COURSE OUTCOMES - R18 B.Tech I-Sem					
S.No	COURSE CODE	COURSE TITLE		COURSE OUTCOMES	
1	1821101		CO 1	Apply the essential tool of matrices in	
			CO 2	Describe the convergence of series.	
		Mathematics -I	CO 3	Classify the functions of several	
			CO 4	Define Beta and gamma functions and	
			CO 5	Determine the Fourier series of the	
			GO 1		
2	1823102	_	CO 1	Remember the major chemical	
2			CO 2	reactions that are used in the synthesis	
			02	Understand the periodic properties such as ionization potential, electro	
		Engineering	CO 3	Determine the range of the	
		Chemistry	005	electromagnetic spectrum used for	
			CO 4	Analyze microscopic chemistry in	
				terms of atomic and molecular orbital	
			CO 5	understand the properties of metals,	
3	1824103		CO 1	Understand the classification of words,	
		English	CO 2	Understand the difference between	
			CO 3	Analyze the rules in language for	
			CO 4	Illustrate the factors that influence	
			CO 5	Classify the parts of speech, tenses and	
4	1805104		CO 1	Understand the basics of computer	
		-	CO 2	Analyze a given problem and develop	
			CO 3	Apply proper branching and loop	
		 Programming for Problem Solving 	CO 4	Understand the concepts of arrays and	
			CO 5	Apply modular approaches for solving	
			CO 6	Illustrate memory optimization for	
				solving real world problems using	
			CO 1	Compare rate constants of reactions	
5	1823105		001	from concentration of	
5		-	CO 2	Evaluate molecular/system properties	
		Chemistry Lab		such as surface tension, viscosity,	
	1		CO 3	Analyze of drug molecule and salt	
		-	CO 4	Determine the quantity of water sample	
				by estimation of hardness of water,	
			00.1		
6	1805106	Due energy in f	CO 1	Analyze given problem and develop an	
6	1	Programming for	CO 2	algorithm Implement Code and debug programs	
		Problem Solving	((1))	limplement Code and debug programs	

ELECTRICAL AND ELECTRONICS ENGINEERING COURSE OUTCOMES - R18

		7	CO 4	Organize and implement
7	1824107		CO 1	Describe objects, places and persons.
			CO 2	Understand the listening process and
		English Lab	CO 3	Analyze phonetics with examples
			CO 4	Illustrate different modes of
			CO 5	Classify LSRW skills
		B.Te	ch II-Sen	•
	COURSE			
S.No	CODE	COURSE TITLE	COURS	E OUTCOMES
8	1821201		CO 1	Solve the first order differential
			CO 2	Solve linear differential equations with
		Mathematics - II	CO 3	Apply Laplace Transforms in
			CO 4	Evaluation of multiple integrals.
			CO 5	Understand Vector Calculus concepts
	100000		CO 1	Understand the fundamentals of
9	1822202			materials testing using Interference and
		Engineering	CO 2	Identify the working elements of
		Physics	CO 3	Apply the fundamental physical
			CO 4	Compare semiconductors in different
			001	realms of physics and their applications
				realities of physics and their appreadons
	1002202		CO 1	Understand the basic fundamentals of
10	1802203	- Basic Electrical		DC circuits, network reduction
			CO 2	Understand the basic fundamentals of
			CO 3	Determine currents, voltage using
		Engineering		mesh and nodal analysis, maximum
			CO 4	Obtain self and mutual inductances for
				magnetic circuits, incidence matrix,
	1803204		CO 1	Understand CAD drafting and editing
11	1003204			tools along with page templates ,title
		Engineering	CO 2	Understand basic theory of projections
		Graphics &		related to points, lines, planes and
		Design	CO 3	Describe the geometric details of
				engineering objects & become familiar
			CO 4	Analyze various sectional views and
└───┼─				
	1822205		CO 1	Understand the concept of energy gap,
12		– Engineering Physics Lab		B-H curve, and synthesis of nano
			CO 2	Develop the characteristics of various
				materials in a practical manner and
			CO 3	Evaluate the application of
10	1802206		CO 1	Understand the Kirchhoff's laws
13				theoretically and practically for any

		Basic Electrical	CO 2	Determine R,L & C parameters for a
			02	given RLC series circuit and value of
		Engineering Lab	CO 3	Determine the active , reactive and
		-		
			CO 4	Apply theorems for a given DC circuits
			CO 1	Understand the knowledge of the
			COT	Understand the knowledge of the
	1803207			dimensional accuracies and tolerances
1.4	1000_01	Workshop &		applicable for different manufacturing
14			CO 2	processes.
		Manufacturing	CO 2	Identify different manufacturing
		Practices		processes which are commonly
			CO 3	Gain practical knowledge by doing
				house wiring such as connecting one
				lamp with one switch, connecting two
		B.Tec	h III-Sen	n
C N-	COURSE	COURSE TITLE	COUDS	
S.No	CODE			E OUTCOMES
	1823301		CO 1	Understand the cells, its structure and
15		_	~ ~ ~	function, different types of cells and
			CO 2	Explain about biomolecules its
				structure and function and their role in
		Biology for		a living organism How biomolecules
		Engineers	CO 3	Demonstrate the concept of biology
		Lingineers		and its uses in combination with
				different technologies for production of
			CO 4	Illustrate about genes and genetic
				materials (DNA & RNA) present in
				living organisms and how they
1.0	1814302	4302	CO 1	Understand the principles of
16		Electronic Devices	~ ~ ~	semiconductor devices.
		& Circuits	02	Apply semiconductor devices in the
		a circuits	CO 3	Analyze electronic circuits using
			CO 4	Illustrate frequency response of
$ \vdash $				
	1802303		CO 1	Understand the basic concepts of three
17				phase circuits, resonance, network
		Electrical Circuit	CO 2	Solve DC & AC circuits by using
		Analysis	CO 3	Analyse R-L,R-C and R-L-C circuits
			CO 4	Evaluate the voltage, Current and
			CO 5	Analyse two port circuit behaviour for
	1002204		CO 1	Understand the concepts of
18	1802304			electrostatic and magneto static fields
			CO 2	Apply maxwell's equations for time
		1	CO 3	Analyse divergence of electric field,
		Electromagnetic		boundary conditions and polarization

