DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CO – PO MAPPING

YEAR:2017 SEM: I

S. NO	SUBJECT NAME/	COURSE CREDIT	COURSE CODE	COURSE OUTCOMES				PR	OGF	RAM	ME	оит	COV	/IE (PO)		P O	P O
NO	CODE	CKEDII	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Read articles of a general kind in magazines and newspapers Participate effectively in informal									٧	٧		٧		
1	HS8151/ Communi	4	HS8151	conversations; introduce themselves and their friends and express opinions in English.									٧	٧		٧		
	cative English			Comprehend conversations and short talks delivered in English									٧	٧		٧	-	
				Write short essays of a general kind and personal letters and emails in English									٧	٧		٧		
				Use both the limit definition and rules of differentiation to differentiate functions.	٧	٧			٧							٧		
				Apply differentiation to solve maxima and minima problems.	٧	٧			٧							٧		
	MA8151/			Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus	٧	٧			٧							٧		
2	Engineeri ng Mathema tics – I	4	MA8151	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.	٧	٧			٧							٧		
				Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.	٧	٧			٧							٧		
				Determine convergence/divergence of improper integrals and evaluate convergent improper integrals	٧	٧			٧							٧		
				Apply various techniques in solving differential equations.	٧	٧			٧							٧		
				the students will gain knowledge on the basics of properties of matter and its applications,	٧	٧	٧		٧		٧					٧		
				the students will acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics,	٧	٧	٧		٧		٧					٧		
3	PH8151/ Engineeri ng Physics	3	PH8151	the students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers,	٧	٧	٧		٧		٧					٧		
				the students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes, an	٧	٧	٧		٧		٧					٧		
				the students will understand the basics of crystals, their structures and different crystal growth techniques.	٧	٧	٧		٧		٧					٧		
4	CY8151/ Engineeri ng Chemistry	3	CY8151	The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.	٧	٧	v		٧									

			•							 			
				Develop algorithmic solutions to simple computational problems	٧	٧	٧	٧	٧			٧	
	GE8151/			Read, write, execute by hand simple Python programs.	٧	٧	٧	٧	٧			٧	
5	Problem Solving and	3	GE8151	Structure simple Python programs for solving problems.	٧	٧	٧	٧	٧			٧	
3	Python Programm	5	GE0131	Decompose a Python program into functions.	٧	٧	٧	٧	٧			٧	
	ing			Represent compound data using Python lists, tuples, dictionaries	٧	٧	٧	٧	٧			٧	
				Read and write data from/to files in Python Programs.	٧	٧	٧	٧	٧			٧	
				familiarize with the fundamentals and standards of Engineering graphics			٧	٧					
	GE8152/			perform freehand sketching of basic geometrical constructions and multiple views of objects			٧	٧					
6	Engineeri ng Graphics	4	GE8152	project orthographic projections of lines and plane surfaces.			٧	٧					
	Graphics			draw projections and solids and development of surfaces.			٧	٧					
				visualize and to project isometric and perspective sections of simple solids.			٧	٧					
	GE8161 / Problem			Write, test, and debug simple Python programs.	٧		٧	٧	٧		٧	٧	
	Solving and			Implement Python programs with conditionals and loops.	٧		٧	٧	٧		٧	٧	
7	Python Programm	2	GE8161	Develop Python programs step-wise by defining functions and calling them.	٧		٧	٧	٧		٧	٧	
	ing Laborator			Use Python lists, tuples, dictionaries for representing compound data	٧		٧	٧	٧		٧	٧	
	У			Read and write data from/to files in Python.	٧		٧	٧	٧		٧	٧	

S.	SUBJECT NAME/CO	COURSE	COURSE	COURSE OUTCOMES				PR	OGR	AMI	ME (OUT	CON	1E (PO)			P O	Р О
''	DE	CKEDII	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
8	BS8161/ Physics and Chemistry Laborator Y	2	BS8161	The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters.	٧	٧												

