Curriculum & Syllabus

of

B.E. Computer Science and Engineering

(For the batch admitted in 2008-09)



K.S.RANGASAMY COLLEGE OF TECHNOLOGY TIRUCHENGODE – 637 215

(An Autonomous Institution affiliated to Anna University of Technology Coimbatore and approved by AICTE New Delhi)

K.S.Rangasamy College Autonomous Re	R 2008					
Department	partment Computer Scie Engineeri					
Programme Code & Name	14 : B.E. Compute and Engine					

		Ingasamy College of Technolo Irriculum for the Programmes un			-				
Regulation	CU	R 2008		onom	ous sc	Ineme			
Department		Department of Computer Scien	co and	Engir	ooring	x			
Programme Co	do 8 Namo	14 : B.E. Computer Science an		-		J			
Flogranine Co		Semester	0	leelill	y				
		Semester		() 4	, ,				
Course		Course Name		urs / W	1	Credit		mum N	1
Code	THEORY		L	Т	Р	С	CA	ES	Tota
		English (Common to all							
08140101G		h. programmes)	3	0	0	3	50	50	100
08140102G	Engineerin B.E./B.Tec	g Mathematics I (Common to all h. programmes)	3	1	0	4	50	50	100
08140103G	B.E./B.Tec	ysics (Common to all h. programmes)	3	0	0	3	50	50	100
08140104G	B.E./B.Tec	emistry (Common to all h. programmes)	3	0	0	3	50	50	100
08140105S	(Common t	Electrical Engineering	3	1	0	3	50	50	100
08140106S		Electronics Engineering to CSE, IT)	3	1	0	3	50	50	100
08140107P	Applied Physics Laboratory		0	0	3	2	50	50	100
08140107P	Electrical Engineering Laboratory		0	0	3	2	50	50	100
08140108P	Electronics Engineering Laboratory		0	0	3	2	50	50	100
08140109P	Engineering Practices Laboratory		0	0	3	2	50	50	100
00140110F	Lighteenin	Total	18	3	12	27	50	50	100
		Semester		3	12	21		ļ	100
-		Genesier		urs / W	look	Cradit	Movi		Iorko
Course Code		Course Name		T T	P	Credit C	CA	mum N ES	Tota
0000	THEORY			1	Г	C	UA	LS	1018
		ation Skills (Common to all							
08140201G		h. programmes)	3	0	0	3	50	50	100
08140202G	Engineerin	g Mathematics II (Common to ech. programmes)	3	1	0	4	50	50	100
08140203G	B.E./B.Tec	Science (Common to all h. programmes)	3	0	0	3	50	50	100
08140204G	B.E./B.Tec	ntal Science (Common to all h. programmes)	3	0	0	3	50	50	100
08140205S	(Common t	tals of Programming to CSE, EEE, ECE and IT)	3	1	0	3	50	50	100
08140206S	Engineerin	Civil and Mechanical g (Common to CSE and IT)	4	0	0	4	50	50	100
004 400075	PRACTICA	g Graphics Laboratory			_		F 0	50	400
08140207P	•	emistry Laboratory	1	0	3	3	50	50	100
08140208P		<u> </u>	0	0	3	2	50	50	100
		ng Loborotoni							1 1 1 1 1
08140209P 08140210P	Comprehe	ng Laboratory	0	0	3	2 0	50 100	50 00	100

	K.S.R	angasamy College of Tech	nology,	Tiruche	ngode	- 637 21	5		
	С	urriculum for the Programme	s under .	Autonom	nous S	cheme			
Regulation		R 2008							
Department		Department of Computer Sc	ience ar	nd Engin	eering				
Programme C Name	ode &	14 : B.E. Computer Science	and Eng	gineering	9				
		Semes	ster III						
Course		Course Name	Hours / Week			Credit	Maxi	mum N	/larks
Code		Course Name	L	Т	Р	С	CA	ES	Total
	THEORY								
08140301G	to all B.E./E Textile)	g Mathematics III (Common B.Tech. programmes except	3	1	0	4	50	50	100
08140302S	CSE and E		3	0	0	3	50	50	100
08140303C		Advanced C		1	0	4	50	50	100
08140304C	•	ssors and Microcontrollers	3	1	0	4	50	50	100
08140305C	Operating S		3	0	0	3	50	50	100
08140306C	Software E	· ·	3	0	0	3	50	50	100
	PRACTICA								
08140307P		ures Laboratory	0	0	3	2	50	50	100
08140308P	Laboratory	ssors and Microcontrollers	0	0	3	2	50	50	100
08140309P		Systems Laboratory	0	0	3	2	50	50	100
08140310P	Compreher		0	0	3	0	100	00	100
08140311P	Career Cor	npetency Development I	0	0	2	0	100	00	100
		Total	18	3	14	27			1100
	1	Semes					•		
Course Code		Course Name	-	urs / We	1	Credit		ximum Marks	
			L	Т	Р	С	CA	ES	Total
	THEORY								
08140401C	Discrete Ma		3	1	0	4	50	50	100
08140402S	CSE and IT		3	1	0	4	50	50	100
08140403C	Computer A		3	0	0	3	50	50	100
08140404C	C++	nted Programming and	3	1	0	4	50	50	100
08140405C	Multimedia	•	3	0	0	3	50	50	100
08140406C	Ű	Analysis of Algorithm	3	0	0	3	50	50	100
	PRACTICA								
08140407P	3	al Processing Laboratory	0	0	3	2	50	50	100
08140408P	Laboratory	nted Programming	0	0	3	2	50	50	100
08140409P		and Graphics Laboratory	0	0	3	2	50	50	100
08140410P	Compreher		0	0	3	0	100	00	100
08140411P	Career Cor	npetency Development II	0	0	2	0	100	00	100
		Total	18	3	14	27			1100

		asamy College of Tech			-)		
Develotion	Curri	culum for the Programme	s under	Autonon	nous S	cneme			
Regulation		R 2008	<u>.</u>						
Department		Department of Compute			-	ring			
Programme C	ode & Name	14 : B.E. Computer Sci		d Engine	ering				
		Seme				1	1		
Course Code	Co	ourse Name		urs/We	ek P	Credit C			/larks Tota
Code	THEORY		L	Т	Р	U	CA	ES	Tota
08140501G	Professional Et	hics	3	0	0	3	50	50	100
	Computer Netv			-	-				
08140502C			3	1	0	4	50	50	100
08140503S	(Common to C	agement Systems SE and IT)	3	1	0	4	50	50	100
08140504C	Probability and	Queuing Theory	3	1	0	4	50	50	100
08140505C	Windows Prog	ramming	3	0	0	3	50	50	100
08140506C	Java Programn	ning	3	0	0	3	50	50	100
	PARCTICAL								
08140507P	Database Mana Laboratory	agement Systems	0	0	3	2	50	50	100
08140508P	Java Programn	ning Laboratory	0	0	3	2	50	50	100
08140509P	Windows Prog	ramming Laboratory	0	0	3	2	50	50	100
08140510P	Career Compe	tency Development III	0	0	2	0	100	00	100
		Total	18	3	11	27			1000
		Semes	ster VI				1		1
Course			Hou	Hours / Week Credit Maxi			Maxi	mum N	/larks
Code	Co	ourse Name	L	Т	Р	С	CA	ES	Tota
	THEORY								
08140601G	Principles of Ma	anagement	3	0	0	3	50	50	100
08140602S	Numerical Meth and IT)	nods (Common to CSE	3	1	0	4	50	50	100
08140603C	Visual Program	iming	3	1	0	4	50	50	100
08140604C	Web Technolog	ду	3	1	0	4	50	50	100
081406**E	Elective I		3	0	0	3	50	50	100
081406**E	Elective II		3	0	0	3	50	50	100
	PRACTICAL		1						
08140607P	Visual program	ming Laboratory	0	0	3	2	50	50	100
08140608P	Web technolog	y Laboratory	0	0	3	2	50	50	100
08140609P	Mini Project		0	0	3	2	100	00	100
08140610P	Career Compe	tency Development IV	0	0	2	0	100	00	100
	1	Total	18	3	11	27			1000

	K.S.Ra	angasamy College of Tec	hnology	y, Tiruc	hengod	e – 637 21	5		
	Cu	urriculum for the Programm	es unde	er Auton	omous S	Scheme			
Regulation		R 2008							
Department		Department of Computer	Science	and Er	gineerin	g			
Programme (Code & Name	14 : B.E. Computer Scier	nce and	Engine	ering				
		Seme	ster VII						
Course			Hours / Week		Credit	Max	imum	Marks	
Code		Course Name	L	Т	Р	С	CA	ES	Total
	THEORY								
08140701G	Total Quality	Management	3	0	0	3	50	50	100
08140702C	Object Orient	ed Analysis and Design	3	1	0	4	50	50	100
08140703C	Principles of	Compiler Design	3	1	0	4	50	50	100
08140704C	System Softw	vare	3	1	0	4	50	50	100
081407**E	Elective III		3	0	0	3	50	50	100
081407**E	Elective IV		3	0	0	3	50	50	100
	PRACTICAL								
08140707P	Compiler Des Software Lab	sign and System oratory	0	0	3	2	50	50	100
08140708P	Case Tools L	aboratory	0	0	3	2	50	50	100
08140709P	Project Work	- Phase I	0	0	4	2	100	00	100
08140710P	Career Comp	etency Development V	0	0	2	0	100	00	100
		Total	18	3	12	27			1000
		Semes	ster VII	1					
Course		Course Name	Ho	ours / W	eek	Credit	Max	timum	Marks
Code			L	Т	Р	С	CA	ES	Total
	THEORY								
08140801C	Mobile Comp	5	3	0	0	3	50	50	100
08140802C	Network Sec	urity	3	0	0	3	50	50	100
081408**E	Elective V		3	0	0	3	50	50	100
	PRACTICAL								
08140804P	Project Work	- Phase II	0	0	20	10	50	50	100
		Total	9	0	20	19			400

		gasamy College of Tech					215		
	Cu	rriculum for the programs	under A	utono	mous	Scheme			
Regulation		R 2008							
Department		Department of Computer	Scienc	e and	Engin	eering			
Program Code	& Name	14 : B.E. Computer Scie							
Course	Course Name		Hours	s/Wee		Credit		m Marks	
Code	Course Marine		L	Т	Ρ	С	CA	ES	Total
	1	Elect				1		1	-
08140641E		agement Techniques	3	0	0	3	50	50	100
08140642E	UNIX Internals		3	0	0	3	50	50	100
08140643E	Client Server C		3	0	0	3	50	50	100
08140644E		sing and Mining	3	0	0	3	50	50	100
08140645E		A Programming	3	0	0	3	50	50	100
08140646E		ks and Applications	3	0	0	3	50	50	100
08140647E	Knowledge Ba Systems	sed Decision Support	3	0	0	3	50	50	100
08140648E	Fundamentals	of IT	3	0	1	3	50	50	100
		Electi		<u> </u>	<u> </u>				
08140651E	C# and .NET F		3	0	0	3	50	50	100
08140652E		rogramming languages	3	0	0	3	50	50	100
08140653E		nputer Architecture	3	0	0	3	50	50	100
08140654E	Network Progr		3	0	0	3	50	50	100
08140655E		bleshooting and	3	0	0	3	50	50	100
08140656E	User Interface	Design	3	0	0	3	50	50	100
08140657E	Advanced Data		3	0	0	3	50	50	100
00140007E	/lavancea Bat	Electiv	-	U	U	0	00	00	100
08140761E	Embedded Sys		3	0	0	3	50	50	100
08140762E		ity Management	3	0	0	3	50	50	100
08140763E		erating Systems	3	0	0	3	50	50	100
08140764E	Real Time Sys		3	0	0	3	50	50	100
08140765E		ased Technology	3	0	0	3	50	50	100
08140766E		age Processing	3	0	0	3	50	50	100
08140767E	Information Se		3	0	0	3	50	50	100
08140768E	IT Essentials		3	0	0	3	50	50	100
		Electiv				-			
08140771E	Advanced Net		3	0	0	3	50	50	100
08140772E	Graph Theory		3	0	0	3	50	50	100
08140773E	Parallel Comp	uting	3	0	0	3	50	50	100
08140774E	XML and Web		3	0	0	3	50	50	100
08140775E	Soft Computin		3	0	0	3	50	50	100
08140776E	High Speed No		3	0	0	3	50	50	100
08140777E	Digital Image		3	0	0	3	50	50	100
		Electi							
08140881E	Quantum Com		3	0	0	3	50	50	100
08140882E	Grid Computin		3	0	0	3	50	50	100
08140883E	Cyber Laws ar Rights	d Intellectual Property	3	0	0	3	50	50	100
08140884E		And Implementation	3	0	0	3	50	50	100
08140885E		ed Architecture	3	0	0	3	50	50	100
	Wireless Tech		3	0	0	3	50	50	100