		Fields	CO 4	Analyse curl of magnetic field, force
				on a current carrying conductor and
		_	CO 5	Evaluate electric and magnetic fields
				by various laws for time variant and
			CO 6	Solve the problems on force due to
			000	
			CO 1	Understand the principle, operation and
19	1802305			constructional details of dc machines
			CO 2	Analyse the characteristics of dc
		Electrical		machines, phasor diagrams and parallel
		Machines-I	CO 3	Compare losses and efficiency by
				conducting different test on dc
			CO 4	Choose different types of connections
	1000000		CO 1	Understand the basic concepts of
20	1802306			various generating systems and its load
l l			CO 2	Understand the construction and types
		Power Systems-I	CO 3	Analyse the mechanical aspects of
			CO 4	Evaluate inductance and capacitance of
				transmission lines and grading of
		_	CO 5	Determine the cost of electrical energy,
			CO 1	Verify DC and AC circuits using
	1802307	Electrical Circuits		MATLAB/SIMULINK
21		Analysis Lab		
			CO 2	Apply theorems for DC and AC
			CO 3	Analyse transient response behaviour
			CO 4	Determine the two port parameters
			CO 1	Verify the characteristics of various
	1814308			electronic devices such as Diodes, BJT
22		Electronic Devices		and FET.
		& Circuits Lab	CO 2	Analyze the frequency response of
			CO 3	Examine the load characteristics of
			CO 4	Demonstrate the working of oscillators.
				-
23	1824309		CO 1	Describe the attributes of soft skills.
			CO 2	Understand the importance of soft
			CO 3	Analyze the reasons for stress and
		– Soft Skills Lab	CO 4	Illustrate the points in multi tasks and
		-	CO 5	Classify communication, motivation,
				teamwork, time management, work
		B.Tec	h IV-Sen	-
1				
	COURSE			
S.No	COURSE CODE	COURSE TITLE		E OUTCOMES
S.No		COURSE TITLE		

		Mathematics - III	CO 3	Determine the differentiation of
			CO 4	Solve Bessel and Legendre equations
			CO 5	Analyze images from z-plane to w-
25	1814402		CO 1	Understand various number systems
			CO 2	Apply K-map to simplify Boolean
		Digital System	CO 3	Design combinational logic circuits
		Design	CO 4	Design synchronous sequential logic
			CO 5	Realize Switching functions using
26	1802403		CO 1	Classify the types of instruments and
			CO 2	Choose suitable instrument to measure
		Electrical		Voltage, Current, Power, Energy and
		Measurements	CO 3	Determine circuit parameters using
			CO 4	Measure Phase angle errors from CT's
				and PT's, magnitude and frequency
	1802404		CO 1	Understand modelling of physical
27	1802404			systems, time and frequency domain
		Control Systems	CO 2	Analyze the stability of the system in
		Control Systems	CO 3	Evaluate the transfer function using
		_		block diagram reduction technique and
			CO 4	Design lag, lead, lag-lead
	1802405		CO 1	Understand Constructional details,
28	1002103			working, characteristics, starting
		Electrical	CO 2	Distinguish torque-speed curves and
		Machines – II	CO 3	Analyze the regulation,
		_		synchronization, hunting of
			CO 4	Evaluate the performance of three
				phase induction machines and
			CO 1	I Indoneton data si ana tara a data di
	1002406		CO 1	Understand various transmission lines,
20	1802406			the formulation of impedance and
29		Dowon Seastance II	CO 2	admittance bus matrices for a power
		Power Systems - II	02	Evaluate the performances of transmission lines and Ybus for a given
			CO 3	Analyze per unit quantities and fault
			CO 3	Investigate the load flow studies using
			0.04	Investigate the load now studies using
			CO 1	Compare and calibrate various
	1802407			measuring Instruments
30	1002107	Electrical		incusting instruments
		Measurements Lab	CO 2	Identify balanced conditions among
		-	CO 3	Measure the percentage errors among
				1 1000 1 1 1000

31	1802408	Electrical Machines – I Lab	CO 1 CO 2 CO 3	Analyze performance characteristics of DC machines and transformers Evaluate regulation and efficiency of Distinguish various tests between DC
				6
32	32 1805409	Python Programming Lab	CO 1	Examine python syntax and semantics and be fluent in the use of python flow
			CO 2	Demonstrate proficiency in handling
			CO 3	Create, run and manipulate Python programs using core data structures
33	18994M1		CO 1	Recall environmental concepts for the
		Environmental Science	CO 2	Summarize the interconnection of
			CO 3	Solve environmental problems by
				gaining a higher level of knowledge
			CO 4	Outline the impact of developmental activities on environment and proper