBA r the Subject :C310 ,Semester : 7 [20-210DD]Target dits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C310.1	Outlines the varies electronics instruments and their applications.
C310.2	Explains about the cathode ray oscilloscopes, their applications and different types of signal analyzers.
C310.3	Illustrates about virtual instrumentation, its applications
C310.4	Describe the telemetry, modulation techniques and multiplexing.
C310.5	Demonstrate the LabVIEW programming.
C310.6	Experiment to do interfaces with real time processes with aid of NI components.
Code:El	STRUMENTATION IN PETROCHEMICAL INDUSTRIES,Subject 8091 NBA Code for the Subject :C402 ,Semester : 7 [20- Target :65 Credits:3
At the e	nd of this course, Student will be able to
	Page 18 of 34

CO- Code	Course outcome Description
C402.1	introduce the students the method of oil recovery
C402.2	make the students understand the process behavior of some of the important unit operations in petrochemical industry through mathematical model
C402.3	familirize the students to apply knowledge to select the appropriate control strategy for the selective process
C402.4	provide information about the most important derivatives obtained from petroleum products
C402.5	help the students in understanding selection and maintenance of instruments in petrochemical industry
C402.6	introduce the steps involved in oil gas production process
	GITAL IMAGE PROCESSING, Subject Code: EC8093 NBA Code Subject : C403 , Semester : 7 [20-210DD] Target dits: 3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C403.1	Understand the basics and fundamentals of digital image processing
C403.2	Understand and apply the techniques used in image enhancement
C403.3	Understand and apply the techniques used in image restoration
C403.4	Understand the basics of segmentation and feature extraction techniques
C403.5	understand the basics of compression and recognition methods
C403.6	Apply the knowledge gained in segmentation methods
	DUSTRIAL DATA NETWORKS,Subject Code:EI8751 NBA Code Subject :C403 ,Semester : 7 [20-210DD]Target dits:3
At the e	nd of this course, Student will be able to
CO- Code	Course outcome Description
C403.1	Infer knowledge on the basic concepts of data networks.
C403.2	Define the basics concepts of internetworking and serial communications.
C403.3	Describe the uses of HART and Field buses in process industries.
C403.4	Recognize the importance of MODBUS, PROFIBUS and other communication protocol.
C403.5	Identify the importance and applications of foundation fieldbus
C403.6	Exhibit the concept of industrial Ethernet and wireless communication techniques.
Code:El	BRE OPTICS AND LASER INSTRUMENTATION,Subject 8075 NBA Code for the Subject :C404-E31 ,Semester : 7 DDD]Target :65 Credits:3
	Page 19 of 34

CO- Code	Course	outcome Description					
C404- E31.1		tand the principle, transmission, dispersion and ation characteristics of optical fibers					
C404- E31.2		e knowledge on the concepts of waves and optical s and their applications in fibre optics					
C404- E31.3		he gained knowledge on optical fibers for its use as inication medium.					
C404- E31.4	import	knowledge optical fibre as a sensor which have ant applications in production, manufacturing ial and biomedical applications.					
C404- E31.5	Unders	tand laser theory and laser generation system.					
C404- E31.6	Students will gain ability to apply laser theory for the selection of lasers for a specific Industrial and medical application.						
	or the S	tion To C ProgramminG,Subject Code:OCS752 NBA Subject :COEOCS752 ,Semester : 7 [20-210DD]Target					
At the	end of t	his course, Student will be able to					
CO-Coc	le	Course outcome Description					
COEOC	\$752.1	Understand the usage of datatypes and purpose of variables in programming					
COEOCS752.2		Design, implement, test and debug simple programs using basic constructs that use calculations ,selection, looping					
COEOC	\$752.3	Design, implement,test and debug simple programs using arrays					
COEOC	\$752.4	Design, implement, test and debug simple programs using strings					
COEOCS752.5		Design, implement,test and debug simple programs using functions to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.					
COEOC	\$752.6	Design, implement,test and debug simple programs using structure					
	Subjec	al Automation LAB,Subject Code:El8761 NBA Code at :C407 ,Semester : 7 [20-210DD]Target					
At the	end of t	his course, Student will be able to					
CO- Code	Cours	e outcome Description					
C407.1	Ability DCS	y to understand and Programming of PLC, SCADA and					
C407.2		part practical skills in interfacing the various field es with PLC					
C407.3	Ability	y to working with industrial automation system					
	1	le te desime and incolorement control achemica in DLC					
C407.4	Be ab	le to design and implement control schemes in PLC					

C407.6	de	sign and implement control schemes in DCS						
Code:E	1876	mentation System Design Laboratory,Subject 2 NBA Code for the Subject :C408 ,Semester : 7 [20- get :65 Credits:2						
At the e	end	of this course, Student will be able to						
CO- Code	Co	urse outcome Description						
C408.1	De	sign of instrumentation amplifiers and various filters						
C408.2	De	sign of converters and compensation systems						
C408.3	An	alyze signal conditioning circuits and flowmeters.						
C408.4		sign of controllers and control valves for various plications						
C408.5	De	Design of data acquisition system and transmitter						
C408.6		pect, installation procedures and safety regulations used industries.						
	or th	mentals of Nano Science,Subject Code:GE8073 NBA ne Subject :C410-E64 ,Semester : 8 [20-21EVEN]Target :3						
At the e	end	of this course, Student will be able to						
CO- Code	Cou	rse outcome Description						
		To learn about the basis of nano material science and its properties						
		To discuss about the various preparation methods of nano naterials						
C410- E64.3	Infe	r various nano materials and its method of synthesis						
		elop knowledge about various characterization techniques ano materials						
		dentify the various applications of nanotechnology in puting						
		dentify the various applications of nanotechnology in nedical						
Code:G	iE80	ESSIONAL ETHICS IN ENGINEERING,Subject 76 NBA Code for the Subject :C411E51 ,Semester : 8 N]Target :65 Credits:3						
At the e	end	of this course, Student will be able to						
CO-Cod	le	Course outcome Description						
C411E5	1.1	Understanding the human values and ethics in the human excellence and behaviour in the organisation						
C411E5	1.2	helps to understand the characteristics of morals and engineer's conduct of behaviour and practice in the workplace						
C411E5	1.3	Engineering as an experimental process to understand the various ethical implications						
C411E5	1.4	responsibility of engineers to ensure the safety, health and welfare of the public						
C411E5	1 5	the importance of ethics in dealing with the global issues, computer ethics and weapons development						

C411E51.6 moral guidelines of practising human, employee, professional rights in organisations.							
	oject Work ,Subject Code:IC8811 NBA Code for the :C413 ,Semester : 8 [20-21EVEN]Target :65 Credits:10						
At the end of this course, Student will be able to							
CO- Code	Course outcome Description						
C413.1	Experiment a specific problem right from its identification, formulation and obtaining successful solution for the same using various engineering techniques.						
C413.2	Choose any challenging practical problems and find solution by formulating proper methodology.						
C413.3	Prepare project reports and to face reviews and viva voce examination.						
C413.4	Integrate and work in a team.						
C413.5	Summarize the project and prepare the publication of papers and journals to expose to the technical world.						
C413.6	Discriminate various instruments and able to control systems in automation and in emerging trends of instrumentation.						