YEAR:2017 SEM: II

S.	SUBJECT NAME/	COURSE	COURSE	COURSE OUTCOMES				PR	OGF	RAM	ME	ОUТ	COM	1E (PO)		P O	P O
NO	CODE	CREDIT	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Read technical texts and write area- specific texts effortlessly									٧	٧		٧		
1	HS8251 / Technical	4	HS8251	Listen and comprehend lectures and talks in									٧	٧		٧		
1	English	7	1130231	their area of specialisation successfully.														
	2.18.1011			Speak appropriately and effectively in varied formal and informal contexts.									٧	٧		٧		
				Write reports and winning job applications.									٧	٧		٧		
				Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices.	٧	٧	٧		٧							٧		
	MA8251 /			Gradient, divergence and curl of a vector point function and related identities.	٧	٧	٧		٧							٧		
2	Engineeri ng Mathema	4	MA8251	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.	٧	٧	٧		٧							٧		
	tics II			Analytic functions, conformal mapping and complex integration.	٧	٧	٧		٧							٧		
				Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.	٧	٧	٧		٧							٧		
				gain knowledge on classical and quantum electron theories, and energy band structuues,	٧	٧	٧		٧		٧					٧		
	PH8253 / Physics For			acquire knowledge on basics of semiconductor physics and its applications in various devices,	٧	٧	٧		٧		٧					٧		
3	Electronic s	3	PH8253	get knowledge on magnetic and dielectric properties of materials,	٧	٧	٧		٧		٧					٧		
	Engineeri ng			have the necessary understanding on the functioning of optical materials for optoelectronics,	٧	٧	٧		٧		٧					٧		
				understand the basics of quantum structures and their applications in spintronics and carbon electronics.	٧	٧	٧		٧		٧					٧		
				appreciate the Civil and Mechanical Engineering components of Projects.				٧		٧								
	BE8252/ Basic Civil			explain the usage of construction material and proper selection of construction materials				٧		٧								
4	and Mechanic	4	BE8252	measure distances and area by surveying				٧		٧								
7	al	7	DEUZJZ	identify the components used in power plant cycle				٧		٧								
	Engineeri ng			demonstrate working principles of petrol and diesel engine.				٧		٧								
				elaborate the components of refrigeration and Air conditioning cycle.				٧		٧								
	EE03F1/			Ability to analyse electrical circuits	٧	٧	٧	٧	٧							٧	\vdash	
5	EE8251/ Circuit	3	EE8251	Ability to apply circuit theorems	√	٧	٧	√	٧							√	\vdash	
_	Theory			Ability to analyse transients	v	٧	٧	٧	٧							٧	\Box	

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	GE8291 / Environm ental			Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection. One will obtain knowledge on the following after completing the course.	٧	٧			٧	٧	٧	٧		٧	
6	Science	3	GE8291	Public awareness of environmental is at infant stage.	٧	٧			٧	٧	٧	٧		٧	
	and Engineeri ng			Ignorance and incomplete knowledge has lead to misconceptions	٧	٧			٧	٧	٧	٧		٧	
				Development and improvement in std. of living has lead to serious environmental disasters	٧	٧			٧	٧	٧	٧		٧	
				Fabricate carpentry components and pipe connections including plumbing works.	٧		٧	٧	٧	٧			٧		
				Use welding equipments to join the structures.	٧		٧	٧	٧	٧			٧		
				Carry out the basic machining operations	٧		٧	٧	٧	٧			٧		
	GE8261/			Make the models using sheet metal works	٧		٧	٧	٧	٧			٧		
7	Engineeri ng Practices	2	GE8261	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings	٧		٧	٧	٧	٧			٧		
	Laborator y			Carry out basic home electrical works and appliances	٧		٧	٧	٧	٧			٧		
				Measure the electrical quantities	٧		٧	٧	٧	٧			٧		
				Elaborate on the components, gates, soldering practices.	٧		٧	٧	٧	>			٧		
8	EE8261/ Electric	2	EE8261	Understand and apply circuit theorems and concepts in engineering applications.	٧		٧	٧	٧	>			٧	٧	
	Circuits Lab			Simulate electric circuits.	٧		٧	٧	٧	٧			٧	٧	

