



(Approved by A.I.C.T.E., New Delhi, Affiliated to JNTUA, Anantapuramu)

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

JNTUA - R15 Regulation - Course Outcomes

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S.No	Name of the Department	Page No
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Sdeforf ___ Principal

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Vaagdevi Institute of Technology & Science
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PRODDATUR. Kadapa (Dist.)





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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING





COUR	SE OUTCOMES			REGULATION: R15
YEAR	/SEM: II B.TECH - I S	EM		BRANCH: ECE
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
			CO1	Explain the concepts of matrices and its applications
		0	CO2	Able to solve the algaebraic and transcendental equations using numerical methods
1	Mathematics-III	15A54301	CO3	Able to understand inter polation and extra polation and apply the appropriate methods to solve the problems.
			CO4	Construct the different types of curves by using the different numerical techniques.
			CO5	Solve the ordinary differential equations by applying the various numerical techniques.
	Electronic Devices	15A04301	CO1	Analyze the operating principles of major electronic devices, its characteristics and applications.
2	and Circuits		CO2	Design and analyze the DC bias circuitry of BJT and FET.
			CO3	Design and analyze basic transistor amplifier circuits using BJT and FET.
	Switching Theory and Logic Design	15A04302	CO1	To introduce basic postulates of Boolean algebra and the methods for simplifying Boolean expressions
3			CO2	To illustrate the concepts and study the procedures for the analysis and design of combinational circuits and sequential circuits.
ļ			CO3	To introduce the concepts of programmable logic devices.
			CO1	For integro-differential equations, the students
4	Signals and Systems	15A04303	CO2	For continuous time signals the students will make use of Fourier transform and Fourier series.
			CO3	use of Z transforms.
į			CO4	The concept of convolution is useful for analysis in the areas of linear systems and communication theory
5	Probability Theory and Stochastic Processes	15A04304	CO1	Understand the concept of a Random Variable and operations that may be performed on a single Random variable.





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			CO2	on a single Multiple Random variable Determine the temporal characteristics of random signal response of a given linear system.
			CO4	system.
			CO5	To understand Linear Systems with Random inputs
			CO1	Understand DC Generators and its operation
	Electrical Tester of		CO2	Understand D.C. Motors, and its operation
6	Electrical Technology	15A02306	CO3	Understand Single Phase transformers.
			CO4	Understand3-Phase Induction Motors.
			CO5	Understand Synchronous Machines
		15A04305	CO1	Get knowledge about Semiconductor devices and also learn the current and voltage characteristics of various devices.
	Electronic Devices and Circuits Laboratory		CO2	Get knowledge about different types rectifiers and filters along with their efficiency and ripple factors.
7			CO3	Learn about different types of BJT Transistor configurations along with current and voltage characteristics
			CO4	Learn about different types of FET Transistor configurations along with current and voltage characteristics
			CO5	Get knowledge about small signal low frequency BJT Transistor amplifiers along with their h-parameters.
	Planting Tracks along		CO1	Perform the Characteristics of D.C.Shunt Generator
	Electrical Technology		CO ₂	Perform various operations on signals
8	and Basic Simulation	15A02307	CO3	Verify the properties of LTI system and its response for different inputs.
	Laboratory		CO4	Analyze the signals using various transforms
			CO5	Analyze the characteristics of signals in noisy environment.

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	SE OUTCOMES			REGULATION: R15	
	SEM: II B.TECH - II		BRANCH: ECE		
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to	
	•		CO1	Able to get knowledge inbeta and gamma functions and Techniques of Beta and Gamma functions to improper integrals, Expressing complex functions in power series, Conformal mappings and bilinear transformations.	
			CO2	Develop skills in Analyzing the properties exhibited by complex functions in Argand plane, Properties of real integrals through complex variable techniques, the properties of improper integrals through residue theory, Conformal transformations of complex valued functions for inferences.	
I I	1 Mathematics-IV	15A54402	CO3	Develop skills in designing mathematical models involving Integrals of complex variable functions, Improper integrals using beta and gamma functions, Residue theory of complex functions.	
- a mar halifa - 70 - 7			CO4	Develop analytical skills in providing solutions for problems involving Integration of complex functions, Improper real integrals	
			CO5	Use relevant Complex variable techniques for Residues and integrals of complex functions, Improper real integrals through complex functions.	
			CO1	Demonstrate different feedback amplifiers including Voltage series, Voltage shunt, Current series and Current shunt Feedback amplifiers.	
			CO2	Analyze the frequency response of the BJT amplifiers at low and high frequencies.	
2	Electronic Circuit	15A04401	CO3	Illustrate the parameters of Single stage and multistage amplifiers.	
	Analysis		CO4	Design and analyze different types of power amplifiers including Class-A, Class-B, Class-AB & Class -D power amplifiers and compare them in terms of Efficiency.	
			CO5	Design and analyze different types of Tuned Amplifiers.	
2	Analog Communication	15A04402	CO1	Acquire knowledge on the basic concepts of Analog Communication Systems.	
3	Systems	13AU44U2	CO2	Analyze the analog modulated and demodulated systems.	





			CO3	Verify the effect of noise on the performance of
- [communication systems.
			CO4	Know the fundamental concepts of information
-				and capacity.
				Analyze and solve the problems of electric and
- [1		CO1	magnetic fields that vary with three dimensional
				spatial co-ordinates as well as with time.
-				Become proficient with analytical skills for
١, ١	Electromagnetic		CO2	understanding propagation of electromagnetic
١,	Theory and			waves in different media.
4	Transmission	15A04403		Understand the concept of transmission lines &
1	Lines		CO3	their applications.
	Titles			Develop technical & writing skills important for
			CO4	effective communication.
				Acquire team-work skills for working
- 1			CO5	1104
		<u> </u>		effectively in groups. Ability to analyze algorithms and algorithm
	Data Structures		CO1	
				correctness.
Į			CO2	Ability to summarize searching and sorting
		15A05201		techniques
5			CO3	Ability to describe stack, queue and linked list
j				operation.
			CO4	Ability to have knowledge of tree and graphs
				concepts
			CO5	Ability to have knowledge of algorithms
				Evaluate the effective transfer function of a
			CO1	system from input to output using (i) block
			COI	diagram reduction techniques (ii) Mason's gain
				formula
				Compute the steady state errors and transien
		1	CO ₂	response characteristics for a given system and
	Control Systems			excitation.
6	Engineering	15A02303		Determine the absolute stability and relative
	Engineering		CO ₃	stability of a system
		1	CO4	
				Design a compensator to accomplish desired
			CO5	performance
			CO6	Derive state space model of a given physica
		<u> </u>		system and solve the state equation
7				The ability to analyze and design single and
			CO1	
	Electronic Circuit	15A04404		frequencies.
	Analysis Laboratory	12404404	CO2	Designing and analyzing the transistor at high
		1	CO2	rrequencies.
			CO ₃	Determine the efficiencies of power amplifiers.





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			CO4	Determine Frequency response and design of tuned amplifiers.
			CO5	Able to Analyze all the circuits using simulation software and Hardware.
			CO1	To experience real time behavior of different analog modulation schemes.
Analog Communication Systems Laboratory			CO2	Technically visualize spectra of different analog modulation schemes
	15A04405	CO3	Analyze practical behavior of different elements available in analog communication system such as filters, amplifiers etc.	
			CO4	Measure characteristics of radio receiver and antenna measurements.

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COUR	SE OUTCOMES	<u></u>		REGULATION: R15
	SEM: III B.TECH - I S	SEM		BRANCH: ECE
S.No	Subject Name	Subject Code	Co	ourse Outcomes (CO): Student will be able to
			CO1	Identify functional units, bus structure and addressing modes
1	Computer Organization	15A04511	CO2	Design the hardwired and micro-programmed control units.
	Organization		CO3	Understand pipelined execution and instruction scheduling
			CO1	Approximate parametric equations for the calculation in the farfield region.
	Antennas and Wave		CO2	Write parametric integral expressions for a given current source.
2	Propagation Propagation	15A04501	CO3	Calculate electromagnetic fields for a given vector potential.
			CO4	Discover pattern multiplication principle for array antennas.
	Digital Communication Systems 15A04		CO1	Understand the elements of DCS & the fundamentals concepts of sampling theorem along with different coding and modulation techniques
3		15A04502	CO2	Understand the basic principles of base band and pass band digital modulation schemes.
			CO3	Analyze probability of error performance of digital systems and are able to design digital communication systems
			CO1	Understand the basic building blocks of linear integrated circuits and its characteristics.
4	Linear Integrated Circuits and	15A04503	CO2	Analyze the linear, non-linear and specialized applications of operational amplifiers.
	Applications		CO3	
			CO4	Amplifier.
			CO1	addressing modes
5	Digital System Design	15A04504	CO2	control units.
			CO3	scheduling.
6	MEMS & Micro	15A04506	CO1	MEMS devices.
	Systems		CO2	Explain about different micro maching technique and fabrication of Mems