Programme: B.E. Instrumentation and Control Engineering

Academic Year:2020-21

CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101.1	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C101.2	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C101.3	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C101.4	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C101.5	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C101.6	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
<u>Subject (</u>	Code :	MA81:	51 NB.	A Cod	e : C1	0 <u>2 Ti</u>	tle :EN	NGINH	EERIN	IG MAT	THEM A	ATICS -	I Sem	ester :1	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
C102.1	3	2	1	1	-	-	-	-	1	-	-	2	-	-	-
C102.2	3	3	2	2	-	-	-	-	1	-	-	2	-	-	-
C102.3	3	2	1	1	-	-	-	-	1	-	-	2	-	-	-
C102.4	3	3	2	2	-	-	-	-	1	-	-	2	-	-	-
C102.5	3	2	2	2	-	-	-	-	1	-	-	2	-	-	-
C102.6	3	3	2	2	-	-	-	-	1	-	-	2	-	-	-
Subject (CoCode		PO2	PO3	PO4	PO5		PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
C103.1	3	3	3	3	1	-	-	-	-	2	-	3	2	1	-
C103.2	3	3	-	-	3	-	-	3	-	-	-	-	2	1	-
C103.3	-	3	3	3	3	-	-	3	-	-	-	-	2	1	-
C103.4	-	-	-	-	2	-	3	-	-	1	-	-	2	1	-
	-	3	3	3	1	-	-	-	-	-	-	2	2	1	-
C103.5															
	3	-	-	-	1	-	-	3	-	-	-	-	2	1	-
C103.5 C103.6 <u>Subject (</u>	3 Code :		51 NB4		e : C10	04 Tit	le :EN	GINE	ERIN				ester :1	<u>.</u>	-
C103.5 C103.6 Subject (CoCode	3 Code : PO1	PO2	51 NB4 PO3	PO4	e : C10	4 Tit PO6	le :EN PO7	GINE PO8	ERIN PO9	PO10	PO11	PO12	ester :1 PSO1	PSO2	- PSO
C103.5 C103.6 Subject (CoCode C104.1	3 Code :: PO1 3	PO2 2	51 NB/ PO3	PO4 1	e : C10 PO5 -	4 Tit PO6 1	le :EN PO7 2	GINE PO8 -	ERIN PO9 1	PO10 1	PO11 1	PO12 1	ester :1 PSO1 -	PSO2 -	-
C103.5 C103.6 Subject (CoCode C104.1 C104.2	3 Code : PO1 3 3	PO2 2 2	PO3 1	PO4 1 1	e : C10 PO5 - -	 PO6 1 	PO7 2 2	GINE PO8 - -	PO9 1	PO10 1 1	PO11 1 1	PO12 1 1	ester :1 PSO1 - -	PSO2 - -	-
C103.5 C103.6 Subject C CoCode C104.1 C104.2 C104.3	3 Code : PO1 3 3 3	PO2 2 2 2	51 NB4 PO3 1 1 1	PO4 1 1 1 1	e : C10 PO5 - - -	 PO6 1 1 1 	le :EN PO7 2 2 2	GINE PO8 - -	PO9 1 1 1 1	PO10 1 1 1 1	PO11 1 1 1 1	PO12 1 1 1 1	ester :1 PSO1 - -	PSO2	-
C103.5 C103.6 Subject C CoCode C104.1 C104.2 C104.3 C104.4	3 Code :: PO1 3 3 3 3 3	PO2 2 2 2 2 2	PO3 1 1 1 1 1	PO4 1 1 1 1 1 1	e : C10 PO5 - - - -	 4 Tit PO6 1 1 1 1 	le :EN PO7 2 2 2 2 2	GINE PO8	PO9 1 1 1 1 1	PO10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO11 1 1 1 1 1	PO12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ester :1 PSO1 - - - -	PSO2 - - - -	-
C103.5 C103.6 Subject C CoCode C104.1 C104.2 C104.3 C104.4 C104.5	3 Code : PO1 3 3 3 3 3 3	PO2 2 2 2 2 2 2 2	PO3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO5	 PO6 1 1 1 1 1 	le :EN PO7 2 2 2 2 2 2 2	GINE PO8	PO9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO11 1 1 1 1 1 1	PO12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ester :1 PSO1	PSO2	- - -
C103.5 C103.6 Subject (CoCode C104.1 C104.2 C104.3 C104.4 C104.5	3 Code :: PO1 3 3 3 3 3	PO2 2 2 2 2 2	PO3 1 1 1 1 1	PO4 1 1 1 1 1 1	e : C10 PO5 - - - -	 4 Tit PO6 1 1 1 1 	le :EN PO7 2 2 2 2 2	GINE PO8	PO9 1 1 1 1 1	PO10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO11 1 1 1 1 1	PO12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ester :1 PSO1 - - - -	PSO2 - - - -	-
C103.5 C103.6 Subject (CoCode C104.1 C104.2 C104.3 C104.4 C104.5 C104.6 Subject (3 Code :: PO1 3 3 3 3 3 3 Code ::	PO2 2 2 2 2 2 2 2 2 2 2 2 GE815	PO3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO5	PO6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GINE PO8	PO9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO11 1 1 1 1 1 1 1 1 1	PO12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ester :1 PSO1	PSO2	- - -
C103.5 C103.6 Subject (CoCode C104.1 C104.2 C104.3 C104.4 C104.5 C104.6 Subject (PROGR	3 PO1 3 3 3 3 3 3 3 Code ::	PO2 2 2 2 2 2 2 2 2 2 2 2 2 3 GE815 NG S	PO3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO4 1 1 1 1 1 1 1 1 1 1 A Code	e : C10 PO5 - - - - - - - - - - - - -	PO6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GINE PO8 OBLE	PO9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO11 1 1 1 1 1 1 1 1 1	PO12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ester :1 PSO1	PSO2	-
C103.5 C103.6 Subject C CoCode C104.1 C104.2 C104.3 C104.4 C104.5 C104.6 Subject C PROGR	3 PO1 3 3 3 3 3 3 3 Code ::	PO2 2 2 2 2 2 2 2 2 2 2 2 2 3 GE815 NG S	PO3 1 1 1 1 1 1 1 1 51 NB/ emest	PO4 1 1 1 1 1 1 1 1 A Code er :1	e : C10 PO5 - - - - - - - - - - - - -	PO6 1 1 1 1 1 1 1 1 5 Tit	le :EN PO7 2 2 2 2 2 2 2 2 2 2 1 e :PR	GINE PO8 OBLE	PO9 1 1 1 1 1 1 CM SO	PO10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PO12 1 1 1 1 1 1 1 1 1 PYTHC	ester :1 PSO1 - - - - - - - - - - - - -	PSO2	- - -
C103.5 C103.6 Subject C C0Code C104.1 C104.2 C104.3 C104.4 C104.5	3 Code :: PO1 3 3 3 3 3 3 3 Code :: PO1 PO1 PO1	PO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 PO2 PO2	PO3 1 1 1 1 1 1 1 1 1 1 1 PO3 PO3	PO4 1 1 1 1 1 1 1 1 1 PO4 PO4	e : C10 PO5 - - - - - - - - - - - - - - - - - - -	PO6 1 1 1 1 1 1 1 5 Tit PO6	le :EN PO7 2 2 2 2 2 2 2 2 2 2 1e :PR PO7	GINE PO8	PO9 1 1 1 1 1 1 1 CM SO PO9	PO10 1 1 1 1 1 1 1 1 1 1 PO10 PO10	PO11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 PO11	PO12 1 1 1 1 1 1 1 1 1 PYTHC	ester :1 PSO1 N PSO1 PSO1	PSO2 PSO2 PSO2	- - - - - - - -