YEAR:2017 SEM:III

S. NO	SUBJECT NAME/CO	COURS E	COURSE	COURSE OUTCOMES			ı	PRO	GR	AMI	ME (OU.	тсо	ME (P	0)		P O	P O
Z	DE	CREDIT	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Understand how to solve the given standard partial differential equations.	٧	٧			٧							٧		
				Solve differential equations using Fourier series analysis which plays a vital role in engineering applications.	٧	٧			٧							٧		
4	MA8353/ Transform s and	4	A440353	Appreciate the physical significance of Fourier series techniques in solving one and two dimensional heat flow problems and one dimensional wave equations	٧	٧			٧							٧		
1	Partial Differenti al Equations	4	MA8353	Understand the mathematical principles on transforms and partial differential equations would provide them the ability to formulate and solve some of the physical problems of engineering.	٧	٧			٧							٧		
				Use the effective mathematical tools for the solutions of partial differential equations by using Z transform techniques for discrete time systems.	٧	٧			٧							٧		
				Ability to design combinational and sequential Circuits				٧	٧									
i				Ability to simulate using software package.				٧	٧									
	EE8351/			Ability to study various number systems and simplify the logical expressions using Boolean functions				٧	٧									
2	Digital Logic	3	EE8351	Ability to design various synchronous and asynchronous circuits.				٧	٧									
	Circuits			Ability to introduce asynchronous sequential circuits and PLDs				٧	٧									
				Ability to introduce digital simulation for development of application oriented logic circuits				٧	٧									
				Ability to understand the basic mathematical concepts related to electromagnetic vector fields.	٧	٧	٧	٧	٧					٧		٧		
				Ability to understand the basic concepts about electrostatic fields, electrical potential, energy density and their applications.	٧	٧	٧	٧	٧					٧		٧		
3	EE8391/ Electroma		EE8391	Ability to acquire the knowledge in magneto static fields, magnetic flux density, vector potential and its applications	٧	٧	٧	٧	٧					٧		٧		
3	gnetic Theory	3	220331	Ability to understand the different methods of emf generation and Maxwell's equations	٧	٧	٧	٧	٧					٧		٧		
				Ability to understand the basic concepts electromagnetic waves and characterizing parameters	٧	٧	٧	٧	٧					٧		٧		
				Ability to understand and compute Electromagnetic fields and apply them for design and analysis of electrical equipment and systems	٧	٧	٧	٧	٧					٧		٧		

S.	SUBJECT NAME/CO	COURS E	COURSE	COURSE OUTCOMES			ı	PRO	GRA	MM	ME (TUC	СО	ME (P	0)		P O	P O
NO	DE	CREDIT	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Ability to analyze the magnetic-circuits.	٧	٧	٧	٧	٧					٧				
				Ability to acquire the knowledge in constructional details of transformers.	٧	٧	٧	٧	٧					٧				
	EE8301/ Electrical			Ability to understand the concepts of electromechanical energy conversion.	٧	٧	٧	٧	٧					٧				
4	Machines – I	3	EE8301	Ability to acquire the knowledge in working principles of DC Generator.	٧	٧	٧	٧	٧					٧				
				Ability to acquire the knowledge in working principles of DC Motor	٧	٧	٧	٧	٧					٧				
				Ability to acquire the knowledge in various losses taking place in D.C. Machines	٧	٧	٧	٧	٧					٧				
				Explain the structure and working operation of basic electronic devices.	٧	٧	٧	٧	٧							٧		
	EC8353/			Able to identify and differentiate both active and passive elements	٧	٧	٧	٧	٧							٧		
5	Electron Devices and	3	EC8353	Analyze the characteristics of different electronic devices such as diodes and transistors	٧	٧	٧	٧	٧							٧		
	Circuits			Choose and adapt the required components to construct an amplifier circuit.	٧	٧	٧	٧	٧							٧		
				Employ the acquired knowledge in design and analysis of oscillators	٧	٧	٧	٧	٧							٧		
				Explain the layout, construction and working of the components inside a thermal power plant. Explain the layout, construction and working			٧	٧	٧		٧	٧	٧					
	,			of the components inside a Diesel, Gas and Combined cycle power plants.			٧	٧	٧		٧	٧	٧					
6	ME8792/ Power Plant	3	EE8311	Explain the layout, construction and working of the components inside nuclear power plants.			٧	٧	٧		٧	٧	٧					
	Engineeri ng			Explain the layout, construction and working of the components inside Renewable energy power plants			٧	٧	٧		٧	٧	٧					
				Explain the applications of power plants while extend their knowledge to power plant economics and environmental hazards and estimate the costs of electrical energy production.			٧	٧	٧		٧	٧	٧					
7	EC8311/ Electronic s Laborator	2	EC8311	Ability to understand and analyse electronic circuits.	٧			٧	٧						٧	٧		
	EE8311/			Ability to understand and analyze DC Generator	٧			٧	٧						٧	٧		
8	Electrical Machines	2	EE8311	Ability to understand and analyze DC Motor	٧			٧	٧						٧	٧		
	Laborator y - I			Ability to understand and analyse Transformers.	٧			٧	٧						٧	٧		

