

# Course Outcomes for B.Tech - CSE (R15) for the year 2015-16

Course	Year/Semester I/I	Subject Name (Subject Code)	No. of Hours	
outcome	Sem	MATHEMATICS-I (A9001)	L:4 T:0 P: 0	Credits-4
After the co	mpletion of this cou	rse, the students should be able to	•	
1		nearity of differential equation for classical problems.		
2	Develop different m methods.	odels for first order and order differential equations man	nually and technol	ogical based
3	applications to math		-	ıg
4		erent geometries using integral form to compute areas an		
5		ation for initial and boundary value problems using Lapl d aspects in Laplace transform, Adopt Laplace transform rential equations		
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	
Outcome	I/I Sem	APPLIED PHYSICS(A9007)	L:4 T:0 P:0	Credits-4
After the co	mpletion of this cou	rse, the students should be able to		
1		mechanics and quantum mechanics and apply for new in	nnovations.	
2		free electron theory of metals and its successes alo		backs.
		ate number of charge carriers in a semi conductor.	0	
3		cs and magnetic materials along with their engineer	ring applications	5.
4		types of lasers, their construction and applications		
5		mentals of optical fibres and apply their application	<u> </u>	
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:3
Outcome	I/I Sem	ENGLISH(A9012)	L:3 T:0 P:0	
After the co	mpletion of this cou	rse, the students should be able to		
1	-	ents of different forms of communication skills.		
2		nings of words from context and grasp the effectiv	e vocabulary.	
		nent of comprehension and fluency will be adaptab		
3			10.	
3		in using language in varied situations		
4	Gain confidence	in using language in varied situations	arantly in spaski	na
	Gain confidence	municate by stating main ideas relevantly and coh	erently in speaki	ng &
4 5	Gain confidence Develop and Con writing.	municate by stating main ideas relevantly and coh		
4 5 Course	Gain confidence Develop and Con writing. Year / semester		No. of Hours	ng & Credits-4
4 5 Course Outcome	Gain confidence Develop and Con writing. Year / semester I/I Sem	municate by stating main ideas relevantly and coh Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303)		
4 5 Course Outcome	Gain confidence Develop and Con writing. Year / semester I/I Sem mpletion of this cou	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) rse, the students should be able to	No. of Hours	
4 5 Course Outcome After the co 1	Gain confidence Develop and Con writing. Year / semester I/I Sem mpletion of this cou Understand the de	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) arse, the students should be able to evelopment of surfaces.	No. of Hours	
4 5 Course Outcome After the co 1 2	Gain confidence Develop and Con writing. Year / semester I/I Sem mpletion of this cou Understand the de Indicate the inters	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) arse, the students should be able to evelopment of surfaces. Section of solids and their Applications.	No. of Hours	
4 5 <b>Course</b> Outcome After the co 1 2 3	Gain confidence Develop and Con writing. Year / semester I/I Sem mpletion of this cou Understand the do Indicate the inters Associate the ison	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) rse, the students should be able to evelopment of surfaces. Section of solids and their Applications. netric and orthographic Projections.	No. of Hours L:2 T:0 P:4	
4 5 Course Outcome After the co 1 2 3 4	Gain confidence Develop and Con writing. Year / semester I/I Sem Indicate the inters Associate the ison Gain knowledge o	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) rse, the students should be able to evelopment of surfaces. section of solids and their Applications. hetric and orthographic Projections. f intersections of solids and their usage in real tim	No. of Hours L:2 T:0 P:4	
4 5 <b>Course</b> Outcome After the co 1 2 3	Gain confidence Develop and Con writing. Year / semester I/I Sem Indicate the inters Associate the ison Gain knowledge o	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) rse, the students should be able to evelopment of surfaces. Section of solids and their Applications. netric and orthographic Projections.	No. of Hours L:2 T:0 P:4	
4 5 Course Outcome After the co 1 2 3 4	Gain confidence Develop and Con writing. Year / semester I/I Sem Indicate the inters Associate the ison Gain knowledge o	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) rse, the students should be able to evelopment of surfaces. section of solids and their Applications. hetric and orthographic Projections. f intersections of solids and their usage in real tim	No. of Hours L:2 T:0 P:4	
4 5 Course Outcome After the co 1 2 3 4 5	Gain confidence Develop and Con writing. Year / semester I/I Sem Understand the de Indicate the inters Associate the ison Gain knowledge o Apply the applicat	Subject Name (Subject Code) ENGINEERING GRAPHICS (A9303) rse, the students should be able to evelopment of surfaces. Section of solids and their Applications. netric and orthographic Projections. f intersections of solids and their usage in real tim ions of the ideas in fabrication of machine parts.	No. of Hours L:2 T:0 P:4 e applications.	Credits-4
4 5 Course Outcome After the co 1 2 3 4 5 5 Course	Gain confidence Develop and Con writing. Year / semester I/I Sem Depletion of this cou Understand the de Indicate the inters Associate the inters Associate the ison Gain knowledge o Apply the applicat Year / semester	Subject Name (Subject Code)         ENGINEERING GRAPHICS (A9303)         rse, the students should be able to         evelopment of surfaces.         section of solids and their Applications.         netric and orthographic Projections.         f intersections of solids and their usage in real time         cions of the ideas in fabrication of machine parts.         Subject Name (Subject Code) PROBLEM         SOLVING & COMPUTER	No. of Hours L:2 T:0 P:4 e applications. No. of Hours	Credits-4
4 5 Course Outcome After the co 1 2 3 4 5 Course Outcome	Gain confidence Develop and Con writing. Year / semester I/I Sem Understand the do Indicate the inters Associate the ison Gain knowledge o Apply the applicat Year / semester I/I Sem	subject Name (Subject Code)         ENGINEERING GRAPHICS (A9303)         rse, the students should be able to         evelopment of surfaces.         section of solids and their Applications.         netric and orthographic Projections.         f intersections of solids and their usage in real time         tions of the ideas in fabrication of machine parts.         Subject Name (Subject Code) PROBLEM         SOLVING & COMPUTER         PROGRAMMING(A9501)	No. of Hours L:2 T:0 P:4 e applications. No. of Hours	Credits-4
4 5 Course Outcome After the co 1 2 3 4 5 Course Outcome	Gain confidence Develop and Con writing. Year / semester I/I Sem mpletion of this cou Understand the de Indicate the inters Associate the ison Gain knowledge o Apply the applicat Year / semester I/I Sem	subject Name (Subject Code)         ENGINEERING GRAPHICS (A9303)         rse, the students should be able to         evelopment of surfaces.         section of solids and their Applications.         netric and orthographic Projections.         f intersections of solids and their usage in real time         cions of the ideas in fabrication of machine parts.         Subject Name (Subject Code) PROBLEM         SOLVING & COMPUTER         PROGRAMMING(A9501)         rse, the students should be able to	e applications. No. of Hours L:2 T:0 P:4	Credits-4
4 5 Course Outcome After the co 1 2 3 4 5 Course Outcome	Gain confidence Develop and Con writing. Year / semester I/I Sem Develop and Con Writing. Year / semester Understand the development Indicate the inters Associate the inters Associate the inters Associate the inters Associate the ison Gain knowledge o Apply the applicat Year / semester I/I Sem Development I/I Sem	subject Name (Subject Code)         ENGINEERING GRAPHICS (A9303)         rse, the students should be able to         evelopment of surfaces.         section of solids and their Applications.         netric and orthographic Projections.         f intersections of solids and their usage in real time         tions of the ideas in fabrication of machine parts.         Subject Name (Subject Code) PROBLEM         SOLVING & COMPUTER         PROGRAMMING(A9501)	No. of Hours L:2 T:0 P:4 e applications. No. of Hours L:4 T:0 P:0 ining solutions.	Credits-4 Credits:4



3	Implement different	operations on arrays and Pointers and creating and usin	g of functions to s	olve
	problems.		-	
		d datatypes such as structures and union.		
5	Design and impleme	ent different types of file structures using standard	I	I
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	
Outcome	I/I Sem	APPLIED PHYSICS LAB(A9008)	L:0 T:0 P:3	Credits:2
fter the con	npletion of this cou	rse, the students should be able to		
	-	s with applications of CR, LCR, Circuits.		
		ent about modern equipment like solar cell, optical	fibre etc	
3	Ų	to these experiments, and the student can compare		correlate
4	Meliorate the know	wledge of Lasers, & Light properties.		
Course	Year / semester	Subject Name (Subject Code) PROBLEM	No. of Hours	Credits:2
Outcome	I/I Sem	SOLVING & COMPUTER	L:0 T:0 P:3	
		PROGRAMMING LAB(A9502)		
	• • • • •		1	
		rse, the students should be able to		
		ture of the C Programming ,declaration and usage of var		
		and iterative statements to solve scientific and engineer		
		operations on arrays and creating and using of function	s to solve problem	IS.
4	Exercise pointers, fi	le structures to write C programs	1	1
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	
Outcome	I/I Sem	INFORMATION TECHNOLOGY WORKSHOP(A9503)	L:0 T:0 P:3	Credits:2
fter the con	npletion of this cou	rse, the students should be able to		
	-	ng of Hardware and Software		
		s to access Internet, Search Engines.		
		ord, MS Excel, MS Power Point.		
	Learn LATEX Tool			
			N. CII	
	Year / semester	Subject Name (Subject Code) MATHEMATICS-II(A9002)	No. of Hours	Credits:4
Outcome	I/II Sem	<b>WATHEMATICS-II(A9002)</b>	L:3 T:1 P:0	
	-	rse, the students should be able to		
		rix by solve system of simultaneous linear system equat	ions.	
	Find Eigen values a	nd Eigen vectors and analyze the properties of matrix.		
		s and Fourier Transforms. Apply Fourier Series and tive engineering fields.	d Fourier Transf	orms con
	· ·	quantities involving in engineering fields related to ic properties of vector valued functions and able to		
		echniques to find solutions from standard partial di in Physics, Engineering and other Mathematical co		ons to
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4
Outcome	I/II Sem	Basic Electrical & Electronics Engineering(A9203)	L:3 T:1 P:0	
fter the con	nletion of this cou	rse, the students should be able to		
			1	1_
		it concepts such as electrical parameters, quantities es and apply the network theorems with DC excita		
2	Analyze the steady	state operation of single phase and three phase AG	C circuits and stu	
		en voltage and current for delta and star connection		
3	Explore the constr	uction, working, control and testing of various DC	and AC Machin	166



	Gain knowledge of	n basic electronic devices such as P-N junction D	biode, rectifiers an	d filter with
	their V-I characteri	stics.		
5	Acquire extended diode and SCR dev	l knowledge on next generation of electronic devi ices.	ices such transisto	rs, zener
Course	Year / semester I/II	Subject Name (Subject Code)	No. of Hours	Credits:3
Outcome	Sem	ENGINEERING CHEMISTRY(A9011)	L:3 T:0 P:0	
After the co	_	se, the students should be able to		
1	Design polymeric en			
2	construct different el	nd Classify different electronics and electrical like cell ectrical/ electronic parts.		help them to
3		s of impurities are present in water, specification of dr		
4		absorption to construct the materials by analyzing the	eir compositions.	
5	-	h behavior of metals/ activity of metals.		<b>C P (</b>
Course	Year / semester I/II	Subject Name (Subject Code)	No. of Hours L:4 T:0 P:0	Credits:4
Outcome	Sem	DATA STRUCTURES THROUGH C++(A9506)	L:4 1:0 P:0	
		se, the students should be able to		
1		ed programming and object oriented programming lar		
2	Apply basic knowledge to handle operations like insertions, deletions, searching, and traversing mechanisms in linear data structures.			
3	structures.	vledge on trees, balanced trees, graphs and developing	; C++ code for non-	linear data
4 5		ng and sorting techniques for various problems.		
	Illustrate the Text p	processing algorithm on real time problems.	NI- CTT-	C 14 2
Course Outcome	Year / semester I/II	Subject Name (Subject Code)	No. of Hours L:0 T:0 P:3	Credits:2
Outcome	Sem	ENGLISH LANGUAGE COMMUNICATION	L:0 1:0 F:5	
		SKILLS LAB(A9013)		
		se, the students should be able to		
1	activities.	derstanding of nuances of language through audio-vis	ual experience and	group
2	activities. Develop Neutralizati	derstanding of nuances of language through audio-vis on of accent for intelligibility.		
	activities. Develop Neutralizati Capable to Speak out	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the emp		
2 3	activities. Develop Neutralizati Capable to Speak out acquiring knowledge	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques.	ployability skills of	
2	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em and techniques. ent English, through advanced vocabulary to improve	ployability skills of quality in speaking.	the students b
2 3	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the emp and techniques. ent English, through advanced vocabulary to improve Subject Name (Subject Code)	ployability skills of	
2 3 4	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the emp and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS	ployability skills of quality in speaking.	the students by
2 3 4 Course Outcome	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204)	ployability skills of quality in speaking. No. of Hours	the students by
2 3 4 Course Outcome	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204)	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to nplex electric and electronic circuits by applying the I	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome After the co 1	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal 1	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome After the co 1 2	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal I Analyze the performa	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to nplex electric and electronic circuits by applying the I oading on the system.	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome After the co 1 2 3 4	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal I Analyze the performa	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to nplex electric and electronic circuits by applying the I oading on the system. ance of DC machines the performance and operation of semi conducting dev	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3 KVL and KCL laws	the students by Credits:2
2 3 4 Course Outcome After the co 1 2 3 4 Course	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal I Analyze the performa Identify and analyze Year / semester I/II	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to nplex electric and electronic circuits by applying the I oading on the system. ance of DC machines	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3 KVL and KCL laws. vices No. of Hours	the students by Credits:2
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2 3 4 Course Outcome After the co 1 2 3 4 Course Outcome	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal I Analyze the performa Identify and analyze Year / semester I/II Sem mpletion of this cour	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to mplex electric and electronic circuits by applying the I oading on the system. ance of DC machines the performance and operation of semi conducting dev Subject Name (Subject Code) ENGINEERING WORKSHOP(A9306) rse, the students should be able to	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3 KVL and KCL laws vices No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome 1 2 3 4 Course Outcome After the co 1	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Identify the optimal I Analyze the performa Identify and analyze Year / semester I/II Sem mpletion of this cour Know the usage of	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to nplex electric and electronic circuits by applying the I coading on the system. ance of DC machines the performance and operation of semi conducting der <b>Subject Name (Subject Code)</b> ENGINEERING WORKSHOP(A9306) rse, the students should be able to various tools and their application in carpentry, t	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3 KVL and KCL laws vices No. of Hours L:0 T:0 P:3	the students by Credits:2
2 3 4 Course Outcome After the co 1 2 3 4 Course Outcome After the co 1 2 3 4	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal I Analyze the performa Identify and analyze Year / semester I/II Sem mpletion of this cour Know the usage of Make lap joint and	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to mplex electric and electronic circuits by applying the I oading on the system. ance of DC machines the performance and operation of semi conducting der <b>Subject Name (Subject Code)</b> ENGINEERING WORKSHOP(A9306) rse, the students should be able to various tools and their application in carpentry, t dove tail joint in carpentry.	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3 KVL and KCL laws vices No. of Hours L:0 T:0 P:3	the students by Credits:2
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2 3 4 Course Outcome After the co 1 2 3 4 Course Outcome After the co 1 2 3 4	activities. Develop Neutralizati Capable to Speak out acquiring knowledge Extends to speak flue Year / semester I/II Sem mpletion of this cour Learn to simplify cor Identify the optimal I Analyze the performa Identify and analyze Year / semester I/II Sem mpletion of this cour Know the usage of Make lap joint and Prepare scoop, fun	derstanding of nuances of language through audio-vis on of accent for intelligibility. t with clarity and confidence thereby enhances the em- and techniques. ent English, through advanced vocabulary to improve of <b>Subject Name (Subject Code)</b> BASIC ELECTRICAL & ELECTRONICS ENGINEERING LAB(A9204) rse, the students should be able to mplex electric and electronic circuits by applying the I oading on the system. ance of DC machines the performance and operation of semi conducting der <b>Subject Name (Subject Code)</b> ENGINEERING WORKSHOP(A9306) rse, the students should be able to various tools and their application in carpentry, t dove tail joint in carpentry.	ployability skills of quality in speaking. No. of Hours L:0 T:0 P:3 KVL and KCL laws vices No. of Hours L:0 T:0 P:3	the students by Credits:2



	<b>b</b> 1 1 1			
1		ent Object Oriented Programming concepts.		
$\frac{2}{3}$		te Data Structure for given problem. ike searching, insertion, deletion and traversing mechar	niam on various De	
5	Structures.	ike searching, insertion, deletion and traversing meena		ita
4		vledge on the applications of Linear and Non-Linear Da	ata Structure.	
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4
Outcome	II/I Sem	MATHEMATICAL FOUNDATIONS OF	L:4 T: 0 P: 0	
		COMPUTER SCIENCE (A9510)		
After the co	mpletion of this cou	rse, the students should be able to	-	
1		of propositions, predicate formulae, Rules of inference	<u>.</u>	
2		ribe various types of Relations and Functions.		
3	Apply knowledge o Pigeon hole principl	f Mathematics, Combinations & Permutations, Binor es.	mial Multino	mial theorems,
4	-	he recurrence relations by using various methods.		
5	Perceive the basic co	oncepts of graph theory and apply for real time example	es.	I
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:3
Outcome	II/I Sem	DIGITAL LOGIC DESIGN & MICRO PROCESSORS (A9450)	L: 3 T:0 P: 0	
After the co	mpletion of this cou	rse, the students should be able to		
1	Understand the bas	sic concepts of different Number systems and basi	c theorems using	in Boolean
	algebra.			
2	Design the logic ci	ircuits using basic logic gates by reducing the Boo	lean expressions	with the
	help of Karnaugh	-		
3	Analyze various ty	pes of combinational and sequential circuits.		
4	Understand the int	ernal organization of popular 8086microprocessor	s.	
5	Learn the design o	f microprocessors – based systems.		_
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4
Outcome	II/I Sem	DATABASE MANAGEMENT SYSTEMS (A9511)	L: 4 T: 0 P: 0	
After the co	mpletion of this cou	rse, the students should be able to		
1		ental concepts of database management.		
2	Analyze database m study.	odels & Entity Relationship models and to draw the E-	R diagram for the	given case
3		Database Theory, and be able to write relational algebra	expressions for	queries.
4	Apply Normalization	on Process to construct the database. Explain Basic Issue	es of tra	insaction
5		Database storage structures and access techniques: File ad Hashing.	Organization inde	xing methods
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4
Outcome	II/I Sem	OBJECT ORIENTED PROGRAMMING THROUGH JAVA (A9512)	L:4 T: 0 P: 0	
After the co	mpletion of this cou	rse, the students should be able to		l
1	Describe the conce	epts of Java Programming language		
2		acepts of Polymorphism and Inheritance		
3		ications using Exception handling.		
4		led applications with synchronization.		
5	<u>^</u>	** *		
5	Design GUI based a	pplications and Applets for web applications.		