C105.4	3	3	3	3	1	-	-	-	2	1	1	2	2	2	1
C105.5	3	3	3	2	1	-	-	-	3	1	-	2	2	2	-
C105.6	3	3	3	2	1	-	-	-	2	1	-	1	1	2	-
0105.0	5	5	5	2	1				2	1		1	1	2	
<u>Subject (</u>	Code :(GE815	3 <u>2 NB</u> A	A Code	e : C1(<u>)6.4 T</u>	itle :E	NGIN	EERI	NG GR	APHIC	<u>S Sem</u>	ester :1		
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO:
C106.4.1	3	2	3	2	1	2	1	2	1	2	2	1	1	2	2
C106.4.2	3	2	3	2	2	3	2	2	1	2	2	2	3	3	2
C106.4.3	3	2	2	2	1	1	1	1	2	2	1	2	2	2	2
C106.4.4	3	3	2	2	3	2	2	1	3	1	1	2	2	2	2
C106.4.5	3	2	2	2	2	1	1	2	3	2	2	1	2	2	2
C106.4.6	3	2	2	2	3	1	1	1	3	2	1	2	3	2	2
<u>Subject (</u> <u>PROGR</u>			ABOR			mester		OBLE	M SO	LVING PO10	AND I	PYTHO PO12	<u>N</u> PSO1	PSO2	PSO3
C107.1	3	3	3	2	103	-	-	-	2	1	2	3	3	2	2
C107.1	3	3	3	2	1	-	-	-	2	1	2	3	3	2	2
C107.2	3	3	3	2	1	-	-	_	2	1	3	3	3	2	1
C107.3	3	3	3	2	1	-	-	-	2	1	1	3	3	2	1
C107.5	3	3	3	2	1	-			2	1	1	3	3	2	1
C107.6	3	3	3	2	1		-	-	2	1	1	3	3	2	1
C107.6	3	3	3	Ζ	1	-	-	-	2	1	1	3	3	2	1
<u>Subject (</u>	Code :	<u>HS825</u>	<u>1 NBA</u>	Code	: C11	<u>0 Tit</u> l	le :TE	CHNI	CAL E	NGLIS	SH Sen	<u>iester :2</u>	2		
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C110.1	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C110.2	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C110.3	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C110.4	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C110.5	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
C110.6	-	-	-	-	-	-	-	-	3	3	2	3	1	2	-
<u>Subject (</u>	Code :	MA82:	51 NB.	A Cod	e : C1	10 Tit	tle :EN	GINE	ERIN	G MAT	THEMA	ATICS -	II Sem	ester :2	2
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C110.2	3	2	2	1	1	-	-	-	1	-	-	2	-	-	-
G110.0	3	2	2	2	1	-	-	-	1	-	-	2	-	-	-
C110.3							_								-
C110.3 C110.4	3	2	1	1	1	-	-	-	1	-	-	2	-	-	
C110.4						-	-	-		-	-		-	-	-
C110.4 C110.5	3	2	1	1	1		-	-	1			2		-	-
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C110.4 C110.5 C110.6 C110.1 Subject C	3 3 3 Code :] r :2	2 2 - PH825	1 2 -	1 2 1 Code	1 1 2 : C11	- - 1 Titl	-	-	1 1 1	-	-	2 2 2	-	-	-
C110.4 C110.5 C110.6 C110.1 Subject C Semester	3 3 3 Code :] r :2	2 2 - PH825	1 2 - 3 NBA	1 2 1 Code	1 1 2 : C11	- - 1 Titl	- - le :PH	- - YSICS	1 1 1 5 FOR	- - ELEC	- - - ΓRONΙ	2 2 2 CS EN	- - GINEE	- - - RING	-
C110.4 C110.5 C110.6 C110.1 Subject C Semester CoCode	3 3 3 Code :1 r :2 PO1	2 2 - PH825 PO2	1 2 - 3 NBA PO3	1 2 1 Code PO4	1 1 2 : C11 PO5	- - 1 Titl PO6	- - le :PH	- - YSICS	1 1 1 5 FOR	- - ELEC	- - - FRONI PO11	2 2 2 CS EN(PO12	- - GINEE PSO1	- - RING PSO2	-
C110.4 C110.5 C110.6 C110.1 Subject C Semester CoCode C111.2	3 3 3 <u>Code :</u> <u>r :2</u> PO1 3	2 2 - PH825 PO2 2	1 2 - 3 NBA PO3 2	1 2 1 Code PO4 1	1 1 2 : C11 PO5 -	- - 1 Titl PO6 -	- - le :PH PO7 -	- - YSICS PO8 -	1 1 1 5 FOR	- - ELEC	- - - - - - PO11 -	2 2 2 CS ENG PO12 1	- - GINEE PSO1 1	- - - RING PSO2 2	-
C110.4 C110.5 C110.6 C110.1 Subject C Semester CoCode C111.2 C111.3	3 3 3 Code :1 r :2 PO1 3 3	2 2 - PH825 PO2 2 2	1 2 - 3 NBA PO3 2 2 2	1 2 1 Code PO4 1 1	1 1 2 : C11 PO5 - -	- - 1 Titl PO6 -	- - le :PH PO7 -	- - YSICS PO8 -	1 1 1 5 FOR	- - ELEC	- - - - - - PO11 -	2 2 2 CS ENO PO12 1 1	- - GINEE PSO1 1 1	- - - RING PSO2 2 2	-
C110.4 C110.5 C110.6 C110.1 Subject C Semester CoCode C111.2 C111.3 C111.4	3 3 3 Code : 1 r : 2 PO1 3 3 3 3	2 2 - PH825 PO2 2 2 2 2	1 2 - 3 NBA PO3 2 2 2 2	1 2 1 Code PO4 1 1 1	1 1 2 : C11 PO5 - - -	- - 1 Tit PO6 - - -	- - le :PH PO7 - - -	- - YSICS PO8 - - -	1 1 1 5 FOR	- - ELEC	- - - - - PO11 - - -	2 2 2 CS ENG PO12 1 1 1	- - GINEE PSO1 1 1 1	- - RING 2 2 2 2	- - PSO3 - - -