YEAR:2017 SEM: IV

S.	SUBJECT NAME/	COURSE	COURSE	COURSE OUTCOMES				PR	OGF	AM	ME	OUT	CON	ЛЕ (PO))		P O	P O
NO	CODE	CREDIT	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Understand the basic concepts and techniques of solving algebraic and transcendental equations.	٧	٧	٧									٧		
				Appreciate the numerical techniques of														
				interpolation and error approximations in various intervals in real life situations	٧	٧	٧									٧		
1	MA8491/ Numerical Methods	4	MA8491	Apply the numerical techniques of differentiation and integration for engineering problems	٧	٧	٧									٧		
	Methous			Understand the knowledge of various techniques and methods for solving first and second order ordinary differential equations	٧	٧	٧									٧		
				Solve the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.	٧	٧	٧									٧		
				Ability to understand the construction and working principle of Synchronous Generator	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand MMF curves and armature windings.	٧	٧	٧	٧	٧		٧					٧		
	EE8401 / Electrical			Ability to acquire knowledge on Synchronous motor	٧	٧	٧	٧	٧		٧					٧		
2	Machines – II	3	EE8401	Ability to understand the construction and working principle of Three phase Induction Motor	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand the construction and working principle of Special Machines	٧	٧	٧	٧	٧		٧					٧		
				Ability to predetermine the performance characteristics of Synchronous Machines	٧	٧	٧	٧	٧		٧					٧		
				To understand the importance and the functioning of transmission line parameters	٧	٧	٧	٧	٧		٧					٧		
	FF0402 /			To understand the concepts of Lines and Insulators.	٧	٧	٧	٧	٧		٧					٧		
2	EE8402 / Transmissi	2	FF0403	To acquire knowledge on the performance of Transmission lines.	٧	٧	٧	٧	٧		٧					٧		
3	on and Distributio n	3	EE8402	To understand the importance of distribution of the electric power in power system To acquire knowledge on Underground Cables	٧ ٧	٧ ٧	٧ ٧		٧		٧					٧ ٧		_
				To become familiar with the function of different components used in Transmission and Distribution levels of power system and modelling of these components.	٧	٧	٧		٧		٧					V		
				To acquire knowledge on Basic functional elements of instrumentation	٧	٧	٧	٧	٧							٧		
	EE0402 /			To understand the concepts of Fundamentals of electrical and electronic instruments	٧	٧	٧	٧	٧							٧		
	EE8403 / Measure ments			Ability to compare between various measurement techniques	٧	٧	٧	٧	٧							٧		
4	and Instrumen	3	EE8403	To acquire knowledge on Various storage and display devices	٧	٧	٧	٧	٧							٧		
	tation			To understand the concepts Various transducers and the data acquisition systems	٧	٧	٧	٧	٧							٧		
				Ability to model and analyze electrical and electronic Instruments and understand the operational features of display Devices and	٧	٧	٧	٧	٧							٧		