Outcome DUtcome         Year / semester IVI Sem         Subject Name (Subject Code) DATABASE MANAGEMENT SYSTEMS LAB(A9514)         Hours L: 0 T: 0 P: 3           1         Design database schema for given Application.					Г
Ontcome         Perceive basics Computer types, buses, registers         Lt 3 F1 F1 0           ARCHITECTURE (A9513)         Lt 3 F1 F1 0           Inderstand basic design of Computer, addressing modes, Micro Program Example.         3           3         Perceive basics Computer types, buses, registers	Course	Year / semester II/I	•	No. of Hours	Credits:3
1       Perceive basics Computer types,buses, registers         2       Understand basic design of Computer, addressing modes, Micro Program Example.         3       Perceive control unit operations and arithmetic Operations         4       Understand various Peripheral devices operations.         5       Design memory organization that use banks for different word size operations.         Course       Year / semester III         Subject Name (Subject Code)       No. of Hours (A9452)         After the completion of this course, the students should be able to       I. O T:0 P: 3         1       Demonstrate various types of combinational and sequential circuits.         3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Coursee       Year /semester         III Sem       Subject Name (Subject Code)         Data TARASE MANAGEMENT SYSTEMS LAB(A9514)       Hours L: 0 Tro P: 3         1       Design database schema for given Application.       No. of Hours L: 0 Tro P: 3         2       Transform ER Model to Relational Model.       No. of Hours L: 0 Tro P: 3       Credits:2         3       Apply the normalization techniques for development of applications offware to realistic problems.       Subject Name (Subject Code) OBJECT ORLENTLD PROGRAMMING THROUGHIAVALAB (A9515)	Outcome	Sem		L: 3 T: 1 P: 0	
1       Perceive basics Computer types,buses, registers         2       Understand basic design of Computer, addressing modes, Micro Program Example.         3       Perceive control unit operations and arithmetic Operations         4       Understand various Peripheral devices operations.         5       Design memory organization that use banks for different word size operations.         Course       Year / semester III         Subject Name (Subject Code)       No. of Hours (A9452)         After the completion of this course, the students should be able to       I. O T:0 P: 3         1       Demonstrate various types of combinational and sequential circuits.         3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Coursee       Year /semester         III Sem       Subject Name (Subject Code)         Data TARASE MANAGEMENT SYSTEMS LAB(A9514)       Hours L: 0 Tro P: 3         1       Design database schema for given Application.       No. of Hours L: 0 Tro P: 3         2       Transform ER Model to Relational Model.       No. of Hours L: 0 Tro P: 3       Credits:2         3       Apply the normalization techniques for development of applications offware to realistic problems.       Subject Name (Subject Code) OBJECT ORLENTLD PROGRAMMING THROUGHIAVALAB (A9515)	After the co	mpletion of this cour	se, the students should be able to		
3       Perceive control unit operations and arithmetic Operations.         4       Understand various Peripheral devices operations.         5       Design memory organization that use banks for different word size operations.         Outcome         Sem       DIGITAL LOGIC DESIGN & MICRO PROCESSOR LAB (A9452)         Analyze and design various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.       Credits:2         Analyze and design various types of combinational and sequential circuits.       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for Arithmetic AND, OR, XOR, XOR, XNOR) and flip flops.         7       Analyze and design various types of combinational and sequential circuits.         3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Coursee       Subject Name (Subject Code) III Sem       Hours L: 0 DATABASE MANAGEMENT SYSTEMS LAB(A9514)       Hours L: 0 Transform ER Model to Relational Model.         3       Apply the normalization techniques of development of application software to realistic problems.       Outcome         00tcome       IVI Sem       Subject Name (Subject Code) OHIECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 Trio P: 3       Credits:2         0ate the completion	1	-			
4       Understand various Peripheral devices operations.         5       Design memory organization that use banks for different word size operations.         Coursee       Year / semester II/I       Subject Name (Subject Code) DIGITAL LOGIC DESIGN & MICRO PROCESSOR LAB (A9452)       No. of Hours L: 0 T:0 P: 3       Credits:2         Analyze and design various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.       2       Analyze and design various types of combinational and sequential circuits.       3         3       Develop microprocessor based programs for Arithmetic and Logical Operations       4       Develop microprocessor based programs for various problems.       Credits:: 010000000000000000000000000000000000	2	Understand basic des	ign of Computer, addressing modes, Micro Program E	Example.	
5       Design memory organization that use banks for different word size operations.       No. of Hours       Credits:2         Outcome       Year / semester II/I       Subject Name (Subject Code)       No. of Hours       L: 0 T: 0 P: 3       Credits:2         Outcome       Sem       DiGTAL LOGIC DESIGN & MICRO       L: 0 T: 0 P: 3       Credits:2         Inter the completion of this course, the students should be able to       Image: Completion of this course, the students should be able to       Image: Completion of this course, the students should be able to         2       Analyze and design various types of combinational and sequential circuits.       Image: Course to the students should be able to       Image: Course to the students should be able to         3       Develop microprocessor based programs for Arithmetic and Logical Operations       Image: Course to the students should be able to       Image: Course to the students of the student of t	3	Perceive control unit	operations and arithmetic Operations	-	
Course Outcome         Year / semester         II/I DiGITAL LOGIC DESIGN & MICRO PROCESSOR LAB (A9452)         No. of Hours L: 0 T: 0 P: 3         Credits:2           1         Demonstrate various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.         1         1         Demonstrate various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.         1         1         Demonstrate various types of combinational and sequential circuits.         1         1         Develop microprocessor based programs for Arithmetic and Logical Operations         1         1         Develop microprocessor based programs for various problems.         1         1         0         0         1         0         0         0         1         0	4	Understand various F	Peripheral devices operations.		
Outcome         Sem         DIGITAL LOGIC DESIGN & MICRO (A9452)         L: 0 T:0 P: 3           Atter the completion of this course, the students should be able to         Image: Construct SQL and the sign various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.           2         Analyze and design various types of combinational and sequential circuits.           3         Develop microprocessor based programs for Arithmetic and Logical Operations           4         Develop microprocessor based programs for various problems.           Course Outcome         Year /semester           Uff Sem         DarABASE MANAGEMENT SYSTEMS LAB(A9514)           1         Design database schema for given Application.           2         Transform ER Model to Relational Model.           3         Apply the normalization techniques for development of application software to realistic problems.           4         Construct SQL queries to retrive information from databases.           Course Outcome         Vear /semester           Uff Sem         Subject Name (Subject Code) OBJECT ORLENTED PROGRAMMING THROUGH JAVA LAB (A9515)           After the completion of this course, the students should be able to           1         Develop applications using Console I/O and File I/O           4         Design and develop applications using Console I/O and File I/O           4         Design sinple Graphical User Interface	5	Design memory or	ganization that use banks for different word size opera	tions.	
Outcome         Sem         PROCESSOR LAB (A9452)         L: 01:01:3           After the completion of this course, the students should be able to         1         Demonstrate various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.           2         Analyze and design various types of combinational and sequential circuits.         3           3         Develop microprocessor based programs for Arithmetic and Logical Operations         Hours L: 0 Hours L: 0 T: 0 P: 3         Credits:: 01:00           4         Develop microprocessor based programs for various problems.         Mos of Hours L: 0 DATABASE MANAGEMENT SYSTEMS LAB(A9514)         Hours L: 0 T: 0 P: 3         Credits:: 0 Credits:: 0 DATABASE MANAGEMENT SYSTEMS LAB(A9514)         No. of Hours L: 0 T: 0 P: 3         Credits:: 0 Credits:: 0 DATABASE MANAGEMENT SYSTEMS LAB(A9514)         No. of Hours L: 0 T: 0 P: 3         Credits:: 0 Credits:: 0 DATABASE MANAGEMENT SYSTEMS LAB(A9515)         Credits:: 0 DATABASE MANAGEMENT SYSTEMS LAB(A9514)         No. of Hours L: 0 T: 0 P: 3         Credits:: 0 Credits:: 0 DBECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         No. of Hours L: 0 T: 0 P: 3         Credits:: 0 DESCI ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         Credits:: 0 DBECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         No. of Hours L: 0 T: 0 P: 3         Credits:: 0 DESci na and evelop applications using Console I/O and File I/O         Subject Name (Subject Code) DESCI ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         No. of Hours L: 0 T: 0 P: 0         Credits:: 0 Design and develop applications using Console I/O an	Course	Year / semester II/I	Subject Name (Subject Code)	No. of Hours	Credits:2
After the completion of this course, the students should be able to         1       Demonstrate various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.         2       Analyze and design various types of combinational and sequential circuits.         3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Coursee       Year /semester         JL/I Sem       Subject Name (Subject Code)         DATABASE MANAGEMENT SYSTEMS LAB(A9514)       T:0 P:3         1       Design database schema for given Application.       T:rol P:3         2       Transform ER Model to Relational Model.       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.       Credits:2         Outcome       Vear /semester       Subject Name (Subject Code)       No. of Hours       L: 0 T:0 P:3       Credits:2         Outcome       Vear /semester       Subject Name (Subject Code)       No. of Hours       L: 0 T:0 P: 3       Credits:2         Outcome       Vear /semester       Subject Name (Subject Code)       No. of Hours       L: 0 T:0 P: 3       Credits:2         Outcome       If Sem and develop applications with multithreading and implement exception handling.	Outcome	Sem	PROCESSOR LAB	L: 0 T:0 P: 3	
1       Demonstrate various types of logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR) and flip flops.         2       Analyze and design various types of combinational and sequential circuits.         3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Course Outcome       Year /semester         I/I Sem       Subject Name (Subject Code)         DATABASE MANAGEMENT SYSTEMS LAB(A9514)       To 0 P; 3         1       Design database schema for given Application.         2       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.         4       Construct SQL queries to retrieve information from databases.         Course Outcome       Vear /semester       Subject Name (Subject Code)       No. of Hours L: 0 T: 0 P; 3       Credits:2         Outcome       Vear/semester       Subject Name (Subject Code)       No. of Hours L: 0 T: 0 P; 3       Credits:2         0       Develop applications for a range of problems using objecT:oriented programming techniques       2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O       4       Design simple Graphical User Interface applications     <					
2       Analyze and design various types of combinational and sequential circuits.         3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Course Outcome       Year /semester       Subject Name (Subject Code)       Hours L: 0         1       Design database schema for given Application.       Transform ER Model to Relational Model.       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.       Construct SQL queries to retrieve information from databases.         Coursee       Year /semester       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T:0 P: 3       Credits:2         2       Design and develop applications for a range of problems using objecT:oriented programming techniques       Develop applications for a range of problems using objecT:oriented programming techniques       Develop applications using Console I/O and File I/O         4       Design and develop applications and explain in related to day to day life.       Credits:0         3       Develop applications and and file how the biodiversity changes went in the environment.       Environment.         4       Demonstrate coulines of types of pollutions and explain in related to day to day life.       Gredits:0         3       Organize impo		-			
3       Develop microprocessor based programs for Arithmetic and Logical Operations         4       Develop microprocessor based programs for various problems.         Course Outcome       Year /semester II/I Sem       Subject Name (Subject Code) DATABASE MANAGEMENT SYSTEMS LAB(A9514)       No. of Hours L: 0 T: 0 P: 3         1       Design database schema for given Application.       Credits::         2       Transform ER Model to Relational Model.       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T: 0 P: 3       Credits:2         Course Outcome       Year /semester II/I Sem       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T: 0 P: 3       Credits:2         2       Design and develop applications for a range of problems using objecT:oriented programming techniques       2         2       Design and develop applications with multithreading and implement exception handling.       3         3       Develop applications using Console I/O and File I/O       No. of Hours L: 2 T: 0 P: 0       Credits:0         4       Course       Year / semester II/I Sem       Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)       No. of Hours L: 2 T: 0 P: 0       Credits:0         3       Develop applications using Console I/O and file I/O       ENVIRONMENTAL STUDIES (A9014)       Credits:0       Credits:0         4 <td>1</td> <td>Demonstrate various</td> <td>types of logic gates (AND, OR, NOT, NAND, NOR,</td> <td>XOR, XNOR) and</td> <td>l flip flops.</td>	1	Demonstrate various	types of logic gates (AND, OR, NOT, NAND, NOR,	XOR, XNOR) and	l flip flops.
4       Develop microprocessor based programs for various problems.         Course Outcome       Year / semester       Subject Name (Subject Code) DATABASE MANAGEMENT SYSTEMS LAB(A9514)       Hours L: 0 To P: 3       Credits::         1       Design database schema for given Application.       Transform ER Model to Relational Model.       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.       No. of Hours L: 0 T: 0 P: 3       Credits::         4       Construct SQL queries to retrieve information from databases.       No. of Hours L: 0 T: 0 P: 3       Credits::2         Outcome       Year /semester 1/1 Sem       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T: 0 P: 3       Credits:2         9       Develop applications for a range of problems using objecT:oriented programming techniques       Develop applications using Console I/O and File I/O       4         4       Design and develop applications with multithreading and implement exception handling.       3       Credits:0         3       Develop applications using Console I/O and File I/O       Kear / semester       Subject Name (Subject Code)       No. of Hours L: 2 T: 0 P: 0       Credits:0         4       Design simple Graphical User Interface applications       L: 2 T: 0 P: 0       Credits:0         Apply models of food chain	2	Analyze and design	n various types of combinational and sequential circuit	s.	
Course Outcome         Year /semester II/I Sem         Subject Name (Subject Code) DATABASE MANAGEMENT SYSTEMS LAB(A9514)         No. of Hours L: 0 T: 0 P; 3         Credits: T: 0 P; 3           1         Design database schema for given Application.         1         Transform ER Model to Relational Model.         1         No. of Hours         1         1         Devisition adabases.         1         Outcome         No. of Hours         1         Credits:2           4         Construct SQL queries to retrieve information from databases.         No. of Hours         Credits:2           5         Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         No. of Hours         Credits:2           4         Develop applications for a range of problems using objecT:oriented programming techniques         2         Design and develop applications with multithreading and implement exception handling.         3         Develop applications using Console I/O and File I/O         4         Design simple Graphical User Interface applications         L: 2 T:0 P: 0         Credits:0           4         Apply models of food chains and energy flow models to solve the identified parameters.         5         Classify the types of pollutions and explain in related to day to day life.         3	3	Develop microproces	sor based programs for Arithmetic and Logical Opera	tions	
Outcome II/I Sem         Subject Name (Subject Code) DATABASE MANAGEMENT SYSTEMS LAB(A9514)         Hours L: 0 T: 0 P: 3           1         Design database schema for given Application.         Transform ER Model to Relational Model.           3         Apply the normalization techniques for development of application software to realistic problems.           4         Construct SQL queries to retrieve information from databases.           Course         Vear / Semester II/I Sem         Subject Name (Subject Code) OBECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         No. of Hours L: 0 T: 0 P: 3         Credits:2           3         Apply the normalizations for a range of problems using objecT:oriented programming techniques         2         Develop applications for a range of problems using objecT:oriented programming techniques           2         Design and develop applications with multithreading and implement exception handling.         3           3         Develop applications using Console I/O and File I/O         4           4         Construct SUL Previously learned ecosystem and find how the biodiversity changes went in the environment.         2           4         Derival previously learned ecosystem and find how the biodiversity changes went in the environment.         2           4         Demonstrate outlines of types of pollutions and explain in related to day to day life.         3           5         Classify the types of pollutants and distinguish the functions of susta	4	Develop microproces	sor based programs for various problems.		
Outcome       I/I Sem       DATABASE MANAGEMENT SYSTEMS LAB(A9514)       T:0 P: 3         1       Design database schema for given Application.         2       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.         4       Construct QL queries to retrieve information from databases.         Course       Year /semester       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T:0 P: 3       Credits:2         2       Design and develop applications for a range of problems using objecT:oriented programming techniques       2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O       4       Credits:0         4       Design simple Graphical User Interface applications       No. of Hours       Credits:0         3       Develop applications using Console I/O and File I/O       4       L: 2 T:0 P: 0       1         4       If Sem       Subject Name (Subject Code)       No. of Hours       Credits:0         4       Design simple Graphical User Interface applications       1: 2 T:0 P: 0       1       Strinterface applications         6       Outcome       II/I Sem       Subject Name (Subject Code)       N	Course	Voon /comoston		No. of	Credits:2
1       Design database schema for given Application.         2       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.         4       Construct SQL queries to retrieve information from databases.         Course         Verar/Semester II/I Sem         Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         After the completion of this course, the students should be able to       1         1       Develop applications for a range of problems using objecT:oriented programming techniques         2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O         4       Design simple Graphical User Interface applications         Course         Vear / semester         Subject Name (Subject Code)         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5				T.0 D. 3	)
2       Transform ER Model to Relational Model.         3       Apply the normalization techniques for development of application software to realistic problems.         4       Construct SQL queries to retrieve information from databases.         Coursee       Year / Semester         U/I Sem       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T: 0 P: 3       Credits:2         3       Develop applications for a range of problems using objecT:oriented programming techniques       2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O       Design simple Graphical User Interface applications         Course       Year / semester       Subject Name (Subject Code)       No. of Hours         0utcome       II/I Sem       ENVIRONMENTAL STUDIES (A9014)       L: 2 T:0 P: 0         After the completion of this course, the students should be able to       1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.       3         3       Organize important seminars on natural resources.       4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distingui				514)	
3       Apply the normalization techniques for development of application software to realistic problems.         4       Construct SQL queries to retrieve information from databases.         Course Outcome       Year /semester II/I Sem       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)       No. of Hours L: 0 T:0 P: 3       Credits:2         start the completion of this course, the students should be able to       1       Develop applications for a range of problems using objecT:oriented programming techniques       2         2       Design and develop applications with multithreading and implement exception handling.       3         3       Develop applications using Console I/O and File I/O       No. of Hours L: 2 T:0 P: 0       Credits:0         4       Design simple Graphical User Interface applications       No. of Hours L: 2 T:0 P: 0       Credits:0         4       Design simple Graphical User Interface applications       L: 2 T:0 P: 0       Credits:0         5       Course       Year / semester       Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)       L: 2 T:0 P: 0       Credits:3         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.       2       Demonstrate outlines of types of pollutions and explain in related to day to day life.       S         3       Organize important seminars on natural resources.       Apply models of food chain	1				
4       Construct SQL queries to retrieve information from databases.       No. of Hours OBJECT ORIENTED PROGRAMMING THROUGH IAVA LAB (A9515)       No. of Hours L: 0 T:0 P: 3       Credits:2         outcome       II/I Sem       Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH IAVA LAB (A9515)       L: 0 T:0 P: 3       Credits:2         off the completion of this course, the students should be able to       1       Develop applications for a range of problems using objecT:oriented programming techniques       2         2       Design and develop applications with multithreading and implement exception handling.       3         3       Develop applications using Console I/O and File I/O       No. of Hours ENVIRONMENTAL STUDIES (A9014)       Credits:0         4       Design simple Graphical User Interface applications       No. of Hours ENVIRONMENTAL STUDIES (A9014)       Credits:0         0utcome       II/I Sem       Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)       No. of Hours L: 2 T:0 P: 0       Credits:3         3       Organize important seminars on natural resources.       4       Apply models of food chains and energy flow models to solve the identified parameters.       5       Classify the types of pollutants and distinguish the functions of sustainable development       Credits:3         4       Apply models of food chains and energy flow models to solve the identified parameters. (A9016)       STATISTICAL METHODS FOR ENGINEERS (A9016)       No. of Hours L:					
Course OutcomeYear/semester II/I SemSubject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)No. of Hours L: 0 T:0 P: 3Credits:2After the completion of this course, the students should be able to1Develop applications for a range of problems using objecT:oriented programming techniques22Design and develop applications with multithreading and implement exception handling.3Develop applications using Console I/O and File I/O4Design simple Graphical User Interface applicationsSubject Code) ENVIRONMENTAL STUDIES (A9014)No. of Hours L: 2 T:0 P: 00II/I SemSubject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)No. of Hours L: 2 T:0 P: 01Recall previously learned ecosystem and find how the biodiversity changes went in the environment.2Demonstrate outlines of types of pollutions and explain in related to day to day life.3Organize important seminars on natural resources.4Apply models of food chains and energy flow models to solve the identified parameters.5Classify the types of pollutants and distinguish the functions of sustainable developmentCourse OutcomeYear / semester II/II Sem1/II SemSubject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)1Summarize the importance of probability and statistics. Apply the concept of probability application in real life2Utilize the Probability Distributions in realistic situations.3Construct a Linear Regression lines and estimate the values of variables	3	Apply the normalizat	ion techniques for development of application softwar	e to realistic probl	ems.
Outcome         II/I Sem         Subject Name (Subject Code) OBJECT ORIENTED PROGRAMMING THROUGH JAVA LAB (A9515)         L: 0 T:0 P: 3           After the completion of this course, the students should be able to         1         Develop applications for a range of problems using objecT:oriented programming techniques           2         Design and develop applications with multithreading and implement exception handling.           3         Develop applications using Console I/O and File I/O           4         Design simple Graphical User Interface applications           Course         Year / semester           Subject Name (Subject Code)         No. of Hours           Credits:0         L: 2 T:0 P: 0           After the completion of this course, the students should be able to         1           1         Recall previously learned ecosystem and find how the biodiversity changes went in the environment.           2         Demonstrate outlines of types of pollutions and explain in related to day to day life.           3         Organize important seminars on natural resources.           4         Apply models of food chains and energy flow models to solve the identified parameters.           5         Classify the types of pollutants and distinguish the functions of sustainable development           Coursee         Year / semester         Subject Name (Subject Code)           I/I Sem         Subject Name (Subject Code)	-		es to retrieve information from databases.		
After the completion of this course, the students should be able to         1       Develop applications for a range of problems using objecT:oriented programming techniques         2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O         4       Design simple Graphical User Interface applications         Course       Year / semester       Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)       No. of Hours       Credits:0         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.       2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.       4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development       Credits:3         Coursee       Year / semester II/II Sem       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)       No. of Hours L: 3 T:0 P: 0       Credits:3         41       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2       Utilize the Probability Distributions in realistic situations.       3       Construct a Linear Regression lines and estimate the value		Year /semester II/I Sem	OBJECT ORIENTED PROGRAMMING	No. of Hours L: 0 T:0 P: 3	Credits:2
2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O         4       Design simple Graphical User Interface applications         Course Vear / semester Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         Coursee Outroeme II/I Sem       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)         4       Apply models of this course, the students should be able to         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life         2       Utilize the Probability Distributions in realistic situations.         3       Construct a Linear Regression lines and estimate the values of variables	After the co	mpletion of this cour			1
2       Design and develop applications with multithreading and implement exception handling.         3       Develop applications using Console I/O and File I/O         4       Design simple Graphical User Interface applications         Course Year / semester         Outcome       II/I Sem         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         Coursee       Year / semester         II/I Sem       Subject Name (Subject Code)         Subject Name (Subject Code)       No. of Hours         Classify the types of pollutants and distinguish the functions of sustainable development         Coursee       Year / semester         II/II Sem       Subject Name (Subject Code)         Stafer the completion of this course, the students should be able to         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life         2       Utilize the Probability Distributions in realistic	1	Develop applications	for a range of problems using object: oriented progra	mming techniques	
3       Develop applications using Console I/O and File I/O         4       Design simple Graphical User Interface applications         Course       Year / semester       Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)       No. of Hours L: 2 T:0 P: 0       Credits:0         After the completion of this course, the students should be able to       1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.       2         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.       3       3         3       Organize important seminars on natural resources.       4       Apply models of food chains and energy flow models to solve the identified parameters.       5         5       Classify the types of pollutants and distinguish the functions of sustainable development       Credits:3         Coursee       Year / semester       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS       No. of Hours L: 3 T:0 P: 0       Credits:3         4       Apply of this course, the students should be able to       1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2       Utilize the Probability Distributions in realistic situations.       3       Construct a Linear Regression lines and estimate the values of variables	2				
4       Design simple Graphical User Interface applications         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       Credits:0         Outcome       II/I Sem       ENVIRONMENTAL STUDIES (A9014)       L: 2 T:0 P: 0       Credits:0         After the completion of this course, the students should be able to       ENVIRONMENTAL STUDIES (A9014)       L: 2 T:0 P: 0       Credits:0         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.       2       Demonstrate outlines of types of pollutions and explain in related to day to day life.       3         3       Organize important seminars on natural resources.       4       Apply models of food chains and energy flow models to solve the identified parameters.       5       Classify the types of pollutants and distinguish the functions of sustainable development       Credits:3         Coursee       Year / semester       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)       L: 3 T:0 P: 0       Credits:3         Matter the completion of this course, the students should be able to       1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2       Utilize the Probability Distributions in realistic situations.       3       Construct a Linear Regression lines and estimate the values of variables		· · · ·		tion nandling.	
Course       Year / semester       Subject Name (Subject Code) ENVIRONMENTAL STUDIES (A9014)       No. of Hours       Credits:0         Outcome       II/I Sem       ENVIRONMENTAL STUDIES (A9014)       L: 2 T:0 P: 0       Credits:0         After the completion of this course, the students should be able to       1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.       2         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.       3         3       Organize important seminars on natural resources.       4         4       Apply models of food chains and energy flow models to solve the identified parameters.       5         5       Classify the types of pollutants and distinguish the functions of sustainable development       Credits:3         Coursee       Year / semester       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS       No. of Hours       L: 3 T:0 P: 0         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       1       Summarize the Probability Distributions in realistic situations.       3         2       Utilize the Probability Distributions in realistic situations.       3       Construct a Linear Regression lines and estimate the values of variables	3				
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Outcome       Inf Sem       L: 2 1:0 F: 0         After the completion of this course, the students should be able to       1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.       3         3       Organize important seminars on natural resources.       4         4       Apply models of food chains and energy flow models to solve the identified parameters.       5         5       Classify the types of pollutants and distinguish the functions of sustainable development       Credits:3         No. of Hours (A9016)         After the completion of this course, the students should be able to         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2         2       Utilize the Probability Distributions in realistic situations.       3         3       Construct a Linear Regression lines and estimate the values of variables	Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:0
After the completion of this course, the students should be able to         1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         No. of Hours Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         Course Outcome         1/II Sem       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)       No. of Hours L: 3 T:0 P: 0         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       Implication in real life         2       Utilize the Probability Distributions in realistic situations.       Implication lines and estimate the values of variables	Outcome	II/I Sem	ENVIRONMENTAL STUDIES (A9014)	L: 2 T:0 P: 0	
1       Recall previously learned ecosystem and find how the biodiversity changes went in the environment.         2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         No. of Hours Total Subject Name (Subject Code)         MI/II Sem       Subject Name (Subject Code)         STATISTICAL METHODS FOR ENGINEERS       No. of Hours L: 3 T:0 P: 0         After the completion of this course, the students should be able to       1         Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2         2       Utilize the Probability Distributions in realistic situations.       3         3       Construct a Linear Regression lines and estimate the values of variables			se, the students should be able to	1	1
2       Demonstrate outlines of types of pollutions and explain in related to day to day life.         3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         No. of Hours Course Outcome         Year / semester II/II Sem       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)       No. of Hours L: 3 T:0 P: 0       Credits:3         After the completion of this course, the students should be able to       1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2         2       Utilize the Probability Distributions in realistic situations.       3         3       Construct a Linear Regression lines and estimate the values of variables	1	-		went in the envir	onment.
3       Organize important seminars on natural resources.         4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         Course Outcome         II/II Sem       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)       No. of Hours L: 3 T:0 P: 0       Credits:3         After the completion of this course, the students should be able to       1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2         2       Utilize the Probability Distributions in realistic situations.       3         3       Construct a Linear Regression lines and estimate the values of variables	2				
4       Apply models of food chains and energy flow models to solve the identified parameters.         5       Classify the types of pollutants and distinguish the functions of sustainable development         Subject Name (Subject Code)         0utcome       Year / semester       Subject Name (Subject Code)       No. of Hours       Credits:3         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       Summarize the Probability Distributions in realistic situations.       Apply the values of variables         3       Construct a Linear Regression lines and estimate the values of variables					
5       Classify the types of pollutants and distinguish the functions of sustainable development         Course Outcome       Year / semester II/II Sem       Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)       No. of Hours L: 3 T:0 P: 0       Credits:3         After the completion of this course, the students should be able to       1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life       2       Utilize the Probability Distributions in realistic situations.       3         3       Construct a Linear Regression lines and estimate the values of variables       1       Summarize the importance of probability and statistics.				d parameters.	
Course Outcome         Year / semester II/II Sem         Subject Name (Subject Code) STATISTICAL METHODS FOR ENGINEERS (A9016)         No. of Hours L: 3 T:0 P: 0         Credits:3           After the completion of this course, the students should be able to         1         Summarize the importance of probability and statistics. Apply the concept of probability application in real life         2         Utilize the Probability Distributions in realistic situations.         3         Construct a Linear Regression lines and estimate the values of variables					
Outcome       Iteal / semister       Subject Name (subject Code)       L: 3 T:0 P: 0         II/II Sem       STATISTICAL METHODS FOR ENGINEERS (A9016)       L: 3 T:0 P: 0         After the completion of this course, the students should be able to       1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life         2       Utilize the Probability Distributions in realistic situations.       3         3       Construct a Linear Regression lines and estimate the values of variables		, , , , , , , , , , , , , , , , , , ,	Č Č		Credits:3
Infinition       Statistical Methods FOR ENGINEERS (A9016)         After the completion of this course, the students should be able to         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life         2       Utilize the Probability Distributions in realistic situations.         3       Construct a Linear Regression lines and estimate the values of variables					creatis.5
After the completion of this course, the students should be able to         1       Summarize the importance of probability and statistics. Apply the concept of probability application in real life         2       Utilize the Probability Distributions in realistic situations.         3       Construct a Linear Regression lines and estimate the values of variables	outcome	II/II Sem		1.51.01.0	
application in real life         2       Utilize the Probability Distributions in realistic situations.         3       Construct a Linear Regression lines and estimate the values of variables	After the co	mpletion of this cour			
application in real life         2       Utilize the Probability Distributions in realistic situations.         3       Construct a Linear Regression lines and estimate the values of variables				oncept of probab	ility
<ol> <li>Utilize the Probability Distributions in realistic situations.</li> <li>Construct a Linear Regression lines and estimate the values of variables</li> </ol>		-		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2
3 Construct a Linear Regression lines and estimate the values of variables	2				
				hles	
	4		6		