CoCodePO1PO2PO3PO3PO4PO3PO4PO10PO11PO12PO30PO30113.13331333-221113.43331233-221113.43311233-221113.43311233-221113.43311233-2211113.43311233322111113.433112333-22111 <th>PSO: - - -</th>	PSO: - - -
113.3 3 3 1 - - - 2 3 3 - 2 2 1 113.4 3 3 3 1 - - 2 3 3 - 2 2 1 1 113.5 3 3 1 1 - - 2 3 3 - 2 2 1 1 113.6 3 3 1 1 - - 2 3 3 - 2 1 <td>-</td>	-
113.43331233-221113.53331233-221113.23331233-221113.23331233-221113.23331233-2211113.23331233-22111113.23312809PO9PO10PO11PO12PS01PS02CoCodePO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12PS01PS02C114.3211112211<	-
113.5 3 3 3 1 - - - 2 3 3 - 2 2 1 113.6 3 3 3 1 - - - 2 3 3 - 2 2 1 113.2 3 3 3 1 - - - 2 3 3 - 2 2 1 Subject Code: SE8252 NBA Code: CI14 THE : SASIC CULL AND MECHANICAL ENGINEERI Subject Code: SE8252 NBA Code: CI14 THE : SASIC CULL AND MECHANICAL ENGINEERI COCODE PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS02 PS02 C114.1 2 1	-
113.6 3 3 3 1 - - 2 3 3 - 2 2 3 3 - 2 2 1 Sabject Code: JEBESES INFA Code: CILI TITE: ENSIGNATIONAL SUBSCIPPONAL SUBSCIPONAL SUBSCIPPONAL SUBSCIPPONAL SUBSCIPPONAL SUBSCIPPONA	
113.2 3 3 1 - - - 2 3 3 - 2 2 1 Subject Code : BE32:52 NBA Code : CII4 TITE : BASIC CIVIL AND MECHANICAL ENGINEERI Summatice : 2 Subject Code : BE32:52 NBA Code : CII4 TITE : BASIC CIVIL AND MECHANICAL ENGINEERI Summatice : 2 COCode P01 PO2 P03 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS02 PS02 C 114.1 2 1 3 2 3 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 2 2 2 </td <td>-</td>	-
Subject Code :BF8252 NBA Code : CII4 Title :BASIC CIVIL AND MECHANICAL ENGINEERI Semester : 2 Subject Code :BF8252 NBA Code : CII4 Title :BASIC CIVIL AND MECHANICAL ENGINEERI Semester : 2 Subject Code :BF8252 NBA Code : CII4 Title :BASIC CIVIL AND MECHANICAL ENGINEERI Semester : 2 Subject Code : GP30 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS02 PS02 C 114.0 2 1 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 1 <th1< th=""> 1 1</th1<>	-
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C 114.5 2 2 1 2 2 3 1 2 2 1 </td <td>-</td>	-
C 114.6 1 </td <td>-</td>	-
Subject Code :GE8291 NBA Code : C114 Title :ENVIRONMENTAL SCIENCE AND ENGINEERI Semester :2 CoCode PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 C114.1 2 - - - 1 3 2 1 2 - 2 2 2 C114.2 2 - - - 1 3 2 1 2 - 2 2 2 C114.2 2 - - - 1 3 2 1 2 - 2 </td <td>-</td>	-
Semester :2 CoCode PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 C114.1 2 - - - 1 3 2 1 2 - 2 2 2 2 C114.2 2 - - - 1 3 2 1 2 - 2 2 2 2 C114.2 2 - - - 1 3 2 1 2 - 2 </td <td>-</td>	-
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C114.5 2 - - - 1 3 2 1 2 - 2 2 2 C114.6 2 - - - 1 3 2 1 2 - 2 2 2 2 C114.6 2 - - - - 1 3 2 1 2 - 2 2 2 2 Subject Code :EE8261 NBA Code : C116 Title :ELECTRIC CIRCUITS LABORATORY Semester CoCode PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 C116.1 3 2 2 2 - - 1 2 1 1 2 <td< td=""><td>-</td></td<>	-
C114.6 2 - - 1 3 2 1 2 - 2 2 2 Subject Code :EE8261 NBA Code : C116 Title :ELECTRIC CIRCUITS LABORATORY Semester CoCode PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 C116.1 3 2 2 2 - - 1 2 1 1 2 2 2 C116.1 3 2 2 2 - - 1 2 1 1 2 2 2 2 C116.2 3 2 2 2 - - 1 2 1 1 2 <td< td=""><td>-</td></td<>	-
Subject Code :EE8261 NBA Code : C116 Title :ELECTRIC CIRCUITS LABORATORY Semester CoCode PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 C116.1 3 2 2 2 - - 1 2 1 1 2 2 2 C116.2 3 2 2 2 - - 1 2 1 1 2 <td< td=""><td>-</td></td<>	-
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C116.2 3 2 2 2 - - 1 2 1 1 2 2 2 C116.3 3 2 2 2 - - 1 2 1 1 2 2 2 C116.3 3 2 2 2 - - 1 2 1 1 2 2 2 C116.4 3 2 2 2 - - 1 2 1 1 2 2 2 C116.5 3 2 2 2 - - 1 2 1 1 2 2 2 C116.6 3 2 2 2 - - 1 2 1 1 2 2 2 Subject Code :MA8353 NBA Code : C201 Title :TRANSFORMS AND PARTIAL DIFFERENTIAL DIFFERENTIAL DIFFERENTIAL	
C116.3 3 2 2 2 - - 1 2 1 1 2 2 2 C116.4 3 2 2 2 - - 1 2 1 1 2 2 2 C116.5 3 2 2 2 - - 1 2 1 1 2 2 2 C116.6 3 2 2 2 - - 1 2 1 1 2 2 2 C116.6 3 2 2 2 - - 1 2 1 1 2 2 2 Subject Code :MA8353 NBA Code : C201 Title :TRANSFORMS AND PARTIAL DIFFERENTIAL	-
C116.4 3 2 2 2 - - 1 2 1 1 2 2 2 C116.5 3 2 2 2 - - 1 2 1 1 2 2 2 C116.5 3 2 2 2 - - 1 2 1 1 2 2 2 C116.6 3 2 2 2 - - 1 2 1 1 2 2 2 Subject Code :MA8353 NBA Code : C201 Title :TRANSFORMS AND PARTIAL DIFFERENTIAL	-
C116.5 3 2 2 2 - - 1 2 1 1 2 2 2 C116.6 3 2 2 2 - - 1 2 1 1 2 2 2 Subject Code :MA8353 NBA Code : C201 Title :TRANSFORMS AND PARTIAL DIFFERENTIAL	
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Subject Code :MA8353 NBA Code : C201 Title :TRANSFORMS AND PARTIAL DIFFERENTIAL	-
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CoCode PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PS01 PS02 cool 1 c	-
C201.1 2 1 - 1	-
C201.2 2 1 - 1	- - - PSO: -
C201.3 2 2 1 1 1	- - - PSO: - -
C201.4 2 2 1 1 1 1 1	- - - - PSO: - - - -
C201.5 2 2 - - 1 - - 1 1 1 - - C201.6 2 2 - - 1 - - 1 1 1 - -	- - - PSO: - -