				Data Acquisition System.											
				Ability to acquire knowledge in IC fabrication	١,		,		-						
				procedure	٧	٧	٧		٧						
				Ability to analyze the characteristics of Op-	v	٧	٧		٧						
	EE8451/			Amp	v	٧	V		v						
	Linear			To understand the importance of Signal	V	V	V		٧						
	Integrated			analysis using Op-amp based circuits.											
5	Circuits	3	EE8451	Functional blocks and the applications of special ICs like Timers, PLL circuits, regulator	V	٠,	v		٧						
	and			Circuits.	V	٧	V		V						
	Applicatio			To understand and acquire knowledge on the											
	ns			Applications of Op-amp	٧	٧	٧		٧						
				Ability to understand and analyse, linear											
				integrated circuits their Fabrication and	٧	٧	٧		٧						
				Application.											
				Ability to develop various representations of											
				system based on the knowledge of Mathematics, Science and Engineering	٧	٧	٧	٧	٧					٧	
				fundamentals.											
				Ability to do time domain and frequency											
				domain analysis of various models of linear	٧	٧	٧	٧	٧					٧	
	IC8451 /			system.											
6	Control	4	IC8451	Ability to interpret characteristics of the	.,	٠,	v	٠,	٧					٧	
	Systems			system to develop mathematical model.	٧	٧	V	٧	V					V	
				Ability to design appropriate compensator for	١.	١.									
				the given specifications.	٧	٧	٧	٧	٧					٧	
				Ability to come out with solution for complex	٧	٧	٧	٧	٧					٧	
				control problem.	٧	Ľ	v	٧	٧					٧	
				Ability to understand use of PID controller in	V	V	٧	V	٧					٧	
				closed loop system. Ability to understand and analyze EMF and											
				MMF methods	v	v	V	v	v					٧	
				IVIIVII IIICERIOUS										-	
				Ability to analyze the characteristics of V and											
				Inverted V curves	٧	٧	٧	٧	٧					٧	
	EE8411/			Ability to understand the importance of											
7	Electrical	2	EE8411	Synchronous machines	٧	٧	٧	٧	٧					٧	
	Machines														
	Lab II			Ability to understand the importance of											
				Induction Machines	٧	٧	٧	٧	٧					٧	
				Ability to acquire knowledge on separation of											
				losses	٧	٧	٧	٧	٧					٧	
				Ability to understand and implement Boolean	V		٧	٧				٧	٧	٧	
	EE8461/			Functions.											
	Linear and			Ability to understand the importance of code conversion	٧		٧	٧				٧	٧	٧	
	Digital			Ability to Design and implement 4-bit shift	1										
8	Integrated	2	EE8461	registers	٧		٧	٧				٧	٧	٧	
	Circuits Laborator			Ability to acquire knowledge on Application of	٧		٧	٧				٧	-1	٧	
	y			Op-Amp	ν		V	٧				V	٧	٧	
	7			Ability to Design and implement counters	v		٧	V				٧	٧	٧	
	FF0.447.1			using specific counter IC	<u> </u>	<u> </u>	Ľ					•	•		
	EE8412/	4	EE0413	Ability to review, prepare and present							٧	٧	٧		
9	Technical Seminar	1	EE8412	technological developments Ability to face the placement interviews	1	-					٧	٧	٧		
	Jennilai		1	Thomas to race the placement interviews	1	<u> </u>	L	l	L		٧	٧	٧	<u> </u>	