Course Outcome         Year / semester II/II Sem         Subject Name (Subject Code) DESIGN AND ANALYSIS OF ALGORITHMS         No. of Hours I: 3 T:1 P:0         Cree           After the completion of this course, the students should be able to         1         Expose student's to few known methods of solution processes, build new solution algorithms, andly asymptotic performance of algorithms and to write rigorous correctness profis for algorithms.         algorithm design methods for specified classes of applicatic dientify appropriate data structures and algorithm design methods would impact the perform programs and how to compare them.         4         Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki area chan da bound         5         Perceive nethods to deal with logarithmic type, polynomial type and non-polynomial type of classe proferms and Synthesis of efficient algorithms in common engineering design situations would be discussed.         No. of Hours L: 4 T: 0 P: 0         C           Outcome         If II Sem         Subject Name (Subject Code) FORMAL LANGUAGES AND AUTOMATA THEFORY (A9517)         No. of Hours L: 4 T: 0 P: 0         C           After the completion of this course, the students should be able to         1         Explain basic concepts in formal all aguage theory, grammars, automata theory(DFA&NFA), compu- theory, and complexity theory.         2           A Know the production rules of regular expressions and grammars, including context: Tires and context: sensitive grammars.         3         Construct a pushdown automata and context free, regular, normal form grammars to design compu- languages         4 <th>5</th> <th>Solve the queuing n</th> <th>nodels to analyze the real world problems</th> <th></th> <th></th>	5	Solve the queuing n	nodels to analyze the real world problems		
Outcome         IIII Sem         DESIGN AND ANALYSIS OF ALGORITHMS (A9516)         L: 3 T: 1 F: 0           After the completion of this course, the students should be able to         I         Expose student's to few known methods of solution processes, build new solution algorithms, analy asymptotic performance of algorithms and to write rigorous correctness proofs for algorithms.           2         Identify appropriate data structures and algorithm design methods would impact the perform programs and how to compare them.           4         Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound           5         Perceive methods to deal with logarithmic type, polynomial type and non-polynomial type of classe problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.         No. of Hours L: 4T: 0P: 0         C           6         Outcome         IUTI Sem         Subject Name (Subject Code) FORMAL LANGUAGES AND AUTOMATA THEORY (A9517)         No. of Hours L: 4T: 0P: 0         C           1         Explain basic concepts in formal language theory, grammars, including contexT:free and contexT:sensitive grammars.         C           2         Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.         Construct a pushdown automata and context free, regular, normal form grammars to design compu- language.           3         Construct a pushdown automata and context free, regular, normal form grammars to design compu- language.	Course	Year / semester	Subject Name (Subject Code)		Credits:3
1       Expose student's to few known methods of solution processes, build new solution algorithms, analy asymptotic performance of algorithms and to write rigorous correctness proofs for algorithms.         2       Identify appropriate data structures and algorithm design methods for specified classes of applicatic more to estimate them.         3       Perceive how the choice of data structures and algorithm design methods would impact the perform programs and how to compare them.         4       Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound       Perceive methods to deal with logarithmic type, polynomial type and non-polynomial type of classe problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       L       C         Outcome       II/II Sem       FORMAL LANGUAGES AND AUTOMATA       L: 4 T: 0 P: 0       C         1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computency, and complexity theory.       C         2       Know the production rules of regular expressions and grammars, including contexT:free and zontexT:sensitive grammars.       Construct a pushdown automata and context free, regular, normal form grammars to design computanguages.         3       Construct a pushdown automata and context free, regular, normal form grammars to design computanguage.         5       Explain the relationship among language classes			DESIGN AND ANALYSIS OF ALGORITHMS	L: 3 T:1 P: 0	orealisis
1       Expose student's to few known methods of solution processes, build new solution algorithms, analy asymptotic performance of algorithms and to write rigorous correctness proofs for algorithms.         2       Identify appropriate data structures and algorithm design methods for specified classes of applicatic methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound         4       Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound       No. of Hours         5       Perceive methods to deal with logarithmic type, polynomial type and non-polynomial type of classe problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.       No. of Hours       C         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       C         Portcove       If II Sem       FORMAL LANGULAGES AND AUTOMATA       L: 4 T: 0 P: 0       C         1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computency, and complexity theory.       C         2       Know the production rules of regular expressions and grammars, including contexT:free and contexT is ensitive grammars.       Construct a pushdown automata and context free, regular, normal form grammars to design computanguages.         3       Construct a pushdown automata and context free, regular, normal form grammars to design computanguages.         5       Explain the relationship among language classes and	After the co	mpletion of this cou	rse, the students should be able to	·	
2       Identify appropriate data structures and algorithm design methods for specified classes of applicatic         3       Perceive how the choice of data structures and algorithm design methods would impact the perform programs and how to compare them.         4       Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound         5       Perceive methods to deal with logarithmic type, polynomial type and non-polynomial type of classe problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.         Course         Quitcome         I/II Sem         Subject Name (Subject Code)         No. of Hours         L: 4T: 0P: 0    After the completion of this course, the students should be able to          1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), comput theory, and complexity theory.       Construct a pushdown automata and context free, regular, normal form grammars to design comput anguages         3       Construct a pushdown automata and context free, regular, normal form grammars to design comput language       Set algorithm design and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course         Year / semester       Subject Name (Subject Code)       No. of Hours         L: 4 T: 0 P: 0       Chreat / Sem		Expose student's to	few known methods of solution processes, build new s		
3       Perceive how the choice of data structures and algorithm design methods would impact the perform programs and how to compare them.         4       Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound         5       Perceive methods to deal with logarithmic type, polynomial type and non-polynomial type of classe problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.       No. of Hours       C         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       C         Outcome       I/I Sem       FORMAL LANGUAGES AND AUTOMATA       L: 4 T: 0 P: 0       C         1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computeory, and complexity theory.       No. of thours       C         2       Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.       Construct a pushdown automata and context free, regular, normal form grammars to design computanguages         4       Evaluate solution for various problems using a theoretical computer (Turing machine) for a computanguage.       So of Hours         5       Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish Etween decidability and undecidability.       No. of Hours       Cree         0       OPERATING SYSTEMS (A9518)       No. of Hours       Cree       Cree	2				
4       Design methods such as the greedy method, divide and conquer, dynamic programming, backtracki branch and bound         5       Perceive methods to deal with logarithmic type, polynomial type and non-polynomial type of classe problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.         Course         Vear / semester         Subject Name (Subject Code)         No. of Hours       C         Course         Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computeory, and complexity theory.         2       Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.         3       Construct a pushdown automata and context free, regular, normal form grammars to design computanguage.         5       Explain basic concepts in formal language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course         Subject Name (Subject Code)         01       Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory paging and memory allocation techniques for various applications.         3       Corstract a pushdown automata scheet cols         0utcome       I/I I Sem       Subject Name (Subject Code)		Perceive how the ch	oice of data structures and algorithm design methods w		
problems and Synthesis of efficient algorithms in common engineering design situations would be discussed.         Course       Year / semester       Subject Name (Subject Code) FORMAL LANGUAGES AND AUTOMATA THEORY (A9517)       No. of Hours L: 4 T: 0 P: 0       C         1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computery, and complexity theory.       C         2       Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.       Construct a pushdown automata and context free, regular, normal form grammars to design computanguages         3       Construct a pushdown automata and context free, regular, normal form grammars to design computanguages.       Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course       Year / semester       Subject Name (Subject Code) OPERATING SYSTEMS (A9518)       No. of Hours       Cree         1       Compare various Operating Systems architectures, IO structures, Network Structure       Analyze the virtual memory, paging and memory allocation techniques for various applications.       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.       Mo. of Hours       C         4       Understand the overview of Disk Storage Structure.       Analyze assess access controls to protect files.       No. of Hours       C         5	4	Design methods suc branch and bound	h as the greedy method, divide and conquer, dynamic		-
Outcome         II/II Sem         FORMAL LANGUAGES AND AUTOMATA THEORY (A9517)         L; 4 T; 0 P; 0           After the completion of this course, the students should be able to         1         Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), compute- theory, and complexity theory.           2         Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.         3           3         Construct a pushdown automata and context free, regular, normal form grammars to design compu- language.         4           4         Evaluate solution for various problems using a theoretical computer (Turing machine) for a compu- language.         5           5         Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         No. of Hours         Cree           0         Quera / semester         Subject Name (Subject Code) OPERATING SYSTEMS (A9518)         No. of Hours         Cree           1         Compare various Operating Systems architectures, IO structures, Network Structure         2         Analyze the virtual memory , paging and memory allocation techniques for various applications.           3         Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4         Understand the overview of Disk Storage Structure.           5         Analyze as	5	problems and Synth			
Outcome         II/II Sem         FORMAL LANGUAGES AND AUTOMATA THEORY (A9517)         L; 4 T; 0 P; 0           After the completion of this course, the students should be able to         1         Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), compute- theory, and complexity theory.           2         Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.         3           3         Construct a pushdown automata and context free, regular, normal form grammars to design compu- language.         4           4         Evaluate solution for various problems using a theoretical computer (Turing machine) for a compu- language.         5           5         Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         No. of Hours         Cree           0         Quera / semester         Subject Name (Subject Code) OPERATING SYSTEMS (A9518)         No. of Hours         Cree           1         Compare various Operating Systems architectures, IO structures, Network Structure         2         Analyze the virtual memory , paging and memory allocation techniques for various applications.           3         Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4         Understand the overview of Disk Storage Structure.           5         Analyze as	Course	Vear / semester	Subject Name (Subject Code)	No. of Hours	Credits:4
1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computery, and complexity theory.         2       Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.         3       Construct a pushdown automata and context free, regular, normal form grammars to design compulanguages         4       Evaluate solution for various problems using a theoretical computer (Turing machine) for a compulanguage.         5       Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course <b>Vear / semester</b> Subject Name (Subject Code)         0       No. of Hours         1       Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         No. of Hours Computed structure applications.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess acc			FORMAL LANGUAGES AND AUTOMATA		Creation
1       Explain basic concepts in formal language theory, grammars, automata theory(DFA&NFA), computery, and complexity theory.         2       Know the production rules of regular expressions and grammars, including contexT:free and contexT:sensitive grammars.         3       Construct a pushdown automata and context free, regular, normal form grammars to design compulanguages         4       Evaluate solution for various problems using a theoretical computer (Turing machine) for a compulanguage.         5       Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course <b>Vear / semester Subject Name (Subject Code</b> )         0       No. of Hours         1       Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         No. of Hours Curve applications.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access control	After the co	mpletion of this cou	rse, the students should be able to		
contexT:sensitive grammars.         3       Construct a pushdown automata and context free, regular, normal form grammars to design compulanguages         4       Evaluate solution for various problems using a theoretical computer (Turing machine) for a compulanguage.         5       Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       Cree         Outcome       II/II Sem       OPERATING SYSTEMS (A9518)       L: 4 T: 0 P: 0       Cree         1       Compare various Operating Systems architectures, IO structures, Network Structure       Analyze the virtual memory ,paging and memory allocation techniques for various applications.       3         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.       4       Understand the overview of Disk Storage Structure.       5         5       Analyze assess access controls to protect files.       No. of Hours L: 4 T: 0 P: 0       C         4       Understand the overview of Disk Storage Structure.       5       L: 4 T: 0 P: 0       C         5       Analyze assess access controls to protect files.       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.		Explain basic conce	pts in formal language theory, grammars, automata the	eory(DFA&NFA), c	computability
anguages         4       Evaluate solution for various problems using a theoretical computer (Turing machine) for a computanguage.         5       Explain the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course         Year / semester       Subject Name (Subject Code)         Outcome       II/II Sem       OPERATING SYSTEMS (A9518)         L: 4 T: 0 P: 0       After the completion of this course, the students should be able to         1       Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         Course       Year / semester II/II       Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0         4       Understand the overview of Disk Storage Structure.       5         5       Analyze assess access controls to protect files.         Course       Year / semester II/II       Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hou	2			g contexT:free and	
Ianguage.       Image: Image in the relationship among language classes and grammars with the help of Chomsky Hierarc Distinguish between decidability and undecidability.         Course       Year / semester       Subject Name (Subject Code) OPERATING SYSTEMS (A9518)       No. of Hours       Cree         Outcome       II/II Sem       OPERATING SYSTEMS (A9518)       L: 4 T: 0 P: 0       Image: Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.       5         5       Analyze assess access controls to protect files.         Course       Year / semester II/II         Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0       C         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.       2         2       Demonstrate distributed applications.       3       Make use of these technologies to build dynamically generated web pages.         3       Make use of these technologies to build dynamically generated devel applications using pre-b	3		wn automata and context free, regular, normal form gr	ammars to design c	omputer
Distinguish between decidability and undecidability.       No. of Hours       Cree         Outcome       II/II Sem       Subject Name (Subject Code) OPERATING SYSTEMS (A9518)       No. of Hours       Cree         After the completion of this course, the students should be able to       I: 4 T: 0 P: 0       Cree         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.       3         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.       No. of Hours       C         4       Understand the overview of Disk Storage Structure.       5       Analyze assess access controls to protect files.       No. of Hours       C         Course Outcome       Year / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours       C         4       Understand the overview of bisk should be able to       No. of Hours       C         2       Demonstrate distributed applications.       Make use of these technologies to build dynamically generated web pages.       Distributed applications.         3       Make use of these technologies to build dynamically generated web pages.       Evaluation enterprise level applications.         3       Make use of these technologies to build dynamically generated web pages.       Evaluin integrated development environment to create debug and run ente		language.			-
Outcome         II/II Sem         OPERATING SYSTEMS (A9518)         L: 4 T: 0 P: 0           After the completion of this course, the students should be able to         1         Compare various Operating Systems architectures, IO structures, Network Structure           2         Analyze the virtual memory ,paging and memory allocation techniques for various applications.           3         Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an oper system as a File manager, I/O manager, Process manager.           4         Understand the overview of Disk Storage Structure.           5         Analyze assess access controls to protect files.           Course         Year / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)         No. of Hours L: 4 T: 0 P: 0           After the completion of this course, the students should be able to         1         How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2           2         Demonstrate distributed applications.         3           3         Make use of these technologies to build dynamically generated web pages.         4           4         Explain integrated development environment to create debug and run enterprise level applications.         5	5			help of Chomsky H	ierarchy, and
After the completion of this course, the students should be able to         1       Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         Course Outcome         Year / semester II/II         Subject Name (Subject Code) Sem         No. of Hours L: 4 T: 0 P: 0         C         After the completion of this course, the students should be able to         1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2       Demonstrate distributed applications.         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications.         5       Designing applications using pre-built struts framework					Credits:4
1       Compare various Operating Systems architectures, IO structures, Network Structure         2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         6       Vear / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2       Demonstrate distributed applications.       3         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications so protect files.			rsa, the students should be able to		
2       Analyze the virtual memory ,paging and memory allocation techniques for various applications.         3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         Course Outcome       Year / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0       C         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.       2       Demonstrate distributed applications.       3         3       Make use of these technologies to build dynamically generated web pages.       4       Explain integrated development environment to create debug and run enterprise level applications s         5       Designing applications using pre-built struts framework       No. of Hours       C				Stree streeps	
3       Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an ope system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         6       Vear / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2       Demonstrate distributed applications.       3         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework		-			
Apply Deadlock prevention and Deadlock Detection algorithms and Perceive the working of an operation of a system as a File manager, I/O manager, Process manager.         4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         Course Outcome       Year / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0       C         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.       2       Demonstrate distributed applications.         3       Make use of these technologies to build dynamically generated web pages.       4       Explain integrated development environment to create debug and run enterprise level applications 5         5       Designing applications using pre-built struts framework       No. of Hours       C		Analyze the virtual	memory ,paging and memory allocation techniques for	various application	18.
4       Understand the overview of Disk Storage Structure.         5       Analyze assess access controls to protect files.         6       Year / semester II/II         Sem       Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)         After the completion of this course, the students should be able to         1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2       Demonstrate distributed applications.         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework         Course       Year / semester	3			ive the working of	an operating
5       Analyze assess access controls to protect files.         6       Year / semester II/II       Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0       C         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.       2       Demonstrate distributed applications.         3       Make use of these technologies to build dynamically generated web pages.       4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework       No. of Hours       C	4				
Course Outcome       Year / semester II/II Subject Name (Subject Code) ADVANCED JAVA TOOLS(A9519)       No. of Hours L: 4 T: 0 P: 0       C         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.       2       Demonstrate distributed applications.       2         3       Make use of these technologies to build dynamically generated web pages.       4       Explain integrated development environment to create debug and run enterprise level applications using pre-built struts framework         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       C		Understand the over	view of Disk Storage Structure.		
Sem       ADVARCED JAVA (OOLS(AS)13)       L. 4 1. 0 1. 0         After the completion of this course, the students should be able to       1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2       Demonstrate distributed applications.       3         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework         Course       Vear / semester	5		-		
1       How to develop and run enterprise software and large scale multi-tiered scalable reliable and secure network applications.         2       Demonstrate distributed applications.         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework         Vear / semester         Subject Name (Subject Code)	Outcome	Sem	ADVANCED JAVA TOOLS(A5515)		Credits:4
network applications.         2       Demonstrate distributed applications.         3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework         Vear / semester         Subject Name (Subject Code)	After the co	-			
3       Make use of these technologies to build dynamically generated web pages.         4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework         Course         Vear / semester         Subject Name (Subject Code)         No. of Hours	1	network application	S.	alable reliable and	secure
4       Explain integrated development environment to create debug and run enterprise level applications         5       Designing applications using pre-built struts framework         Course         Vear / semester         Subject Name (Subject Code)         No. of Hours         C					
5Designing applications using pre-built struts frameworkCourseVear / semesterSubject Name (Subject Code)No. of HoursC					
Course         Vear / semester         Subject Name (Subject Code)         No. of Hours         C				terprise level applic	ations
		Designing application			
		Year / semester	Subject Name (Subject Code) ADVANCED JAVA TOOLS LAB (A9520)	No. of Hours L: 0 T:0 P: 3	Credits:2