K.S.F	angasamy College of Techr	nology - J	Auto	nom	ous Reg	gulation			R 2008
Department	Computer Science and Engineering	Progra	mme	e Cod	le & Nar	ne 14 : E		mputer igineer	Science and
	gg	Sen	neste	er I				.g	
Course Code	Course Norse		H	ours/\	Neek	Credit	Ν	<i>l</i> laximu	ım Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140101G	TECHNICAL ENGLISH (Con to all B.E./B.Tech. programm	nes)	3	0	0	3	50	50	100
Objective(s) Learners are enhanced improve their vocabulary and to enable them to use words appropriately in different academic and professional contexts. Familiarize learners with different rhetorical functions of Technical English. Learners develop strategies that could be adopted while reading texts. Learners acquire the ability to speak effectively in English in real-life and career related situations. Train learners in organized academic and professional writing.									
1 GRAMMA	R AND VOCABULARY				То	tal Hrs			9
voice – use of compounds – a British and Ame 2 LISTENIN Extensive lister listening for sp	le and compound tenses) – s of conditionals – comparativ articles – use of prepositions - erican vocabulary. G ning – listening for general c ecific information: retrieval of on, attitude, etc. – global und	ve adject phrasal content – factual in	liste	(affi s – c ening natior	rmative ommonl To to fill u ח – liste	and negat y mispronou tal Hrs p gapped to ning to ider	ive) – unced a exts – ntify top	expar ind mis intensi ic, cor	nding nominal sspelt words – 9 ve listening – ntext, function,
	ote-taking: guided and unguide		ng s			ity to inter, i	exilaci	yısı ai	
3 SPEAKIN	G				То	tal Hrs			9
words) – sente oral practice – objects – offer giving instructio		onunciatio	on di ones	rills, t elf –	ongue t asking essing c	wisters – fo for or eliciti ppinions (ag	rmal an ng info	id infor rmatior nt / dis	mal English – n – describing agreement) –
4 READING						tal Hrs			9
skimming the t Identifying lexic note-making – t 5 WRITING Introductions to	fferent reading techniques – ext – identifying the topic se al and contextual meanings – understanding discourse cohe the characteristics of technic	entence a - reading rence – s	and i for s seque - wri	ts ro struct encin ting (le in ea ure and g of sen To definitior	ch paragrag detail – trar tences. tal Hrs ns and desc	oh – so nsfer of riptions	inform	g – inferring / ation / guided 9 agraph writing
sequencing cor formal letter wr works in industi	and its role, unity, coherence nectives) – comparison and c iting (letter to the editor, lette ries) – editing (punctuation, sp	contrast - er for see	- clas king	ssifyiı prac	ng the d tical tra	ata – analyz	zing / in	terpret under	ing the data – rtaking project
Total hours to b	e taught							4	45
Text book (s) :		<u> </u>					:	:	
Ltd., New	shraf, "Effective Technical Co Delhi, 2005.	ommunic	ation	", 1 [°]	Edition	, Tata McG	rawhil	Publish	ning Company
Reference(s):							1 4		Dublis d'
¹ Kumbakor		0				in English'			Publications,
Education	Gerson, Steven M. Gerson, (Singapore) (p) Ltd., New Del	hi, 2004.			-				
	Barun, "Effective Techinical C Press, New Delhi, 2006.	Communio	catio	n — A	A Guide	for Scientis	sts and	l Engir	neers", Oxford

	K.S.R	angasamy College of Tec	hnology	- Aut	onon	nous Re	gulation			R	2008
Depa	rtment	Computer Science and Engineering	Progra	amme	e Cod	e & Nam	ie 14	: B.E		outer So neering	ience and
			Sem	este	r I						
Course	e Code	Course Name		Н	ours/\	Neek	Credi	t	Ma	iximum	Marks
Course	e Coue			L	Т	Р	С		CA	ES	Total
08140	0102G	ENGINEERING MATHEM/ (Common to all B.E./B.Tec programmes)		3	1	0	4		50	50	100
Objective(s) The course is aimed at developing the basic mathematical skills of engineering students that are imperative for effective understanding of Engineering subjects, to have a sound knowledge of Differential Equations. To identify algebraic eigen value problems from practical areas and obtain the eigen solutions in certain cases.								a sound			
1 M.	ATRICES						tal Hrs			15	
Column	n matrix a	as vector – linear independ	lent and	depe	ndent	of vecto	or – Ch	arac	teristic	equatio	n – Eigen
theoren transfor orthogo	n (withou rmation o onal transf	n vectors of a real matrix – it proof) – Similarity trans f a symmetric matrix to dia formation.	formation agonal for	rm –	ncept Red	only) -	- Orthog	onal	matric	es – (Drthogonal
	EOMETR ALCULUS	ICAL APPLICATIONS OF D	IFFEREN	ITIAL	-	To	otal Hrs			15	
Curvatu	ure – Cart	esian and polar co-ordinate									- Involutes
		nvelopes – Properties of en		nd ev	volute	s –Evolu	ite as env	velop	be of no	rmals.	
		IS OF SEVERAL VARIABLE	-			-	otal Hrs			15	
		variables – Partial derivativ			erentia	al – Maxi	ma and n	ninin	na – Co	nstraine	ed maxima
		grange's multiplier method - ′ DIFFERENTIAL EQUATIO		15.		Тс	tal Hrs			15	
		al equations of Second a		r or	dor v			offici	ont wh		RHS is
		Sin ax, $\cos ax$, $e^{ax}x^n$, e^{ax}	-					011101			
and x ⁿ	Cos ax	 Differential Equations w 	•					Form	n and L	.egendr	e's Linear
Equatio		TIAL EQUATIONS AND ITS			NS	Тс	tal Hrs			15	
		st order linear equations v						of v	ariation	-	amotore -
Solution	n of spec	cified differential equations ((Differential equations and)	connecte	d wi	ith ele	ectric cir	cuits, be	ndin			
Total ho	ours to be	taught								75	
Text bo	ok (s) :										
		T., "Engineering Mathema imited, New Delhi, 2005.	atics (for	first	year),	Fourth	Edition 1	Fata	McGrav	w- Hill	Publishing
2 G	rewal. B.S	S., "Higher Engineering Math	nematics",	Thir	ty Eig	hth Editio	on, Khani	na P	ublisher	s, Delh	i, 2004.
Referer	. ,										
L De	elhi 2008.		-		•	-					
∠ Si	ngapore 2				0		-	•			
		nan.M.K, "Engineering Mat b. Co., Chennai, 2004.	hematics,	Volu	ume I	& II Re	evised E	nlarç	ged Fou	urth Edi	tion", The