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				Devices.
	ļ		CO3	Explain about different micro sensors and
			CO3	applications of Mems Sensors.
			COA	Describe different Mems accelerometer and
1			CO4	case study on Mems applications.
			CO5	Explain about Mems applications.
				Design analog circuits for practical applications
	1		CO1	using Op Amp IC-741
ļ				Design waveform generators and PLL circuits
7	IC Applications		CO2	using ICs.
_ ′		15A04507		Design multi vibrators using IC555 and Schmitt
.	Laboratory		CO3	trigger using IC741.
			<u> </u>	Analyze the practical applications of Voltage
1			CO4	Regulator using various ICs.
_				The students will be able to experience real time
	Digital Communication		COL	behavior of different digital modulation
		15A04508	CO1	
				schemes.
			CO2	Experiment with the principle of PCM, DPCM,
				DM, ADM and TDM
8			CO3	Analyze different digital modulation and
	Systems Laboratory			demodulation schemes.
			CO4	Analyze Spectral characteristics of PAM, PWM
				and QAM
			CO5	Experiment with OFDM generation and
			003	detection.
			CO1	Able recall family, and human values and
1			COI	compare his family with others.
				Classify the fundamental Rights and
			CO2	fundamental duties of citizen Influence the
				factors affecting youth crime
			COA	Explain the Environmental issues and Justify
9	Audit course – Social	15A99501	CO ₃	the objectives of civil defense.
	Values & Ethics			Demonstrate Gender inequality, Domestic
		3	CO4	
				schemes laws.
				Importance the games ,sports,and benefits of
			COS	1 -
			000	and pranayama.
				and pranayama.

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	COURSE OUTCOMES REGULATION: R15					
YEAR/	SEM: III B.TECH - II	SEM		BRANCH: ECE		
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to		
			CO1	The student will able to understand various aspects of Managerial Economics.		
			CO2	To Analyze the financial statements and inputs.		
1	Managerial Economics and Financial	15A52301	CO3	To Understand the sound and effective decisions under different economic environment and market situations.		
	Analysis		CO4	To Remember and Apply the Profitability, and Activity Ratios (simple problems).		
			CO5	Methods and Evaluation of Capital Budgeting Projects.		
			CO1	Do programming with 8086 microprocessors.		
	,		CO2	Understand concepts of Intel x86 series of processors.		
2	Microprocessors & Micro controllers	15A04601	CO3	Program MSP 430 for designing any basic Embedded System.		
			CO4	Design and implement some specific real time applications Using MSP 430 low power microcontroller.		
	Electronic Measurements and Instrumentation	15A04602	CO1	Understand basic principles involved in the meters for measuring voltage, current, resistance, frequency and so on.		
			CO2	Employ CRO for measuring voltage, current, resistance, frequency and so on.		
3			CO3	Understand principles of measurements associated with different bridges.		
			CO4	Get complete knowledge regarding working of advanced instruments such as logic analyzers and spectrum analyzers.		
	* 3		CO1	Formulate engineering problems in terms of DSP tasks.		
			CO2	to DSP problems.		
	Digital Signal	ļ	CO ₃			
4	Processing	15A04603	CO4	Analyze digital and analog signals and systems. Analyze and compare different signal processing strategies.		
			CO5			
			CO6	Analyze and compare different signal		
5	VLSI Design	15A04604	CO1	Complete Knowledge about Fabrication process		





			CO2	Able to design VLSIcircuits as per specifications given.
	1		CO3	Capable of optimizing the design of Arithmetic / logic building Blocks at all levels of Design/Fabrication.
	!		CO4	Can implement circuit through various design styles (semi- Custom, Full Custom)
			CO1	To able to familiarize the MATLAB Windows, syntaxes for basic computing.
			CO2	To understand and familiarize of Numeric, Cell and structure arrays and their operations
	MATLAB	15A04605	CO3	To apply built -in and user defined functions concepts in writing MATLAB scripts in developing the solutions.
6	Programming	15A04605	CO4	To use various data operators, flow controls and advanced plotting commands in writing MATLAB scripts.
:			CO5	To differentiate underdetermined and overdetermined systems and use appropriate MATLAB commands to provide the solutions of each.
	Microprocessors & Micro Controllers Laboratory		CO1	Can Ensure the completely use of MASM programming environment.
		15A04607	CO2	Debug assembly language programs using 8086 assembler.
7			CO3	Analyze the interfacing between external peripherals and 8086 microprocessor using development kit.
			CO4	Debug msp430 assembly language programs using CCS.
			CO5	development kit.
_			CO1	Find the response of a Linear time invariant discrete time system.
8	Digital Signal		CO2	Analyze the frequency spectrum of a discrete time signal
	Processing	15A04608	CO3	Determine the spectrum of a real world signal using Fast Fourier Transform Algorithm
	Laboratory		CO4	Design real time DSP systems and real world applications.
			CO5	Hoating point processors
9	Advanced English	15A52602	CO1	Analyze the performance of both digital and analog optical fiber systems





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	Language Communication Skills	CO2	Calculate the system bandwidth, noise, probability of error and maximum usable bit rate of a digital fiber system
	(AELCS) Laboratory	CO	Calculate the system link loss, distortion and dynamic range of an RF photonic link
		СО	To perform characteristics of fiber sources and detectors, design as well as conduct experiment in software and hardware, and analyze the results to provide valid conclusions.

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COUR	COURSE OUTCOMES REGULATION: R15					
	SEM: IV B.TECH - I S	EM		BRANCH: ECE		
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to		
			CO1	Analyze the performance of both digital and analog optical fiber systems		
	0 .: 15.		CO2	Calculate the system bandwidth, noise, probability of error and maximum usable bit rate of a digital fiber system		
1	Optical Fiber Communication	15A04701	CO3	Calculate the system link loss, distortion and dynamic range of an RF photonic link		
			CO4	To perform characteristics of fiber sources and detectors, design as well as conduct experiment in software and hardware, and analyze the results to provide valid conclusions.		
			CO1	Design of embedded systems leading to 32-bit application development.		
	E 1 11 15 44-1-	15A04702	CO2	Understand hardware-interfacing concepts to connect digital as well as analog sensors while ensuring low power considerations.		
2	Embedded Systems		CO3	Review and implement the protocols used by micro controller to communicate with external sensors and actuators in real world.		
			CO4	Understand Embedded Networking and IoT concepts based upon connected MCUs.		
			C01	Ability to analyze micro-wave circuits incorporating hollow, dielectric and planar wave guides, transmission lines, filters and other passive components, active devices.		
3	Microwave Engineering	15A04703	CO2	Ability to Use S-parameter terminology to describe circuits and to explain how microwave devices and circuits are characterized in terms of their "S"- Parameters.		
1			CO3	Ability to understanding of microwave transmission lines and how to Use microwave components such as isolators, Couplers, Circulators, Tees, Gyrators etc.		
	Data	15A04704	CO1	Understand and explain the concept of Data Communication and networks, layered architecture and their applications.		
4	Communications and Networking		CO2	for Communication networks.		
	HOWOTKING		CO3	Evaluate data communication link considering elementary concepts of data link layer protocols for error detection and correction.		





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			CO4	Apply various network layer techniques for designing subnets and super nets and analyze packet flow on basis of routing protocols.
			CO5	Understand and design application layer protocols and internet applications such as network security, Email and DNS.
			CO1	Understand radar fundamentals and analysis of the radar signals.
5	Radar Systems	15A04705	CO2	Understand various radar transmitters and receivers.
			CO3	Understand various radar like MTI, Doppler and tracking radar and their comparison.
			CO1	The student will be able to understand impairments due to multipath fading channel.
	Cellular & Mobile Communication		CO2	Understand the fundamental techniques to overcome the different fading effects.
6		15A04709	CO3	To understand Co-channel and Non Co-channel interferences.
			CO4	Able to familiar with cell coverage for signal and traffic, diversity techniques and mobile antennas.
			CO5	Understanding of frequency management, channel assignment and types of handoff.
7	Microwave and Optical	15404511	CO1	Capable of Applying microwave Concepts/ Microwave components and test them.
	Communication Laboratory	15A04711	CO2	Able to design and analyse an optical fiber communications link
			C01	Design and draw the internal structure of the various digital integrated circuits.
8	VLSI & Embedded Systems Laboratory	15A04712	CO2	Develop VHDL/Verilog HDL source code, perform simulation using relevant simulator and analyze the obtained simulation results using necessary synthesizer.
			CO3	Verify the logical operations of the digital IC"s (Hardware) in the laboratory.