	II/II Sem			
After the co	-	se, the students should be able to		
1		a program with the mysql database.		
2		vledge and practice in analysis and design of compute	er networks by focus	ing on
	computer programmin			
3		sing advanced server side programming through Serv	lets and JSP.	
4	Demonstrate their abi	lity to use different tools on complex projects	- I I	
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:2
Outcome	II/II Sem	OPERATING SYSTEMS LAB (A9521)	L: 0 T:0 P: 3	
fter the co		se, the students should be able to		
1		g algorithms, Page replacement algorithms.		
2		prithm for Dead Lock Avoidance & Dead Lock Preven	ntion	
3		of paging and segmentation.	introli	
4	Make use of Linux co			
	Wake use of Linux co	Subject Name (Subject Code)	No. of Hours	Credits:2
Course	Year / semester		L: 0 T:0 P: 3	Creans:2
Outcome	II/II Sem	WEB TECHNOLOGIES LAB—I (A9522)	L: 0 1:0 P: 5	
ftor the ex	menlation of this course	a the students should be able to		
		se, the students should be able to		
1		ledge of Internet and World Wide Web.	wints on 1 VA IT	
2		plementation process using HTML, DHTML, JavaSc		
3	ĩ	namic Web Pages using HTML, DHTML, JavaScript	is, and XML.	
4	Design and Develop a	fully functional Web Page.	1	
Course	Year / semester II/II	Subject Name (Subject Code)	No. of Hours	Credits:0
Outcome	Sem	GENDER SENSITIZATION (A9019)	L: 2 T:0 P: 0	
	Sem			
After the co	mpletion of this cours	se, the students should be able to		
1	Define the need and in	mportance of women empowerment.		
2	Extend the levels of u	nderstanding and classification of gender disparities.		
3		qual distribution of work in all the sector irrespective	of condor	
	fuction y the field of the		of genuer.	
4		· · ·	of gender.	
4	Construct the emerger	ncy needs of saving girl child.		ietv.
4 5	Construct the emerger Improves thinking lev	ncy needs of saving girl child. rels to find solution to the missing women and bring r	ealization in the soc	
4	Construct the emerger Improves thinking lev Year / semester	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code)	ealization in the soc No. of Hours	
4 5 Course	Construct the emerger Improves thinking lev Year / semester	ncy needs of saving girl child. Yels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER	ealization in the soc	iety. Credits:3
4 5	Construct the emerger Improves thinking lev Year / semester	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code)	ealization in the soc No. of Hours	
4 5 Course Outcome	Construct the emerger Improves thinking lev Year / semester III/I Sem	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523)	ealization in the soc No. of Hours	
4 5 Course Outcome	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this cours	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to	ealization in the soc No. of Hours	
4 5 Course Outcome After the co 1	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this cours Illustrate basic compu	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to iter network technology.	ealization in the soc No. of Hours	
4 5 Course Outcome	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this cours Illustrate basic compu Identify the different	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to atter network technology. types of network topologies and protocols.	ealization in the soc No. of Hours L: 3 T:1 P: 0	
4 5 Course Outcome After the co 1	Construct the emerger Improves thinking lev Year / semester III/I Sem IIIustrate basic compu Identify the different Categorize the hardway	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to iter network technology.	ealization in the soc No. of Hours L: 3 T:1 P: 0	
4 5 <b>Course</b> <b>Outcome</b> After the co 1 2	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic comput Identify the different Categorize the hardwa networking.	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to tter network technology. types of network topologies and protocols. are and software commonly used in data communication	ealization in the soc No. of Hours L: 3 T:1 P: 0	
4 5 <b>Course</b> <b>Outcome</b> After the co 1 2	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic comput Identify the different Categorize the hardwa networking.	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to atter network technology. types of network topologies and protocols.	ealization in the soc No. of Hours L: 3 T:1 P: 0	
4 5 <b>Course</b> Outcome After the co 1 2 3 4	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to tter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and rking requirements.	
4 5 Course Outcome After the co 1 2 3	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to tter network technology. types of network topologies and protocols. are and software commonly used in data communication	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and king requirements. MP etc.	Credits:3
4 5 Course Outcome After the co 1 2 3 4 5	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and Analyze the features a	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and thing requirements. MP etc. No. of Hours	Credits:3
4 5 Course Outcome 1 2 3 4 5 Course	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this cours Illustrate basic compu Identify the different to Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code)	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and king requirements. MP etc.	Credits:3
4 5 <b>Course</b> <b>Outcome</b> 1 2 3 4 5 <b>Course</b> <b>Outcome</b>	Construct the emerger Improves thinking lev Year / semester III/I Sem Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to iter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524)	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and thing requirements. MP etc. No. of Hours	
4 5 <b>Course</b> <b>Outcome</b> 1 2 3 4 5 <b>Course</b> <b>Outcome</b>	Construct the emerger Improves thinking lev Year / semester III/I Sem Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code)	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and thing requirements. MP etc. No. of Hours	Credits:3
4 5 <b>Course</b> <b>Outcome</b> 1 2 3 4 5 <b>Course</b> <b>Outcome</b>	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic comput Identify the different Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem Market Course	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to iter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524)	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and thing requirements. MP etc. No. of Hours	Credits:3
4 5 <b>Course</b> <b>Outcome</b> 1 2 3 4 5 <b>Course</b> <b>Outcome</b>	Construct the emerger Improves thinking lev Year / semester III/I Sem III/I Sem Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem III/I Sem III/I Sem Mpletion of this course Apply the knowledge	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) se, the students should be able to tter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524) se, the students should be able to of modern phases of compiler and its features	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and tking requirements. MP etc. No. of Hours L: 4 T: 0 P:0	Credits:3
4 5 <b>Course</b> 0utcome 1 2 3 4 5 <b>Course</b> 0utcome ifter the co 1	Construct the emerger         Improves thinking lev         Year / semester         III/I Sem         mpletion of this course         Illustrate basic compute         Identify the different to         Categorize the hardware         networking.         Interpret Design and         Analyze the features a         Year / semester         III/I Sem         mpletion of this course         Apply the knowledge         Identify the similari	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to tter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524) Se, the students should be able to of modern phases of compiler and its features ties and differences among various parsing technique	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and tking requirements. MP etc. No. of Hours L: 4 T: 0 P:0	Credits:3
4 5 Course Outcome fter the co 1 2 3 4 5 Course Outcome fter the co 1 2 3	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this cours Illustrate basic compu Identify the different in Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem mpletion of this cours Apply the knowledge Identify the similari Explain semantic ar	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524) Se, the students should be able to of modern phases of compiler and its features ties and differences among various parsing technique nalysis in the context of the compilation process.	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and tking requirements. MP etc. No. of Hours L: 4 T: 0 P:0	Credits:3
4 5 Course Outcome After the co 1 2 3 4 5 Course Outcome After the co 1 2 3 4	Construct the emerger Improves thinking lev Year / semester III/I Sem Illustrate basic compu Identify the different Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem Mpletion of this cours Apply the knowledge Identify the similari Explain semantic ar Design a symbol table	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524) Se, the students should be able to of modern phases of compiler and its features ties and differences among various parsing technique nalysis in the context of the compilation process. e format for the language defined by a grammar	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and tking requirements. MP etc. No. of Hours L: 4 T: 0 P:0	Credits:3
4 5 Course Outcome After the co 1 2 3 4 5 Course Outcome After the co 1 2 3	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this cours Illustrate basic compu Identify the different in Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem mpletion of this cours Apply the knowledge Identify the similari Explain semantic ar	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524) Se, the students should be able to of modern phases of compiler and its features ties and differences among various parsing technique nalysis in the context of the compilation process. e format for the language defined by a grammar	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and tking requirements. MP etc. No. of Hours L: 4 T: 0 P:0 s .	Credits:3
4 5 Course Outcome After the co 1 2 3 4 5 Course Outcome After the co 1 2 3 4	Construct the emerger Improves thinking lev Year / semester III/I Sem mpletion of this course Illustrate basic compu Identify the different of Categorize the hardwa networking. Interpret Design and Analyze the features a Year / semester III/I Sem mpletion of this course Apply the knowledge Identify the similari Explain semantic ar Design a symbol table Analyze the code gen	ncy needs of saving girl child. rels to find solution to the missing women and bring r Subject Name (Subject Code) DATA COMMUNICATIONS & COMPUTER NETWORKS(A9523) Se, the students should be able to atter network technology. types of network topologies and protocols. are and software commonly used in data communicati Evaluate subnet masks and addresses to fulfill networ and Operations of TCP/UDP, FTP, HTTP, SMTP,SNI Subject Name (Subject Code) COMPILER DESIGN (A9524) Se, the students should be able to of modern phases of compiler and its features ties and differences among various parsing technique nalysis in the context of the compilation process. e format for the language defined by a grammar	ealization in the soc No. of Hours L: 3 T:1 P: 0 ions and tking requirements. MP etc. No. of Hours L: 4 T: 0 P:0	Credits:3