Subject Code :EE8351 NBA Code : C202 Title :DIGITAL LOGIC CIRCUITS Semester :3

CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C202.2	3	3	2	3	2	-	1	-	-	-	-	-	2	1	1
C202.3	3	3	2	3	2	-	-	-	-	-	1	-	2	1	1
C202.4	3	3	2	3	2	-	-	-	-	1	-	-	2	1	1
C202.5	3	3	2	3	2	-	-	-	1	-	-	-	2	1	1
C202.6	3	3	2	3	2	-	-	1	-	-	-	1	2	1	1
C202.1	3	3	2	3	2	1	-	-	-	-	-	-	2	1	1
<u>Subject (</u>	Code :	EC835	3 NB/	A Code	e : C20				CON D	EVICE			JITS S	emester	<u>:3</u>
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
203.2	3	2	2	1	-	-	-	-	1	2	1	2	2	2	-
203.3	3	2	2	1	-	-	-	-	1	2	1	2	2	2	-
203.4	3	2	2	1	-	-	-	-	1	2	1	2	2	2	-
203.5	3	2	2	1	-	-	-	-	1	2	1	2	2	2	-
203.6	3	2	2	1	-	-	-	-	1	2	1	2	2	2	-
203.1	3	2	2	1	-	-	-	-	1	2	1	2	2	2	-
<u>Subject (</u> CoCode	PO1	PO2	PO3				PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO
C203.1	2	2	2	2	-	1	1	1	1	-	1	-	3	3	-
C203.2	2	2	2	2	-	1	1	1	1	-	1	-	3	3	-
	2	2	2	2	-	1	1	1	1	-	1	-	3	3	-
C203.3	12												2	3	_
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C203.4 C203.5 C203.6 Subject (CoCode	2 2 2 Code : PO1	2 2 E1835 PO2	2 2 1 NBA PO3	2 2 Code PO4	- - : C204 PO5	1 1 4 Titl PO6	1 1 e :EL PO7	1 1 ECTR	1 1 ICAL	- - MEASI	1 1 JREMI PO11	- - ENTS S PO12	3 3 Semeste PSO1	3 3 <u>r :3</u> PSO2	- - PSO3
C203.4 C203.5 C203.6 Subject (CoCode C204.1	2 2 2 Code : PO1 2	2 2 E1835 PO2 2	2 2 NBA PO3 2	2 2 Code PO4 2	- - : C204 PO5 2	1 1 4 Titl PO6 1	1 1 e :ELI PO7 -	1 1 ECTR PO8 -	1 1 ICAL PO9 -	- - MEASI PO10 -	1 1 JREMI PO11 1	- - ENTS S PO12 1	3 3 Semeste PSO1 1	3 3 r :3 PSO2 2	- - PSO3 2
C203.4 C203.5 C203.6 Subject (C0Code C204.1 C204.2	2 2 2 Code : PO1 2 2	2 2 E1835 PO2 2 2	2 2 NBA PO3 2 2	2 2 Code PO4 2 2	- - : C204 PO5 2 2	1 1 4 Titl PO6 1 1	1 1 e :ELI PO7 -	1 1 ECTR PO8 -	1 1 ICAL PO9 -	- - MEASI PO10 - -	1 1 JREMI PO11 1 1	- - ENTS S PO12 1 1	3 3 Semeste PSO1 1 1	3 3 r :3 PSO2 2 2	- - PSO3 2 2
C203.4 C203.5 C203.6 Subject (C0Code C204.1 C204.2 C204.4	2 2 2 Code : PO1 2 2 2 2	2 2 E1835 PO2 2 2 2 2	2 2 NBA PO3 2 2 2 2	2 2 Code PO4 2 2 2 2	- - : C204 PO5 2 2 2 2 2	1 1 4 Titl PO6 1 1 1	1 1 e :EL PO7 - 1 -	1 1 ECTR PO8 - - - -	1 1 ICAL PO9 - - -	- - MEASI PO10 - - -	1 1 JREMI PO11 1 1 1	- - ENTS 5 PO12 1 1 1	3 3 Semeste PSO1 1 1 1	3 3 r :3 PSO2 2 2 2 2	- - PSO3 2 2 2 2
C203.4 C203.5 C203.6 Subject C CoCode C204.1 C204.2 C204.4 C204.5	2 2 2 Code : PO1 2 2 2 2 2 2	2 2 E1835 PO2 2 2 2 2 2 2	2 2 NBA PO3 2 2 2 2 2 2	2 2 Code PO4 2 2 2 2 2 2	- - - : C204 PO5 2 2 2 2 2 2 2	1 1 4 Titl PO6 1 1 1 1 1	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 ECTR PO8 - - - 1	1 1 CAL PO9 - - - - 1	- - MEASI PO10 - - - -	1 1 JREMI PO11 1 1 1 1	- - ENTS S PO12 1 1 1 1	3 3 Semeste PSO1 1 1 1 1 1	3 3 r :3 PSO2 2 2 2 2 2 2	- - PSO3 2 2 2 2 2 2
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C203.4 C203.5 C203.6 Subject C CoCode C204.1 C204.2 C204.4 C204.5 C204.6 C204.3 Subject C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 E1835 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 PO3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 Code 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - PO5 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 PO6 1 1 1 1 1 1 5 Titl	1 1 1 e :EL 7 PO7 - 1 e :TR	1 1 ECTR PO8 - - - 1 - 1 - - 1 - -	1 1 1 PO9 - - - 1 - 1 - - - 1 UCER	- - MEASI PO10 - - - - 1 - - 1 -	1 1 PO11 1 1 1 1 1 1 1 1 1 1 1 1	- - ENTS S PO12 1 1 1 1 1 1 1 1 1	3 3 Semeste PSO1 1 1 1 1 1 1 1 1 1	3 3 r :3 PSO2 2 2 2 2 2 2 2 2 2 2 2 2	- - PSO3 2 2 2 2 2 2 2 2 2
C203.4 C203.5 C203.6 Subject C CoCode C204.1 C204.2 C204.4 C204.5 C204.6 C204.3 Subject C	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 E1835 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 PO3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 Code 2 2 2 2 2 2 2 2 2 2 2 2 2	- - - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 PO6 1 1 1 1 1 1 5 Titl	1 1 1 e :EL 7 PO7 - 1 e :TR	1 1 1 ECTR PO8 1 - 1 ANSD	1 1 1 PO9 - - - 1 - 1 - - - 1 UCER	- - - PO10 - - - - 1 - - - - - - - - - - - - - -	1 1 PO11 1 1 1 1 1 1 1 1 1 1 1 1	- ENTS 5 PO12 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 Semeste PSO1 1 1 1 1 1 1 1 1 2 1 2 2 2 2 2 2 2 2 3 2 2 2 2	3 3 r :3 PSO2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- - PSO3 2 2 2 2 2 2 2 2 2 2
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C206.2	2	2	2	2	2	1	1	1	2	2	1	-	3	3	-
C206.3	2	2	2	2	2	1	1	1	2	2	1	-	3	3	-
C206.1	2	2	2	2	2	1	1	1	2	2	1	-	3	3	-
C206.4	2	2	2	2	2	1	1	1	2	2	1	-	3	3	-
C206.5	2	2	2	2	2	1	1	1	2	2	1	-	3	3	-
C206.6	2	2	2	2	2	1	1	1	2	2	1	-	3	3	-
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C207.2	3	3	3	3	3	-	-	3	3	3	3	3	3	2	-
C207.3	3	3	3	3	3	-	-	3	3	3	3	3	3	2	-
C207.4	3	3	3	3	3	-	-	3	3	3	3	3	3	2	-
C207.5	3	3	3	3	3	-	-	3	3	3	3	3	3	2	-
C207.6	3	3	3	3	3	-	-	3	3	3	3	3	3	2	-
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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C207.2 C207.3 C207.4 C207.5 C207.6 Subject C CoCode C209.1 C209.2 C209.3 C209.4 C209.5 C209.6 Subject C CoCode 210.1 210.2	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - PSO2 1 1 1 1 1 1 1 1 1 1 2 2 2	- - - - - - - - - - - - - - - - 2 2 2
C207.2 C207.3 C207.4 C207.5 C207.6 Subject C C209.1 C209.1 C209.2 C209.3 C209.4 C209.5 C209.6 Subject C C0Code 210.1 210.2 210.3	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		- 	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - 2 2 2

<u>Subject (</u>	Code :	E18452	2 NBA	Code	: C211	Title	e :Ind	ustrial	Instru	imentat	tion - I	Semest	<u>er :4</u>		
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C211.1	3	2	2	2	2	1	-	-	-	-	2	2	2	2	2
C211.2	3	2	2	2	2	-	-	1	-	-	2	2	2	2	2
C211.3	3	2	2	2	2	-	1	-	-	-	2	2	2	2	2
C211.4	3	2	2	2	2	-	-	-	-	1	2	2	2	2	2
C211.5	3	2	2	2	2	-	-	-	1	-	2	2	2	2	2
C211.6	3	2	2	2	2	-	-	-	-	-	2	2	2	2	2
<u>Subject (</u>	Code :	EE845	51 NBA	Code	: C21	3 Tit	le :Lir	iear In	tegrat	ed Circ	uitsand	Applic	ations	Semeste	e <u>r :4</u>
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	2	1	1	-	-	1	1	1	-	-	-	1	1	-	-
C213.2	2	1	1	-	-	1	-	-	-	-	-	1	1	-	-
C213.3	2	1	1	-	1	1	-	-	-	-	-	1	1	-	-
C213.4	2	1	1	-	-	1	-	-	-	-	-	1	1	-	-
C213.5	2	1	1	-	-	1	-	-	-	-	-	1	1	-	-
C213.6	2	1	1	-	-	1	-	-	-	-	-	1	1	-	-
<u>Subject (</u> CoCode	PO1	PO2	PO3	Code PO4				PO8	<u>ystems</u> PO9	s Semes	<u>PO11</u>	PO12	PSO1	PSO2	PSO3
213.6	3	3	3	1	-	3	2	-	2	2	1	2	1	2	-
213.0	3	3	3	1	_	2	2	1	2	2	1	2	1	2	_
213.2	3	3	3	1	-	2	2	1	2	2	1	2	1	2	-
213.2	3	3	2	1	-	2	2	1	2	2	1	2	1	2	-
213.5	3	3	3	1	-	2	2	1	2	2	1	2	1	2	-
213.4	3	3	3	1	-	3	3	1	2	2	1	2	1	2	-
<u>Subject (</u> CoCode	Code :	E18461 PO2	1 NBA PO3	Code PO4		5 Titl		ices ai PO8	nd Ma	chines I PO10	Laborat	tory Se PO12		<u>:4</u> PSO2	PSO3
215.1	2	102	105	3	3	100	107	100	10)	1010	3	3	2	1502	1505
215.2	2	-	-	3	3	-	-	-	-	-	3	3	2	-	-
215.2	2	-	-	3	3	-	-	-	-	-	3	3	2	-	-
215.5	2		-	3	3		-	-	-		3	3	2		-
215.4	2	-		3	3	-		-	-	-	3	3	2	-	-
215.5	2	-	-	3	3	-	-	-	-	-	3	3	2	-	-
<u>Subject (</u> Semester	<u>Code :</u>] <u>r :4</u>		51 NBA	Code	: C21	6 Tit		lear ar		<u>italInte</u>	grated (Circuits	Labor	atory	<u> </u>
CoCode	PO1	PO2	PO3	PO4		PO6			PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C216.1	3	2	-	-	2	1	1	-	-	-	-	1	-	-	-
C216.2	3	2	-	-	2	1	1	-	-	-	-	1	-	-	-
C216.3	3	2	-	-	2	1	1	-	-	-	-	1	-	-	-
C216.4	3	2	-	-	2	1	1	-	-	-	-	1	-	-	-
C216.5	3	2	-	-	2	1	1	-	-	-	-	1	-	-	-
C216.6	3	2	-	-	2	1	1	-	-	-	-	1	-	-	-
<u>Subject (</u>	Code :	E18551	1 NBA	Code	: C301	l Titl	e :Ana	<u>lytica</u>	l Instr	uments	Semes	<u>ter :5</u>			