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	SE OUTCOMES			REGULATION: R15
YEAR/SEM: IV B.TECH - II SEM				BRANCH: ECE
S.No	Subject Name	Subject Code	С	ourse Outcomes (CO): Student will be able to
I,			CO1	Under stand the concepts of velocity saturation, Impact Ionization and Hot Electron Effect.
	Low Power VLSI	15404900	CO2	Implement Low power design approaches for system level and circuit level measures.
1	Circuits & Systems	15A04802	CO3	Implement Low power design approaches for system level and circuit level measures.
			CO4	Design low power adders, multipliers and memories for efficient design of systems.
	2 RF Integrated Circuits 15A04804		CO1	Gain a comprehensive understanding of radio frequency principles, including concepts such as impedance matching, transmission lines, Smith charts, and signal propagation in high-frequency circuits.
			CO2	Students should learn various design techniques specific to RFICs, such as designing RF amplifiers, mixers, oscillators, and filters. This includes understanding the impact of parasitic elements and non-idealities on RF circuit performance.
2		15A04804	CO3	Students should become proficient in using RF simulation tools like ADS (Advanced Design System), Cadence Virtuoso, or Keysight Genesys to simulate and analyze RF circuits. This includes understanding how to perform Sparameter analysis, noise analysis, and armonic balance simulations.
			CO4	Understanding the fabrication process of RFICs, including semiconductor materials, lithography, etching, and packaging techniques specific to RF applications.
			CO5	Understanding noise sources in RF circuits and techniques to minimize noise figure. Additionally, understanding linearity requirements in RF systems and techniques to improve linearity, such as distortion cancellation and linearization techniques.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING





COUR	SE OUTCOMES			REGULATION: R15
YEAR	/SEM: II B.TECH - I S	EM		BRANCH: EEE
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
		·	CO1	Explain the concepts of matrices and its applications
			CO2	Able to solve the algaebraic and transcendental equations using numerical methods
1	Mathematics-III	15A54301	CO3	Able to understand inter polation and extra polation and apply the appropriate methods to solve the problems.
			CO4	Construct the different types of curves by using the different numerical techniques.
			CO5	Column the ordinary differential equations by
			CO1	Determine the transient response of R-L, R-C, R-L-C circuits for D.C. and A.C. excitations.
		15A02301	CO2	Analyze three phase balanced and unbalanced circuits and determine line voltages, line currents, phase voltages and phase currents.
2	Electrical Circuits – II		CO3	Measure active and reactive power consumed by a given three phase circuit.
			CO4	Apply Fourier transforms to electrical circuits excited by non-sinusoidal sources.
			CO5	Analysis of electrical networks, duality and dual networks.
ļ	\		CO6	
			CO7	
			CO1	Calculate the e.m.f. generated on open circuit and find terminal voltage on load.
			CO2	Diagonise the failure of DC generator to build up voltage
		1	CO3	Compute the load shared by each generator when several generators operate in parallel.
3	Electrical Machines –	15A02302	CO4	Determine the gross torque and useful torque
			CO5	Identify suitable method and conditions for
			CO6	Calculate the losses and efficiency of DC
4	Control Systems Engineering	15A02303	CO1	Evaluate the effective transfer function of a
	Engineering		CO ₂	Compute the steady state errors and transient





	<u> </u>		- 1	
				response characteristics for a given system and excitation
1				
			CO3	Determine the absolute stability and relative stability of a system
<u> </u>			CO4	Draw root loci.
			CO5	Design a compensator to accomplish desired
				performance
			,CO6	Derive state space model of a given physical system and solve the state equation.
		<u> </u>		Analyze the operating principles of major
			CO1	electronic devices, its
				characteristics and applications.
5	Electronic Devices & Circuits	15A04301	CO2	Design and analyze the DC bias circuitry of BJT and FET.
			CO3	Design and analyze basic transistor amplifier
				circuits using BJT and FET.
			CO1	Ability to analyze algorithms and algorithm
				correctness.
		15A05201	CO2	Ability to summarize searching and sorting
	Data Structures		CO3	techniques.
6				Ability to describe stack, queue and linked list
				operation.
			CO4	Ability to have knowledge of tree and graphs
				concepts.
1			CO5	
			CO1	Explain electric circuit concepts by interpreting
			COI	the simulation results.
	El at la Classita		CO2	Design RLC series circuit for specified
_	Electric Circuits	15 4 00 7 0 5	COZ	frequency response.
7	Simulation	15A02305	CO2	Analyze three phase balanced and unbalanced
	Laboratory		CO ₃	circuits.
			CO4	Design RL, RC and RLC circuits for specified
			LU4	transient response.
				Get knowledge about Semiconductor devices
			CO1	and also learn the current and voltage
				characteristics of various devices.
1]		Get knowledge about different types rectifiers
			CO2	1
			""	factors.
8	Electronic Devices &	15A04305		Learn about different types of BJT Transistor
	Circuits Laboratory		CO ₃	
				characteristics.
				Learn about different types of FET Transistor
			CO4	1
			554	characteristics.
1				Ollula del Colonia





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			Get	knowledge	about	small	signal	low
		CO5	frequ	ency BJT Tra	ansistor	amplifie	ers along	with
ļ			their	h-parameters.				

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COURSE OUTCOMES				REGULATION: R15	
	<u> </u>		BRANCH: EEE		
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to	
· ·	77		CO1	Able to get knowledge inbeta and gamma functions and Techniques of Beta and Gamma functions to improper integrals, Expressing complex functions in power series, Conformal mappings and bilinear transformations.	
			CO2	Develop skills in Analyzing the properties exhibited by complex functions in Argand plane, Properties of real integrals through complex variable techniques, the properties of improper integrals through residue theory, Conformal transformations of complex valued functions for inferences.	
1	Mathematics-IV	15A54402	CO3	Develop skills in designing mathematical models involving Integrals of complex variable functions, Improper integrals using beta and gamma functions, Residue theory of complex functions.	
90	· · · · · · · · · · · · · · · · · · ·		CO4	Develop analytical skills in providing solutions for problems involving Integration of complex functions, Improper real integrals	
			CO5	Use relevant Complex variable techniques for Residues and integrals of complex functions, Improper real integrals through complex functions.	
			CO1	The student will able to understand various aspects of Managerial Economics.	
			CO ₂		
2	Managerial Economics and Financial	15A52301	CO3	To Understand the sound and effective decisions under different economic environment and market situations.	
	Analysis		CO4	To Remember and Apply the Profitability, and Activity Ratios (simple problems).	
			CO5	Methods and Evaluation of Capital Budgeting Projects.	
1			CO1	Draw the equivalent circuit of transformer	
	Electrical Machines		CO2	Conduct O.C, S.C tests and predetermine the regulation and efficiency of transformer	
3	Electrical Machines – II	15A02401	CO3	Compute the load shared by each transformer when several transformers operate in parallel	
			CO4	Draw the circle diagram of a three phase Induction motor and predetermine the	





				
1				performance characteristics
1			CO5	Determine the starting torque, maximum torque, slip at maximum torque using given data
				Estimate the coal requirement, cost per kWh
l		l	CO1	generation and number of units generated for
			COI	thermal power station
1				Estimate the required flow of river water, cost
1			COS	of generation and number of units generated in
[CO2	
4	Electrical Power	15A02402		hydel power generation Compute various factors like load factor, plant
· '	Generating Systems		CO3	factor
				Evaluate the tariffs to be charged for the
ļ			CO4	
				Plot the load curve, load duration curve and
			CO5	hence determine the load capacity of the plant
			-	Knowledge on basic principles, concepts and
			CO1	fundamental laws of electromagnetic fields.
				The knowledge to understand 3-dimensional co-
				ordinate systems, electrostatics, magneto statics,
	Electromagnetic	1-1-0-1-0	CO2	time-varying fields and interaction between
5	Fields	15A02403		time-varying neits and interaction between
				electricity and magnetism. The knowledge to calculate the quantities
			CO3	associated with uniform plane wave motion in
				different media of transmission.
			 	Understand the Methods of biasing transistors &
	1		C01	Design of simple amplifier circuits.
				Understand the Mid – band analysis of amplifier
		1		circuits using small - signal equivalent circuits
			CO2	to determine gain, input impedance and output
	Analog Electronic	15404400		impedance.
6	Circuits	15A04409	CO3	Understand the Method ofcalculating
				cutofffrequencies and to determine bandwidth.
	1		CO4	
		1	<u> </u>	Design of circuits for linear wave shaping and
			CO5	Multi-vibrators.
			-	Conduct experiments to obtain the no-load and
		1	CO1	load characteristics of D.C. Generators
		1		Conduct tests on D.C. motors for
			CO2	
_				Conduct tests on D.C. motors for determination
7	Electrical Machines	15A02404	CO3	of efficiency
	Laboratory – I		 	Control the speed of D.C. motor in a given
			CO4	range using appropriate method
				Identify the reason as to why D.C. Generator is
1			COS	
l				not building up voltage





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		15A02405	CO1	Design the controllers/compensators to achieve desired specifications.
	Control Systems &		CO2	Understand the effect of location of poles and zeros on transient and steady state behavior of systems.
8	Simulation Laboratory		CO3	Assess the performance, in terms of time domain specifications, of first and second order systems.
	t l	<u>-</u>	CO4	Use MATLAB/SIMULINK software for control system analysis and design.