	K.S.R	angasamy College of Techn	ology - A	Auto	nom	ous Re	gulation			R 2008
Dep	partment	Computer Science and Engineering	Progra	mme	e Cod	e & Na	me 14:		ompute nginee	r Science and ring
			Ser	nest	er I					
Cour	rse Code	Course Name		Ho	ours/\	Neek	Credit		Maxim	um Marks
Cou	se code			L	Т	Р	С	CA	ES	Total
081	40103G	APPLIED PHYSICS (Commo all B.E./B.Tech. Programmes	s)	3	0	0	3	50	100	
Obje	ective(s)	To study the design of acc materials, Non destructive T in Engineering and Technolo	echnique							
1 LASERS Total Hrs 09							09			
inver Lase	rsion, Pun ers in Micro	principles of spontaneous emi nping-Types of Lasers:He-Ne pelectronics, Welding, Heat Tr	e,Co2,Nd eatment	-YA	G,Rul	by Las	ers, Semico graphy.		r Lase	r- Applications:
2		OPTICS AND APPLICATION		-			tal Hrs			09
index	x and moc	es of Propagation-Crucible-(les of propagation-Splicing-Lo unication Links-Fiber optic Ser	osses in (optic	al fib	er-Ligh	t Sources fo	or fibre	optics-	
3	QUANT	TUM PHYSICS AND APPLICA	TIONS			Тс	tal Hrs			09
Scho Scar	ordinger's nning elect	its applications-Compton e Equation(Time dependent a ron microscope.								
	duction to	SONICS Ultrasonics Waves-Magneto ectric generator-Detection of				lagneto			invers	09 se piezoelectric
Intro effec drillir	duction to t, piezoel ng, welding	Ultrasonics Waves-Magneto ectric generator-Detection o g, soldering and cleaning- N	of ultras	onic	way	lagneto /es-Pro	striction ger perties-Cav	itation-l	invers ndustri	09 se piezoelectric al Applications
Intro effec drillir Reso	duction to et, piezoel ng, welding onance sys	Ultrasonics Waves-Magneto ectric generator-Detection o g, soldering and cleaning- N stem.	of ultras	onic	way	lagneto /es-Pro sting- P	striction ger perties-Cav ulse echo s	itation-l	invers ndustria throug	09 se piezoelectric al Applications h transmission-
Intro effec drillir Resc 5	duction to et, piezoel ng, welding onance system ACOUS	Ultrasonics Waves-Magneto ectric generator-Detection o g, soldering and cleaning- N stem. STICS	of ultras on destru	onic uctiv	wav e tes	lagneto /es-Pro sting- P Tc	striction gen perties-Cavi ulse echo s utal Hrs	itation-l system	invers ndustria throug	09 se piezoelectric al Applications h transmission- 09
Intro effec drillir Resc 5 Intro Web form build	duction to t, piezoel ng, welding onance system ACOUS duction-Cla er –Fechr ula-Absorp lings and th	Ultrasonics Waves-Magneto ectric generator-Detection o g, soldering and cleaning- N stem. STICS assification of Sound-Charao her Law-Decibel-Phon, Sone- otion coefficient-Determination heir remedies-Factors to be fo	of ultras on destru- cteristics -Acoustic n of Abs	onic uctiv of s of sorp	wav e tes Musi buil	lagneto /es-Pro sting- P Tc cal So ding-Re Co-effic	striction ger perties-Cav ulse echo s atal Hrs und-Loudne everberation cient-Factors	itation-I system ss-Soui -Revert	invers ndustria through nd inte peration ting th	09 se piezoelectric al Applications h transmission- 09 ensity Level(IL)- n time-Sabine's ne acoustics of
Intro effec drillir Reso 5 Intro Web form build Tota	duction to t, piezoel ng, welding onance system ACOUS duction-Cl duction-Cl er –Fechr ula-Absorp lings and th I hours to b	Ultrasonics Waves-Magneto ectric generator-Detection o g, soldering and cleaning- N stem. STICS assification of Sound-Charao her Law-Decibel-Phon, Sone- otion coefficient-Determination heir remedies-Factors to be fo	of ultras on destru- cteristics -Acoustic n of Abs	onic uctiv of s of sorp	wav e tes Musi buil	lagneto /es-Pro sting- P Tc cal So ding-Re Co-effic	striction ger perties-Cav ulse echo s atal Hrs und-Loudne everberation cient-Factors	itation-I system ss-Soui -Revert	invers ndustria through nd inte peration ting th	09 se piezoelectric al Applications h transmission- 09 ensity Level(I _L)- n time-Sabine's
Intro effec drillir Reso 5 Intro Web form build Tota	duction to t, piezoel ng, welding onance system ACOUS duction-Classical er –Fechr ula-Absorp lings and the hours to b book (s) :	Ultrasonics Waves-Magneto ectric generator-Detection of g, soldering and cleaning- N stem. STICS assification of Sound-Charac ner Law-Decibel-Phon, Sone- otion coefficient-Determination neir remedies-Factors to be for per taught	of ultras on destru- cteristics -Acoustic n of Ab: illowed fo	onic uctiv of sorp or go	wav e tes Musi buil tion od ac	lagneto ves-Pro sting- P Ccal Sou ding-Re Co-effic coustic (striction ger perties-Cav ulse echo s ital Hrs und-Loudne everberation cient-Factors of building.	itation-I system ss-Soui -Revert	invers ndustria through nd inte peration ting th	09 se piezoelectric al Applications h transmission- 09 ensity Level(IL)- n time-Sabine's ne acoustics of
Intro effect drillir Reso 5 Intro Web form build Tota Text 1	duction to t, piezoel ng, welding nance system duction-Cla ductio	Ultrasonics Waves-Magneto ectric generator-Detection o g, soldering and cleaning- N stem. STICS assification of Sound-Charao her Law-Decibel-Phon, Sone- otion coefficient-Determination heir remedies-Factors to be fo	of ultras on destru- cteristics -Acoustic n of Ab: illowed fo	onic uctiv of sorp or go	wav e tes Musi buil tion od ac	lagneto ves-Pro sting- P Ccal Sou ding-Re Co-effic coustic (striction ger perties-Cav ulse echo s ital Hrs und-Loudne everberation cient-Factors of building.	itation-I system ss-Soui -Revert	invers ndustria through nd inte peration ting th	09 se piezoelectric al Applications h transmission- 09 ensity Level(IL)- n time-Sabine's ne acoustics of
Intro effect drillir Reso 5 Intro Web form build Tota Text 1	duction to t, piezoel ng, welding onance system and ACOUS duction-Cla er –Fechr ula-Absorp lings and the book (s) : "APPLIE rence(s) :	Ultrasonics Waves-Magneto ectric generator-Detection of g, soldering and cleaning- N stem. STICS assification of Sound-Charac her Law-Decibel-Phon, Sone- otion coefficient-Determination heir remedies-Factors to be for be taught	of ultras on destru- cteristics -Acoustic n of Ab: illowed for pred by D	onic uctiv of sorp or go	wave tese Music built tion od ac	lagneto ves-Pro sting- P Tc cal So ding-Re Co-effic coustic c	striction gei perties-Caviulse echo s ital Hrs und-Loudne everberation sient-Factors of building.	itation-I system ss-Soui -Revert	invers ndustria through nd inte peration ting th	09 se piezoelectric al Applications h transmission- 09 ensity Level(IL)- n time-Sabine's ne acoustics of
Intro effect drillir Reso 5 Intro Web form build Tota Text 1	duction to t, piezoel ng, welding onance system ance	Ultrasonics Waves-Magneto ectric generator-Detection of g, soldering and cleaning- N stem. STICS assification of Sound-Charac her Law-Decibel-Phon, Sone- bition coefficient-Determination heir remedies-Factors to be for be taught D PHYSICS", 1 st Edition Author umar S, "Engineering Physics	of ultras on destru- cteristics Acoustic n of Ab- illowed fo pred by D	onic uctiv of sorp or goo	wave tese Music built tion od act of Ph	lagneto ves-Pro sting- P Ccal Sou ding-Re Co-effic coustic o	striction ger perties-Caviulse echo s ital Hrs und-Loudne everberation cient-Factors of building.	itation-I system ss-Sour -Reverb s Affec	invers ndustria through nd inte peration ting th	09 Se piezoelectric al Applications h transmission- 09 ensity Level(I _L)- n time-Sabine's ne acoustics of 45
Intro effec drillir Resc 5 Intro Web form build Tota Text 1 Refe	duction to t, piezoel ng, welding onance system duction-Classical	Ultrasonics Waves-Magneto ectric generator-Detection of g, soldering and cleaning- N stem. STICS assification of Sound-Charac her Law-Decibel-Phon, Sone- otion coefficient-Determination heir remedies-Factors to be for be taught D PHYSICS", 1 st Edition Author umar S, "Engineering Physics ugam.M, "Engineering Physics	of ultras on destru- cteristics -Acoustic n of Ab- illowed fo pred by D ", R K Pu s", 5 th Ec	onic uctiv of s of sorp r go Dept.	way e tes Music built tion od ac of Ph ners,(n Anu	lagneto ves-Pro sting- P Ccal Sor ding-Re Co-effic coustic o hysics k Coimba radha I	striction ger perties-Cav ulse echo s atal Hrs und-Loudne everberation cient-Factors of building. (SRCT. tore,2003. Publications	itation-I system ss-Sou -Revert s Affec	invers ndustria through nd inte peration ting th konam	09 Se piezoelectric al Applications h transmission- 09 ensity Level(I _L)- n time-Sabine's ne acoustics of 45
Intro effec drillir Resc 5 Intro Web form build Tota Text 1 Refe 1	duction to t, piezoel ng, welding onance system duction-Classical	Ultrasonics Waves-Magneto ectric generator-Detection of g, soldering and cleaning- N stem. STICS assification of Sound-Charac her Law-Decibel-Phon, Sone- bition coefficient-Determination heir remedies-Factors to be for be taught D PHYSICS", 1 st Edition Author umar S, "Engineering Physics	of ultras on destru- cteristics -Acoustic n of Ab- illowed fo pred by D ", R K Pu s", 5 th Ec	onic uctiv of s of sorp r go Dept.	way e tes Music built tion od ac of Ph ners,(n Anu	lagneto ves-Pro sting- P Ccal Sor ding-Re Co-effic coustic o hysics k Coimba radha I	striction ger perties-Cav ulse echo s atal Hrs und-Loudne everberation cient-Factors of building. (SRCT. tore,2003. Publications	itation-I system ss-Sou -Revert s Affec	invers ndustria through nd inte peration ting th konam	09 Se piezoelectric al Applications h transmission- 09 ensity Level(I _L)- n time-Sabine's ne acoustics of 45
Intro effec drillir Reso 5 Intro Web form build Tota Text 1 Refe 1 2	duction to t, piezoel ng, welding onance system accoust duction-Classical duction-Classical er –Fechr ula-Absorp lings and the book (s) : "APPLIEL erence(s) : Dr.Jayak Dr.Arumu Gaur R.K	Ultrasonics Waves-Magneto ectric generator-Detection of g, soldering and cleaning- N stem. STICS assification of Sound-Charac her Law-Decibel-Phon, Sone- otion coefficient-Determination heir remedies-Factors to be for be taught D PHYSICS", 1 st Edition Author umar S, "Engineering Physics ugam.M, "Engineering Physics	of ultras on destru- cteristics Acoustic n of Ab- illowed fo pred by D ", R K Pu s" , 5 th Ec Physics'	onic uctiv of s of s orp r go Dept. blish	wave tese Musia built tion od action of Ph ners,(n Anu	lagneto ves-Pro ting- P Ccal Sou ding-Re Co-effic coustic of hysics k Coimba radha F ati Rai a	striction ger perties-Cav ulse echo s ital Hrs und-Loudne everberation cient-Factors of building. (SRCT. tore,2003. Publications and Sons, N	itation-I system ss-Sour -Reverb s Affec s Affec gKumba ew Delt	invers ndustria through nd inte peration ting th konam ni,2001	09 Se piezoelectric al Applications h transmission- 09 ensity Level(IL)- n time-Sabine's se acoustics of 45

Department Computer Science and Engineering Programme Code & Name 14 : B.E. Computer Science Engineering Semester I	nce and								
Hours/Week Credit Maximum Ma	rks								
Course Code Course Name	Total								
08140104GAPPLIED CHEMISTRY (Common to all B.E./B.Tech. programmes)30035050	100								
Objective(s) The student should be conversant with The principles involved in electro chemistry, c and its inhibition, Treatment of water for industrial purposes and the concept of energy devices, Knowledge with respect to fuels and combustion, Polymer and engineering matrix	storage								
1 WATER TREATMENT Total Hrs 9									
Turbidity, color, acidity, alkalinity, nitrogen, fluoride – (Definition, sources and sanitary significance only) – Water- Hardness- Estimation of hardness by EDTA method- Boiler feed water- scale formation, corrosion, caustic embrittlement, priming and forming- softening of water- lime soda process- zeolite process – demineralization – desalination – electro dialysis and reverse osmosis.									
2 ELECTRO CHEMISTRY Total Hrs 9									
Electrochemical cells – reversible and irreversible cells – EMF – measurements – Standard Weston Cadmium cell – Nernst equation – problems – Electrodes – Single electrode potential – Types of electrodes – Calomel electrode – Electrochemical series – significance – Potentiometric titrations – Batteries – Lead acid and Ni-Cd batteries.									
3 CORROSION & CORROSION CONTROL Total Hrs 9									
Corrosion – Electrochemical and chemical – Mechanism – corrosion reaction – types of corrosion – dif aeration – granular - pitting – corrosion control – Sacrificial anode and Impressed current method – Inh Protective coatings – Preliminary treatment – Electroplating (Cr & Ni) – Paints – Constituents a functions – mechanism of drying.	nibitors –								
4 FUELS & COMBUSTION Total Hrs 9									
Fuels – Calorific values – Gross and Net – Theoretical air for combustion – flue gas analysis – Orsat m Coal – proximate and ultimate analysis – their importance – metallurgical coke – Petrol – Straight run, and polymer petrol – Synthetic petrol – Fisher- Tropsch and Bergius method – Octane number – in octane number by additives – Diesel – Cetane number – Water gas, producer gas & LPG.	cracked								
5 POLYMERS Total Hrs 9									
Polymer structure – Nomenclature – Polymerization – types – mechanism (free radical only) – co-or polymerization – mechanism – individual polymers – Polyethylene, Polypropylene, PVC, Teflon, Nylon6-6, Bakelite, Polyester, Epoxy, Polyurethane – Structure, Preparation, Properties and Compounding and fabrication – Compression, Injection, Extrusion and Blow moulding – Foamed plastics Total hours to be taught 45	Acrylics, Uses –								
Text book (s) :									
1 Applied Chemistry by R.Palanivelu, R.Parimalam, B.Srividhya, K.Tamilarasu and P.Padmanaba	n.								
Reference(s):									
1. Jain P.C. & Monica Jain, "Engineering Chemistry", Dhanpat Rai Publishing Co. New Delhi, 14 th 2002.									
2. Clair N Sawyer and Perry L Mc Carty, "Chemistry for Environmental Engineering", TM Company, New Delhi, 14 th Edition, 2002.	H Book								
3. Dara S.S. "A text book of Engineering Chemistry, S.Chand & Co. Ltd., 2003.									
4. Uppal M.M. revised by S.C.Bhatia, "Engineering Chemistry", Khanna Publishers, New Delhi, 6 th 2001.	Edition,								