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CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C301.1	1	2	2	1	2	1	-	-	-	-	1	2	2	2	2
C301.2	1	1	2	2	1	-	-	1	-	-	1	1	2	1	2
C301.3	2	2	2	2	2	-	-	-	-	-	1	2	2	2	2
C301.4	2	2	2	2	2	-	-	-	1	-	1	2	2	1	1
C301.5	1	2	1	2	1	-	-	1	1	1	1	2	2	2	2
C301.6	2	2	2	2	2	-	-	-	-	-	1	2	2	2	2
<u>Subject (</u>	Code :	E18552	2 NBA	Code	: C302	2 Titl	e :Ind	ustrial	Instru	ımentat	tion - II	Semes	<u>ter :5</u>		
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	2	2	2	2	1	-	-	-	-	1	1	2	2	2
C302.2	3	2	2	2	2	-	-	1	1	-	1	1	2	2	2
C302.3	3	2	2	2	2	-	-	-	1	-	1	1	2	2	2
C302.4	3	2	2	2	2	-	-	-	-	-	1	1	2	2	2
C302.5	3	2	2	2	2	-	-	-	-	-	1	1	2	2	2
C302.6	3	2	2	2	2	-	1	-	-	1	1	1	2	2	2
<u>Subject (</u> CoCode	Code :	E18553	3 NBA PO3	Code PO4	: C303	<u>3 Titl</u> PO6	e :Pro	cess C	ontrol PO9	Semes PO10	<u>ter :5</u> PO11	PO12	PSO1	PSO2	PSO3
						FUO	10/	100		FUIU		-			
C303.1	3	3	2	2	1	-	-	-	-	-	3	3	3	3	2
C303.2	3	3	2	2	1	1	1	-	-	-	3	3	3	3	2
C303.3	3	3	2	2	1	-	-	1	-	-	3	3	3	3	2
C303.5	3	3	2	2	1	-	-	-	-	-	3	3	3	3	2
C303.6	3	3	3	2	1	-	-	-	-	-	3	3	3	3	2
C303.4	3	3	2	2	1	-	-	-	-	1	3	3	3	3	2
<u>Subject (</u>	Code :	<u>EE855</u>	1 NBA	<u>Code</u>	<u>e : C30</u>	<u>5 Tit</u>	le :Mi	<u>cropro</u>	cessor	s and N	licroco	ntroller	s Seme	ster :5	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C305.1	3	2	2	2	1	1	-	-	-	-	2	2	2	1	-
C305.2	3	2	2	2	1	1	-				2	2	2		
C305.3	3							-	-	-	2		2	1	-
G207		2	2	2	1	1	-	-	-	-	2	2	2	1	-
C305.4	3	2 2	2 2	2 2	1	1	-			- -		2 2			-
C305.4 C305.5	3						-	-	-		2		2	1	- - -
		2	2	2	1	1	-	-	-	-	2	2	2 2	1	-
C305.5	3	2 2 2	2 2 2	2 2 2	1 1 1	1 1 1	-	- - -	- - -	-	2 2 2 2	2 2 2	2 2 2 2	1 1 1	-
C305.5 C305.6	3	2 2 2	2 2 2 3 NBA	2 2 2	1 1 1 : C305	1 1 1	-	- - - t <u>Oper</u>	- - -	-	2 2 2 2	2 2 2	2 2 2 2	1 1 1	-
C305.5 C305.6 Subject (3 3 Code :	2 2 2 E18093	2 2 2 3 NBA	2 2 2 Code	1 1 1 : C305	1 1 5 Titl	- - - e :Uni	- - - t <u>Oper</u>	- - - ation :	- - - and Cor	2 2 2 ntrol S	2 2 2 emester	2 2 2 2 ::5	1 1 1	-
C305.5 C305.6 Subject (CoCode	3 3 Code : PO1	2 2 2 E18093 PO2	2 2 3 NBA PO3	2 2 2 Code PO4	1 1 : C305 PO5	1 1 5 Titl PO6	- - e :Uni PO7	- - - <u>t Oper</u> PO8	- - - ation :	- - and Cor PO10	2 2 2 2 mtrol S PO11	2 2 2 emester PO12	2 2 2 2 ::5 PSO1	1 1 1 1 PSO2	- - - PSO3
C305.5 C305.6 Subject (CoCode C305.2	3 3 Code : PO1 -	2 2 2 E18093 PO2	2 2 3 NBA PO3	2 2 2 Code PO4 -	1 1 1 : C305 PO5 -	1 1 5 Titl PO6	- - e :Uni PO7	- - - t Oper PO8 -	- - - ration : PO9 -	- - and Cor PO10 -	2 2 2 ntrol S PO11 -	2 2 2 emester PO12 -	2 2 2 2 ::5 PSO1	1 1 1 1 PSO2	- - - PSO3
C305.5 C305.6 Subject (CoCode C305.2 C305.3	3 3 Code : PO1 - -	2 2 2 E18093 PO2 - -	2 2 3 NBA PO3 - -	2 2 2 Code PO4 - -	1 1 : C305 PO5 - -	1 1 5 Titl PO6 -	- - - e :Uni PO7 - -	- - - - - t Oper PO8 - -	- - - ation : PO9 - -	- - and Cor PO10 - -	2 2 2 ntrol S PO11 - -	2 2 2 emester PO12 - -	2 2 2 2 ::5 PSO1 - -	1 1 1 1 PSO2 - -	- - - PSO3 - -
C305.5 C305.6 Subject C CoCode C305.2 C305.3 C305.4	3 3 Code : PO1 - - -	2 2 2 E18093 PO2 - -	2 2 3 NBA PO3 - - -	2 2 2 Code PO4 - -	1 1 1 : C305 PO5 - - - -	1 1 5 Titl PO6 -	- - - e :Uni PO7 - -	- - - - - t Oper PO8 - -	- - - - - - PO9 - - - -	- - and Cor PO10 - -	2 2 2 2 mtrol S PO11 - - -	2 2 2 emester PO12 - -	2 2 2 2 ::5 PSO1 - -	1 1 1 1 PSO2 - -	- - - PSO3 - -
C305.5 C305.6 Subject C CoCode C305.2 C305.3 C305.4 C305.5	3 3 Code : : PO1 - - - -	2 2 2 E18093 PO2 - - - - - -	2 2 3 NBA PO3 - - - -	2 2 2 Code PO4 - - - -	1 1 1 : C305 - - - - - -	1 1 5 Titl PO6 - - - -	- - - e :Uni PO7 - -	- - - - - t Oper PO8 - -	- - - ation : PO9 - - - -	- - and Cor PO10 - - - -	2 2 2 2 ntrol S PO11 - - - -	2 2 2 emester PO12 - - - -	2 2 2 2 ::5 PSO1 - -	1 1 1 1 PSO2 - - - - -	- - - PSO3 - -
C305.5 C305.6 Subject C CoCode C305.2 C305.3 C305.4 C305.5 C305.6	3 3 PO1 : - - - - - - - - - - - - -	2 2 2 E18093 PO2 - - - - - - - - - - -	2 2 3 NBA PO3 - - - - - - - -	2 2 2 Code PO4 - - - - - - - -	1 1 1 : C305 - - - - - - - - - - - - - - - - -	1 1 5 Titl PO6 - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - -	- - and Cor PO10 - - - - - -	2 2 2 2 mtrol S PO11 - - - - - - - - - -	2 2 2 2 emester PO12 - - - - - - - - - - -	2 2 2 2 ::5 PSO1 - - - - - - - - - - - - -	1 1 1 1 PSO2 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -
C305.5 C305.6 Subject C CoCode C305.2 C305.3 C305.4 C305.5 C305.6 C305.1 Subject C	3 3 PO1 : - - - - - - - - - - - - -	2 2 2 E18093 PO2 - - - - - - - - - - -	2 2 3 NBA PO3 - - - - 51 NB	2 2 2 Code PO4 - - - - - - - -	1 1 1 : C305 - - - - - - - - - - - - -	1 1 5 Titl PO6 - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - -	- - and Cor PO10 - - - - - -	2 2 2 2 mtrol S PO11 - - - - - - - - - -	2 2 2 2 emester PO12 - - - - - - - - - - -	2 2 2 2 ::5 PSO1 - - - - - - - - - - - - -	1 1 1 1 PSO2 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - -
C305.5 C305.6 Subject C CoCode C305.2 C305.3 C305.4 C305.5 C305.6 C305.1 Subject C Semeste	3 3 PO1 : - - - - - - - - - - - - - - - - - - -	2 2 2 EI8093 PO2 - - - - - - - - - - - - - - - - - - -	2 2 3 NBA PO3 - - - - 51 NB	2 2 2 Code PO4 - - - - - - - - A Cod	1 1 1 : C305 - - - - - - - - - - - - -	1 1 1 5 Titl PO6 - - - - - - 06 Ti	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - R POI	- - - - - - - - - - - - - - - - - - -	- - and Cor PO10 - - - - - - - - - -	2 2 2 mtrol S PO11 - - - - - - - - - - - - - - - - - -	2 2 2 2 emester PO12 NTROI	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 PSO2 - - - - - - NEERIN	- - - - - - - - - - - - - -
C305.5 C305.6 Subject C CoCode C305.2 C305.3 C305.4 C305.5 C305.6 C305.1 Subject C Semeste	3 3 Code : 1 PO1 - - - - - - - - - - - - - - - - - - PO1 PO1 PO1 PO1 PO1 PO1 PO1 PO1 PO1 PO1	2 2 2 FI8093 PO2 - - - - - - - - OCE55	2 2 3 NBA PO3 - - - - - - 51 NB	2 2 2 PO4 - - - - - - A Cod	1 1 1 : C305 - - - - - - - - - - - - -	1 1 1 PO6 - - - - - 06 Ti PO6	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		2 2 2 2 mtrol S PO11 - - - - - - - - - - - - - - - - - -	2 2 2 2 emester PO12 NTROI	2 2 2 2 ::5 PSO1 - - - - - - - - - - PSO1 PSO1	1 1 1 1 1 1 1 1 PSO2 NEERII PSO2	- - - - - - - - - - - - - - - - - - -