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COUR	SE OUTCOMES	<u> </u>		REGULATION: R15
	SEM: III B.TECH - I S	SEM		BRANCH: EEE
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
			CO1	Use wattmeters, pf meters, and energy meters in a given circuit.
			CO2	Extend the range of ammeters and voltmeters Measure active power, reactive power, power factor, and energy in both 1 -phase and 3-phase circuits
1	Electrical Measurements	15A02501	CO3	Measure active power, reactive power, power factor, and energy in both 1 -phase and 3-phase circuits
			CO4	Determine the resistance values of various ranges, L and C values using appropriate bridges.
			CO5	Analyze the different characteristic features of periodic, and aperiodic signals using CRO.
			CO6	Use CTs and PTs for measurement of very large currents and high voltages
			CO1	Understand the basic building blocks of linear integrated circuits and its characteristics.
			CO2	Analyze the linear, non-linear and specialized applications of operational amplifiers.
			CO3	Understand the theory of ADC and DAC.
2	Linear & Digital IC Applications	15A04509	CO4	Able to use computer-aided design tools for development of complex digital logic circuits.
	Applications		CO5	Able to model, simulate, verify, analyze, and synthesize with hardware description languages.
			CO6	Able to design and prototype with standard cell technology and programmable logic.
			CO7	Able to design tests for digital logic circuits, and design for testability.
			CO1	Compute the transmission line parameters.
		ŀ	CO ₂	
	Electrical Power		CO3	transmission line.
3	3 Transmission 15A02502 Systems	15A02502	CO4	Analyze the effect of over voltages on transmission lines.
		CO5	performance.	
4	Power Electronics	15A02503	CO1	Acquires Knowledge about Basic operating principles of power semiconductor switching devices.





				Assuiras Knowledge shout the operation of
			CO2	Acquires Knowledge about the operation of power electronic converters, choppers, inverters, AC voltage controllers, and cycloconverters, and their control.
			CO3	Acquires Knowledge about how to apply the learnt principles and methods to practical applications.
			CO1	Predetermine the regulation of synchronous generators using different methods.
			CO2	Determine how several alternators running in parallel share the load on the system.
5	Electrical Machines – III	15A02504	CO3	Analyze the performance characteristics of synchronous motors.
			CO4	Make necessary calculations for power factor improvement using synchronous condenser.
l:			CO5	Choose specific 1 -phase motor and/or special motors for a given application.
	6 Digital Circuits and Systems		CO1	Manipulate numeric information in different forms, e.g. different bases, signed integers, various codes such as ASCII, Gray, and BCD.
		15A04510	CO2	Manipulate simple Boolean expressions using the theorems and postulates of Boolean a lgebra and to minimize combinational functions.
6			CO3	Design and analyze small combinational circuits and to use standard combinational functions/building blocks to build larger more complex circuits.
			CO4	Design and analyze small sequential circuits and devices and to use standard sequential functions/building blocks to build larger more complex circuits.
7	Electrical Machines Laboratory – II	15A02506	C01	Acquires sufficiently good practical knowledge about the operation, testing, and characteristics of important A.C equipment like transformers, Induction Motors, Alternators and Synchronous Motors.
			CO2	Acquire the knowledge about the fixation of the rating of transformers, induction motors and synchronous machines.
	F14-11		C01	Calibrate various electrical measuring/recording instruments.
8	Electrical Measurements	15A02507	CO2	and capacitance using a.c bridges
	Laboratory		CO3	Accurately determine the values of very low resistances





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			CO4	Measure reactive power in 3-phase circuit using single wattmeter
			CO5	Determine ratio error and phase angle error of CT
			CO1	Able recall family, and human values and compare his family with others.
	9 Audit course – Social Values & Ethics 15A99501	15A99501	CO2	Classify the fundamental Rights and fundamental duties of citizen Influence the factors affecting youth crime
9			CO3	Explain the Environmental issues and Justify the objectives of civil defense.
		CO4	Demonstrate Gender inequality, Domestic violence and Appraise the government schemes, laws.	
		:	CO5	Importance the games ,sports,and benefits of exercise, Recommend the yoga asanas ,mudras and pranayama.

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	SE OUTCOMES	CEM		REGULATION: R15 BRANCH: EEE
YEAR S.No	/SEM: III B.TECH - II Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
			CO1	To understand the concepts of management its functions, theories of Motivation, Leadership and organization Structures
		•	CO2	To know about plant location and layout, inventory Management, PLC, channels and ASPM strategies.
1	Management Science	15A52601	CO3	To tell about the HRM concepts like HRP, Performance appraisal, Employee grievances, Recruitment strategies, Training and Development.
			CO4	To know about the Corporate Planning process, Environmental scanning, SWOT analysis, Program Evaluation, Review Technique and Critical Path method.
			CO5	six-sigma, Total Quality Management.
		15A02601	CO1	Identify the choice of the electric drive system based on their applications
			CO2	Explain the operation of single and mult quadrant electric drives
2	Power Semiconductor Drives		CO3	Analyze single phase and three phase rectifiers fed DC motors as well as chopper fed DC motors
			CO4	Explain the speed control methods for AC-AC & DC-AC converters fed to Induction motor and Synchronous motors with closed loop, and open loop operations.
			C01	well as Microprocessor based relays.
		15A02602	CO2	Understanding the protection of generators and determination of what % generator winding is unprotected under fault occurrence
3	Power System Protection		CO3	required CT ratio for transformer protection
			CO4	Explain the use of relays in protecting Feeders lines and bus bars Solve numerical problems concerning the arinterruption and recovery in circuit breakers





T		l	CO5	Understand why over voltages occur in power
				system and how to protect the system
_			CO1	Do programming with 8086 microprocessors
			CO2	Understand concepts of Intel x86 series of processors
4	Microprocessors & Micro controllers	15A04601	СОЗ	Program MSP 430 for designing any basic Embedded System
		CO4	Design and implement some specific real time applications Using MSP 430 low power microcontroller.	
			CO1	Form the Zbus and Ybus of a given power system network
			CO2	Compare different methods used for obtaining load flow solution
ļ			CO3	Conduct load flow studies on a given system
5	Power System Analysis	15A02603	CO4	Make fault calculations for various types of faults
	Allalysis		CO5	Determine the transient stability by equal area criterion
			CO6	Determine steady state stability power limit
			CO7	Distinguish between different types of buses used in load flow solution
	Programmable Logic		CO1	Program a PLC for a given application
6	Controller And Its Applications	15A02605	CO2	Implement Ladder logic for various Industrial applications
	1 tpp://doi.org		CO7 CO1 CO2 CO3	Design control circuits for various applications
			CO1	Can Ensure the completely use of MASM programming environment.
			CO2	Debug assembly language programs using 8086 assembler.
7	Microprocessors & Microcontrollers Laboratory	15A04607	CO3	Analyze the interfacing between external peripherals and 8086 microprocessor using development kit.
			CO4	using CCS.
			CO5	development kit.
			CO1	various power electronic devices.
	Power Electronics &	45.55	CO2	Test and analyze firing circuits for SCRs
8	Simulation Laboratory	15A02607	CO3	Test different types of voltage controllers
			CO4	Analyze the TPS7A4901, TPS7A8300 and





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		Advanced English Language Communication Skills (AELCS) Laboratory		COL	Accomplishment of sound vocabulary and its proper use contextually
	9		15A52602	CO2	Flair in Writing and felicity in written expression.
Į	l				Enhanced job prospects.
		(Audit Course)		CO4	Effective Speaking Abilities

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COUR	SE OUTCOMES			REGULATION: R15
	/SEM: IV B.TECH - I S	EM		BRANCH: EEE
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
			CO1	Compute the various factors associated with power distribution
	Electrical		CO2	Make voltage drop calculations in given distribution networks
1	Distribution Systems	15A02701	CO3	Learn principles of substation maintenance
			CO4	Compute power factor improvement for a given system and load
İ			CO5	Understand implementation of SCADA for distribution automation
			CO1	Formulate engineering problems in terms of DSP tasks.
			CO2	Apply engineering problems solving strategies to DSP problems.
	Th:-:4-1 5:1	l	CO3	Design and test DSP algorithms.
2	Digital Signal Processing	15A04603	CO4	Analyze digital and analog signals and systems. Analyze and compare different signal
				processing strategies.
			CO5	
			CO6	processing strategies.
			CO1	Develop the mathematical models of turbines and governors
	Power System	15 4 02702	CO ₂	Address the Load Frequency Control problem
3	Operation and Control	15A02702	CO3	helps in reactive power collinor
		CO4	Explain the issues concerned with nower system	
			C01	Develop a lighting scheme for a given practical case.
	Utilization of		CO2	Welding methods
4	Electrical Energy	15A02703	CO3	electric traction.
			CO4	Assess the economic aspects in utilisation of electrical energy
	Energy Auditing &		COI	
	Demand Side	15A02706	CO2	Carry out motor energy audit
5	Management		CO3	Analyze demand side management concepts through case study
6	Power Quality	15A02709	COI	Address power quality issues to ensure meeting of standards