YEAR: V SEM: V

S. NO	SUBJECT NAME/	COURSE	COURSE CODE	COURSE OUTCOMES				PR	OGR	AMI	ME (OUT	CON	1E (PO)			P O	P O
NO	CODE	CKEDII	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Ability to model the power system under steady state operating condition	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand and apply iterative techniques for power flow analysis	٧	٧	٧	٧	٧		٧					٧		
	EE8501 / Power			Ability to model and carry out short circuit studies on power system	٧	٧	٧	٧	٧		٧					٧		
1	System Analysis	3	EE8501	Ability to model and analyze stability problems in power system	٧	٧	٧	٧	٧		٧					٧		
	,			Ability to acquire knowledge on Fault analysis.	٧	٧	٧	٧	٧		٧					٧		
				Ability to model and understand various power system components and carry out power flow, short circuit and stability studies.	٧	٧	٧	٧	٧		٧					٧		
				Ability to acquire knowledge in Addressing modes & instruction set of 8085 & 8051.	٧		٧		٧			٧	٧		٧	٧		
	EE8551/			Ability to need & use of Interrupt structure 8085 & 8051.	٧		٧		٧			٧	٧		٧	٧		
2	Microproc essors	2	FF0FF4	Ability to understand the importance of Interfacing	٧		٧		٧			٧	٧		٧	٧		
2	and Microcont	3	EE8551	Ability to explain the architecture of Microprocessor and Microcontroller.	٧		٧		٧			٧	٧		٧	٧		
	rollers			Ability to write the assembly language programme.	٧		٧		٧			٧	٧		٧	٧		
				Ability to develop the Microprocessor and Microcontroller based applications.	٧		٧		٧			٧	٧		٧	٧		
3	EE8552 / Power	3	EE8552	Ability to analyse AC-AC and DC-DC and DC-AC converters.	٧	٧	٧	٧	٧		٧							
3	Electronic s	3	EE8332	Ability to choose the converters for real time applications.	٧	٧	٧	٧	٧		٧							
				Ability to understand the importance of Fourier transform, digital filters and DS Processors	٧	٧	٧	٧	٧		٧					٧		
				Ability to acquire knowledge on Signals and systems & their mathematical representation	٧	٧	٧	٧	٧		٧					٧		
	EE8591 / Digital			Ability to understand and analyze the discrete time systems.	٧	٧	٧	٧	٧		٧					٧		
4	Signal Processin	3	EE8591	Ability to analyze the transformation techniques & their computation.	٧	٧	٧	٧	٧		٧					٧		
	g			Ability to understand the types of filters and their design for digital implementation.	>	٧	٧	٧	^		<					٧		
				Ability to acquire knowledge on programmability digital signal processor & quantization effects.	٧	٧	٧	٧	٧		٧					٧		

S.	SUBJECT NAME/	COURSE	COURSE	COURSE OUTCOMES				PR	OGF	AM	ME	OUT	CON	ΛΕ (PO)		P O	P O
NO	CODE	CREDIT	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Develop Java programs using OOP principles			٧	٧	٧							٧		
	CS8392/ Object			Develop Java programs with the concepts inheritance and interfaces			٧	٧	٧							٧		
5	Oriented Programm	3	CS8392	Build Java applications using exceptions and I/O streams			٧	٧	٧							٧		
	ing			Develop Java applications with threads and generics classes			٧	٧	٧							٧		
				Develop interactive Java programs using swings			٧	٧	٧							٧		
				Ability to understand control theory and apply them to electrical engineering problems.			٧	٧	٧	٧			٧	٧				
	EE8511/ Control			Ability to analyze the various types of converters.			٧	٧	٧	٧			٧	٧				
6	and Instrumen	2	EE8511	Ability to design compensators			٧	٧	٧	٧			٧	٧				
	tation Laborator			Ability to understand the basic concepts of bridge networks.			٧	٧	٧	٧			٧	٧				
	У			Ability to the basics of signal conditioning circuits.			٧	٧	٧	٧			٧	٧				
				Ability to study the simulation packages.			٧	٧	٧	٧			٧	٧				
	LICOFO4 /			Make effective presentations									٧	٧	٧			
_	HS8581 / Profession al	4	1100504	Participate confidently in Group Discussions.									٧	٧	٧			
7	Communi	1	HS8581	Attend job interviews and be successful in them.									٧	٧	٧			
	cation			Develop adequate Soft Skills required for the workplace									٧	٧	٧			
	CS8383 / Object Oriented			Develop and implement Java programs for simple applications that make use of classes, packages and interfaces.			٧	٧	٧							٧		
8	Programm ing Laborator	2	CS8383	Develop and implement Java programs with arraylist, exception handling and multithreading.			٧	٧	٧							٧		
	у			Design applications using file processing, generic programming and event handling.			٧	٧	٧							٧		