К.9	S.Rangasamy College of Techn	ology - Au	utonon	nous R	egula	ation		R	2008
Department	Computer Science and Engineering	Program	nme Co	de & N	lame	14 : I			
		Semeste	er I			-			
Course Code	Course Name		Но	urs/We	ek	Credit	Ma	50 100 50 100	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140105S	BASICS OF ELECTRICAL ENGINEERING (Common to CSE, IT)		3	1	0	3	50		100
Objective(s)	To improve the basic knowledge the concepts of various electric	al laws and			applic	ations of		I mach	
-	AMENTALS OF DC AND AC CIF					tal Hrs		12	
values of sine - RL, RC, RLC	Mesh and Nodal analysis – Sim wave, Form factor, Peak factor. c circuits - Simple AC circuits – p	Single phas roblems.			– Imj	bedance,		ind Pov	
-	AMENTALS OF MAGNETIC CIR					tal Hrs			
- Statically and 3 DC MA	 Simple problems. Faraday's law Dynamically induced EMF – Sir ACHINES AND TRANSFORMER Construction – EMF equation 	nple proble S	ems.		Тс	tal Hrs		12	
	. Transformer: Construction – E								
	CTION MACHINES					tal Hrs			
	nduction Motor: Construction, Typ of Cage and wound rotor. Sir								
	R SUPPLIES					tal Hrs		•	
Half Wave and SMPS and UP	d Full Wave Rectifiers – Bridge I S	Rectifier –	Types	of filte	rs – V	oltage Re	gulator	– Intro	duction to
Total hours to	be taught							60	
Text book (s) :									
^I Publica	anavadivel, S.Elangovan, and N ation	1.Murugana	antham	, "Bas	ic of	Electrical	Engine	ering",	Anuradha
Reference(s):									
-	eraj and A.K.Theraja, "Electrical		•						
	ittel, "Basic Electrical Engineering eering Fundamentals", Prentice H					lhi, 1990.	3 V. De	Toro,	'Electrical

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	ıs Reg	ulation		R	2008
Depa	rtment	Computer Science and Engineering	Progra	amme	Code	& Nan	ne 14 : I	B.E. Cor and En		Science ng
			Semes	ster I				-		
Couro	e Code	Course Name		Ho	urs/W	eek	Credit	Ma	ximum	Marks
Cours	e Coue	Course Name		L	Т	Р	С	CA	ES	Total
0814	0106S	BASICS OF ELECTRONICS ENGINEERING (Common to CSE, IT)		3	1	0	3	50	50	100
Objective(s) To study about an overview of electronic devices and Amplifiers and Oscillators. Understar the design of digital system and study combinational and sequential circuits.								nderstand		
1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs							12			
	cteristics ators.	Semiconductors – N-Type an – Type and Applications – Po	wer Sup	olies -	- Rec					
2	AMPLIF						otal Hrs		12	
		Transistor Characteristic Curve ar Amplifier – Stabilizing the Am						witch – I	Measur	ing gain –
3		SIGNAL AMPLIFICATION - O					otal Hrs		12	
		 Amplifier classification – Class Relaxation Oscillators – SCR. 	s A,B, Ae	3, C a	nd Sw	vitched	Mode Ampl	ifiers –	Oscillat	ors – RC,
4	DIGITA	L LOGIC AND COMBINATION	AL CIRCU	JITS		Т	otal Hrs		12	
Theore Combi Numbe 5	em – Lo national l ers. SEQUE	System and Codes – Basic Log gic Circuits – Sum of Produc Logic Networks – Digital Arithme NTIAL LOGIC CIRCUITS	ct Metho etic – Ad	ds – dition,	Prod Subtr	uct of action	Sum Metho , Multiplicatio otal Hrs	od – S on and [imple I Division 12	Design of of Binary
		R Flip Flop, Clocked SR, Maste Inters – Synchronous and Asyn							sters –	Types of
	ours to b			0001		202	2 2 2 2 2 2 2 2 2 0 0 0		60	
Text be	ook (s) :	-						1		
1	Electror	nics Principles & Applications (6	^h Edition), Cha	rles A	. Schu	ler, Mc. Grav	w Hill, 20	003.	
2	Basic E	lectronics, Santiram Kal A.P. Go	odse U.A	. Buks	shi, PH	II, 200	2.			
Refere	nce(s):									
1	Charles	A Schuler, "Electronics Principl	es and A	pplica	tions"	, 6th e	dition, Mc. G	raw Hill,	2003.	
2		Alvino, David J Bates, "Electronics", PHI, 2002.	onic Princ	ciples'	, 7th	Edition	, TMH, 2008	8 3 San	tiram K	al, "Basic

K.S.F	Rangasamy College of Techn	ology -	Auto	nom	ous Re	gulatio	n		R 2008
Department	Computer Science and Engineering	Progra	mme	e Coc	le & Nar	me 1	14 : B.E.	Compu Engine	ter Science and eering
		Sem	este	r I					
	Course Norse		H	ours/	Week	Cred	dit	Maxi	mum Marks
Course Code	Course Name		L	Т	Р	С	C	A E	S Total
08140107P	APPLIED PHYSICS LABOR	ATORY	0	0	3	2	5	0 50	0 100
Objective(s)	To give exposure for underst Material science and prope fundamental constants like a of bad conductor etc.,	erties of	mat	tter f	or engi	neering	applica	tions to	o determine the
 Determ 	nination of rigidity modulus of a nination of Young's modulus of nination of Young's modulus of nination of Viscosity of liquid by nination of acceleration due to nination of wavelength of merco nination of thickness of fiber by nination of velocity of ultrasonic nination of velocity of ultrasonic nination of band gap energy of nination of radius of curvature of nination of thermal conductivity nuclt	the mate the mate Poiseuil gravity by ury spect Air-wedg using gra waves a a semico of a Plane	torsic erial e erial e lle's i y cor rum ge m ating and c ondue o cor	onal p of a u of a u metho npou by Sp ethoo and p comp ctor.	Dendulur Iniform b Iniform b od. Ind (bar) Dectrom Dec	par by n par by u pendulu eter gra size det y using Newton	niform be um. tting. terminatio ultrasoni rings me isc metho	ending on ic interf	method.
Text book (s) :	Jugin						30	nours	
	ering Physics Laboratory-Author	ored by c	lant	of Ph	nveice k	SRCT			
	ening i mysics Laboratory-Auth		iept.		iysics, n				

K.S.	Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	amme	e Cod	e & Nan	ne 14 : I	B.E. Cor and En	•	Science ing
		Semes	ster	I					
Course Code	Course Norse		Н	ours/\	Week	Credit	Ma	ximum	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140108P	ELECTRICAL ENGINEERING)	0	0	3	2	50	50	100
Objective(s)	To import the practical kno applications of Electrical and I					I and elect	ronics o	devices	and the
	L	ist of exp	perim	ents					
 Measur Open C Load Te Load Te Load Te Load Te Load Te Single F Study o Study o 	tion of Ohm's law and Kirchhoff ement of Power and Impedance ircuit and Load Characteristics est on DC Shunt motor est on Single Phase Transforme est on Single Phase and Three I Phase Half Wave and Full Wave f Passive Filters f Voltage Regulator Circuits f SMPS and UPS	e in RL, R of Separa r Phase Ind	ately ducti	Excite	ed DC G				

K.S	Rangasamy College of Techn	ology - /	Auto	nomo	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	mm	e Cod	e & Nar	ne 14:1			
		Semes	ster	I			14 : B.E. Compute and Enginee dit Maximun CA ES 50 50 semi conductor d ng discrete componentation iers, implementation ic gates.		
Course Code	Course Name		Н	ours/\	Neek	Credit	Ma	iximum	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140109P	ELECTRONICS ENGINEERIN LABORATORY	IG	0	0	3	2	50	50	100
Objective(s)	performance parameters of application of Integrated ci combinational circuits, sequen	rcuit tim tial circui	ers, ts ar	oper d Flip	ational	amplifiers,	implem		
	L	ist of exp	erim	ents					
 Implen Input a Freque Observ power a Implem Charac Relaxa Verifica Half ad Implem 	d and Reverse characteristics of nentation of HW & FW Rectifier and Output characteristics of BJT ency response of Common Emitt ation of output waveform with amplifier. entation of RC / LC Oscillator ar teristics of UJT and SCR tion Oscillator using UJT tion Oscillator using UJT der, Full adder, Half subtractor a entation and Verification of truth entation and Verification of BCD	with simp in CE co ter Amplif cross ov and study t L Logic C and Full s table RS	le Ca onfig ier ver d the w Gates ubtra	apacit uratio istorti vavefc actor. and T	or Filter n on usin orms.	g class B co			symmetry

K.	S.Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	Imme	e Cod	le & Nan	ne 14:1	B.E. Cor and En		Science ng
		Seme	ster	I					
Course Code	Course Name		Н	ours/\	Week	Credit	Ma	ximum	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140110P	ENGINEERING PRACTICES LABORATORY		0	0	3	2	50	50	100
Objective(s)	To provide exposure to the st practices in Mechanical Engin		vith h	ands	on expe	erience on v	arious b	asic er	ngineering
	L	ist of exp	erim	ents					
1 PLUM	IBING				Тс	otal Hrs		10	
	s in Plumbing, Study of tools an								
G.I. Pipes, St to service line	udy of valves, taps and repairing.	Measurir	ng ar	id ma	rking pra	actice of PV	C & G.I.	pipes -	connectior
2 SHEE	TMETAL				Тс	otal Hrs		10	
	s, Equipments and Safety precau ked up, double grooving joints, M							ent type	s of joints
3 ELEC	TRICAL WIRING				Тс	otal Hrs		15	
	s of Electrical wiring, Safety aspe tches, Wiring circuit for fluorescer							using s	single and
4 WEL	DING AND SOLDERING				Тс	otal Hrs		10	
	s of Welding and Soldering, Stud r Joints, Soldering of Small Electi						, Weldin	g of La	p, Butt, T-
Total hours to								45	

	Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	amme	e Cod	le & Nar	ne 14:	B.E. Con and En		
		Semes	ster I	I					
Course Code	Course Name		H	ours/\	Week	Credit	Ma	ximum	Marks
Course Coue	Course Name		L	Т	Р	С	CA	ES	Total
08140201G	COMMUNICATION SKILLS (Common to all B.E./B.Tech. programmes)		3	0	0	3	50	50	100
Objective(s)	To equip students with effectiv skills and people skills which performance at placement inter	will mak							
1 LISTEN	NING				Тс	otal Hrs		9	
	ening - Listening to academic lec								s, airports,
	to news on the radio / TV - Lister	ning to ca	sual	conv			<u>o live sp</u>		
	UNICATION unication? - What does it involve				-	otal Hrs	<u> </u>	9	
for permission, Giving direction	ween spoken and written comm giving / denying permission - (ns - Art of small talk - Taking ple, place, things and Events.	Offering	help,	acce	epting /	declining he	lp - Givi	ng ins	tructions -
3 CONVE	ERSATION SKILLS								
		Stages o	fac	all -		otal Hrs a calls - Ide	entifvina	9 self - /	Askina for
Using the tele repetitions - Sp calls - Leaving Reminding - A	phone - Preparing for a call - 3 belling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen	iving info es - Mal	rmati king	ion oi / cha	Handlin n the phanging a	g calls - Ide ione – Maki ippointments	ng reque s - Maki	self - A ests - A ng cor	Answering nplaints –
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in	phone - Preparing for a call - 3 belling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen	iving info es - Mal iing - Lis	rmati king	ion oi / cha	Handlin n the ph anging a nd taking	g calls - Ide ione – Maki ippointments	ng reque s - Maki	self - A ests - A ng cor	Answering nplaints –
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs	phone - Preparing for a call - 3 pelling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions.	iving info es - Mal ing - Lis RY s - Active f formal	rmati king stenir	ion oi / cha ng an I Pass	Handlin n the ph anging a id taking To sive voic	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r	ng reque s - Maki s - Givin	self - ests - ng cor g instr 9 - Pre	Answering nplaints – ructions &
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words	phone - Preparing for a call - 3 belling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAR agreement – Tenses - 'Do' form - Correct use of words - Use o	iving info es - Mal ing - Lis XY s - Active f formal easures.	rmati king stenir and word	ion oi / cha ng an I Pass	Handlin n the ph anging a id taking To sive voic nformal	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r	ng reque s - Maki s - Givin	self - ests - ng cor g instr 9 - Pre	Answering nplaints – ructions &
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails	phone - Preparing for a call - 3 pelling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAF agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m	iving info es - Mal ing - Lis XY s - Active f formal easures. ER SKIL ng and n	rmati king stenir e and word: LS ote -	ion or / cha ng an I Pass s in i - mak	Handlin n the ph anging a nd taking Tc sive voic nformal Tc ting - Pr	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r situations – otal Hrs	ng reque s - Maki s - Givin egatives Indianis	self - , ests - , ng cor g instr 9 - Pre sms - (9	Answering nplaints – uctions & positions - Commonly
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails	phone - Preparing for a call - 3 pelling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAF agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m EN COMMUNICATION & CARE - Writing Reports - Note – takin an interview - Presentation skills	iving info es - Mal ing - Lis XY s - Active f formal easures. ER SKIL ng and n	rmati king stenir e and word: LS ote -	ion or / cha ng an I Pass s in i - mak	Handlin n the ph anging a nd taking Tc sive voic nformal Tc ting - Pr	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r situations – otal Hrs	ng reque s - Maki s - Givin egatives Indianis	self - , ests - , ng cor g instr 9 - Pre sms - (9	Answering nplaints – uctions & positions - Commonly
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails letters - Facing	phone - Preparing for a call - 3 pelling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAF agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m EN COMMUNICATION & CARE - Writing Reports - Note – takin an interview - Presentation skills	iving info es - Mal ing - Lis XY s - Active f formal easures. ER SKIL ng and n	rmati king stenir e and word: LS ote -	ion or / cha ng an I Pass s in i - mak	Handlin n the ph anging a nd taking Tc sive voic nformal Tc ting - Pr	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r situations – otal Hrs	ng reque s - Maki s - Givin egatives Indianis	self - , ng cor g instr 9 a – Pre sms - (9 itae ar	Answering nplaints – uctions & positions - Commonly
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails letters - Facing Total hours to b Text book (s) :	phone - Preparing for a call - 3 pelling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAF agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m EN COMMUNICATION & CARE - Writing Reports - Note – takin an interview - Presentation skills	iving info es - Mal ing - Lis XY s - Active f formal easures. ER SKIL ng and n s - Persua	rmati king stenir e and word LS ote – asion	ion or / cha ng an I Pass s in i - mak	Handlin n the ph anging a id taking Tc sive void nformal Tc ing - Pr s.	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r situations – otal Hrs eparing curr	ng reque s - Maki - Givin egatives Indianis iculum v	self - , ng cor g instr 9 - Pre sms - (9 itae ar 45	Answering nplaints – uctions & positions - Commonly nd cover –
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails letters - Facing Total hours to b Text book (s) :	phone - Preparing for a call - 3 pelling out names or words - Gi messages on answer Machin greeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAF agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m EN COMMUNICATION & CARE - Writing Reports - Note – takin an interview - Presentation skills be taught	iving info es - Mal ing - Lis XY s - Active f formal easures. ER SKIL ng and n s - Persua	rmati king stenir e and word LS ote – asion	ion or / cha ng an I Pass s in i - mak	Handlin n the ph anging a id taking Tc sive void nformal Tc ing - Pr s.	g calls - Ide ione – Maki ippointments g messages otal Hrs ce - Use of r situations – otal Hrs eparing curr	ng reque s - Maki - Givin egatives Indianis iculum v	self - , ng cor g instr 9 - Pre sms - (9 itae ar 45	Answering nplaints – uctions & positions - Commonly nd cover –
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails letters - Facing Total hours to b Text book (s) : 1 Rizvi M Ltd., Ne Reference(s): 1 Kiranm Cambri	phone - Preparing for a call - 3 pelling out names or words - Gi pressages on answer Machin agreeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAR agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m EN COMMUNICATION & CARE - Writing Reports - Note – takin an interview - Presentation skills be taught I Ashraf, "Effective Technical Co ew Delhi, 2005. ai Dutt P, Geetha Rajeevan and idge University Press India Pvt. I	iving info es - Mal ing - Lis x s - Active f formal easures. ER SKIL ng and no s - Persua ommunica Prakash td.,	rmati king stenir and word LS ote - asion ation"	ion oi / cha ng an I Pass s in i - mak - mak s kills	Handling n the ph anging a ad taking To sive voic nformal To 	g calls - Ide ione – Maki ippointments g messages ital Hrs e - Use of r situations – ital Hrs eparing curr	ng reque s - Maki s - Givin egatives Indianis iculum v whil Pub	self - , ests - , ng cor g instr 9 a – Pre sms - (9 itae ar 45 lishing Skills",	Answering nplaints – uctions & positions - Commonly nd cover – Company
Using the tele repetitions - Sp calls - Leaving Reminding - A responding to in 4 REMID Subject - verb Phrasal verbs confused words 5 WRITT Writing e-mails letters - Facing Total hours to b Text book (s) : 1 Rizvi M Ltd., Ne Reference(s): 1 Kiranm Cambri	phone - Preparing for a call - 3 pelling out names or words - Gi pressages on answer Machin agreeing / disagreeing – Listen nstructions. IAL GRAMMER & VOCUBULAR agreement – Tenses - 'Do' form - Correct use of words - Use o s - Common errors & remedial m EN COMMUNICATION & CARE - Writing Reports - Note – takin an interview - Presentation skills be taught I Ashraf, "Effective Technical Co ew Delhi, 2005.	iving info es - Mal ing - Lis x s - Active f formal easures. ER SKIL ng and n s - Persua ommunica Prakash td.,	rmati king stenir and word LS ote - asion ation"	ion oi / cha ng an I Pass s in i - mak - mak s kills	Handling n the ph anging a ad taking To sive voic nformal To 	g calls - Ide ione – Maki ippointments g messages ital Hrs e - Use of r situations – ital Hrs eparing curr	ng reque s - Maki s - Givin egatives Indianis iculum v whil Pub	self - , ests - , ng cor g instr 9 a – Pre sms - (9 itae ar 45 lishing Skills",	Answering nplaints – uctions & positions - Commonly nd cover – Company

	K.S.	Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Depa	rtment	Computer Science and Engineering	Progra	mme	e Cod	le & Nar	ne 14:1	B.E. Cor and En		Science ng
			Semes	ter						
Couro	e Code	Course Name		н	ours/\	Week	Credit	Ma	ximum	Marks
Cours	e Code	Course Name		L	Т	Р	С	CA	ES	Total
08140	0202G	ENGINEERING MATHEMATIC (Common to all B.E./B.Tech. programmes)	CS II	3	1	0	4	50	50	100
Objec	ctive(s)	The course is aimed at develor are imperative for effective knowledge of Laplace transfor interesting properties.	understa	andir	ng of	Engine s and u	eering subjenderstand ar	ects, to	have	a sound
1	MULTIF	PLE INTEGRALS				Тс	otal Hrs		12	
curves	Area a - e problem	ion in Cartesian and Polar coo as double integrals – Triple int ns only). R CALCULUS				an coor				
			مما يرد انبين	a list	- ar-1-				12	
diverge integra	ence and Is using t					of the	above theo	rems a		luation of
3	ANALY	TIC FUNCTIONS				To	otal Hrs		12	
 Rien conjug 	nann equ ate – Cor	mplex variable – Analytic functi- lations – Sufficient conditions – nstruction of Analytic functions - nsformation.	(excluding	g pro	oof) –	- Proper	ties of analy	/tic func	tion –	Harmonic
4	COMPL	EX INTEGRATION				Тс	otal Hrs		12	
Singula	arities –	em (without proof) – Cauchy's Classification – Cauchy's resid ding poles on real axis).								
5	LAPLAC	CETRANSFORM				Тс	otal Hrs		12	
Derivat theore Convol simulta	tives and ms – Tra lution th aneous ec	orm – Conditions for existenc integrals of transforms – Tra insform of unit step function – leorem – Solution of linear Ol quations with constant coefficier	insforms Transfor DE of se	of d m o cond	erivat f peri d orde	ives an odic fur er with	d integrals actions. Inve constant co	– Initial rse Lap	l and f lace tra	inal value ansform –
Total h	ours to b	e taught							60	
Text bo	ook (s) :									
1	Compar	jan. T., "Engineering Mathema ny Limited, New Delhi, 2005.		-	-					-
2	Venkata	araman.M.K, "Engineering Math I Pub. Co., Chennai, 2004.	nematics,	Volu	ume I	& II Re	evised Enlarg	ged Fou	rth Edi	tion", The
Refere	nce(s):									
1	New De	amy. P, Thilagavathy. K and (Ihi 2008.		-		-	-			d and Co.
2	Widder.	D.V., "Advanced Calculus", See	cond Edit	ion, l	Prenti	ice Hall	of India, New	/ Delhi, 2	2000.	