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			CO2	Apply the concepts of compensation for sags and swells using voltage regulating devices		
			CO3	Assess harmonic distortion and its mitigation.		
			CO4	Explain the power measurement data according to standards		
	:12		CO1	Find the response of a Linear time invariant discrete time system.		
	Digital Signal		CO2	Analyze the frequency spectrum of a discrete time signal		
7	Processing	15A04608	CO3	Determine the spectrum of a real world signal using Fast Fourier Transform Algorithm		
	Laboratory		CO4	Design real time DSP systems and real world applications.		
		CO5	Implement DSP algorithms using both fixed and floating point processors			
	Power Systems & Simulation 15A02 Laboratory		CO1	Experimental determination (in machines lab) of sequence impedance and subtrasient reactances of synchronous machine		
			CO2	Conducting experiments to analyze LG, LL, LLG, LLLG faults		
8		15A02710	CO3	The equivalent circuit of three winding transformer by conducting a suitable experiment.		
			CO4	Developing MATLAB program for formation of Y and Z buses.		
			CO5	Developing MATLAB programs for gauss- seidel and fast decoupled load flow studies.		
			CO6	Developing the SIMULINK model for single area load frequency control problem.		

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YEAR	/SEM: IV B.TECH - II	SEM		BRANCH: EEE
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
			CO1	Identify and explain the types of errors occuring in measurement systems.
, '	Tu-4000004-4-200	15402001	CO2	Differentiate among the types of data transmission and modulation techniques.
	Instrumentation	15A02801	CO3	Apply digital techniques to measure voltage, frequency and speed.
			CO4	Choose suitable transducers for the measurement of non-electrical quantities.
	Energy Resources & Technology	15A02805	CO1	Understand different types of sources of energy
2			CO2	Analyse the generation principles and operation of variety of sources of energy
			CO ₃	Understand energy storage and economy

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING





COUR	SE OUTCOMES			REGULATION: R15	
	/SEM: II B.TECH - I S	EM	BRANCH: CSE		
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to	
			CO1	Explain the concepts of matrices and its applications	
			CO2	Able to solve the algaebraic and transcendental equations using numerical methods	
1	Mathematics-III	15A54301	CO3	Able to understand inter polation and extra polation and apply the appropriate methods to solve the problems.	
			CO4	Construct the different types of curves by using the different numerical techniques.	
			CO5	Solve the ordinary differential equations by applying the various numerical techniques.	
			CO1	Demonstrate the basic elements of a relational database management system,	
	David	15A05301	CO2	Ability to identify the data models for relevant problems.	
2	Database Management Systems		CO3	Ability to design entity relationship and convert entity relationship diagrams into	
			CO4	RDBMS and formulate SQL queries on the respect data.	
			CO5	Apply normalization for the development of application software.	
	3 Discrete Mathematics 15A05302	15A05302	CO1	Write an argument using logical notation and determine if the argument is or is not valid. able to express a logic sentence in terms of predicates, quantifiers, and logical connectives.	
-			CO2	Demonstrate an understanding of relations and	
3			CO3	Able to apply algebraic structures such as group theory and group codes to solve the real world problems. able to evaluate Boolean functions and simplify expressions using the properties of Boolean algebra.	
			C04	Demonstrate different traversal methods for trees and graphs. Model problems in Computer Science using graphs and trees.	
		CO5	Apply counting principles to determine probabilities		





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				Understand basic concepts of the currents and
			CO1	voltage by using theorems and two-port networks.
				Analyze the performance of AC & DC
	Basic Electrical And	15A99301	CO2	Machines.
4	Electronics Engineering		CO3	Analyze the operating principles of major electronic devices, its characteristics and Explain different rectifiers and filters used in power supply section.
		•	CO4	Explain and analyze basic transistor amplifier circuits using BJT and FET.
			CO5	
- 0 0				To introduce basic postulates of Boolean
			CO1	algebra and the methods for simplifying
				Boolean expressions
5	Digital Logic Design	15A04306	CO2	To illustrate the concepts and study the procedures for the analysis and design of combinational circuits and sequential circuits.
			CO3	To introduce the concepts of programmable logic devices.
			C01	The student will able to understand various
				aspects of Managerial Economics.
			CO2	To Analyze the financial statements and inputs.
	Managerial			To Understand the sound and effective
6	Economics And	15A52301	CO3	decisions under different economic environment and market situations.
	Financial Analysis		CO4	To Remember and Apply the Profitability, and
				Activity Ratios (simple problems).
			CO5	Methods and Evaluation of Capital Budgeting Projects.
724			CO1	Design databases
	Database	 	CO ₂	Retrieve information from data bases
7	Management Systems Laboratory	15A05303	CO3	Use procedures to program the data access and manipulation
			CO4	
			CO1	Understand and compare basic electric circuit
				theorems with actual working circuits.
			CO2	Apply and Conduct experiments to obtain the
	Basic Electrical And		-	load characteristics of D.C. Generators
8	Electronics	15A99302	CO3	Apply and Conduct tests on D.C. motors for
	Laboratory			predetermination of efficiency Understand electrical model for various
	,		CO4	semiconductor devices.
			-	Create the practical applications of the
			CO5	semiconductor devices.
			-	1 (1) 1 - 9 70 00

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	SE OUTCOMES	TP N/I		REGULATION: R15 BRANCH: CSE
S.No	/SEM: II B.TECH - II S Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
			CO1	Understand and apply the basic axioms of Probability.
			CO2	Tables and rules the moments of discrete & Continuous random variables
1	Probability and Statistics	15A54401	CO3	Analyze the problem of engineering and industry using testing of hypothesis techniques
			CO4	Apply the knowledge of SQC in industry and engineering related areas.
	ļ		CO5	Able to understand the queuing techniques
			CO1	Define and develop a software project from requirement gathering to Implementation.
2	Software Engineering	15A05401	CO ₂	Ability to code and test the software
2	, and a second s		C03	Ability to plan, Estimate and Maintain software systems
	Computer Organization	15A05402	C01	Ability to use memory and I/O devices effectively
3			CO2	Explore the hardware requirements for cache memory and virtual memory
			CO3	Ability to design algorithms to exploit pipelining and multiprocessors
		15A04407	CO1	Understand the architecture of 8085 and 8086 microprocessor
			CO2	Explains addressing modes, instructions of 8086 and programming in 8086.
4	Microprocessors & Interfacing		CO3	Explains about Interrupts ,Memory and I/O interfacing.
			CO4	Explains features and interfacing of programmable devices.
			CO5	and interfacing devices with microcontroller 8051
	Object Oriented	15A05403	C01	Ability to solve problems using object oriented approach and implement them using Java
5	Programming using Java		CO2	Ability to write Efficient programs with multitasking ability and handle exceptions.
			CO3	Create user friendly interface.
6	Formal Languages and Automata Theory	15A05404	C01	Construct finite state diagrams while solving problems of computer science.
			CO2	Find solutions to the problems using Turing machines.
			CO3	
7	Microprocessors &	15A04408	C01	





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	Interfacing Laboratory		CO2	Understand programmable peripheral devices and their interfacing.
	•		CO3	Write 8051 assembly Language programs.
	Java Programming Laboratory	15A05405	C01	Write portable programs which work in all environments.
8			CO ₂	Ability to create user friendly interfaces.
			CO3	Ability to solve the problem using object oriented approach and design.

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COUR	SE OUTCOMES			REGULATION: R15	
	SEM: III B.TECH - I S	EM	BRANCH: CSE		
S.No	Subject Name	Subject Code	Co	ourse Outcomes (CO): Student will be able to	
			CO1	Use operating systems effectively.	
			CO2	Write System and application programs to exploit operating system functionality.	
1	Operating Systems	15A05501	CO3	Add functionality to the exiting operating systems	
	1		CO4	Design new operating systems	
			CO1	Ability to choose the transmission media depending on the requirements.	
2	Computer Networks	15A05502	CO2	Ability to design new protocols for computer network.	
			CO3	Ability to configure a computer network logically.	
			CO1	Ability to find solutions to the complex problems using object oriented approach.	
3	Object Oriented Analysis and Design	15A05503	CO2	Represent classes, responsibilities and states using UML notation	
	Allalysis and Design		CO3	Identify classes and responsibilities of the problem domain	
			CO1	Discuss software development environment, design models for programming languages and their syntax and semantics.	
			CO2	Discuss structure of data types and implementation models.	
4	Principles of Programming Languages	15A05504	СОЗ	computations, computations.Describe Software Design methods for modularity and generic.	
			CO4	Programming languages.	
			COS	languages.	
			C01	Understand the basic testing procedures.	
			CO2	I suites.	
5	Software Testing	15A05505	CO3	automation tools.	
			CO4	Apply tools to resolve the problems in Real time environment.	