YEAR:2017 SEM:VI

S.	SUBJECT NAME/	COURSE	COURSE	COURSE OUTCOMES				PR	OGF	RAM	ME	оит	CON	/IE (PO))		P O	P O
NO	CODE	CREDIT	CODE		1	2	3	4	5	6	7	8	9	10	11	12	1	2
				Ability to understand and suggest a converter for solid state drive.	٧	٧	٧	٧	٧		٧							
				Ability to select suitability drive for the given application.	٧	٧	٧	٧	٧		٧							
	EE8601 / Solid	2	FF0C04	Ability to study about the steady state operation and transient dynamics of a motor load system	٧	٧	٧	٧	٧		٧							
1	State Drives	3	EE8601	Ability to analyze the operation of the converter/chopper fed dc drive.	٧	٧	٧	٧	٧		٧							
				Ability to analyze the operation and performance of AC motor drives.	٧	٧	٧	٧	٧		٧							
				Ability to analyze and design the current and speed controllers for a closed loop solid state DC motor drive.	٧	٧	٧	٧	٧		٧							
				Ability to understand and analyze Electromagnetic and Static Relays.	٧	٧	٧	٧	٧		٧					٧		
				Ability to suggest suitability circuit breaker.	٧	٧	٧	٧	٧		٧					٧		
	EE8602 / Protection			Ability to find the causes of abnormal operating conditions of the apparatus and system.	٧	٧	٧	٧	٧		٧					٧		
2	and Switchgea	3	EE8602	Ability to analyze the characteristics and functions of relays and protection schemes.	٧	٧	٧	٧	٧		٧					٧		
	r			Ability to study about the apparatus protection, static and numerical relays.	٧	٧	٧	٧		٧						٧		
				Ability to acquire knowledge on functioning of circuit breaker.	٧	٧	٧	٧		٧						٧		
				Ability to understand and analyze Embedded systems.														
				Ability to suggest an embedded system for a given application.														
3	EE8691/ Embedde d Systems	3	EE8691	Ability to operate various Embedded Development Strategies Ability to study about the bus Communication														
				in processors. Ability to acquire knowledge on various processor scheduling algorithms.														
				Ability to understand basics of Real time operating system.														
				Ability to practice and understand converter and inverter circuits and apply software for engineering problems	٧		٧	٧						٧	٧	٧		
	EE8661/ Power			Ability to experiment about switching characteristics various switches.	٧		٧	٧						٧	٧	٧		
4	Electronic s and Drives	2	EE8661	Ability to analyze about AC to DC converter circuits.	٧		٧	٧						٧	٧	٧		
	Laborator			Ability to analyze about DC to AC circuits.	٧		٧	٧						٧	٧	٧		
	У			Ability to acquire knowledge on AC to AC converters	٧		٧	٧						٧	٧	٧		
				Ability to acquire knowledge on simulation software.	٧		٧	٧						٧	٧	٧		

					Ability to understand and apply computing platform and software for engineering problems	٧	٧	٧		٧	٧	٧	
	EE8681 / Microproc			Ability to programming logics for code conversion.	٧	٧	٧		٧	٧	٧		
	essors and			Ability to acquire knowledge on A/D and D/A.	٧	٧	٧		٧	٧	٧		
5		2	EE8681	Ability to understand basics of serial communication.	٧	٧	٧		٧	٧	٧		
				Ability to understand and impart knowledge in DC and AC motor interfacing.	٧	٧	٧		٧	٧	٧		
				Ability to understand basics of software simulators.	٧	٧	٧		٧	٧	٧		
6	EE8611/ Mini Project	2	EE8611	On Completion of the mini project work students will be in a position to take up their final year project work and find solution by formulating proper methodology.	٧	٧	٧		٧	٧	٧		