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C306.6	2	2	1	1	1	1	2	1	1	1	1			-	
C306.1	1	1	1	1	-	2	2	2	2	1	1	-	1	1	1
C306.2	1	2	1	1	-	2	2	2	2	1	1	-	1	1	2
C306.3	1	2	2	1	-	2	3	2	2	1	1	-	2	1	1
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<u>Subject (</u> <u>Semeste</u>		<u>EE868</u>	81 NBA	A Code	<u>e : C30</u>	9 <u>7 Tit</u>	le :Mi	<u>cropro</u>	cessor	<u>'s and N</u>	<u> licroco</u>	<u>ntroller</u>	<u>s Laboi</u>	<u>ratory</u>	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C307.1	3	2	2	1	1	1	-	-	-	-	-	-	2	1	-
C307.2	3	2	2	1	1	1	-	-	-	-	-	1	2	1	-
C307.3	2	1	1	1	1	1	-	-	-	-	-	-	2	1	-
C307.4	3	2	2	1	1	1	-	-	-	-	-	-	2	1	-
C307.5	3	2	2	1	1	1	-	-	-	-	-	-	2	1	-
C307.6	3	2	2	1	1	1	-	-	-	-	-	1	2	1	-
		-	_	-	-	-						-		-	
<u>Subject (</u>	Code :	E1856	1 NBA	Code	: C30′	7 Titl	e :Ind	ustrial	Instru	imentat	tion Lal	<u>borator</u>	<u>y Seme</u>	ester :5	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C307.1	3	3	3	2	2	1	1	-	-	-	1	1	3	2	1
C307.2	3	3	3	2	2	-	-	1	1	-	1	1	3	2	1
C307.3	3	3	3	2	2	-	-	-	-	-	1	1	3	2	1
C307.4	3	3	3	2	2	-	-	-	-	-	1	1	3	2	1
C207.5	3	3	3	2	2	-	-	-	-	-	1	1	3	2	1
C307.5	-	-	-				-	-	-	1	1	1	3	2	1
C307.5 C307.6	3	3	3	2	2	-			-						
	3	3	3	2	2	-	-	-	-	1		I	<u> </u>	l	[
		Į		l	<u> </u>	<u> </u>			<u> </u>	<u></u>		Semest	er :6	1	1
C307.6	Code :	HS858	1 NBA	A Code	e : C30	8 Tit	le :Pro	ofessio	nal Co	<u></u>	cation	Semest PO12	<u>er :6</u> PSO1	PSO2	PSO3
C307.6 <u>Subject (</u>	Code :	HS858	1 NBA	A Code	e : C30	8 Tit	le :Pro	PO8	nal Co	PO10	cation			PSO2 -	PSO3 -
C307.6 <u>Subject (</u> CoCode	Code : PO1	HS858 PO2	81 NBA	Code	e : C30 PO5	8 Tit PO6	le :Pro	ofessio PO8	nal Co PO9	emmuni PO10	cation PO11	PO12	PSO1		
C307.6 Subject (CoCode C308.1	Code : PO1	HS858 PO2	81 NBA	Code	e : C30 PO5	 8 Tit PO6 1 	le :Pro	PO8	nal Co PO9 3	PO10	cation PO11	PO12 3	PSO1 1		
C307.6 Subject (CoCode C308.1 C308.2	Code : PO1	HS858 PO2	81 NBA	Code	e : C30 PO5	 8 Tit PO6 1 1 	le :Pro	PO8 2 2	nal Co PO9 3 3	PO10 3 3	cation PO11	PO12 3 3	PSO1 1 1		
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	ode :1 PO1 3 3 3 3 3 3 3 3 3 3 3 3 3	ode : E18692 PO1 PO2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ode : E18692 NBA PO1 PO2 PO3 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 ode :E18092 NBA PO3 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 4 PO1 PO2 PO3 2 2 2 2 2 2 <td>PO1 PO2 PO3 PO4 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 ode :FI8092 NBA Code PO4 2 PO1 PO2 PO3 PO4 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3</td> <td>PO1 PO2 PO3 PO4 PO5 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 3 2 1 2 3 ode :EI8092 NBA Code : C312 3 3 3 3 2 1 1 1 1 3 3 2 2 1 1 1 3 2 2 1 1 1 3 2 2 1 1 1 3 2 2 1 1</td> <td>PO1 PO2 PO3 PO4 PO5 PO6 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 2 3 2 3 2 1 1 2 3 2 2 1 1 2 3 2 2 1 1 2 3 2 2 1 1 2 3 2 2 1 1 2 3 2 <</td> <td>PO1 PO2 PO3 PO4 PO5 PO6 PO7 3 2 1 2 3 2 2 3 2 1 2 3 2 2 3 2 1 2 3 2 2 3 2 1 2 3 2 2 3 2 1 2 3 2 2 3 2 1 2 3 2 2 3 2 1 2 3 2 2 3 2 1 2 3 2 2 0de :EI8092 NBA Code : C312 Title :The Title :The PO1 PO2 PO3 PO4 PO5 PO6 PO7 3 2 2 1 1 2 2 3 2 2 1 1 2 2 3 2 2 1</td> <td>PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 3 2 1 2 3 2 2 - 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C314.6	3	2	2	3	3	-	1	-	2	1	2	1	2	2	2
<u>Subject (</u>	Code :	E 1866 1	l NBA	Code	: C317	7 Titl	e :Pro	cess C	ontrol	Labora	<u>itory S</u>	emester	<u>· :6</u>		
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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C317.3	3	3	3	2	2	2	-	-	1	-	3	3	2	2	2
C317.4	3	3	3	2	2	2	-	1	-	-	3	3	2	2	2
C317.5	3	3	3	2	2	2	-	-	1	-	3	3	2	2	2
C317.6	3	3	3	2	2	2	-	-	-	1	3	3	2	2	2
<u>Subject (</u> INDUST				Code	: C402	2 Titl				ATION	IN PE	FROCE	IEMIC.	<u>AL</u>	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402.1	2	3	3	2	3	2	-	-	-	2	2	1	2	2	2
C402.2	2	3	3	2	1	2	-	-	-	2	1	2	2	2	2
C402.3	2	3	3	1	2	2	-	2	1	2	1	2	2	1	1
C402.4	2	3	3	2	3	2	-	-	-	2	1	1	2	2	1
C402.5	2	3	3	1	3	2	-	-	1	2	2	2	2	2	1
C402.6	2	3	3	2	2	2	-	2	-	1	2	1	2	2	1
<u>Subject (</u>	Code :	EC809	<u>3 NB</u> A	A Code	<u>e : C40</u>	<u>3 Tit</u>	le :DI	GITAI	L IMA	<u>GE PR</u>	OCESS	ING S	emester	<u>· :7</u>	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C403.1	2	2	2	2	2	-	-	2	2	2	2	2	2	2	-
C403.2	2	2	2	2	2	-	-	2	2	2	2	2	2	2	-
C403.3	2	2	2	2	2	-	-	2	2	2	2	2	2	2	-
C403.4	2	2	2	2	2	-	-	2	2	2	2	2	2	2	-
C403.5	2	2	2	2	2	-	-	2	2	2	2	2	2	2	-
C403.6	2	2	2	2	2	-	-	2	2	2	2	2	2	2	-
<u>Subject (</u>	Code :	E 1875 1	<u>l NBA</u>	Code	<u>: C403</u>	<u>8 Titl</u>	e :INE	DUSTR	RIAL I	DATA N	ETWO	ORKS S	Semeste	<u>r :7</u>	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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C403.6	3	2	2	2	2	-	-	-	1	1	3	3	2	1	1
<u>Subject (</u> Semester		E18075	5 NBA	Code	<u>: C404</u>	I-E31	Title	:FIBR	E OP	<u>FICS A</u>	ND LA	<u>SER IN</u>	ISTRUI	MENTA	<u>TION</u>
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C404- E31.2	3	3	3	3	3	-	-	-	-	-	-	-	3	2	1
C404- E31.3	3	3	3	3	3	-	-	-	-	-	-	-	3	2	1
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C404-	3	3	3	3	3	-	-	- ane	-	-	-	-	3	2	1