	K.S.	Rangasamy College of Techn	ology - A	Auton	omo	us Regu	lation		R	2008	
Departme	ent	Computer Science and Engineering	Progra	mme	Code	e & Name	9 14: E	3.E. Cor and En		Science ng	
		~ ~ ~	Semes	ter I			•	<u> </u>			
				Н	ours/	Week	Credit	Ma	ximum	Marks	
Course Co	ode	Course Name		L	Т	Р	С	CA	ES	Total	
		MATERIALS SCIENCE (Com	mon to								
08140203	3G	all B.E./B.Tech. programmes e Nano)		3	0	0	3	50	50	100	
Objective	(s)	Impart fundamental knowled Application of conducting, Sup New engineering Materials and	percondu	cting	and I	Magnetic	Materials,	Applica			
1		CTING AND SUPERCONDUC	TING			Tot	al Hrs		09		
Verification Supercond supercond Magnetic L	of luctor uctors evitat	s-Josephson effect(Qualitative	Electron Effect-Iso	theo tope	ry ac effe	dvantage ect-BCS onductor	s and dra theory-	awbacks Type-l	s. Prop and	perties of Type-II	
		Compound Semiconductor								- ·	
Application 3 MA Classificati Hard and S	ns. AGNE Ion of Soft n	d impurities-Hall effect-Hall TIC MATERIALS Magnetic materials-properties nagnetic materials-Ferrites-Stru nory-Magnetic Tape-Floppy Disc	s-Heisenb	erg a pratio	ind D	Tot Domain th d Applica	al Hrs neory of fe	erromagi	09 netism-	Hystersis-	
		TRIC MATERIALS		2			al Hrs		09		
dependend - Dilectric L 5 NE Shape Me properties	ce of p osse W El mory and		e Dielecti hism - Fer operties c s: Fabri	rc - in roele of NiT catior	terna ctric r i allo	I field - C naterials Tot y, Applica ethods-T	lasius – mo properties al Hrs ations, Met opdown	and ap and ap allic gla process	lation(E <u>plicatio</u> 09 sses: P : Bal	Derivation) ns. Prepration, milling,	
		 Bottom up process:Vapor P Applications. 	nase dep	Josisi	ion r	nethod(P	VD and C	JVD)-Ca	ir nodn	lanolubes	
Total hours									45		
Text book(~									
	,	cience",1 st Editon, Authored by	Dept. of F	hysic	s KS	RCT. 200)8.				
Reference			- F	,		- , _0.					
	()	,"Materials Science and Engin	eerina". F	renti	e Ha	II of India	. Newdelhi	i, 2001.			
-		V., "Materials Science", Tata Mo	-								
		P.K., "Materials Science", SCI					2002.				
	-	am M., "Materials Science", Anu									
5 Dr. S.	Mut	hukumaran, V. Mohan, S. Ma s, Chennai 2008.						'1 st Ed	tion, S	ri Krishna	

K.S.R	angasamy College of Techn	ology -	Auto	onom	ous Re	gulation			R 2008		
Department	Computer Science and Engineering	Progra	mme	e Coc	le & Nar	ne 14:E					
		Sem	este	r II							
Course Code	Course Name		H	ours/	Week	Credit	B.E. Computer Science a Engineering Maximum Marks CA ES Total 50 50 100 entalism and the importa- ie current threats to the rious forms of environme- rotocols for the protection 9 e and thermosphere) - Oz- se effect - Global warminer ere. Concept of ecosyste s - Energy flow –Ecological racteristic features-structurer) - Case Studies in currer 9 oint and non-point sourced 19 oint and non-point sourced 19 oint and non-point sourced 19 oint and slides – Wet land sert – geochemical cyclin us waste - Case Studies 19 wind energy – hydroele 10 9 wind energy – hydroele 10 9 Biogeographical classificat diversity in India – threat environment protection a				
Course Code	Course Marile		L	Т	Р	С	B.E. Computer S Engineering Maximum CA ES 50 50 nentalism and the he current threat arious forms of er protocols for the p gre and thermosphe ise effect - Globa here. Concept of e rs - Energy flow aracteristic feature s) - Case Studies 9 point and non-point - light – biolumi ent – waste water 9 n – land slides – W esert – geochemic ous waste - Case 9 - wind energy – h no technology – 19 Biogeographical co poliversity in India environment prot ronment and hum	Total			
08140204G	ENVIRONMENTAL SCIENC (Common to all B.E./B.Tech. programmes)		3	0	0	3					
Objective(s)	The student should be conve of environmental studies, sustainability, Significance a degradation and the signific environment.	various nd prote	natu ction	ural of bi	resource io divers	es and the sity and vari	e curre ous for	nt thr ms of	eats to their environmental		
1 ATMOS	SPHERE AND ECOSYSTEM				То	tal Hrs			9		
and ozone dep Climate change structure and f succession-Foc	composition of atmosphere (tro detion – Air pollution – source e – Acid rain - Planet Earth – I functions of ecosystem- prod od chains-Food webs- Ecologi f forest, grassland and aqua	es, effect Biospher lucers, c cal pyrar	s ar e – I onsu nids-	nd co Hydro Imers Intro	ntrol – (osphere and de duction,	Green house – Lithosphe ecomposers types, chara	e effect re. Con - Ener acteristi	- Glob cept o rgy flo c featu	bal warming – f ecosystem – w –Ecological ires-structures		
	R RESOURCES AND ITS TRE	ATMEN	Γ		То	tal Hrs			9		
pollution – Oce Tsunamis – Gla Thermal pollutio	eans and fisheries – salinity - aciers – Water pollution – disse on, noise pollution and control	 temper olved oxy Case S 	ature /gen tudie	e – d – sui	lensity – rface wa current s	pressure - ter treatmer scenario.	- light -	- biolu ste wat	minescence – er treatment –		
	RESOURCES AND ITS DEGR				-	tal Hrs	1		<u> </u>		
deforestation- d	leserts – types – desertification rdous waste, chemical waste	n – land	degr	adati	on – fea	tures of des	ert – g	eocher	nical cycling –		
4 FUTUR	E POLICY AND ALTERNATIV	/ES			То	tal Hrs			9		
energy - geoth	nd alternatives – fossil fuels hermal energy – tidal energy - Studies in current scenario.										
	/ERSITY AND HUMAN POPU	LATION			То	tal Hrs			9		
of India – Biodi biodiversity – e issues and pos Case Studies in	Bio diversity-Definition, geneti iversity in India – India as me endemic and endangered- hab ssible solution – population g n current scenario.	ga diver bitat – co	sity ı nser	natior vatio	n – hots n of biod	pots of biod diversity – e	iversity nvironn	in Indi nent pr	ia – threats to rotection act –		
Total hours to b	be taught							4	45		
Text book (s) :											
-	mental Science by R.Palanive	lu, R.Par	imal	am, a	and B.Sr	ividhya					
Reference(s):											
Limited,				-		Tata McGr	aHill, F	Publish	ing Company		
-	r Miller, JR _ "Environmental S										
-	P. Cunningham – "Principles of										
	na Erach – "The Biodiversity of		•		•				dabad, India.		
	R.K., "Hand Book of Environm I & II, Environ media.	ental Lav	vs, F	Rules,	Guideli	nes, Compli	ances a	and Sta	andards",		

	K.S.	Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Depa	artment	Computer Science and	Progra	mme	e Cod	e & Nar	ne 14:		•	Science
-1 -		Engineering	, v				-	and En	gineeri	ng
			Semes				1	r		
Cours	se Code	Course Name		H	ours/\	Neek	Credit	Ma	ximum	Marks
Courc				L	Т	Р	С	CA	ES	Total
		FUNDAMENTALS OF								100
0814	10205S	PROGRAMMING (Common to CSE, EEE, ECE)	(TI boo	3	1	0	3	50	50	100
		Student to learn the basic con		comr	uter :	and to d	levelon skills	in prog	rammin	a usina C
Obje	ctive(s)	language.		com				in prog	annin	ig using o
1	COMPL	JTER BASICS				Тс	otal Hrs		8	
Evolut	ion of co	mputers- Generations of com	puters- /	Appli	cation	is of co	omputers	Compu	ter Me	mory and
		Output Media – Algorithm-						m conti	ol stru	uctures
		nguages Computer Software-	- Definitio	n- (Categ			1		
2		DAMENTALS					otal Hrs		9	
		C- Constants- Variables- Data t		perat	ors a	nd Expr	essions- Ma	naging	nput a	nd Output
operat 3		ision Making and Branching- Lo S AND FUNCTIONS	oping.			Т	otal Hrs	I	10	
•		er Arrays and Strings- User defi	inad funa	tiona	Stor				10	
	-	, ,	ineu iunc	lions	- 3101			T	10	
4		TURES AND FILES		<u></u>			otal Hrs		10	
		nition- Initialization- Array of Str nagement.	ructures-	Stru	ctures	swithin	structures- S	structure	s and H	-unctions-
5						Тс	otal Hrs		8	
-		– Pointer Arithmetic – Pointers a	and array	Poi	ntors				0	
		octions – Pointers and structures		1 01	nici 5		actor string			
	nours to b		-						45	
Text b	ook (s) :							1		
1	()	raisamy, R.Nallusamy, R.H	Kanagava	alli,	S.Pc	onmatha	angi, D.Mu	Ithusank	ar, F	P.Kaladevi
L	"Fundar	nentals of Programming", Techy	vision Pul	blish	ers 20	008.	0.1		,	
2.	E.Balag	urusamy, "Programming in ANS	SI C", TM	H, Ne	ew De	elhi, 200	2.			
Refere	ence(s):									
	1									
1	Rajaran	nan V, "Fundamentals of Compu	uters", Fo	urth	Editio	n, PHI 2	2006.			