				Identify an operations system with some known
			CO1	standard configurations
			CO2	Make an assessment of the complexity of an operations system
	Introduction To		CO3	Understand the various components of a supply chain and the need to configure them
6	Operations	15A05508		appropriately
	Management		CO4	Identify methods for reducing bullwhip effect in supply chains
			CO5	Understand and relate the concept of Lean Management to one's own business situation
			CO6	Understand & use specific tools and techniques to analyze quality problems
			CO1	Demonstrate fundamentals of UML Tools.
				Develop Structural diagrams for modeling
			CO2	complex systems.
	Object Oriented		CO3	Develop Behavioral diagrams for modeling
7	Analysis and Design & Software Testing Laboratory	15A05509		complex systems.
′			CO4	Execute the working of control statements in C
			-	programming.
			CO5	Describe SRS and test cases for Banking applications and Library management system
-			003	reporting bugs.
-				Simulate the following CPU scheduling
1			CO1	algorithms a) Round Robin b) SJF c) FCFS d)
				Priority.
			CO2	Simulate all file allocation strategies a)
	Operating Systems			Sequential b) Indexed c) Linked.
8	Laboratory	15A05510	CO3	
			CO4	Simulate all File Organization Techniques a) Single level directory b) Two level c)
			LU4	Hierarchical d) DAG.
			-	Simulate Bankers Algorithm for Dead Lock
)	CO5	Avoidance.
			CO1	Able recall family, and human values and compare his family with others.
				Classify the fundamental Rights and
		l .	CO2	1
	0 : 177 1 0			factors affecting youth crime
9	Social Values &	15A99501	CO3	Explain the Environmental issues and Justify
	Ethics (Audit Course)			the objectives of civil defense.
			CO4	
				violence and Appraise the government
1			COS	schemes ,laws. Importance the games ,sports,and benefits of
			LUS	miportance me games ,sports, and benefits of





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	exercise, Recommend the yoga asanas ,mudras
	and pranayama.

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	COURSE OUTCOMES REGULATION: R15					
YEAR	SEM: III B.TECH - II		BRANCH: CSE			
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to		
			CO1	Design a compiler for a simple programming language.		
1	Compiler Design	15A05601	CO2	Able to use the tools related to compiler design effectively and efficiently.		
<u> </u>			CO3	Ability to write optimized code		
			CO1	Understand the basic concepts of data warehouse and data Mining.		
2	Data Warehousing &	15A05602	CO2	Apply pre-processing techniques for data cleansing.		
2	Mining	13A03002	CO3	Analyze and evaluate performance of algorithms for Association Rules.		
			CO4	Analyze Classification and Clustering algorithms.		
,		15A05603	CO1	Know the underlying object oriented principles of design patterns.		
3	Design Patterns		CO2	Understand the context in which the pattern can be applied.		
			CO3	Understand how the application of a pattern affects the system quality and its trade offs.		
			CO1	Analyze the complexity of the algorithms.		
			CO2	Use techniques divide and conquer, greedy, dynamic programming, backtracking, branch and bound to solve the problems.		
4	Design and Analysis of Algorithms	15A05604	CO3	Identify and analyze criteria and specifications appropriate to new problems, and choose the appropriate algorithmic design technique for their solution.		
			CO4	Able to prove that a certain problem is NP-Complete.		
			CO1	Ability to create dynamic and interactive web sites.		
 			CO2	java sript and DH1ML.		
5	Web and Internet Technologies	15A05605	CO3	now to parse and use ANL data		
	Toomiologics		CO4	Servelets, JSP and PHP.		
			CO5	Able to design rich client presentation using AJAX.		
6	Linux Environment System	15A05607	CO1	Able to describe and use the LINUX operating system.		





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			CO2	Able to describe and use the fundamental LINUX system tools and utilities.
			CO3	Able to describe and write shell scripts in order to perform basic shell programming.
			CO4	Able to describe and understand the LINUX file system.
			CO1	Ability to create dynamic and interactive web sites.
	Web and Internet	15 4 05 (00	CO2	Gain knowledge of client side scripting using java sript and DHTML.
7	Technologies Laboratory	15A05609	СОЗ	Demonstrate understanding of what is XML and how to parse and use XML data.
			CO4	Able to do server side programming with Java Servelets, JSP and PHP.
			CO1	Ability to build Data Warehouse and Explore WEKA
8	Data Warehousing & Mining Laboratory	15A05610	CO2	Ability to perform data preprocessing tasks and Demonstrate performing association rule mining on data sets
			CO3	Ability to perform classification, clustering and regression on data sets
			CO4	Ability to design data mining algorithms
	Advanced English Language		CO1	Accomplishment of sound vocabulary and its proper use contextually
9	Communication	CO2	Flair in Writing and felicity in written expression.	
	Laboratory)		CO3	Enhanced job prospects.
	(Audit Course)		CO4	Effective Speaking Abilities

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PEDDASETTIPALLI.
PRODDATUR. Kadapa (Dist.)





	RSE OUTCOMES			REGULATION: R15		
1	/SEM: IV B.TECH - I S			BRANCH: CSE		
S.No	Subject Name	Subject Code	C	Course Outcomes (CO): Student will be able to		
			CO1	To understand the concepts of management its functions, theories of Motivation, Leadership and organization Structures		
			CO2	To know about plant location and layout, inventory Management, PLC, channels and ASPM strategies.		
1	Management Science	15A52601	CO3	To tell about the HRM concepts like HRP, Performance appraisal, Employee grievances, Recruitment strategies, Training and Development.		
			CO4	To know about the Corporate Planning process, Environmental scanning, SWOT analysis, Program Evaluation, Review Technique and Critical Path method.		
			CO5	To describe the contemporary management practices like BPR, BPO, Balance score card, six-sigma, Total Quality Management.		
	Grid & Cloud Computing	15A05701	CO1	Apply the security models in the grid and the cloud environment.		
2			CO ₂			
2	Computing		CO3			
			CO4	Apply grid computing techniques to solve large scale scientific problems		
	Information Security		CO1	Protect the network from both internal and external attacks.		
3	Intornation Security	15A05702	CO ₂			
			CO3	Ability to choose the appropriate security algorithm based on the requirements.		
	No. 1.11. A		CO1	Create data sharing with different applications and sending and intercepting SMS.		
4	Mobile Application Development	15A05703	CO2	Develop applications using services and publishing android applications.		
			CO3	To demonstrate their skills of using Android software development tools.		
			CO1	Design and motivate software architecture for large scale software systems.		
5	Software Architecture	15A05704	CO2	Recognize major software architectural styles, design patterns, and frameworks.		
	Software Architecture		соз	Describe a software architecture using various		





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			CO4	Generate architectural alternatives for a problem and select among them.
	ŀ		CO5	Use well-understood paradigms for designing new systems.
	Software Project 6 Management	15A05707	CO1	Describe and determine the purpose and importance of project management from the perspectives of planning, tracking and completion of project.
6			CO2	Compare and differentiate organization structures and project structures.
			CO3	Implement a project to manage project schedule, expenses and resources with the application of suitable project management tools.
	Grid & Cloud Computing	15105510	CO1	Design and Implement applications on the Cloud.
7	Laboratory	15A05710	CO ₂	Design and implement applications on the Grid.
			CO3	Use the grid and cloud tool kits.
	Mobile Application Development Laboratory 15A05711	CO1	Create data sharing with different applications and sending and intercepting SMS.	
8		15A05711	CO2	Develop applications using services and publishing android applications.
			CO3	To demonstrate their skills of using Android software development tools.

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COUR	SE OUTCOMES		_	REGULATION: R15
YEAR	YEAR/SEM: IV B.TECH - II SEM			BRANCH: CSE
S.No	Subject Name Subject Code		Course Outcomes (CO): Student will be able to	
			CO1	Use mobile computing more effectively
1	Mobile Computing	15A05802	CO2	Gain understanding of the current topics in MANETs and WSNs, both from an industry and research point of views.
			CO3	Acquire skills to design and implement a basic mobile ad hoc or wireless sensor network via simulations.
			CO1	Able to understand the application areas of IoT.
2	Enabling Technologies for	15A05805	CO2	Able to realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks.
Ža	Data Science & Analytics : IoT		CO3	Able to understand building blocks of Internet of Things and characteristics.