mpletion of this cour:	se, the students should be able to			
Define Software Engi	ineering and listing core principles of software engined	ering and analyse	various	
process models				
Explain personal soft	ware process and team software process.			
		software developr	ment.	
		1		
		No. of Hours		
Year / semester			Credits:3	
III/I Sem			Creuits.	
	iding of data warehouse, designing and using data in d	ata warehouse usir	ig various	
		thods and their app	lication on	
Develop conceptual u	inderstanding of clustering, various clustering methods	s and their applicat	ion on some	
sample data sets, eval	uate these methods based on need.			
	Subject Name (Subject Code)	NI CII		
			Credits:	
III/I Sem		L: 3 T:1 P: 0		
mpletion of this cour:				
		n works		
		n works.		
		leling and their im	ortance	
			Joi tallee.	
		51001.		
	ements by creating design model	No. of House	Creaditari	
Year / semester	Subject Name (Subject Code)		Credits:3	
III/I Sem	INTELLECTUAL PROPERTY RIGHTS (OPEN	L: 5 1:0 P: 0		
III/I Selli	ELECTIVE-I) (A9626)			
mpletion of this cours	se, the students should be able to			
	se, the students should be able to			
Perceive the basics of	types of intellectual property rights.	in terms of their k	ev difference	
Perceive the basics of Compare and contrast		in terms of their k	ey difference	
Perceive the basics of Compare and contrast and similarities.	types of intellectual property rights. t the different forms of intellectual property protection	in terms of their k	ey difference	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co	types of intellectual property rights. t the different forms of intellectual property protection pyrights.		-	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so	types of intellectual property rights. t the different forms of intellectual property protection opyrights. ome basic theoretical justifications for each form of interview.		-	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con	types of intellectual property rights. t the different forms of intellectual property protection pyrights. ome basic theoretical justifications for each form of in- ncepts of trade marks and law of patents.	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so	types of intellectual property rights. t the different forms of intellectual property protection opyrights. ome basic theoretical justifications for each form of int neepts of trade marks and law of patents. <b>Subject Name (Subject Code)</b>	tellectual property	-	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con <b>Year / semester</b>	<ul> <li>Types of intellectual property rights.</li> <li>t the different forms of intellectual property protection</li> <li>popyrights.</li> <li>pome basic theoretical justifications for each form of integepts of trade marks and law of patents.</li> <li>Subject Name (Subject Code)</li> <li>DISASTER MANAGEMENT (OPEN ELECTIVE-</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con	types of intellectual property rights. t the different forms of intellectual property protection opyrights. ome basic theoretical justifications for each form of int neepts of trade marks and law of patents. <b>Subject Name (Subject Code)</b>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem	<ul> <li>types of intellectual property rights.</li> <li>t the different forms of intellectual property protection</li> <li>pyrights.</li> <li>pome basic theoretical justifications for each form of intellectual property and law of patents.</li> <li>Subject Name (Subject Code)</li> <li>DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem mpletion of this course	<ul> <li>types of intellectual property rights.</li> <li>t the different forms of intellectual property protection</li> <li>ppyrights.</li> <li>pome basic theoretical justifications for each form of integepts of trade marks and law of patents.</li> <li>Subject Name (Subject Code)</li> <li>DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> <li>se, the students should be able to</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem mpletion of this cours Perceive the various t	<ul> <li><sup>2</sup> types of intellectual property rights.</li> <li><sup>3</sup> t the different forms of intellectual property protection</li> <li><sup>4</sup> opyrights.</li> <li><sup>5</sup> ome basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li><sup>5</sup> Subject Name (Subject Code)</li> <li><sup>5</sup> DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> <li><sup>5</sup> se, the students should be able to ypes of disaster.</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of cc Assess and critique sc Analyze the basic con Year / semester III/I Sem Perceive the various t Interpret the various t	<ul> <li>Types of intellectual property rights.</li> <li>t the different forms of intellectual property protection</li> <li>popyrights.</li> <li>pome basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li>Subject Name (Subject Code)</li> <li>DISASTER MANAGEMENT (OPEN ELECTIVE-I )(A9121)</li> <li>se, the students should be able to</li> <li>ypes of disaster.</li> <li>ypes of Hazards and Vulnerability.</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of cc Assess and critique sc Analyze the basic con Year / semester III/I Sem Perceive the various t Interpret the various t Perceive different app	<ul> <li>Types of intellectual property rights.</li> <li>t the different forms of intellectual property protection</li> <li>popyrights.</li> <li>pome basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li>Subject Name (Subject Code)</li> <li>DISASTER MANAGEMENT (OPEN ELECTIVE-I )(A9121)</li> <li>se, the students should be able to</li> <li>ypes of disaster.</li> <li>ypes of Hazards and Vulnerability.</li> <li>proaches of disaster risk reduction.</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem mpletion of this cours Perceive the various t Interpret the various t Perceive different app Describe the disaster	<ul> <li><sup>5</sup> types of intellectual property rights.</li> <li><sup>6</sup> types of intellectual property protection</li> <li><sup>6</sup> pyrights.</li> <li><sup>6</sup> ome basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li><sup>6</sup> <b>Subject Name (Subject Code)</b></li> <li><sup>6</sup> DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> <li><sup>6</sup> <b>se, the students should be able to</b></li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster risk reduction.</li> <li><sup>6</sup> management and safety plan.</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of cc Assess and critique sc Analyze the basic con Year / semester III/I Sem Perceive the various t Interpret the various t Perceive different app	<ul> <li><sup>5</sup> types of intellectual property rights.</li> <li><sup>6</sup> types of intellectual property protection</li> <li><sup>6</sup> pyrights.</li> <li><sup>6</sup> ome basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li><sup>6</sup> <b>Subject Name (Subject Code)</b></li> <li><sup>6</sup> DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> <li><sup>6</sup> <b>se, the students should be able to</b></li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster risk reduction.</li> <li><sup>6</sup> management and safety plan.</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem mpletion of this cours Perceive the various t Interpret the various t Perceive different app Describe the disaster Discuss the various di	<ul> <li><sup>5</sup> types of intellectual property rights.</li> <li><sup>6</sup> types of intellectual property protection</li> <li><sup>6</sup> pyrights.</li> <li><sup>6</sup> powe basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li><sup>6</sup> <b>Subject Name (Subject Code)</b></li> <li><sup>6</sup> DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> <li><sup>6</sup> <b>se, the students should be able to</b></li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster risk reduction.</li> <li><sup>6</sup> management and safety plan.</li> <li><sup>6</sup> isaster risks in India.</li> </ul>	tellectual property	protection.	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem mpletion of this cours Perceive the various t Interpret the various t Perceive different app Describe the disaster Discuss the various di Year / semester III/I	<ul> <li><sup>5</sup> types of intellectual property rights.</li> <li><sup>6</sup> types of intellectual property protection</li> <li><sup>6</sup> pyrights.</li> <li><sup>6</sup> powe basic theoretical justifications for each form of integets of trade marks and law of patents.</li> <li><sup>6</sup> <b>Subject Name (Subject Code)</b></li> <li><sup>6</sup> DISASTER MANAGEMENT (OPEN ELECTIVE-I)(A9121)</li> <li><sup>6</sup> <b>se, the students should be able to</b></li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster.</li> <li><sup>6</sup> ypes of disaster risk reduction.</li> <li><sup>6</sup> management and safety plan.</li> <li><sup>6</sup> isaster risks in India.</li> </ul>	tellectual property No. of Hours L: 3 T:0 P: 0	protection. Credits:3	
Perceive the basics of Compare and contrast and similarities. Learn the basics of co Assess and critique so Analyze the basic con Year / semester III/I Sem mpletion of this cours Perceive the various t Interpret the various t Perceive different app Describe the disaster Discuss the various di	<ul> <li>Types of intellectual property rights.</li> <li>t the different forms of intellectual property protection</li> <li>popyrights.</li> <li>pome basic theoretical justifications for each form of intellectual property protection</li> <li>subject Name (Subject Code)</li> <li>DISASTER MANAGEMENT (OPEN ELECTIVE-I )(A9121)</li> <li>se, the students should be able to</li> <li>ypes of disaster.</li> <li>ypes of disaster risk reduction.</li> <li>management and safety plan.</li> <li>isaster risks in India.</li> <li>Subject Name (Subject Code)</li> </ul>	tellectual property No. of Hours L: 3 T:0 P: 0	protection. Credits:3	
	Define Software Engi process models Explain personal soft Differentiate the tech Apply the testing stra Develop a Software O Year / semester III/I Sem mpletion of this cours Introduce data mining Develop an understan operations. Develop an outlook o some sample data set Develop an understan some sample data set Develop conceptual u sample data sets, eval Year / semester III/I Sem mpletion of this cours Perceive of the princi Perceive basic Structu Identify the differen Implement the visuali	process models         Explain personal software process and team software process.         Differentiate the techniques of Verification and Validation in the process of Apply the testing strategies for various programming codes.         Develop a Software Quality Assurance Plan for a Software Development         Year / semester III/I Sem       Subject Name (Subject Code) DATA WAREHOUSING AND DATA MINING (A9526)         mpletion of this course, the students should be able to         Introduce data mining concepts and develops understanding of data mining Develop an understanding of data warehouse, designing and using data in d operations.         Develop an outlook of Association rule mining, association rule mining me some sample data sets, evaluate these methods based on need.         Develop conceptual understanding of clustering, various clustering methods sample data sets, evaluate these methods based on need.         Vear / semester III/I Sem       Subject Name (Subject Code) OBJECT ORIENTED ANALYSIS AND DESIGN (A9559)         mpletion of this course, the students should be able to       OBJECT ORIENTED ANALYSIS AND DESIGN (A9559)         mpletion of this course, the students should be able to       Perceive of the principles of modeling and importance of modeling in desig Perceive basic Structural concepts in modeling.         Identify the difference between structural and behavioral concepts in model Implement the visualized views of different systems with modeling-CASE I Identify design requirements by creating design model         Year / semester       Subject Name (Subject Code)	Define Software Engineering and listing core principles of software engineering and analyse process models         Explain personal software process and team software process.         Differentiate the techniques of Verification and Validation in the process of software developr         Apply the testing strategies for various programming codes.         Develop a Software Quality Assurance Plan for a Software Development         Year / semester       Subject Name (Subject Code)         DATA WAREHOUSING AND DATA MINING (A9526)         Introduce data mining concepts and develops understanding of data mining application.         Develop an outlook of Association rule mining, association rule mining methods and their app some sample data sets, evaluate these methods based on need.         Develop an understanding of classification and prediction, classification methods and their app some sample data sets, evaluate these methods based on need.         Develop an understanding of clustering, various clustering methods and their app some sample data sets, evaluate these methods based on need.         Pevelop conceptual understanding of clustering, various clustering methods and their applicat sample data sets, evaluate these methods based on need.         Pevelop conceptual understanding of clustering, various clustering methods and their applicat sample data sets, evaluate these methods based on need.         Develop conceptual understanding of clustering, various clustering methods and their applicat sample data sets, evaluate these methods based on need.         Develop conceptual understanding of clustering nethods an	



outcome				
		ubject Name (Subject Code) SOFTWARE ESTING METHODOLOGY (A9531)	No. of Hours L: 4 T:1 P: 0	Credits:4
	Remote Procedure Cal	ls		
		entary UDP sockets and Address conversions. communication consisting of pipes, FIFOs, Semapho	res Message Queu	es and
			-	
		nt server applications and analyze I/O Multiplexing	g and socket optic	ons.
		ocket functions and Byte Ordering.	2	
		e, the students should be able to I knowledge of OSI layers, TCP & UDP concepts, N	atworking	•
Outcomo	Year / semester III/II Sem	Subject Name (Subject Code) NETWORK PROGRAMMING (A9530)	No. of Hours L: 4 T:1 P: 0	Credits:4
	Apply the concepts of	architectural design for deploying the code for softw		Care 124 4
		conceptual model into various scenarios and applicat		
		model structural and behavioral concepts of the syste		
		ta mining algorithms and Text mining techniques.		
		ata warehouse and implement OLAP operations.		
		e, the students should be able to		
fter the co	muletion of this course			
Course Outcome	Year / semester III/I Sem	Subject Name (Subject Code) CASE TOOLS AND DATA MINING LAB (A9529)	No. of Hours L: 0 T:0 P: 3	Credits:2
4	Interpret the working	g of lex and yacc compiler for debugging of program	IS.	
3	Demonstrate a work	ing process of lexical analysis, parsing and other con	npiler design aspec	ts.
2	Explain the major so	ftware and hardware technologies used on computer	networks.	
1	Create any topology us	sing network devices and build a device for sharing	on network.	
		e, the students should be able to		
	Sem	DESIGN LAB (A9528)		
Outcomo	Year / semester III/I	COMPUTER NETWORKS AND COMPILER	L: 0 T:0 P: 3	
C	-	Subject Name (Subject Code)	No. of Hours	Credits:2
		issues related to gender in contemporary India.		
		bective on the socialization of men and women.		
		nd achieve harmony in life.		
		sibility and mould them as best professionals.		
		ce of ethics and values in life and society.		
	Sem npletion of this course	ETHICS(OPEN ELECTIVE-I ) (A9022) e, the students should be able to		
Outcomo	Year / semester III/I	HUMAN VALUES AND PROFESSIONAL	L: 3 T:0 P: 0	Creans:5
~			No. of Hours	Credits:3
		are final accounts and how to interpret them s using ratio analysis.	i, anaryze and m	lerpret
			onalyza and in	torprot
	investment decisio		inques are used i	01
		ion and analyze how capital budgeting tech		
		aracteristics of different kinds of markets an	d outline differe	nt form of
	and how to analyze			<b></b> P <b>6</b> 00
		tion function is carried out to achieve least of		of Inputs
		ns and to evaluate methods for forecasting d		
	Know what is dem	and, analyze demand and how elasticity of	demand is used	



	List a songe of life.	ant cofficient tooking tooking and strateging and tool	hla to anni- an aif	(automated)
1	List a range of different unit testing method to	ent software testing techniques and strategies and be all	one to apply specific	(automated)
2		istics of structural testing methods.		
3	-	omain testing and Interface Testing		
4		ting topics, such as logic based testing methods, KV c	harte challonges a	deplutions
5	Distinguish good & b		marts, chancinges, ai	la solutions.
5	Distinguish good & t		No. of Hours	Credits:4
Course	Year / semester	Subject Name (Subject Code)	L: 4 T: 1 P: 0	Ci cuits.4
Outcome	III/II Sem	MOBILE COMPUTING (A9532)		
After the co	mpletion of this cour	se, the students should be able to	11	
1	Perceive algorithm/p	rotocols, environments and communication systems in	mobile computing.	
2		hnical issue related to this new paradigm and come up	with a solution(s).	
3		network applications and/or algorithms/protocols.		
4		ny existing or new protocol related to mobile environment	ment.	
5	Identify the database	issues and understand data delivery mechanism.		-
		Subject Name (Subject Code)	No. of Hours L:	
Course	Year / semester	Subject Name (Subject Code) ADVANCED DBMS(CSE ELECTIVES-I )	3 T: 0 P: 0	Credits:3
Outcome	III/II Sem	(A9533)		creation
A 64 41	1 4 6 41 *			
After the co		se, the students should be able to		
1		guages, Models along with Client Server Architecture	•	
2 3		of Database Recovery protocols. del for real world problems.		
		database security issues.		
4 5		Data models and its applications.		
	Adapt with advanced	**		
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	~
Outcome	III/II Sem	DESIGN PATTERNS(CSE ELECTIVES-I)	L: 3 T: 0 P: 0	Credits:3
		(A9534)		
After the co	mpletion of this cour	se, the students should be able to		
1	Identify the appropria	ate design patterns to solve object oriented design prob	olems.	
2	Identify and implem	ent appropriate solutions to recurring programming pr	oblems by consultin	g technical
2		pecifications, including design pattern catalogs and ex-	-	-
3		utions using creational patterns.	8	
4	Develop design sol			
	· · ·	· · · · · · · · · · · · · · · · · · ·		
5	Apply structural pa	tterns to solve design problems.		
	Apply structural pa	· · · · · · · · · · · · · · · · · · ·		
Course	Apply structural pa Summarize the advar	tterns to solve design problems.	No. of Hours	
Course Outcome	Apply structural pa Summarize the advar Year / semester	tterns to solve design problems. htages and disadvantages of using design pattern varia		Credits:3
Outcome	Apply structural pa Summarize the advar Year / semester III/II Sem	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535)	No. of Hours	Credits:3
Outcome	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b>	No. of Hours	Credits:3
Outcome After the con	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament	tterns to solve design problems. htages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems.	No. of Hours	Credits:3
Outcome After the con 1 2	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics.	No. of Hours	Credits:3
Outcome After the con 1 2 3	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro- Know Operating System	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. ocessor components and Interrupt basics. tem services and Debugging Techniques.	No. of Hours L: 3 T: 0 P: 0	
Outcome After the con 1 2	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro- Know Operating System Explain the purpose of	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors was	No. of Hours L: 3 T: 0 P: 0	
Outcome After the con 1 2 3	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro- Know Operating System Explain the purpose of	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors we ent debug multithreaded application software that opera-	No. of Hours L: 3 T: 0 P: 0	
Outcome After the con 1 2 3 4	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropr Know Operating Sys Explain the purpose of Design and impleme embedded computer Year / semester	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors we ent debug multithreaded application software that oper- systems. <b>Subject Name (Subject Code)</b>	No. of Hours L: 3 T: 0 P: 0	
Outcome After the con 1 2 3 4 5	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropr Know Operating Syst Explain the purpose of Design and impleme embedded computer	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. ocessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors w. nt debug multithreaded application software that oper- systems.	No. of Hours L: 3 T: 0 P: 0	constraints on
Outcome After the con 1 2 3 4 5 Course Outcome After the con	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro- Know Operating Sys Explain the purpose of Design and impleme embedded computer Year / semester III/II Sem mpletion of this cour	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors we ent debug multithreaded application software that opera- systems. <b>Subject Name (Subject Code)</b> PRINCIPLES OF PROGRAMMING LANGUAGES (CSE ELECTIVES-I) (A9627) <b>se, the students should be able to</b>	No. of Hours         L: 3 T: 0 P: 0         ith microcontrollers         ate under real time of         No. of Hours         L: 3 T: 0 P: 0	constraints on Credits:3
Outcome After the con 1 2 3 4 5 Course Outcome	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro- Know Operating Sys Explain the purpose of Design and impleme embedded computer Year / semester III/II Sem mpletion of this cour Analyze syntax-related	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors we ent debug multithreaded application software that opera- systems. <b>Subject Name (Subject Code)</b> PRINCIPLES OF PROGRAMMING LANGUAGES (CSE ELECTIVES-I) (A9627) <b>se, the students should be able to</b> ed concepts including context-free grammars, parse tr	No. of Hours         L: 3 T: 0 P: 0         ith microcontrollers         ate under real time of         No. of Hours         L: 3 T: 0 P: 0	constraints on
Outcome After the con 1 2 3 4 5 Course Outcome After the con 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropro- Know Operating Syss Explain the purpose of Design and impleme embedded computer Year / semester III/II Sem mpletion of this cour Analyze syntax-relate parsing, printing, and	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors w ent debug multithreaded application software that opera- systems. <b>Subject Name (Subject Code)</b> PRINCIPLES OF PROGRAMMING LANGUAGES (CSE ELECTIVES-I) (A9627) <b>se, the students should be able to</b> ed concepts including context-free grammars, parse tra- interpretation.	No. of Hours         L: 3 T: 0 P: 0         ith microcontrollers         ate under real time of         No. of Hours         L: 3 T: 0 P: 0	constraints on Credits:3
Outcome After the con 1 2 3 4 5 Course Outcome After the con	Apply structural pa Summarize the advar Year / semester III/II Sem mpletion of this cour Know the fundament Perceive the micropre- Know Operating Syst Explain the purpose of Design and impleme embedded computer Year / semester III/II Sem mpletion of this cour Analyze syntax-relate parsing, printing, and Perceive the seman	tterns to solve design problems. ntages and disadvantages of using design pattern varian <b>Subject Name (Subject Code)</b> EMBEDDED SYSTEMS (CSE ELECTIVES-I) (A9535) <b>se, the students should be able to</b> als and hardware components of Embedded Systems. occessor components and Interrupt basics. tem services and Debugging Techniques. of embedded systems and compare microprocessors we ent debug multithreaded application software that opera- systems. <b>Subject Name (Subject Code)</b> PRINCIPLES OF PROGRAMMING LANGUAGES (CSE ELECTIVES-I) (A9627) <b>se, the students should be able to</b> ed concepts including context-free grammars, parse tr	No. of Hours         L: 3 T: 0 P: 0         ith microcontrollers         ate under real time of         No. of Hours         L: 3 T: 0 P: 0         ees,         recu	constraints on Credits:3 rsive descent