	K.S	Rangasamy College of Techn	ology - /	Autone	οmoι	ıs Reg	ulation		R	2008
Depa	artment	Computer Science and Engineering	Progra	amme	Code	& Nar	ne 14:1	B.E. Cor and En		Science ng
			Semes	ter II						
0	0 1			Но	urs/W	eek	Credit	Ma	ximum	Marks
Cours	se Code	Course Name		L	Т	Р	С	CA	ES	Total
0814	10206S	BASICS OF CIVIL AND MECHANICAL ENGINEERING (Common to CSE and IT)		4	0	0	4	50 50		100
Obje	ctive(s)	At the end of this semester, components of structures and					onversant in	properti	es of	materials,
1	INTRO	DUCTION		icepis	01 30	· ·	otal Hrs		10	
-		ivil Engineering – Materials – bi	ricks – st	ones -	sand			l te – ste		ions – site
		Bearing capacity – loads – Req							0.0000	
2	1	STRUCTURE	•				otal Hrs		10	
valuati	ion mech	 brick masonry – stone mason anics – internal and external for andscaping. 								
3	SURVE	YING				Т	otal Hrs		10	
		jects - types - classification -	principle	es – m	easu	rement	ts of distanc	es – ang	gles –	leveling -
		f areas – illustrative examples.				1				
4		R PLANT ENGINEERING				Т	otal Hrs		40	
								L	10	
Nuclea	ar Power	assification of Power Plants – Plants – Merits and Demerits – nd double acting) – Centrifugal F	Pumps a			of stea	am, Gas, Di		/dro-ele	
Nuclea	ar Power	Plants – Merits and Demerits – nd double acting) – Centrifugal F	Pumps a			of stea – worl	am, Gas, Di		/dro-ele	
Nuclea (single 5 Interna	ar Power e acting a I C ENC al combus	Plants – Merits and Demerits – nd double acting) – Centrifugal F BINES stion engines as automobile pow	Pumps a Pump. ver plant -	nd turk	oines	of stea – worl T	am, Gas, Di king principle otal Hrs e of Petrol ar	e of Reci	/dro-ele procati 10 I Engin	ng pumps
Nuclea (single 5 Interna stroke	ar Power e acting an I C ENC al combus e and two	Plants – Merits and Demerits – nd double acting) – Centrifugal F GINES stion engines as automobile pow stroke cycles – Comparison of fo	Pumps a Pump. ver plant - our stroke	– Work and t	king p wo st	of stea – worl T rinciple roke e	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi	e of Reci	/dro-ele procati 10 I Engin power	ng pumps nes – Fou
Nuclea (single 5 Interna stroke 6	ar Power a acting an I C ENC al combus and two REFRIC	Plants – Merits and Demerits – nd double acting) – Centrifugal F GINES stion engines as automobile pow stroke cycles – Comparison of fo GERATION AND AIR CONDITIO	Pumps a Pump. ver plant our stroke DNING S	– Work and turk	king p wo st	of stea – worl T rinciple roke e T	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs	e of Reci	/dro-ele procati 10 I Engin power 10	ng pumps nes – Four plant.
Nuclea (single 5 Interna stroke 6 Termir	ar Power e acting an I C ENC al combus and two REFRIC nology of	Plants – Merits and Demerits – nd double acting) – Centrifugal F BINES stion engines as automobile pow stroke cycles – Comparison of fo BERATION AND AIR CONDITIO Refrigeration and Air condition	Pumps a Pump. ver plant our stroke DNING S ning. Prin	– Work and turk and t YSTEN	king p wo st M of vap	of stea – worl T rinciple roke e T our co	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a	e of Reci	/dro-ele procati 10 I Engin power 10	ng pumps nes – Four plant.
Nuclea (single 5 Interna stroke 6 Termir Layou	ar Power e acting an I C ENC al combus and two REFRIC nology of	Plants – Merits and Demerits – nd double acting) – Centrifugal F SINES stion engines as automobile pow stroke cycles – Comparison of fo GERATION AND AIR CONDITIO Refrigeration and Air condition I domestic refrigerator – Window	Pumps a Pump. ver plant our stroke DNING S ning. Prin	– Work and turk and t YSTEN	king p wo st M of vap	of stea – worl T rinciple roke e T our co	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a	e of Reci	/dro-ele procati 10 I Engin power 10	ng pumps nes – Four plant.
Nuclea (single 5 Interna stroke 6 Termir Layou Total h	ar Power acting an I C ENC al combus and two REFRIC nology of it of typica hours to b	Plants – Merits and Demerits – nd double acting) – Centrifugal F SINES stion engines as automobile pow stroke cycles – Comparison of fo GERATION AND AIR CONDITIO Refrigeration and Air condition I domestic refrigerator – Window	Pumps a Pump. ver plant our stroke DNING S ning. Prin	– Work and turk and t YSTEN	king p wo st M of vap	of stea – worl T rinciple roke e T our co	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a	e of Reci	vdro-ele procati 10 I Engin power 10 porption	ng pumps nes – Fou plant.
Nuclea (single 5 Interna stroke 6 Termir Layou Total h Text b	ar Power acting an I C ENC al combus and two REFRIC nology of t of typica hours to b pook (s) :	Plants – Merits and Demerits – nd double acting) – Centrifugal F BINES stion engines as automobile pow stroke cycles – Comparison of for BERATION AND AIR CONDITIO Refrigeration and Air condition I domestic refrigerator – Window e taught	Pumps a Pump. ver plant our stroke DNING S ning. Prin w and Sp	– Work and turk and t YSTEN ciple c lit type	king p wo st M of vap room	of stea – worl rinciple roke e T our cc Air cc	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a onditioner.	e of Reci	vdro-ele procati 10 I Engin power 10 porption	ng pumps nes – Four plant.
Nuclea (single 5 Interna stroke 6 Termir Layou Total h	ar Power acting and I C ENC al combust and two f REFRIC nology of it of typicat hours to b book (s) : M.S. Pat Venugo	Plants – Merits and Demerits – nd double acting) – Centrifugal F SINES stion engines as automobile pow stroke cycles – Comparison of fo GERATION AND AIR CONDITIO Refrigeration and Air condition I domestic refrigerator – Window	Pumps a Pump. ver plant our stroke DNING S ning. Prin w and Sp ing", Tata	- Work and turk and t YSTEN ciple c lit type	king p wo st M of vap room	of stea – worl T rinciple roke e T our co Air co	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a onditioner. Edition.	e of Reci	vdro-ele procati 10 I Engin power 10 prption 60	ng pumps nes – Fou plant. system -
Nuclea (single 5 Interna stroke 6 Termir Layou Total h Text b 1 2	ar Power acting and I C ENC al combust and two f REFRIC nology of it of typicat hours to b book (s) : M.S. Pat Venugo	Plants – Merits and Demerits – nd double acting) – Centrifugal F SINES stion engines as automobile pow stroke cycles – Comparison of for GERATION AND AIR CONDITIC Refrigeration and Air condition I domestic refrigerator – Window e taught slanisamy, "Basic Civil Engineer pal K. and Prabu Raja V	Pumps a Pump. ver plant our stroke DNING S ning. Prin w and Sp ing", Tata	- Work and turk and t YSTEN ciple c lit type	king p wo st M of vap room	of stea – worl T rinciple roke e T our co Air co	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a onditioner. Edition.	e of Reci	vdro-ele procati 10 I Engin power 10 prption 60	ng pumps nes – Foun plant. system –
Nuclea (single 5 Interna stroke 6 Termir Layou Total h Text b 1 2	ar Power acting an I C ENC al combus and two REFRIC nology of t of typica hours to b book (s) : M.S. Pa Venugo Kumbal ence(s):	Plants – Merits and Demerits – nd double acting) – Centrifugal F SINES stion engines as automobile pow stroke cycles – Comparison of for GERATION AND AIR CONDITIC Refrigeration and Air condition I domestic refrigerator – Window e taught slanisamy, "Basic Civil Engineer pal K. and Prabu Raja V	Pumps a Pump. ver plant - our stroke DNING S ing. Prin w and Sp ing", Tata	- Work - Work 2 and t YSTEN ciple c lit type a McGr c Me	king p wo st A of vap room raw H chani	of stea – worl T rinciple roke e T roke c T roke c roke c	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a onditioner. Edition.	e of Reci	vdro-ele procati 10 I Engin power 10 prption 60	ng pumps nes – Fou plant. system -
Nuclea (single 5 Interna stroke 6 Termir Layour Total h Text b 1 2 Refere	ar Power acting an I C ENC al combus and two REFRIC nology of t of typica hours to b book (s) : M.S. Pa Venugo Kumbal ence(s): Ramam	Plants – Merits and Demerits – nd double acting) – Centrifugal F BINES stion engines as automobile pow stroke cycles – Comparison of for BERATION AND AIR CONDITIO Refrigeration and Air condition I domestic refrigerator – Window e taught alanisamy, "Basic Civil Engineer pal K. and Prabu Raja V conam, 2000.	Pumps a Pump. ver plant our stroke DNING S ning. Prin w and Sp ing", Tata /., "Basi	- Work and turk YSTEN ciple c lit type McGr c Me	king p wo st A of vap room chani ai Put	of stea – worl rinciple roke e T our co Air co ill, 3 rd cal E	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a onditioner. Edition. ngineering",	e of Reci	vdro-ele procati 10 I Engin power 10 prption 60	ng pumps nes – Foun plant. system –
Nuclea (single 5 Interna stroke 6 Termir Layou Total h Text b 1 2 Refere 1	ar Power acting an I C ENC al combus and two REFRIC nology of it of typica hours to b book (s) : M.S. Pa Venugo Kumbal ence(s): Ramam	Plants – Merits and Demerits – nd double acting) – Centrifugal F BINES stion engines as automobile pow stroke cycles – Comparison of for GERATION AND AIR CONDITION Refrigeration and Air condition I domestic refrigerator – Window e taught alanisamy, "Basic Civil Engineer pal K. and Prabu Raja V konam, 2000. Intutham S. "Basic Civil Engineer	Pumps a Pump. ver plant - our stroke DNING S ing. Prin w and Sp ing", Tata /., "Basi ing", Dan j", Anurao	- Work and turk YSTEN ciple c lit type MCGr c Me pat Ra tha Pu	king p wo st M of vap room aw H chani ai Pub blicat	of stea – worl T rinciple roke e T our co Air co ill, 3 ^{ra} cal E plishing iins, 2	am, Gas, Di king principle otal Hrs e of Petrol ar ngines – Boi otal Hrs ompression a onditioner. Edition. ngineering", Company, 2 2003 Edition.	e of Reci Ind Diese Ier as a Iand abso Anurao 2002 Edi	vdro-ele procati 10 I Engin power 10 prption 60	ng pumps nes – Fou plant. system -

К	S.Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	amme	e Cod	le & Nan	ne 14:1	B.E. Cor and En		Science ng
		Semes	ter	11					
Course Code			Н	ours/\	Week	Credit	Ma	ximum	Marks
Course Code	e Course Name		L	Т	Р	С	CA	ES	Total
08140207P	ENGINEERING GRAPHICS LABORATORY		1	0	3	3	50	50	100
Objective(s)	hand sketches of simple engin	e obtained eering ob	d by t ojects	rainir	ng them	to understan er 2D and 3D	id object	s by m	aking free
	VES AND SHAPES USED IN ENC DUCTS	SINEERIN	NG		Тс	otal Hrs		8	
equations us	AND CONVENTIONS Primitive ar ed and parametric interpretations s - tangents and normals – mati products.	– ellipsoi	d, pa	rabol	loid and	hyperboloid	– involu	ites an	d cycloids
2 FREE	E HAND SKETCHING PRACTICE	S			To	tal Hrs		7	
views from p simple exerci 3 DEVI Development	 Concept of orthographic project bictorial views of objects – isome ses to practice. ELOPMENT OF SURFACES – PR of lateral surfaces of simple an tching practices - simple exercises 	etric (pictor ACTICE: d truncat	orial) S ted s	repr	esentatio Tc	on of object	s from	multipl 5	e views –
	RAFTING				To	tal Hrs		20	
	f 2D drafting – sketching, mirrorir piping layout drawings - Practice kages.								
5 SOLI	D MODELING				To	tal Hrs		20	
solid modelin (one) half, be modeling and	techniques - constructive solid ger g of simple and moderately comp olts and nuts, computer monitor, I extraction of 2D views using appr	lex engin slotted a	eerin ngle	ig pro rack	ducts – and suc	table, chair, ch other pro	V-block	, flang	e coupling
Total hours to	b be taught							60	
Text book (s)	:								
1 K.Ve	nugopal, "Engineering Graphics", 8	3 th Editior	n, Ne	w Age	e Interna	ational (P) Li	mited, 20)02.	
Reference(s)	:								
1 Dhan	anjay.A. Jolhe, "Engineering Draw	ving", Tata	a Mc	Graw	Hill Pub	lishing Co., 2	2008		
2 K.V.N	Nataraajan "A text book of Enginee	ring Grap	phics	", Dha	analaksh	nmi Publishe	rs, Cher	nai, 20	006.
3 M.B.	Shah and B.C. Rana, "Engineering	g Drawing	g", Pe	earso	n Educa	tion, 2005.			
4 Luza	dder and Duff, "Fundamentals of I					C			