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DEPARTMENT OF BASIC SCIENCE & HUMANITIES





COURSE OUTCOMES REGULATION: R15						
YEAR	SEM: I B.TECH - I SI	EM	BRANCH: ECE			
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to		
			CO1	Have improved communication in listening, speaking, reading and writing skills in general.		
_			CO2	Have developed their oral communication and fluency in group discussions and interviews.		
1	Functional English	15A52101	CO3	Have improved awareness of English in science and technology context.		
			CO4	Have achieved familiarity with a variety of technical reports.		
			CO1	To become familiar with the application of differential and integral calculus.		
	· ·		CO2	To become familiar with the application of ODE and Vector calculus.		
2	Mathematics – I	15A54101	CO3	To attain abilities to use mathematical knowledge to analyze, formulate and solve problems in engineering applications.		
		CO4	To develop the skill pertinent to practice of mathematical concept.			
			CO5	To develop the mathematical concepts of ODEs and their applications.		
	Commuter		CO1	Apply problem solving techniques in designing the solutions for a wide-range of problems.		
3	Computer Programming	15A05101	CO2	Choose appropriate control structure depending on the problem to be solved.		
			CO3	Modularize the problem and also solution.		
4	Engineering	15A51101	CO1	apply suitable treatments domestically and industrially.		
	Chemistry		CO2	energy		
l			CO3	engineering materials.		
	Environmental		CO1	sustainable life styles etc.		
5	Studies	15A01101	CO2	Students will realize the need to change their		





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		[learning.
.	-			Students become conversant with the fact that
				there is a need to create a concern for our
			CO3	environment that will trigger pro-environmental
				action; including simple activities we can do in
				our daily life to protect it.
				By studying environmental sciences, students is
			CO4	exposed to the environment that enables one to
ì ì			CU4	find out solution of various environmental
				problems encountered on and often.
]				Identify and analyze environmental problems as
				well as the risks associated with these problems
]				and efforts to be taken to protect the
			CO5	environment from getting polluted. This will
]				enable every human being to live in a more
				sustainable manner.
	English Language		<u> </u>	Become active participants in the learning
	Communication	15A52102	CO1	process and acquire proficiency in spoken
6	Skills			English
"	Lab		500	Speak with clarity and confidence thereby
			CO2	enhance employability skills.
				Would be confident in handling energy storage
<u> </u>			CO1	systems and would be able combat chemical
				corrosion.
	Engineering		COS	Would have acquired the practical skill to
7	Chemistry Lab	15A51102	CO2	handle the analytical methods with confidence.
,			000	Would feel comfortable to think of design
		1	CO3	materials with the requisite properties.
	,		001	Would be in a position to technically address
		1	CO4	the water related problems.
				Apply problem solving techniques to find
			CO1	solutions to problems
8	Computer	15A05102		Able to use C language features effectively and
"	Programming Lab		CO ₂	implement solutions using C language.
			CO3	
			1 0 0 0	1

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	SE OUTCOMES	_		REGULATION: R15
	/SEM: I B.TECH - II S		BRANCH: ECE	
S.No	Subject Name	Subject Code		ourse Outcomes (CO): Student will be able to
	English for	-	CO1	Have acquired ability to participate effectively in group discussions.
1	Professional Communication	15A52201	CO2	Have developed ability in writing in various contexts.
			co3	Have acquired a proper level of competence for employability.
			CO1	To gain the knowledge to tackle the engineering problems using the concepts of Fourier series.
2	Mathematics – II	15A54201	CO2	The students gains the knowledge to tackle the engineering problems using the concepts of Laplace transforms
_			CO3	To Understand the concepts of PDEs.
			CO4	To Understand the concepts of Fourier sine and cosine integrals, Fourier transforms.
			CO5	To understand the applications of Z-transforms.
		15A04201	CO1	Apply the knowledge of basic circuital law and simplify the network using reduction techniques
			CO2	Analyze the circuit using Kirchhoff's law and Network simplification theorems.
			CO3	Infer and evaluate transient response, Steady state response, network functions.
3	Network Analysis		CO4	Obtain the maximum power transfer to the load, and Analyze the series resonant and parallel resonant circuit.
			CO5	Obtain the maximum power transfer to the load, and Analyze the series resonant and parallel resonant circuit.
			CO1	The different realms of physics and their applications in both scientific and technological systems are achieved through the study of physical optics, lasers and fibre optics.
4	4 Engineering Physics 15A56101	15A56101	CO2	are focused along with defects in crystals and ultrasonic non-destructive techniques.
		CO3	The discrepancies between the classical estimates and laboratory observations of physical properties exhibited by materials would be lifted through the understanding of quantum	





		 -		
				picture of subatomic world. The electronic and magnetic properties of
			CO4	materials were successfully explained by free electron theory and the bases for the band theory are focused.
		ŧ	CO5	The properties and device applications of semiconducting and magnetic materials are illustrated. The importance of superconducting materials and nanomaterials along with their engineering applications are well elucidated.
_			CO1	Drawing 2D and 3D diagrams of various objects.
5	Engineering Drawing	15A03101	CO2	Learning conventions of Drawing, which is an Universal Language of Engineers.
			CO3	Drafting projections of points, planes and solids.
			CO1	Apply Kirchoff's laws, network reduction techniques on simple electrical circuits with dependent & independent sources.
	Network Analysis Lab	15A04202	CO2	Select appropriate theorem for network simplification.
6			CO3	time & frequency domains.
			CO4	Determine voltages and currents in a resonant circuit.
			CO5	port network.
			CO1	Would recognize the important of optical phenomenon like Interference and diffraction.
7	Engineering Physics Lab	15A56102	CO2	structure and lasers by the study of their relative parameters.
			CO3	nanomateriais in various engineering netus.
			CO1	Disassemble and Assemble a Personal Computer and prepare the computer ready to use.
			CO2	
8	Engineering and IT Workshop	15A99201	CO3	Prenare Slide presentations using the
,	11 OIRSHOP		CO4	Interconnect two or more computers for information sharing.
			CO4	Access the Internet and Browse it to obtain the





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COS	Install	single	or	dual	operating	systems	on
	compu						

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COUR	SE OUTCOMES		•	REGULATION: R15
	/SEM: I B.TECH - I SE	CM		BRANCH: EEE
S.No	Subject Name	Subject Code	C	ourse Outcomes (CO): Student will be able to
		-	CO1	Have improved communication in listening, speaking, reading and writing skills in general.
		15 4 50 10 1	CO2	Have developed their oral communication and fluency in group discussions and interviews.
1	Functional English	15A52101	CO3	Have improved awareness of English in science and technology context.
			CO4	Have achieved familiarity with a variety of technical reports.
			CO1	To become familiar with the application of differential and integral calculus.
			CO2	To become familiar with the application of ODE and Vector calculus.
2	Mathematics – I	15A54101	CO3	To attain abilities to use mathematical knowledge to analyze, formulate and solve problems in engineering applications.
			CO4	To develop the skill pertinent to practice of mathematical concept.
			CO5	To develop the mathematical concepts of ODEs and their applications.
		15A05101	CO1	Apply problem solving techniques in designing the solutions for a wide-range of problems.
3	Computer Programming		CO2	Choose appropriate control structure depending on the problem to be solved.
			CO3	Modularize the problem and also solution.
	4 Engineering Physics 15A5		CO1	The different realms of physics and their applications in both scientific and technological systems are achieved through the study of physical optics, lasers and fibre optics.
4		15A56101	CO2	are focused along with defects in crystals and ultrasonic non-destructive techniques.
			CO3	be lifted through the understanding of quantum picture of subatomic world.
			CO4	The electronic and magnetic properties of materials were successfully explained by free electron theory and the bases for the band





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				theory are focused
		ļ		theory are focused. The properties and device applications of
			CO5	semiconducting and magnetic materials are illustrated. The importance of superconducting materials and nanomaterials along with their engineering applications are well elucidated.
			CO1	Drawing 2D and 3D diagrams of various objects.
5	Engineering Drawing	15A03101	CO2	Learning conventions of Drawing, which is an Universal Language of Engineers.
	l l		CO3	Drafting projections of points, planes and solids.
6	English Language Communication Skills Lab	15A52102	CO1	Become active participants in the learning process and acquire proficiency in spoken English.
			CO2	Speak with clarity and confidence thereby enhance employability skills.
			CO1	Would recognize the important of optical phenomenon like Interference and diffraction.
7	7 Engineering Physics Lab	CO2	Would have acquired the practical application knowledge of optical fiber, semiconductor, dieclectric and magnetic materials, crystal structure and lasers by the study of their relative parameters.	
			CO3	Would recognize the significant importance of nanomaterials in various engineering fields.
		15A05102	CO1	Apply problem solving techniques to find solutions to problems
8	Computer Programming Lab		CO2	Able to use C language features effectively and implement solutions using C language.
			CO3	Improve logical skills.