4	Perceive the implement	entation of object-oriented languages.		
5	Compare the Function	nal Programming Languages and Logic Programming	Languages	
Course Outcome		Subject Name (Subject Code) AIR POLLUTION CONTROL (INTER	No. of Hours L: 3 T:0 P: 0	Credits:3
		DEPARTMENT ELECTIVE )( A9122)		
After the co	mpletion of this cour	se, the students should be able to		
1	Perceive Air pollutio			
2	ĩ	s of air pollution on the environment.		
3	concentration.	ance of meteorological factors in pollutant dispersion and	nd to predict the	pollutant
4		rsion modelling and assess the concentrations.		
5	Perceive Air qualit	y monitoring devices.		
Course Outcome	Year / semester III/II Sem	Subject Name (Subject Code) BIOMEDICAL INSTRUMENTATION (INTER DEPARTMENT ELECTIVE) (A9426)	No. of Hours L: 3 T:0 P: 0	Credits:3
After the co	mpletion of this cour	rse, the students should be able to		
1	Understand the funct	ions of bio amplifiers, characteristics of medical instru-	ments and bio sign	als.
2	Discuss the various is	nternal, external Bio electrodes and relations between e	lectrical and mech	anical
	activities of heart.			
3	-	ncepts of Cardiac Instrumentation and gain the knowled	ge about it.	
4		peutic Equipment and their operation.		
5	Acquires knowledg	ge about neuro-muscular Instrumentation like ECG EM		
Course Outcome	Year / semester III/II Sem	Subject Name (Subject Code) DIGITAL IMAGE PROCESSING (INTER	No. of Hours L: 3 T:0 P: 0	Credits:3
		DEPARTMENT ELECTIVE) (A9433)		
After the co		se, the students should be able to		
1	Gain the knowledge	of digital image fundamentals and image transforms.		
2	_	of image enhancement in spatial and frequency domain	•	
3		rent methods to restore an image.		
4	-	ge segmentation techniques and understand morpholog	ical image process	ing.
5	Analyze the different	t image compression techniques.		
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:3
Outcome	III/II Sem	MANAGEMENT SCIENCE (INTER	L: 3 T:0 P:0	
A fton the ee		DEPARTMENT ELECTIVE) (A9622)		
1	-	rse, the students should be able to ntals of management and contributions to management.		
2		sponsibilities of an organization towards stakeholders a		le
	organization structure	e and to identify factors influencing plant location and	layout decisions.	
3		materials management, evaluate quality of products us neepts of marketing mix and Human Resource concepts		es and
4		d CPM different and to construct network by proper pla lish a successful project.	anning organizing	an managing
5	Appraise all contemp	porary management practices and analyze how these co	ntemporary manag	gement
~	practices one applica	ble in modern business and service organizations.		
Course Outcome	Year / semester III/II Sem	Subject Name (Subject Code) TECHNICAL COMMUNICATIONS SKILLS	No. of Hours L: 0 T:0 P: 3	Credits:2
1.0		LAB (A9024)		
		rse, the students should be able to		
1	Develop effective an	d appropriate vocabulary to get focussed in the new pat	terns of learning	



3       En         4       Forski         Ski       Ski         Outcome       III         After the comp       1         1       Ela         2       Or         3       M         Poi       4         0       4         0       4         0       4         0       4         0       1         After the comp       1         1       Ap         2       H         3       Te         4       Wit         Course       Ye         Outcome       IV         After the comp       IV         After the comp       1         1       Ide	hhance job prospects prmulate effective sp cills concerned. ear / semester I/II Sem Deletion of this cours laborate basic UNIX rganize and manipul Model TCP and UDP oll functions. esign inter process c evelop RPC application ear / semester I/II Sem Deletion of this cours pply the knowledge Perceive and apply co est the database store Vite the testcases for ear / semester Solution Semester Vite the testcases for ear / semester Vite Som	Subject Name (Subject Code)         SOFTWARE TESTING LAB (A9537)         e, the students should be able to         of testings for real time projects.         different testing tools.	No. of Hours L: 0 T:0 P:3	Credits:2
4     For ski       Course     Ye       Outcome     III       After the comp     1       1     Ela       2     Or       3     M       Poi     4       4     De       dev     Outcome       1     After the comp       1     Ap       2     H       3     Te       4     Wit       Course     Ye       0utcome     IV       After the comp     IV       After the comp     1       1     Ide	ormulate effective sp cills concerned. ear / semester I/II Sem Detion of this cours laborate basic UNIX rganize and manipul Model TCP and UDP oll functions. esign inter process c evelop RPC applicati ear / semester I/II Sem Detion of this cours pply the knowledge Perceive and apply c est the database store Vrite the testcases for ear / semester	seaking abilities to improve quality in their speaking by         Subject Name (Subject Code)         NETWORK PROGRAMMING LAB (A9536)         e, the students should be able to         commands, shell scripts and AWK scripts.         ate files and directories.         c client server applications and outline the I/O multiple         ommunication consisting of pipes, FIFOs, Semaphore         ions.         Subject Name (Subject Code)         SOFTWARE TESTING LAB (A9537)         e, the students should be able to         of testings for real time projects.         different testing tools.         ed in MYSQL.         conditional and iterative statements.	No. of Hours L: 0 T:0 P:3 exing concepts of S s and message Que No. of Hours	Credits:2
Ski       Course     Ye       Outcome     III       After the comp     I       1     Ela       2     Or       3     M       Po     Po       4     De       dev     M       Outcome     III       After the comp     1       1     Ap       2     F       3     Te       4     Wr       Course     Ye       0utcome     IV       After the comp     I       1     Ida	tills concerned. ear / semester I/II Sem Detion of this cours laborate basic UNIX rganize and manipul Iodel TCP and UDP oll functions. esign inter process c evelop RPC applicati ear / semester I/II Sem Detion of this cours pply the knowledge Perceive and apply c est the database store Vite the testcases for ear / semester I/II Sem	Subject Name (Subject Code)         NETWORK PROGRAMMING LAB (A9536)         e, the students should be able to         commands, shell scripts and AWK scripts.         ate files and directories.         client server applications and outline the I/O multiple         ommunication consisting of pipes, FIFOs, Semaphore         ions.         Subject Name (Subject Code)         SOFTWARE TESTING LAB (A9537)         e, the students should be able to         of testings for real time projects.         different testing tools.         ed in MYSQL.         conditional and iterative statements.	No. of Hours L: 0 T:0 P:3 exing concepts of S s and message Que No. of Hours	Credits:2
Course OutcomeYe IIIAfter the compi11Ela2Or3MPoi4De det6detCourse OutcomeYe1Ap2F3Te4WrCourse 4Ye0Te4WrCourse 4Ye0UtcomeIVAfter the compi 1Ida	ear / semester I/II Sem Deletion of this cours laborate basic UNIX rganize and manipul Todel TCP and UDP Dell functions. esign inter process c evelop RPC applicati ear / semester I/II Sem Deletion of this cours pply the knowledge Perceive and apply c est the database store Vrite the testcases for ear / semester I/II Sem	NETWORK PROGRAMMING LAB (A9536) e, the students should be able to commands, shell scripts and AWK scripts. ate files and directories. Client server applications and outline the I/O multiple ommunication consisting of pipes, FIFOs, Semaphore ions. Subject Name (Subject Code) SOFTWARE TESTING LAB (A9537) e, the students should be able to of testings for real time projects. different testing tools. ed in MYSQL. conditional and iterative statements.	L: 0 T:0 P:3 exing concepts of S s and message Que No. of Hours	Select and eues and
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device       Course     Ye       Outcome     III       After the comp     1       1     Ap       2     F       3     Te       4     Wr       Course     Ye       Outcome     IV       After the comp     1       1     Ide	evelop RPC applicati ear / semester I/II Sem Deletion of this cours pply the knowledge Perceive and apply of est the database store vrite the testcases for ear / semester	ions. Subject Name (Subject Code) SOFTWARE TESTING LAB (A9537) e, the students should be able to of testings for real time projects. different testing tools. ed in MYSQL. conditional and iterative statements.	No. of Hours	
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Outcome IV After the comp 1 Ide	// Som	ubject Name (Subject Code)		
After the comp 1 Ide	//I Som		No. of Hours	Credits:3
1 Ide		ETWORK SECURITY & CRYPTOGRAPHY A9538)	L: 3 T:1 P: 0	
1 Ide	pletion of this cours	e, the students should be able to		
		s of vulnerabilities, attacks, mechanisms and security	services.	
- <u>C</u>		symmetric and asymmetric encryption algorithms.		
		ssage authentication, hashing algorithms and able to u		s.
		d controls associated with IP, transport level, web and		
	evelop intrusion deterewalls.	ection system, solutions for wireless networks and desi	igning of various t	ypes of
0		Subject Name (Subject Code) VEB SERVICES (A9539)	No. of Hours L: 4 T: 0 P: 0	Credits:4
After the comp	pletion of this cours	e, the students should be able to		
1 Im		ce client and server with interoperable systems like con	re distributed com	puting,
2 Per	erceive and analyze t	he principles of SOAP.		
		nt Web Services life cycle, Anatomy of WSDL definiti		
4	Iow to utilize the sen ructures.	nantics of web services. Working with UDDI, program	nming with UDDI	, UDDI data
	xplore interoperabili rvices	ity between different frameworks. Design web based a	applications that us	se web
Course Ye Outcome Ser	m	Subject Name (Subject Code) CLOUD COMPUTING (CSE ELECTIVE-II) (A9540)	No. of Hours L: 4 T: 0 P: 0	Credits:4
After the comp	pletion of this cours	e, the students should be able to	ıI	
-		cepts, key technologies of virtualization		
	escribe the architectu odels	ure and infrastructure of cloud computing with all serv	vices of cloud and	deployment
<sub>3</sub> An		cloud computing like cloud security. Explain the core rivacy	issues of cloud con	mputing
4 Ide	lentify problems: and	alyze various cloud computing solutions using python.	Write comprehen	sive case



	studies by analyzing	different cloud computing solutions			
5	Perceive the virtualization and cloud computing concepts. Develop scalable applications using AWS.				
Course Outcome	Year / semester IV/I Sem	Subject Name (Subject Code) INFORMATION SYSTEMS AND AUDITING (CSE ELECTIVE-II) (A9541)	No. of Hours L: 4 T: 0 P:0	Credits:4	
After the co	mpletion of this cour	rse, the students should be able to			
1	Recognize the propensity of errors and remedies in processes involving Information Technology.				
2	A consummate knowledge of risks and controls in IT operations in Industry.				
3	Apply the information systems auditing methodology. Identify and manage the security controls.				
4	Provide protective IT security guidelines for various types of Industries. Analyze the current issues in auditing				
5		withal to become an IS Auditor and/or Security special a integrity, system effectiveness and system efficiency.		lluate asset	
Course Outcome	Year / semester IV/I Sem	Subject Name (Subject Code) DISTRIBUTED DATABASES(CSE ELECTIVE- II) (A9542)	No. of Hours L: 4 T: 0 P: 0	Credits:4	
After the co	mpletion of this cour	se, the students should be able to			
	•	f distributed databases, types of fragmentation. Compa	re and contrast dis	tributed and	
1	centralized databases				
2		using different optimization strategies.			
3		mentation is affected by different levels of data and pro			
4	practical database rel			-	
5	Perceive the Query p	rocessor architecture and its execution. Develop applic	ations using COR	BA Technology	
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4	
Outcome	IV/I Sem	ARTIFICIAL INTELLIGENCE (CSE ELECTIVE- II)( A9543)	L: 4 T: 0 P: 0		
After the co	mpletion of this cour	se, the students should be able to			
1		I concepts like the AI technique, level of model, there	underlying assum	otions etc	
2		s of AI search techniques. Solve various problems by a			
3		presentation techniques. Analyze different structures of			
4		echniques. Analyze different Planning Techniques	1		
5	Create Expert system				
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4	
Outcome	I ear / semester IV/I Sem	MULTIMEDIA & RICH INTERNET APPLICATIONS (CSE ELECTIVE-II)(A9562)	L: 4 T: 0 P: 0	Creuns:4	
After the co	mpletion of this cour	rse, the students should be able to			
l	<u> </u>	d creative graphic solutions for multimedia productions	3		
2					
3	Develop techniques for interactive authoring, v. Use advanced scripting skills necessary for implementing highly interactive, rich internet applications using multimedia technologies and authoring tools.				
4	Perceive the fundamental concepts in video and digital audio. Compare different rich internet applications.				
5	Develop, Analyze, Design industry-wide software artistic visual style and layout design as well as the editing and integration of graphic images, animation, video, and audio files				
Course Outcome	Year / semester IV/ Sem		No. of Hours L: 4 T: 0 P: 0	Credits:4	
After the co	mpletion of this cour	se, the students should be able to	I		
1	Perceive of scripting and the contributions of scripting languages. Write simple scripts to automate system administration.				
2		and advanced programming of PHP. Perceive of Perl e			