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C404-															•	
E31.1	3	3	3	3	3	-	-	-	-	-	-	-	3		2	1
<u>Subject (</u>	Code :	E1876	1 NBA	Code	: C40′	7 Tit	e :Ind	ustria	l Auto	<u>mation</u>	LAB S	Semeste	<u>er :7</u>	7_		
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	2 P	SO1	PSO2	PSO3
C407.1	2	3	2	3	2	2	2	-	-	-	2	1	3		2	2
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C407.6	2	2	2	2	2	2	1	-	-	-	1	1	3		2	2
<u>Subject (</u>	Code :	E18762	<u>2 NBA</u>	Code	<u>: C408</u>	<u>8 Tit</u>	e :Ins	trume	<u>ntatio</u>	<u>n Syster</u>	n Desig	<u>gn Labo</u>	orat	<u>ory S</u>	Semeste	<u>r :7</u>
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	2 P	SO1	PSO2	PSO3
C408.1	3	3	3	2	2	1	-	-	-	-	2	2	3		2	-
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C408.3	3	3	3	2	2	1	-	-	-	-	2	2	3		2	-
C408.4	3	3	3	2	2	1	-	-	-	-	2	2	3		2	-
C408.5	3	3	3	2	2	1	-	-	-	-	2	2	3		2	-
C408.6	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
<u>Subject (</u>	Code :	GE807	73 NB/	A Cod	e : C41	<u>10-E6</u> 4	l Titl	e :Fun	dame	ntals of	Nano S	cience	Sei	meste	<u>r :8</u>	
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	2 P	SO1	PSO2	PSO3
C410- E64.1	2	2	2	2	2	-	1	-	-	-	1	3	1		1	1
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C410- E64.3	2	2	2	2	2	-	-	1	-	-	1	3	1		1	1
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C410- E64.6	2	2	2	2	2	-	-	-	-	-	1	3	1		1	1
<u>Subject C</u> <u>Semester</u> CoCode													ENC 012	GINE		
C411E51.	-	2	1	1	1	1	-	-	-	1	1	1	- 1 4	-	2	-
C411E51.	_	2	1	1	1	1	-	-	-	1	1	1		-	2	-
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C411E51.	_	2	1	1	1	1	-	-	-	1	1	1		-	2	-
<u>Subject (</u>									ork S							
CoCode	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	2 P	SO1	PSO2	PSO3
							2	2		-		2	3		3	2
C413.1	3	3	3	3	3	3	3	3	3	3	3	3	13	1	3	3
C413.1 C413.2	3	3	3	3	3	3	3	3	3	3	3	3	3		3	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-			-

C413.4	3	3	3	3	3	3	3	3	3	3	3		3	-	3	3	
C413.5	3	3	3	3	3	3	3	3	3	3	3		3	3	3	3	
C413.6	3	3	3	3	3	3	3	3	3	3	3		3	3	3	3	
<u>Subject C</u> Semester		BS810	61 NB2	A Cod	e : CB	<u>S8161</u>	Title	<u>e :PHY</u>	SICS	AND	CHE	MIST	FRY L	ABOI	RATO	RY	
CoCode	PO	1 PO	2 PO	3 PO	4 PO	5 PO	6 PO	97 PC	08 PC	99 PC)10	PO11	PO1	2 PS	01 PS	502	PSO3
BS8161.2	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-
BS8161.3	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-
BS8161.4	3	2	1	1	-	1	-	1	2	-		1	1	-	-		-
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BS8161.6	3	2	1	1	-	1	-	1	2	-		1	1	-	-		-
BS8161.1	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-
<u>Subject C</u> CoCode					le : CO PO4	DEOC PO5				ductio PO9	PO1			minG PO12	Semes PSO1	ster :7	
OEOCS75	52.1	3	3	3	3	3	-	-	-	3	-	-	3	;	3	3	3
OEOCS75	52.2	3	3	3	3	3	-	-	-	3	-	-	3	;	3	3	3
OEOCS75	52.3	3	3	3	3	3	-	-	-	3	-	-	3	;	3	3	3
OEOCS75	52.4	3	3	3	3	3	-	-	-	3	-	-	3	;	3	3	3
OEOCS75	52.5	3	3	3	3	3	-	-	-	3	-	-	3	;	3	3	3
OEOCS75	52.6	3	3	3	3	3	-	-	-	3	-	-	3	;	3	3	3