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	SE OUTCOMES			REGULATION: R15
YEAR/	SEM: I B.TECH - II S	EM		BRANCH: EEE
S.No	Subject Name	Subject Code	Co	urse Outcomes (CO): Student will be able to
			CO1	To gain the knowledge to tackle the engineering problems using the concepts of Fourier series.
	Mathematics – II	15A54201	CO2	The students gains the knowledge to tackle the engineering problems using the concepts of Laplace transforms
+1	Manichanes – 11	15115 1201	CO3	To Understand the concepts of PDEs.
			CO4	To Understand the concepts of Fourier sine and cosine integrals, Fourier transforms.
j			CO5	To understand the applications of Z-transforms.
	English for		CO1	Have acquired ability to participate effectively in group discussions.
2	Professional Communication	15A52201	CO2	Have developed ability in writing in various contexts.
			CO3	Have acquired a proper level of competence for employability.
3 En	Engineering	15A51101	CO1	Differentiate between hard and soft water. Understand the disadvantages of using hard water domestically and industrially. Select and apply suitable treatments domestically and industrially.
	Chemistry		CO2	Understand the electrochemical sources of energy.
			CO3	Understand industrially based polymers, various engineering materials.
			CO1	Students will get the sufficient information that will clarify modern environmental concepts like equitableuse of natural resources, more sustainable life styles etc.
4	Environmental	15A01101	CO2	approach based on observation and self learning.
	Studies		CO3	Students become conversant with the fact that there is a need to create a concern for our environment that will trigger pro-environmental action; including simple activities we can do in our daily life to protect it.
			CO4	By studying environmental sciences, students is





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— Т				problems encountered on and often.
			CO5	Identify and analyze environmental problems as well as the risks associated with these problems and efforts to be taken to protect the environment from getting polluted. This will enable every human being to live in a more sustainable manner.
			CO1	Given a network, find the equivalent impedance by using network reduction techniques.
5	Elecrical Circuits-I	15A02201	CO2	Given a circuit and the excitation, determine the real power, reactive power, power factor etc,.
			CO3	Determine the current through any element and voltage across any element
			CO4	Apply the network theorems suitably
_			CO1	Drawing 2D and 3D diagrams of various objects.
6	Engineering Chemistry Lab	15A51102	CO2	Learning conventions of Drawing, which is an Universal Language of Engineers.
ì			CO3	Drafting projections of points, planes and solids.
		15A02202	CO1	Apply suitable theorems for circuit analysis and verify the results theoretically
			CO2	Experimental determination of two port network parameters and theoretical verification
7	Electrical Circuits Lab		CO3	Measure active and reactive power experimentally and verify the theoretical values
	Lav		CO4	Experimentally determine self inductance, mutual inductance and coefficient of coupling
			CO5	Practically determine hand width O-factor and
			CO1	Disassemble and Assemble a Personal Computer and prepare the computer ready to use.
			CO ₂	Prepare the Documents using Word processors
	Engineering and IT	15A99201	CO3	Prepare Slide presentations using the presentation tool.
8	Workshop		CO4	information snaring.
			CO4	required information
			CO5	Install single or dual operating systems on

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	SEM: I B.TECH - I SE		BRANCH: CSE		
S.No	Subject Name	Subject Code		ourse Outcomes (CO): Student will be able to	
1			CO1	Have improved communication in listening, speaking, reading and writing skills in general.	
			CO2	Have developed their oral communication and fluency in group discussions and interviews.	
	Functional English	15A52101	CO3	Have improved awareness of English in science	
			CO4	and technology context. Have achieved familiarity with a variety of	
				technical reports. To become familiar with the application of	
			CO1	differential and integral calculus. To become familiar with the application of ODE	
			CO2	and Vector calculus.	
2	Mathematics – I	15A54101	СОЗ	To attain abilities to use mathematical knowledge to analyze, formulate and solve problems in engineering applications.	
			CO4	To develop the skill pertinent to practice of mathematical concept.	
			CO5	To develop the mathematical concepts of ODEs and their applications.	
		15A05101	CO1	Apply problem solving techniques in designing the solutions for a wide-range of problems.	
3	Computer Programming		CO2	Choose appropriate control structure depending on the problem to be solved.	
			CO ₃	Modularize the problem and also solution.	
	4 Engineering Physics 15A5		CO1	achieved through the study of physical optics lasers and fibre optics.	
4		15A56101	CO2	are focused along with defects in crystals and ultrasonic non-destructive techniques.	
			CO3	be lifted through the understanding of quantur picture of subatomic world.	
			CO4	The electronic and magnetic properties of materials were successfully explained by fre	





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				electron theory and the bases for the band
]		theory are focused.
			CO5	The properties and device applications of semiconducting and magnetic materials are illustrated. The importance of superconducting materials and nanomaterials along with their engineering applications are well elucidated.
			CO1	Drawing 2D and 3D diagrams of various objects.
5	Engineering Drawing	15A03101	CO2	Learning conventions of Drawing, which is an Universal Language of Engineers.
			CO3	Drafting projections of points, planes and solids.
6	English Language Communication Skills Lab	15A52102	CO1	Become active participants in the learning process and acquire proficiency in spoken English.
			CO2	Speak with clarity and confidence thereby enhance employability skills.
			CO1	Would recognize the important of optical phenomenon like Interference and diffraction.
7	Engineering Physics Lab 15A56102	15A56102	CO2	Would have acquired the practical application knowledge of optical fiber, semiconductor, dieclectric and magnetic materials, crystal structure and lasers by the study of their relative parameters.
		l	CO3	Would recognize the significant importance of nanomaterials in various engineering fields.
		15A05102	CO1	Apply problem solving techniques to find solutions to problems
8	Computer Programming Lab		CO2	Able to use C language features effectively and implement solutions using C language.
			CO3	Improve logical skills.

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COUR	SE OUTCOMES			REGULATION: R15	
	SEM: I B.TECH - II S	SEM		BRANCH: CSE	
S.No	Subject Name	Subject Code	С	ourse Outcomes (CO): Student will be able to	
	- 111.0		CO1	Have acquired ability to participate effectively in group discussions.	
1	English for Professional	15A52201	CO2	Have developed ability in writing in various contexts.	
	Communication		CO3	Have acquired a proper level of competence for employability.	
			CO1	To gain the knowledge to tackle the engineering problems using the concepts of Fourier series.	
2	Mathematics – II	15A54201	CO2	The students gains the knowledge to tackle the engineering problems using the concepts of Laplace transforms	
i 1			CO3	To Understand the concepts of PDEs.	
		!	CO4	To Understand the concepts of Fourier sine and cosine integrals, Fourier transforms.	
()			CO5		
		15A05201	CO1	Ability to analyze algorithms and algorithm correctness.	
1	Data Structures		CO2	Ability to summarize searching and sorting techniques.	
3			CO3	Ability to describe stack, queue and linked list operation.	
			CO4	Ability to have knowledge of tree and graphs concepts.	
			CO5		
4	Engineering	15451101		CO1	Differentiate between hard and soft water. Understand the disadvantages of using hard water domestically and industrially. Select and apply suitable treatments domestically and industrially.
	Chemistry		CO2	Understand the electrochemical sources of energy.	
			CO3	engineering materials.	
5	Environmental Studies	15A01101	CO1	Students will get the sufficient information that will clarify modern environmental concepts like equitableuse of natural resources, more sustainable life styles etc.	
	Studies		CO2	Students will realize the need to change their approach so as to perceive our own environmental issuescorrectly, using practical	





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-				1 1 . 4 1
	2 - 81000 I			approach based on observation and self
1				Students become conversant with the fact that
1			600	there is a need to create a concern for our
		1	CO3	environment that will trigger pro-environmental action; including simple activities we can do in
				our daily life to protect it.
	2			By studying environmental sciences, students is
			1	exposed to the environment that enables one to
			CO4	find out solution of various environmental
				problems encountered on and often.
ļ			-	Identify and analyze environmental problems as
			ļ	well as the risks associated with these problems
				and efforts to be taken to protect the
l			CO5	environment from getting polluted. This will
				enable every human being to live in a more
				sustainable manner.
(-			CO1	Apply problem solving techniques to find
	Data Structures Lab	15A05202	COI	solutions to problems
6			CO2	Able to identify the appropriate data structure
				for a given problem or application.
5			CO3	Improve logical skills
			CO1	Drawing 2D and 3D diagrams of various
	Engineering	15A51102		objects.
7	Chemistry Lab	13/431102	CO2	Learning conventions of Drawing, which is an
				Universal Language of Engineers.
			CO3	
			COL	Disassemble and Assemble a Personal Computer and prepare the computer ready to
			CO1	use.
			CO2	
				Prepare Slide presentations using the
	Engineering and IT		CO3	presentation tool.
8	Workshop	15A99201	-	Interconnect two or more computers for
	worksnop		CO4	information sharing.
				Access the Internet and Browse it to obtain the
			CO4	required information
			605	Install single or dual operating systems on
			CO5	computer
				2 200

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