3	Expose to create advat	nced applications on web applications. Analyze the ba	sics of TCL and a	pply the		
5	logic on TCL concepts.					
4	Expose to basic applications python, create its modules and Web applications.					
5	Develop simple applications by various tools					
Course	Vear / semester IV/I	Subject Name (Subject Code)	No. of Hours	Credits:4		
Outcome	Sem	SOFT COMPUTING (CSE ELECTIVE-III)	L: 4 T:0 P: 0			
		(A9544)				
fter the co		e, the students should be able to				
1	Learn basics of artificial neural network and soft computing techniques.					
2	Perceive various supervised learning networks and training algorithms of various Associative memory networks					
3	Perceive the algorith	ms for pattern association unsupervised learning netw	vorks, Special netw	vorks.		
4	Apply functional map	pings in fuzzy sets. Interpret the Scope of Membershi	ip functions and pe	erceive		
		ds and discussions on concepts of fuzzy sets				
5		ends the concepts and applications of genetic algorith	ms, various soft co	omputing		
	techniques for problem					
Course	Year / semester IV/I	Subject Name (Subject Code)	No. of Hours	Credits:4		
Outcome	Sem	BUSINESS INTELLIGENCE AND BIG DATA	L: 4 T:0 P: 0			
		(CSE ELECTIVE-III) (A9545)				
fter the co	_	e, the students should be able to				
1		ns, definitions, and capabilities of DSS, data analytics	and BI.			
2		ncepts, and architectures of data warehousing.				
3		ct of business reporting, information visualization, and	d dashboards. Out	line the		
		and enabling technologies of big data analytics.				
4		neural networks, support vector machines, text analyti		ntiment		
		web analytics, social analytics, social network analysis				
5	Apply big data technol	logies in business intelligence using geospatial data, l	ocation-based anal	lytics, social		
	networking, Web 2.0,	reality mining, and cloud computing.				
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4		
Outcome	IV/I Sem	SOFTWARE PROJECT MANAGEMENT(CSE	L: 4 T:0 P: 0			
	IV/I Selli	ELECTIVE-III) (A9546)				
after the co		e, the students should be able to				
		Gain knowledge of software economics, phases in the life cycle of software development, project				
1	Gain knowledge of so	· 1	development, pro	jeet		
	Gain knowledge of som organization, and proje	ect control and process instrumentation.	1 1	, ,		
1 2	Gain knowledge of sor organization, and proje Summarize software e	ect control and process instrumentation. conomics, software development life cycle, artifacts of	of the process, wor	kflows,		
2	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or	ect control and process instrumentation. conomics, software development life cycle, artifacts or rganization and responsibilities, project control and pr	of the process, wor rocess instrumenta	kflows,		
	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw	ect control and process instrumentation. conomics, software development life cycle, artifacts of	of the process, wor rocess instrumenta	kflows,		
2 3	Gain knowledge of so organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities.	ect control and process instrumentation. conomics, software development life cycle, artifacts or rganization and responsibilities, project control and pr are development approach. Compare various project	of the process, wor rocess instrumenta organizations and	kflows, tion.		
2 3 4	Gain knowledge of so organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and	ect control and process instrumentation. conomics, software development life cycle, artifacts or rganization and responsibilities, project control and pr are development approach. Compare various project I minor milestones, artifacts and metrics for managem	of the process, wor rocess instrumenta organizations and ment and technical	kflows, tion. perspective.		
2 3 4 5	Gain knowledge of so organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and	ect control and process instrumentation. conomics, software development life cycle, artifacts or rganization and responsibilities, project control and pro- vare development approach. Compare various project minor milestones, artifacts and metrics for management of using conventional and modern principles of softw	of the process, wor rocess instrumenta organizations and nent and technical vare project manag	kflows, tion. perspective. ement.		
2 3 4 5 <b>Course</b>	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ	ect control and process instrumentation. conomics, software development life cycle, artifacts or rganization and responsibilities, project control and pro- vare development approach. Compare various project minor milestones, artifacts and metrics for management act using conventional and modern principles of softwork Subject Name (Subject Code)	of the process, wor rocess instrumenta organizations and nent and technical j vare project manag <b>No. of Hours</b>	kflows, tion. perspective.		
2 3 4 5	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project is minor milestones, artifacts and metrics for management act using conventional and modern principles of softwork Subject Name (Subject Code) COMPUTER GRAPHICS(CSE ELECTIVE-III)	of the process, wor rocess instrumenta organizations and nent and technical vare project manag	kflows, tion. perspective. ement.		
2 3 4 5 <b>Course</b> Outcome	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project is minor milestones, artifacts and metrics for management ict using conventional and modern principles of softwork Subject Name (Subject Code) COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547)	of the process, wor rocess instrumenta organizations and nent and technical j vare project manag <b>No. of Hours</b>	kflows, tion. perspective. ement.		
2 3 4 5 Course Outcome	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this course	ect control and process instrumentation. conomics, software development life cycle, artifacts or rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management act using conventional and modern principles of softwork Subject Name (Subject Code) COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) e, the students should be able to	of the process, wor rocess instrumenta organizations and hent and technical vare project manag No. of Hours L: 4 T:0 P: 0	kflows, tion. perspective. ement.		
2 3 4 5 Course Outcome	Gain knowledge of so organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this courss Get overview on appli	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management act using conventional and modern principles of softwork Subject Name (Subject Code) COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) e, the students should be able to cations areas of Computer Graphics, Graphic devices	of the process, wor rocess instrumenta organizations and nent and technical pare project manag No. of Hours L: 4 T:0 P: 0 and Monitors.	kflows, tion. perspective. ement. Credits:4		
2 3 4 5 Course Outcome	Gain knowledge of so organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this courss Get overview on appli Learn about basic tool	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- are development approach. Compare various project I minor milestones, artifacts and metrics for management act using conventional and modern principles of softwork Subject Name (Subject Code) COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) e, the students should be able to cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method	of the process, wor rocess instrumenta organizations and nent and technical pare project manag No. of Hours L: 4 T:0 P: 0 and Monitors. s for performing g	kflows, tion. perspective. ement. Credits:4 eometric		
2 3 4 5 <b>Course</b> Outcome <u>after the co</u> 1 2	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this courss Get overview on appli Learn about basic tool transformations i.e 2-I	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management act using conventional and modern principles of softword <b>Subject Name (Subject Code)</b> COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) <b>e, the students should be able to</b> cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:articles	of the process, wor rocess instrumenta organizations and nent and technical p vare project manag <b>No. of Hours</b> <b>L: 4 T:0 P: 0</b> and Monitors. s for performing g ray patterns, and te	kflows, tion. perspective. ement. Credits:4 eometric ext.		
2 3 4 5 Course Outcome	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this cours Get overview on appli Learn about basic tool transformations i.e 2-I Learn about various su	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project minor milestones, artifacts and metrics for management to using conventional and modern principles of softwork <b>Subject Name (Subject Code)</b> COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) <b>e, the students should be able to</b> cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:arri urface functions such as quadrics, polygon surfaces, su	of the process, wor rocess instrumenta organizations and nent and technical p vare project manag <b>No. of Hours</b> <b>L: 4 T:0 P: 0</b> and Monitors. s for performing g ray patterns, and te	kflows, tion. perspective. ement. Credits:4 eometric ext.		
2 3 4 5 <b>Course</b> <b>Outcome</b> 1 2 3	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this courss Get overview on appli Learn about basic tool transformations i.e 2-I Learn about various su objects and 3-Dimensi	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management ict using conventional and modern principles of softwork Subject Name (Subject Code) COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) e, the students should be able to cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:arr irface functions such as quadrics, polygon surfaces, su constructions in computer graphics.	of the process, wor rocess instrumenta organizations and hent and technical vare project manag <b>No. of Hours</b> L: 4 T:0 P: 0 and Monitors. s for performing g ray patterns, and technical uper quadrics, splin	kflows, tion. perspective. ement. Credits:4 eometric ext. nes or blobby		
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2 3 4 5 <b>Course</b> <b>Outcome</b> 1 2 3 4	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this course Get overview on appli Learn about basic tool transformations i.e 2-I Learn about various su objects and 3-Dimensi Describe the importan displays, detecting visi	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management and conventional and modern principles of softworther <b>Subject Name (Subject Code)</b> COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) <b>e, the students should be able to</b> cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:arti- urface functions such as quadrics, polygon surfaces, such ions transformations in computer graphics. ce of viewing. Learn major considerations in the generic ible surfaces in a 3-Dimension scene and designing and the students and the subject such as the structure of the surfaces in the such as	of the process, wor rocess instrumenta organizations and nent and technical pare project manag No. of Hours L: 4 T:0 P: 0 and Monitors. s for performing g ray patterns, and te uper quadrics, splin eration of realistic p nimation sequence	kflows, tion. perspective. ement. Credits:4 eometric ext. nes or blobby graphic		
2 3 4 5 <b>Course</b> <b>Outcome</b> <u>1</u> 2 3	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this course Get overview on appli Learn about basic tool transformations i.e 2-I Learn about various su objects and 3-Dimensi Describe the importan displays, detecting visi	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management ict using conventional and modern principles of softword <b>Subject Name (Subject Code)</b> COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) <b>e, the students should be able to</b> cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:arti- raface functions such as quadrics, polygon surfaces, su ions transformations in computer graphics. ce of viewing. Learn major considerations in the generic constructions in the generic constructions in the generic extensional curves in the generic constructions in the generic construction	of the process, wor rocess instrumenta organizations and nent and technical pare project manage No. of Hours L: 4 T:0 P: 0 and Monitors. s for performing g ray patterns, and te uper quadrics, splin eration of realistic nimation sequence of animations	kflows, tion. perspective. ement. Credits:4 eometric ext. nes or blobby graphic		
2 3 4 5 Course Outcome After the co 1 2 3 4 5	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right softw responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this courss Get overview on appli Learn about basic tool transformations i.e 2-I Learn about various su objects and 3-Dimensi Describe the importan displays, detecting visi	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management to using conventional and modern principles of softword <b>Subject Name (Subject Code)</b> COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) <b>e, the students should be able to</b> cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:arr inface functions such as quadrics, polygon surfaces, such to stransformations in computer graphics. ce of viewing. Learn major considerations in the generic ible surfaces in a 3-Dimension scene and designing and and so f computer Graphics. Analyze the fundamentals of the surface such as the surface such as the surface such as the surface such as the su	of the process, wor rocess instrumenta organizations and nent and technical pare project manage No. of Hours L: 4 T:0 P: 0 and Monitors. s for performing g ray patterns, and te uper quadrics, splin eration of realistic mimation sequence of animations No. of Hours	kflows, tion. perspective. ement. Credits:4 eometric ext. nes or blobby graphic s.		
2 3 4 5 <b>Course</b> <b>Outcome</b> After the co 1 2 3 4	Gain knowledge of sol organization, and proje Summarize software e checkpoints, project or Choose the right software responsibilities. Analyze the major and Design software produ Year / semester IV/I Sem mpletion of this course Get overview on appli Learn about basic tool transformations i.e 2-I Learn about various su objects and 3-Dimensi Describe the importan displays, detecting viss Discuss the application Year / semester S	ect control and process instrumentation. conomics, software development life cycle, artifacts of rganization and responsibilities, project control and pro- vare development approach. Compare various project I minor milestones, artifacts and metrics for management and conventional and modern principles of softwords <b>Subject Name (Subject Code)</b> COMPUTER GRAPHICS(CSE ELECTIVE-III) (A9547) <b>e, the students should be able to</b> cations areas of Computer Graphics, Graphic devices s for constructing pictures with straight lines, method Dimensional, curves, filled area, celNo. of Hours L:arti- urface functions such as quadrics, polygon surfaces, such to such as formations in computer graphics. ce of viewing. Learn major considerations in the generic ible surfaces in a 3-Dimension scene and designing and the surface such as the such as the surface set of the surfaces in the generic table surfaces in a 3-Dimension scene and designing and the surfaces in a 3-Dimension scene and designing and table surfaces in a 3-Dimension scene and table scene	of the process, wor rocess instrumenta organizations and nent and technical pare project manage No. of Hours L: 4 T:0 P: 0 and Monitors. s for performing g ray patterns, and te uper quadrics, splin eration of realistic nimation sequence of animations	kflows, tion. perspective. ement. Credits:4 eometric ext. nes or blobby graphic		



2       Evaluate sample distributed systems.         3       Examine state-of-the-art distributed systems, such as Google File System.         4       Explain various architectures used to design distributed systems, such as clienT:server and peer-to         5       Learn basics of CORBA, RMI. Implement Digital signatures on projects.         Course       Year / semester       Subject Name (Subject Code)       No. of Hours       Cr         1       Compare and contrast various database security models.       Implement Digital signatures projects.       To opticate the completion of this course, the students should be able to         2       Implement the security techniques for distributed database such as diffication and ensure the data confid         3       Define, develop and analyze an interesting database security related research project.         4       Design flaws and programming bugs in database and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Outcome       Sem       Subject Name (Subject Code)       No. of Hours       L: 3 T: 0 P: 0         1       Perceive the fundamentals of Nanotechnology       No. of Hours       L: 3 T: 0 P: 0         2       Know the different classes of nano materials       Subject Name (Subject Code)       No. of Hours       L: 3 T: 0 P: 0         3       Impart bas	Demonstrate knowledge of the basic elements and concepts related to distributed system technologies.				
4         Explain various architectures used to design distributed systems, such as clienT:server and peer-ters           4         Explain various architectures used to design distributed systems, such as clienT:server and peer-ters           5         Learn basics of CORBA, RMI. Implement Digital signatures on projects.           Coursee         Year / semester         Subject Name (Subject Code)         No. of Hours         Cr           0         Compare and contrast various database security models.         Incompare and contrast various database security models.         Incompare and contrast various database security models.         Subject Name (Subject Code)         No. of Hours         No. of Hours           3         Define, develop and analyze an interesting database security related research project.         A Design flaws and programming bugs in databases and the associated programs and systems.         So flow of thours           5         Prevent unauthorized data observation, unauthorized data modification and ensure the data confid (A3330)         No. of Hours         L: 3 T: 0 P: 0         No. of Hours           6         Year / semester         Subject Name (Subject Code)         No. of Hours         L: 3 T: 0 P: 0           7         Precive the fundamentals of Nanotechnology         I. ANO TECHNOLOGY (OPEN ELECTIVE-II)         No. of Hours           6         They art / semester         Subject Name (Subject Code)         No. of Hours         I: 3 T: 0 P: 0	Apply important methods in distributed systems to support scalability and fault tolerance. Design and Evaluate sample distributed systems.				
S         Learn basics of CORBA, RMI. Implement Digital signatures on projects.           Course Outcome         Year / semester         Subject Name (Subject Code)         No. of Hours L: 4 T: 0 P: 0         Cr           1         Compare and contrast various database security models.         Implement the security techniques for distributed database systems. Implement Digital signatures projects.         1         Compare and contrast various database security related research project.           2         Define, develop and analyze an interesting database security related research project.         0           4         Design flaws and programming bugs in databases and the associated programs and systems.         5           5         Prevent unauthorized data observation, unauthorized data modification and ensure the data confid NANO TECHNOLOGY (OPEN ELECTIVE-II)         No. of Hours L: 3 T: 0 P: 0           6         Subject Name (Subject Code)         No. of Hours L: 3 T: 0 P: 0           7         Kear / semester         IVI NA330)         No. of Hours L: 3 T: 0 P: 0           9         Know the different classes of nano materials         No. of Hours L: 3 T: 0 P: 0         No. of Hours L: 3 T: 0 P: 0           9         Kear / semester         Subject Name (Subject Code) ENTREPRENEURSHIP DEVELOPMENT (OPEN L: 3 T: 0 P: 0         No. of Hours L: 3 T: 0 P: 0           1         Define the nature and Qualities of Entrepreneur and relate to types of ownership.         No. of Hours L:	Examine state-of-the-art distributed systems, such as Google File System.				
S         Learn basics of CORBA, RMI. Implement Digital signatures on projects.           Course Outcome         Year / semester (VI Sem         Subject Name (Subject Code) DATABASE SECURITY (A9561)         No. of Hours L: 4 T: 0 P: 0         Cr           1         Compare and contrast various database security models.         Implement the security techniques for distributed database systems. Implement Digital signatures projects.         1         Compare and contrast various database security related research project.           3         Define, develop and analyze an interesting database security related research project.         0           4         Design flaws and programming bugs in databases and the associated programs and systems.         5           5         Prevent unauthorized data observation, unauthorized data modification and ensure the data confid NANO TECHNOLOGY (OPEN ELECTIVE-II)         No. of Hours L: 3 T: 0 P: 0           6         Sem         Subject Name (Subject Code) NANO TECHNOLOGY (OPEN ELECTIVE-II)         No. of Hours L: 3 T: 0 P: 0           1         Perceive the fundamentals of Nanotechnology         No. of Hours L: 3 T: 0 P: 0         No. of Hours L: 3 T: 0 P: 0           2         Know the different classes of nano materials         No. of Hours L: 3 T: 0 P: 0         No. of Hours L: 3 T: 0 P: 0           3         Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology         No. of Hours L: 3 T: 0 P: 0           4	Explain various architectures used to design distributed systems, such as clienT:server and peer-to-peer.				
Control       Fear / sentester       Studget / staffe (Sudget Code)       L: 4 T: 0 P: 0         1       Compare and contrast various database security models.       Implement the security techniques for distributed database systems. Implement Digital signatures projects.         3       Define, develop and analyze an interesting database security related research project.         4       Design flaws and programming bugs in databases and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Course       Year / semester IV/I       Subject Name (Subject Code) NAN O TECHNOLOGY (OPEN ELECTIVE-II)       No. of Hours         1       Perceive the fundamentals of Nanotechnology       L: 3 T: 0 P: 0       No. of Hours         2       Know the different classes of nano materials       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotec         4       Make the learner familiarize with nanotechnology potentialities.       No. of Hours         2       Know the different classes of nano materials       Subject Name (Subject Code)       No. of Hours         3       Impart basic knowledge on warket scope and Imitation strategies.       Stope the students should be able to         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       Year / semester         2       What are					
Content       IV/I Sem       IV/I APACKS SEC URL IT (A9561)         fter the completion of this course, the students should be able to       Implement the security techniques for distributed database systems. Implement Digital signatures projects.         3       Define, develop and analyze an interesting database security related research project.         4       Design flaws and programming bugs in databases and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Course       Year / semester IV/I Sem       Subject Name (Subject Code) No. of Hours L. 3 T: 0 P: 0         ANO TECHNOLOGY (OPEN ELECTIVE-II)       No. of Hours L. 3 T: 0 P: 0       I. 3 T: 0 P: 0         fter the completion of this course, the students should be able to       I. 3 T: 0 P: 0       I. 3 T: 0 P: 0         1       Perceive the fundamentals of Nanotechnology       I. 3 T: 0 P: 0       No. of Hours L. 3 T: 0 P: 0         2       Know the different classes of nano materials       Subject Name (Subject Code) ELECTIVE-II)       No. of Hours L. 3 T: 0 P: 0         3       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology potentialities.       Subject Name (Subject Code) ELECTIVE-II) (A9624)       No. of Hours L. 3 T: 0 P: 0         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       Define the nature and Qualities of Entrepreneur	redits:4				
1       Compare and contrast various database security models.         2       Implement the security techniques for distributed database systems. Implement Digital signatures projects.         3       Define, develop and analyze an interesting database security related research project.         4       Design flaws and programming bugs in databases and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Coursee       Year / semester IV/I       Subject Name (Subject Code) NANO TECHNOLOGY (OPEN ELECTIVE-II) (A9330)       No. of Hours L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       No. of Hours L: 3 T: 0 P: 0         1       Perceive the fundamentals of Nanotechnology       No. of Hours L: 3 T: 0 P: 0         2       Know the different classes of nano materials       No. of Hours Subject Name (Subject Code) EVELOPMENT (OPEN ELECTIVE-II) (A9624)       No. of Hours L: 3 T: 0 P: 0         4       Make the learner familiarize with nanotechnology potentialities.       No. of Hours L: 3 T: 0 P: 0         2       What are risk Reduction, market scope and Imitation strategies.       No. of Hours L: 3 T: 0 P: 0         2       What are risk Reduction, market scope and Imitation strategies.       Subject Name (Subject Code) EVECOPMENT (OPEN EVELOPMENT (OPEN         2       What are risk Reduction, s					
2       Implement the security techniques for distributed database systems. Implement Digital signatures projects.         3       Define, develop and analyze an interesting database security related research project.         4       Design flaws and programming bugs in databases and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) NANO TECHNOLOGY (OPEN ELECTIVE-II) (J. 3 T: 0 P: 0         1       Perceive the fundamentals of Nanotechnology       L: 3 T: 0 P: 0         2       Know the different classes of nano materials       No. of Hours L: 3 T: 0 P: 0         3       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology potentialities.         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) ENTREPRENEURSHIP DEVELOPMENT (OPEN L: 3 T: 0 P: 0         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       No. of Hours L: 3 T: 0 P: 0         2       What are risk Reduction, market scope and Initiation strategies.       Subject Name (Subject Code) TELECTIVE-II) (A9624)         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       No. of Hours L: 3 T: 0 P: 0         2       What are risk Reduction, market scope and Initiation strategies.       Sub					
3       Define, develop and analyze an interesting database security related research project.         4       Design flaws and programming bugs in databases and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Course       Year / semester IV/I       Subject Name (Subject Code) (A9330)       No. of Hours L: 3 T: 0 P: 0         6       Sem       No. of Hours (A9330)       No. of Hours (A9330)         7       Ferceive the fundamentals of Nanotechnology       No. of Hours L: 3 T: 0 P: 0         2       Know the different classes of nano materials       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology potentialities.         2       Know the different classes of nano materials       No. of Hours Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology potentialities.         6       Vear / semester IV/I Sem       Subject Name (Subject Code) ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-ID (A9624)         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.         2       What are risk Reduction, market scope and Imitation strategies.         3       Explain the legal regulations system and IPRs and summarize the source of finance from differen institutions.         4       Identify the needs of business ethics and develop the principles.	s on				
4       Design flaws and programming bugs in databases and the associated programs and systems.         5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid No. of Hours Utamathorized of the students should be able to       No. of Hours L: 3 T: 0 P: 0         6       Subject Name (Subject Code) NANO TECHNOLOGY (OPEN ELECTIVE-II) (A9330)       No. of Hours L: 3 T: 0 P: 0         7       Subject Name (Subject Code) (A9330)       No. of Hours L: 3 T: 0 P: 0         7       Make the completion of this course, the students should be able to       1         9       Perceive the fundamentals of Nanotechnology 0       No. of Hours L: 3 T: 0 P: 0         4       Make the learner familiarize with nanotechnology potentialities.       No. of Hours ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-II) (A9624)         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       No. of Hours ELECTIVE-II) (A9624)         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       No. of Hours Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         3       Explain the legal regulations system and develop the principles.       Subject Name (Subject Code)         4       Identify the needs of business ethics and develop the principles.       No. of Hours L: 3 T: 0 P: 0         5       Evaluate the issues of corporate governance and interpret the gu					
5       Prevent unauthorized data observation, unauthorized data modification and ensure the data confid         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) NANO TECHNOLOGY (OPEN ELECTIVE-II) (A9330)       No. of Hours L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       1       Perceive the fundamentals of Nanotechnology         2       Know the different classes of nano materials       3       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology potentialities.         4       Make the learner familiarize with nanotechnology potentialities.       No. of Hours L: 3 T: 0 P: 0         6       Subject Name (Subject Code) ELECTIVE-II) (A9624)       No. of Hours L: 3 T: 0 P: 0         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       2         2       What are risk Reduction, market scope and Imitation strategies.       5         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.       4         4       Identify the needs of business ethics and develop the principles.       5         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics       No. of Hours L: 3 T: 0 P: 0         1       Perceive the main concepts of telecommunication network design.					
Course Outcome         Year / semester IV/I Sem         Subject Name (Subject Code) NANO TECHNOLOGY (OPEN ELECTIVE-II) (A9330)         No. of Hours L: 3 T: 0 P: 0           fter the completion of this course, the students should be able to         1         Perceive the fundamentals of Nanotechnology           2         Know the different classes of nano materials         1         Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology           3         Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology potentialities.         No. of Hours ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-II) (A9624)           fter the completion of this course, the students should be able to         1         Define the nature and Qualities of Entrepreneur and relate to types of ownership.           2         What are risk Reduction, market scope and Imitation strategies.         3           3         Explain the legal regulations system and IPRs and summarize the source of finance from differen institutions.           4         Identify the needs of business ethics and develop the principles.         No. of Hours           5         Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         No. of Hours           1         Perceive the main concepts of telecommunicating network design.         1: 3 T: 0 P: 0           5         Relate adequate knowledge about telecom	dential				
1       Perceive the fundamentals of Nanotechnology         2       Know the different classes of nano materials         3       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotec         4       Make the learner familiarize with nanotechnology potentialities.         Course Outcome       Year / semester       Subject Name (Subject Code)       No. of Hours         EVTREPRENEURSHIP DEVELOPMENT (OPEN       ELECTIVE-II) (A9624)       L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       ELECTIVE-II) (A9624)         2       What are risk Reduction, market scope and Imitation strategies.         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         7       TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)         fter the completion of this course, the students should be able to         1       Perceive the main concepts of telecommunication network         3       Analyze and evaluate fundamental telecommunication network         4       Conclude themselves through the evolution of switching systems from manual and electromechar s	Credits:3				
1       Perceive the fundamentals of Nanotechnology         2       Know the different classes of nano materials         3       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotec         4       Make the learner familiarize with nanotechnology potentialities.         Course Outcome       Year / semester       Subject Name (Subject Code)       No. of Hours         EVENTREPRENEURSHIP DEVELOPMENT (OPEN       L: 3 T: 0 P: 0       L: 3 T: 0 P: 0         start for the completion of this course, the students should be able to       L: 3 T: 0 P: 0         2       What are risk Reduction, market scope and Imitation strategies.         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         No. of Hours Liser V/I Sem         1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication network         4       Identify the needs of business ethics and develop the principles.         5       Relate adeq					
2       Know the different classes of nano materials         3       Impart basic knowledge on various synthesis and characterization techniques involved in Nanotec         4       Make the learner familiarize with nanotechnology potentialities.         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-II) (A9624)       No. of Hours L: 3 T: 0 P: 0         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       2         2       What are risk Reduction, market scope and Imitation strategies.       3         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         6       No. of Hours L: 3 T: 0 P: 0         7       TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)         7       Fter the completion of this course, the students should be able to         1       Perceive the main concepts of telecommunication network         3       Analyze and evaluate fundamental telecommunication network         4       Analyze and evaluate fundamental telecommunication traffic models.         4					
4       Make the learner familiarize with nanotechnology potentialities.         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-II) (A9624)       No. of Hours L: 3 T: 0 P: 0         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.       2         2       What are risk Reduction, market scope and Imitation strategies.       3         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)       No. of Hours L: 3 T: 0 P: 0         1       Perceive the main concepts of telecommunicating network design.       2         2       Relate adequate knowledge about telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.       5         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching NDUSTRY ORIENTED MINI PROJECT       No. of Hours L: 0 T: 0 P: 0 <td></td>					
Course Outcome         Year / semester IV/I Sem         Subject Name (Subject Code) ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-II) (A9624)         No. of Hours L: 3 T: 0 P: 0           fter the completion of this course, the students should be able to         1         Define the nature and Qualities of Entrepreneur and relate to types of ownership.         2           2         What are risk Reduction, market scope and Imitation strategies.         3         Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.           4         Identify the needs of business ethics and develop the principles.         5           5         Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics           Course Outcome         Year / semester IV/I Sem         Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)         No. of Hours L: 3 T: 0 P: 0           1         Perceive the main concepts of telecommunicating network design.         2           2         Relate adequate knowledge about telecommunication traffic models.         Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.           5         Apply the knowledge of basic modern signaling system. Examine the concept of packet switching NO. of Hours L: 0 T: 0 P: 0	chnology				
Course Outcome       Year / semester IV/I Sem       ENTREPRENEURSHIP DEVELOPMENT (OPEN ELECTIVE-II) (A9624)       L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.         2       What are risk Reduction, market scope and Imitation strategies.         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         6       Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)         fter the completion of this course, the students should be able to       No. of Hours L: 3 T: 0 P: 0         1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching INDUSTRY ORIENTED MINI PROJECT       No. of Hours L: 0 T: 0 P: 0					
fter the completion of this course, the students should be able to         1       Define the nature and Qualities of Entrepreneur and relate to types of ownership.         2       What are risk Reduction, market scope and Imitation strategies.         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         No. of Hours IVI Sem         Vigear / semester IV/I Sem         Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II ) (A9624)         fter the completion of this course, the students should be able to         1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching INDUSTRY ORIENTED MINI PROJECT	Credits:3				
2       What are risk Reduction, market scope and Imitation strategies.         3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         No. of Hours responsibility and improve professional ethics         Vear / semester IV/I Sem         Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)         1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching INDUSTRY ORIENTED MINI PROJECT         0       No. of Hours I. 0 T: 0 P: 0					
3       Explain the legal regulations system and IPRs and summarize the source of finance from different institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         No. of Hours Elaborate the concept of responsibility and improve professional ethics         Outcome         Vear / semester IV/I Sem         Subject Name (Subject Code)         No. of Hours I         TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II ) (A9624)         fter the completion of this course, the students should be able to         1       Perceive the main concepts of telecommunication network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching INDUSTRY ORIENTED MINI PROJECT         0       Identify the system       Identify the system         4       Subject Name (Subject Code) INDUSTRY ORIENTED MINI PROJECT       No. of H					
3       institutions.         4       Identify the needs of business ethics and develop the principles.         5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         Course Outcome       Year / semester IV/I Sem         Subject Name (Subject Code)       No. of Hours         TELECOMMUNICATIONS & SWITCHING       L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       No. of Hours         1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Coursee       Year / semester         Subject Name (Subject Code)       No. of Hours         L: 0 T: 0 P: 0       Industry oriented mini project					
5       Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of responsibility and improve professional ethics         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II ) (A9624)       No. of Hours L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network       3         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching L: 0 T: 0 P: 0         Outcome       IV/I Sem	nt				
5       responsibility and improve professional ethics         Course Outcome       Year / semester IV/I Sem       Subject Name (Subject Code) TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II ) (A9624)       No. of Hours L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       Perceive the main concepts of telecommunicating network design.       Vertice         1       Perceive the main concepts of telecommunication network       4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Coursee       Year / semester       Subject Name (Subject Code) INDUSTRY ORIENTED MINI PROJECT       No. of Hours L: 0 T:0 P:0					
Course Outcome       Year / semester IV/I Sem       TELECOMMUNICATIONS & SWITCHING NETWORKS (OPEN ELECTIVE-II) (A9624)       L: 3 T: 0 P: 0         fter the completion of this course, the students should be able to       Image: Course of the students should be able to       Image: Course of the students should be able to         1       Perceive the main concepts of telecommunicating network design.       Image: Course of telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.       Image: Course of telecommunication of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching the image of basic modern signaling system. Examine the concept of packet switching to the swit	Evaluate the issues of corporate governance and interpret the guidelines. Elaborate the concept of social				
1       Perceive the main concepts of telecommunicating network design.         2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Course       Year / semester         Subject Name (Subject Code)       No. of Hours         INDUSTRY ORIENTED MINI PROJECT       L: 0 T:0 P:0	Credits:3				
2       Relate adequate knowledge about telecommunication network         3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Course       Year / semester         Subject Name (Subject Code)       No. of Hours         L: 0 T:0 P:0					
3       Analyze and evaluate fundamental telecommunication traffic models.         4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Course       Year / semester         Subject Name (Subject Code)       No. of Hours         L: 0 T:0 P:0					
4       Conclude themselves through the evolution of switching systems from manual and electromechar systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Course       Year / semester         Subject Name (Subject Code)       No. of Hours         L: 0 T:0 P:0       L: 0 T:0 P:0					
4       systems to stored-program-controlled digital systems.         5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         No. of Hours         Course         Year / semester       Subject Name (Subject Code)         INDUSTRY ORIENTED MINI PROJECT       L: 0 T:0 P:0					
5       Apply the knowledge of basic modern signaling system. Examine the concept of packet switching         Course       Year / semester         Subject Name (Subject Code)       No. of Hours         INDUSTRY ORIENTED MINI PROJECT       L: 0 T:0 P:0					
Course     Year / semester     Subject Name (Subject Code) INDUSTRY ORIENTED MINI PROJECT     No. of Hours L: 0 T:0 P:0	σ				
Outcome IV/I Som INDUSTRY ORIENTED WINTPROJECT	Credits:2				
fter the completion of this course, the students should be able to					