YEAR:2017 SEM:VII

S.	SUBJECT	COURSE	COURSE		PROGRAMME OUTCOME (PO)													
NO	NAME/CODE	CREDIT	CODE	COURSE OUTCOMES	1	2	3	4	5	6	7	8	9	10	11	12	0 1	2
				Ability to understand Transients in power system.	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand Generation and measurement of high voltage.	٧	٧	٧	٧	٧		٧					٧		
1	EE8701 / High Voltage	3	EE8701	Ability to understand High voltage testing.	٧	٧	٧	٧	٧		٧					٧		
	Engineering			Ability to understand various types of over voltages in power system.	٧	٧	٧	٧	٧		٧					٧		
				Ability to measure over voltages	٧	٧	٧	٧	٧		٧					٧		
				Ability to test power apparatus and insulation coordination	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand the day-to-day operation of electric power system.	٧	٧	٧	٧	٧		٧					٧	<u> </u>	
	EE8702 /			Ability to analyze the control actions to be implemented on the system to meet the minute-to-minute variation of system demand.	٧	٧	٧	٧	٧		٧					٧		
2	Power System Operation and Control	3	EE8702	Ability to understand the significance of power system operation and control	٧	٧	٧	٧	٧		٧					٧		
				Ability to acquire knowledge on real power-frequency interaction	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand the reactive power-voltage interaction.	٧	٧	٧	٧	٧		٧					٧		
				Ability to design SCADA and its application for real time operation.	٧	٧	٧	٧	٧		٧					٧		
		vable 3		Ability to create awareness about renewable Energy Sources and technologies.	٧	٧	٧	٧	٧		٧					٧		
	EE8703 / Renewable Energy Systems			Ability to get adequate inputs on a variety of issues in harnessing renewable Energy	٧	٧	٧	٧	٧		٧					٧		
3			EE8703	Ability to recognize current and possible future role of renewable energy sources.	٧	٧	٧	٧	٧		٧					٧		
				Ability to explain the various renewable energy resources and technologies and their applications	٧	٧	٧	٧	٧		٧					٧		
				Ability to understand basics about biomass energy.	٧	٧	٧	٧	٧	٧	٧					٧		
				Ability to acquire knowledge about solar energy.	٧	٧	٧	٧	٧	٧	٧					٧		
4				Ability to understand power system planning and operational studies.	٧		٧	٧						٧	٧	٧		
	EE8711 / Power			Ability to acquire knowledge on Formation of Bus Admittance and Impedance Matrices and Solution of Networks.	٧		٧	٧						٧	٧	٧		
	System Simulation	2	EE8711	Ability to analyze the power flow using GS and NR method	٧		٧	٧						٧	٧	٧		
	Laboratory			Ability to find Symmetric and Unsymmetrical fault	٧		٧	٧						٧	٧	٧		
				Ability to understand the economic dispatch.	٧		٧	٧						٧	٧	٧		
				Ability to analyze the electromagnetic transients.	٧		٧	٧						٧	٧	٧		

		2		Ability to understand and analyze Renewable energy systems.	٧	٧	٧			٧	٧	٧	
				Ability to train the students in Renewable Energy Sources and technologies.	٧	٧	٧			٧	٧	٧	
5	EE8712 / Renewable 5 Energy		EE8712	Ability to provide adequate inputs on a variety of issues in harnessing Renewable Energy.	٧	٧	٧			٧	٧	٧	
	Systems Laboratory			Ability to simulate the various Renewable energy sources.	٧	٧	٧			٧	٧	٧	
			Ability to recognize current and possible future role of Renewable energy sources.	٧	٧	٧			٧	٧	>		
			Ability to understand basics of Intelligent Controllers.	٧	٧	٧			٧	٧	٧		

YEAR: SEM: VIII

S. NO	SUBJECT NAME/COD	COURSE CREDIT	COURSE CODE	COURSE OUTCOMES			ı	PRO	GR/	MI	ME (DUT	coı	ME (Po	0)		P O 1	P O 2
	E				1	1 2 3	4	5	6	7	8	9	10	11	12			
1	EE8811 / Project Work	10	EE8811	On Completion of the project work students will be in a position to take up any challenging practical problems and find solution by formulating proper methodology.														