2	Droporo o toobnicol ro	port based on the Mini project			
3	Prepare a technical report based on the Mini project. Develop effective communication skills for presentation of mini project related activities				
<u> </u>	Develop effective communication skills for presentation of mini project related activities Demonstrate technical seminar based on the Mini Project work carried out.				
4	Demonstrate technica	al seminar based on the Mini Project work carried out.	NI CIT		
Course Outcome	IV/I Som	Subject Name (Subject Code) NETWORK SECURITY & CRYPTOGRAPHY LAB	No. of Hours L: 0 T:0 P:3	Credits:2	
outcome		(A9549)			
After the co	-	se, the students should be able to			
1	Implement the cipher techniques.				
2	Apply the mathematical foundation required for various cryptographic algorithms.				
3	Develop the various s				
4	Use different open so	burce tools for network security and analysis.			
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:2	
Outcome	IV/I Sem	WEB TECHNOLOGIES LAB-II (A9550)	L: 0 T:0 P:3		
After the co		se, the students should be able to	I	I	
1		echnologies concepts such as PHP, Java Servlets and JS	SP.		
2		semantics of PHP, Servlet, JSP programming.			
3		ic and dynamic web applications.			
4	-	r web applications and Design a fully functional web ap	oplication using Pl	HP, Java	
Course	-	Subject Name (Subject Code)	No. of Hours	Credits:4	
Outcome	Year / semester IV/II Sem	INTERNET OF THINGS (A9551)	L: 4 T:0 P: 0		
After the co		se, the students should be able to			
1		f IOT from a global context.			
2	Perceive building blo	cks of Internet of Things and its characteristics.			
3	Learn the basic conce	epts of Python. Implement the python programming usi	ng Raspberry.		
4	Perceive the application	ion areas of IOT. Realize the revolution of Internet in N	Iobile Devices, C	loud &	
	Sensor Networks				
5	Determine the Marke	et perspective of IOT. Develop Python web applications	s and cloud server	s for IOT.	
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4	
Outcome	IV/II Sem	INTERNET TECHNOLOGIES ( CSE Elective- IV) (A9552)	L: 4 T:0 P: 0		
After the co	mpletion of this cour	se, the students should be able to		L	
1	Explain the syntax an	nd semantics of C# and ASP.NET using Visual Studio .	NET platform.		
2	Illustrate the use of a	rrays, parameters mechanisms, properties, generics, and	d collections in C#	ŧ.	
3	Explain concept of cu	istom interfaces by designing C# applications.			
4		e builT:in interfaces in building complex applications.			
5		query in-memory data and define own operator behavio	r. Develop stand a	lone and	
	graphical user interface applications on .NET.				
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:4	
Outcome	IV/II Sem	SERVICE ORIENTED ARCHITECTURE (	L: 4 T:0 P: 0		
		CSE Elective-IV)(A9553)			
After the ee	mpletion of this cour	se, the students should be able to		<u> </u>	
After the co	Define SOAP Message Structure, SOAP Encoding, and Encoding of different data types.				
Arter the co	Define SOAP Messa	Perceive the implement Web Services life cycle, Anatomy of WSDL definition document.			
1		e e	<b>7</b> 1		
1 2	Perceive the impleme	ent Web Services life cycle, Anatomy of WSDL definit	ion document.	ata structures	
1 2 3	Perceive the impleme Describe WSDL bind	ent Web Services life cycle, Anatomy of WSDL definit lings and tools. Working with UDDI, programming wit	ion document.	ata structures	
1 2 3 4	Perceive the implement Describe WSDL bind Apply Publishing, set	ent Web Services life cycle, Anatomy of WSDL definit lings and tools. Working with UDDI, programming wit arching and deleting information in a UDDI Registry	ion document. h UDDI, UDDI d		
1 2 3	Perceive the implement Describe WSDL bind Apply Publishing, sea Develop an Understa	ent Web Services life cycle, Anatomy of WSDL definit lings and tools. Working with UDDI, programming wit arching and deleting information in a UDDI Registry nding about Service Oriented Analysis, Service Oriented	ion document. h UDDI, UDDI d		
$ \begin{array}{r} 1\\ 2\\ 3\\ 4\\ 5 \end{array} $	Perceive the implement Describe WSDL bind Apply Publishing, sea Develop an Understa basics. Perceive the c	ent Web Services life cycle, Anatomy of WSDL definit lings and tools. Working with UDDI, programming wit arching and deleting information in a UDDI Registry nding about Service Oriented Analysis, Service Oriented overview of WS-Coordination.	ion document. h UDDI, UDDI d ed Design, WS-BP	EL language	
1 2 3 4	Perceive the implement Describe WSDL bind Apply Publishing, sea Develop an Understa	ent Web Services life cycle, Anatomy of WSDL definit lings and tools. Working with UDDI, programming wit arching and deleting information in a UDDI Registry nding about Service Oriented Analysis, Service Oriente overview of WS-Coordination. Subject Name (Subject Code) INFORMATION RETRIEVAL SYSTEMS (	ion document. h UDDI, UDDI d		
1 2 3 4 5 <b>Course</b> Outcome	Perceive the implement Describe WSDL bind Apply Publishing, sea Develop an Understa basics. Perceive the of Year / semester IV/II Sem	ent Web Services life cycle, Anatomy of WSDL definit lings and tools. Working with UDDI, programming wit arching and deleting information in a UDDI Registry nding about Service Oriented Analysis, Service Oriente overview of WS-Coordination. Subject Name (Subject Code)	ion document. h UDDI, UDDI d ed Design, WS-BP No. of Hours	EL language	



	Davialon on Underste	unding on Delevence feedback Decreasion Analysis T	haaan		
$\frac{2}{3}$	Develop an Understanding on Relevance feedback, Regression Analysis, Thesauri.				
-	Perceive the applications of clustering. Apply various Retrieval Utilities for Information Retrieval				
4	Develop an Understanding about Signature files, Duplicate document detection.				
5	distributed retrieval	to locate relevant information large collection of data. web search.		of	
Course Outcome	Year / semester IV/II Sem	Subject Name (Subject Code) COMPUTER FORENSICS (CSE Elective-IV) (A9555)	No. of Hours L: 4 T:0 P: 0	Credits:4	
		(A9555)			
fter the co	mpletion of this cour	rse, the students should be able to			
1	Understand the definition of computer forensics fundamentals.				
2		f computer forensics technology. Analyze various com		ems	
3	Illustrate the method	s for data recovery, evidence collection and data seizur	re.		
4	Summarize duplicati forensics tools	on and preservation of digital evidence. Evaluate the e	ffectiveness of avai	lable digital	
5	Employ fundamental	computer theory in the context of computer forensics	practices.		
Course Outcome	Year / semester IV/II Sem	Subject Name (Subject Code) MACHINE LEARNING (CSE ELECTIVE-IV)	No. of Hours L: 4 T: 0 P: 0	Credits:4	
		(A9563)			
fter the co	-	rse, the students should be able to			
1		nderlying machine learning.			
2	Learn beyond binary				
3	0	ement various genetic algorithms.			
4		to learn tree, to learn linear, non-linear models and ru	le-based models		
5	Implement Probabilis	stic models. Learn basics of reinforcement learning.			
Course Outcome	Year / semester IV/II Sem	Subject Name (Subject Code) ADHOC AND SENSOR NETWORKS (CSE	No. of Hours L: 4 T: 0 P: 0	Credits:4	
		ELECTIVE-IV) (A9564)			
fter the co	mpletion of this cour	se, the students should be able to			
	Perceive the concept of mobile computing. Estimate the MAC protocols for GSM and wireless LANs				
1			r GSM and wireless	s LANs	
1 2	Demonstrate new ad	hoc network applications and algorithms or protocols.			
-	Demonstrate new ad				
2	Demonstrate new ad Compare the differer devices.	hoc network applications and algorithms or protocols.	bian OS, Linux for	Mobile	
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2 3 4 5 <b>Course</b> Outcome fter the co 1 2 3 4 5 6 7 8 <b>Course</b> 0utcome	Demonstrate new ad Compare the differer devices. Explain the basic cor Classify the design is wsn layer protocols a Year / semester IV/II Sem mpletion of this cour Identifies, understand Explain the role of se Describe the behavio Gain knowledge of fa Practice finding relev Develop articles and Develop the interpers Present features of th Year / semester IV/II Sem	hoc network applications and algorithms or protocols. In operating Systems like Palm OS, Windows CE, Symmetry of WIRELESS networks and challenges of adhor- sourcepts of WIRELESS networks and challenges of adhor- source and different categories of MAC protocols. Discur- and QoS related performance measurements <b>Subject Name (Subject Code)</b> <b>SEMINAR (A9556)</b> <b>rse, the students should be able to</b> d and discuss current, real -world issues elf-efficacy, personal goals, and motivation in improvin- ors and characteristics of an effective learner ast and rapidly changing by self learning want course material on the Internet and incorporate the presentation skills sonal skills, soft skills and creativity. The developed project to the targeted group through writt <b>Subject Name (Subject Code)</b> <b>COMPREHENSIVE VIVA (A9557)</b>	bian OS, Linux for oc and sensor netwo ass the sensor chara No. of Hours L: 0 T: 0 P:3 ng academic life em in their courses. ten and oral commu No. of Hours	Mobile rks cteristics, Credits:4 unication.	
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2 3 4 5 <b>Course</b> <b>Outcome</b> After the co 1 2 3 4 5 6 7 8 <b>Course</b> <b>Outcome</b> <b>After the co</b>	Demonstrate new ad Compare the differer devices. Explain the basic cor Classify the design is wsn layer protocols a Year / semester IV/II Sem Identifies, understand Explain the role of se Describe the behavio Gain knowledge of fa Practice finding relev Develop articles and Develop the interpers Present features of th Year / semester IV/II Sem mpletion of this cour Articulate knowledge Recalls to answer qu	hoc network applications and algorithms or protocols. In operating Systems like Palm OS, Windows CE, Syme incepts of WIRELESS networks and challenges of adhor- ssues and different categories of MAC protocols. Discu- and QoS related performance measurements Subject Name (Subject Code) SEMINAR (A9556) rse, the students should be able to d and discuss current, real -world issues Elf-efficacy, personal goals, and motivation in improvin- ors and characteristics of an effective learner ast and rapidly changing by self learning vant course material on the Internet and incorporate the presentation skills sonal skills, soft skills and creativity. the developed project to the targeted group through writt Subject Name (Subject Code) COMPREHENSIVE VIVA (A9557) rse, the students should be able to	bian OS, Linux for oc and sensor netwo iss the sensor chara No. of Hours L: 0 T: 0 P:3 ng academic life em in their courses. ten and oral commu No. of Hours L: 0 T: 0 P:0	Mobile rks cteristics, Credits:4	



5	Gain confidence.				
6	Inter-personal skills.				
7	Prepare the students to face interview at the academic level				
8	Prepare the students to face interview at the industrial level.				
Course Outcome	Year / semester IV/II Sem	Subject Name (Subject Code) MAJOR PROJECT (A9558)	No. of Hours L: 0 T: 0 P:15	Credits:8	
After the co		rrse, the students should be able to			
1	Uses fundamental knowledge and skills in engineering and apply it effectively on a project.				
2	Apply knowledge of the 'real world' situations that a professional engineer can encounter.				
3	Apply critical and creative thinking in the design of software, Hardware and Networking projects.				
4	As a team student can organise, record and compile their work done throughout the project in an efficient manner.				
5	Manage any disputes and conflicts within and outside their team.				
6	Demonstrate a sound technical knowledge of their selected project topic.				
7	Demonstrate the knowledge, skills and attitudes of a professional engineer.				
8	Summarize an appropriate list of literature review, analyse previous work and relate them to current project.				