	K.:	S.Rangasamy College of Teo	chnology - Au	onon	nous F	Regulat	ion		R	2008
Depa	rtment	Computer Science and Engineering	Programm	ne Coo	de & N	3.E. Cor and En	•	Science ing		
			Semester	II						
Couro	e Code	Course Name		H	ours/W	/eek	Credit	Ма	ximum	Marks
Cours	e Coue	Course Marine		L	Т	Р	С	CA	ES	Total
0814	0208P	APPLIED CHEMISTRY LAB	ORATORY	0	0	3	2	50	50	100
Objec	ctive(s)	Educate the theoretical conc	epts Experimer	ntally						
			List of experi	ments						
1.	Estimat	tion of hardness of water by E	DTA.				al Hrs		3	
2.	Estimat	tion of alkalinity of water samp	le.			Tota	al Hrs		3	
3.	Estimat	tion of chloride content in wate	er sample.			Tota	al Hrs		3	
4.	Determ	ination of dissolved oxygen in	boiler feed wa	ter.		Tota	al Hrs		3	
5.		ination of water of crystallizati	,		lt.	Tota	al Hrs		3	
6.		ctometric titration of strong aci	-	ase.		Tota	al Hrs		3	
7.	Conduc	ctometric titration of mixture of	acids.			Tota	al Hrs		3	
8.	Precipi	tation titration by conductomet	ric method.			Tota	al Hrs		3	
9.		ination of strength of HCI by p				Tota	al Hrs		3	
10.	Estimat	tion of ferrous ion by potention	netric titration .			Tota	al Hrs		3	
11.		ination of sodium and potassi hotometry (Demo only).	um in a water s	ample	e by		al Hrs		3	
12.	Estimat	tion of ferric ion by spectropho	tometry (Demo	only)		Tota	al Hrs		3	
Total I	hours to l	be taught							30	
Lab M	lanual :									
1	Chemis	stry Lab Manual by R.Palanive	elu, R.Parimala	m and	d B.Sri	vidhya				
Refere	ence(s):									
1		idham, R.C. Denney, J.D. E cal Analysis, 6 th Edition, Pears			Thoma	as, Vog	gel's Text	book	of Qu	antitativ

K.S.	Rangasamy College of Techn	ology - A	Autor	nomo	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	mme	e Cod	e & Nan	ne 14:E		Computer Science Engineering	
		Semes	ter l						
			Hours/Week		Credit	Ma	ximum	Marks	
Course Code	Course Name	ame L T P C CA				CA	ES	Total	
08140209P	PROGRAMMING LABORATC	DRY	0	0	3	2	50	50	100
Objective(s) To enable the students to apply the concepts of C to solve real time problems									
	L	ist of exp	erim	ents					
 Write a 	C program to print the sine and C program to perform Matrix mu C program to perform Matrix mu C program to perform string ma th and string copy without using C program to arrange names in C program to calculate the mea C program to perform sequentia C program to print the Fibonace s. C program to print the mark she C program to merge the given to C Program to perform Swap Us	ultiplicatio the sales anipulation g library fu alphabet n, variand al search ci series a set of n st wo files	n. repo n fun unctio ical o ce ar using and t uden	ort. ons. order. orderand sta g func o calo	ndard de tions. culate th	eviation usin e factorial of	g functio	ons.	

	K.S.Ranga		of Technology - A	Autonon	nous R	egulat	ion		R 2008		
Depa	artment		Science and neering	Prog	amme	Code 8	& Name		: B.E. Cor ce and En	mputer gineering	
		-	5	Semeste	r II						
Cour	se Code	Cours	se Name	Hou	rs/We	ek	Credit	M	aximum N	/larks	
Court		Court		L	Т	Р	С	CA	ES	Total	
0814	40210P	COMPREHEN		0	0	3	0	100 00 10			
Obje	ective(s)	technical know and Applied placement inte	Making the students understand the subjects of the semester thoroughly and improvi technical knowledge of the students, Improving the skill level of Engineering, Techn and Applied Science students and thereby improving the employability of stude placement interviews.							echnology udents in	
1										ared	
2			e to be printed in a	double co	olumn (2 x 50	words) and	lin 2 pa	nes and is	s to be	
_	handled	over each stude	ent for all the subje	ects.			,		-		
3			ne subject in the p	revious s	semeste	er will h	andle their	r discuss	ion perio	d (3	
4		/ semester) as g f will question th	liven below. le students using "	W' and '	H' type	questio	ons linking	the kevy	vords		
5			lents have to prepa			•	-	-			
6	Each tes	st will carry 100	questions and two	hours d	uration.				objective	type: 'W'	
7	Based o	n Test-I and Test	st-II, sessional ma	rks (max	imum 5	0 marl	s) will be a	awarded			
8			II the units and all	the subj	ects. Th	e pass	ing norms	will be s	imilar as	other	
	subjects	(i.e. minimum 5		int of Co		naian	Publicat				
Total	lo of wook	s planned:10	chedule for Condu Total No of subj		•		Fotal durati		aaki 2 na	riodo	
TOLATIN		•	eriod Subject No	jects. 5 ti			period Su	•		nous	
We	ek No	(No of units)	enou Subject No			of units)		
V	W1	1 /	S1(3)					S2(3)			
١	N2		S3(3)					S4(3)			
	N3		S5(3)					S6(3)			
٧	N4			I (Portior	: 3 unit	s in ea	ch subject)				
٧	N5		S1(2)					S2(2)			
	N6	S3(2)						S4(2)			
	N7		S5(2)					S6(2)			
-	N8		Test-I				ch subject)			
	N9				Discuse						
V	V10		Test-I	II (All 5 ເ	units an	d all th	e subjects)				

K.S.Ra	angasamy College of T	echnology - A	utonon	10us R	egula	tion		R 20	800		
Department	Computer Science and Engineering	Programm	e Code	& Nam	е	14 : B.E	•	uter Scie leering	nce and		
	·	Sem	nester III								
Course Code	Course No.		Hou	rs / We	ek	Credit	Ma	aximum l	Marks		
Course Code	Course Nar	ne	L	Т	Р	С	CA	ES	Total		
08140301G	ENGINEERING MATH (Common to all B.E./B programmes except T	.Tech. extile)	3	1	0						
programmes except Textile) I </td											
1 PARTIAL I	DIFFERENTIAL EQUAT	IONS			То	tal Hrs		12			
of standard typ differential equa	Initial differential equation bes of first order partia ations of second and hig	al differential e	quation	s – La	igrang cients.	e's linear		n – Line			
2 FOURIER					-	tal Hrs		12			
	itions – General Fourier Parseval's Identity – Ha			n funct	tions -	- Half rang	e sine s	series – I	Half range		
	RY VALUE PROBLEMS	THOMIC Analysis	5.		То	tal Hrs		12			
	f second order quasi li dimensional heat equat								onal wave		
	TRANSFORM					tal Hrs		12			
theorem- Parse	m pair- Sine and Cosine val's Identity – Problem	S.		es – Tra	ansfor	ms of simp	le funct	ions – Co	onvolution		
5 Z -TRANS	FORM AND DIFFEREN	ICE EQUATIO	NS		То	tal Hrs		12			
	lementary properties – lue method - Convolutio										
Total hours to b	e taught							60			
Text book(s): :											
1 Veerarajar	n.T., "Engineering mathe	ematics-III", Tat	a McGra	aw Hill	Publis	hing Comp	bany Lin	nited, Ne	w Delhi.		
2 Grewal, B.	S., "Higher Engineering	Mathematics",	Thirty S	ixth Ed	lition, l	Khanna Pu	ublishers	s, Delhi, 2	2001.		
References :											
	n, S., Manicavachagom Volumes II and III, S. V								ngineering		
2 Kandasam	y, P., Thilagavathy, K., td., New Delhi, 1996.								Chand &		

	K.S.	Rangasamy College of Techn	ology - A	Auto	nomo	ous Reg	ulation		R	2008
Departn	nent	Computer Science and Engineering	Progra	imme	e Cod	e & Nan	ne 14 :	B.E. Co and En		Science ng
			Semes	ter I						
Course (Codo	Course Name		Н	ours/\	Neek	Credit	Ma	ximum	Marks
Course	COUE			L	Т	Р	С	CA	ES	Total
081403	02S	DATA STRUCTURES USING (Common to CSE and ECE)		3	0	0	3	50	50	100
Objectiv		To learn the systematic way amounts of data, Programmin to implement solutions for spec	g in C, e	fficie	nt imp	olementa	ation of diffe	ods of rent dat	organiz a struct	zing large tures, and
1 P	1 PROBLEM SOLVING Total Hrs							9		
algorithm	is – An	Problem solving aspect – Top- alysis of algorithms – Fundame				-		gorithms	s – Eff	iciency of
	,	STACKS AND QUEUES					tal Hrs		9	
		ype (ADT) – The List ADT – The	e Stack A	DT -	- The	Queue /	ADT			
	REES						tal Hrs		10	
Hashing Binary He 4 S	– Gen eap. SORTIN	-	Priority C	lueue	es (H	eaps) – To	Model – Si tal Hrs	imple in	npleme 9	
		Insertion Sort – Shellsort – Heap	psort – M	erge	sort –			al Sorting	-	
	GRAPH						tal Hrs		9	
Minimum	Span	pological Sort – Shortest-Path A ning Tree – Prim's Algorithm, ohs – Biconnectivity.								
Total hou	irs to b	e taught							45	
Text bool	k (s) :									
1 F	R. G. DI	romey, "How to Solve it by Com	puter" (C	haps	1-2),	Prentice	e-Hall of Indi	ia, 2002	•	
(0 7	chaps 3 7.7.5, 7.	Veiss, "Data Structures and Alg 3, 4.1-4.4 (except 4.3.6), 4.6, 5 .7.6), 7.11, 9.1-9.3.2, 9.5-9.5.2,	5.1-5.2, 6	.1-6.						
Referenc	;e(s):									
A	Asia, 20						·			
		F. Gilberg, Behrouz A. Foro on Brooks / COLE, 1998.	uzan, "D)ata	Struc	tures -	A Pseudoo	code Ap	proach	with C",

	Rangasamy College of Techn	nology - A	Autonom	ous Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	amme Co	de & Nar	ne 14 :	B.E. Cor and Eng		Science ng
		Semes	ster III					
	Course Name		Hours	/Week	Credit	Max	aximum Marks	
Course Code	Course Name		LT	Р	С	CA	ES	Total
08140303C	ADVANCED C		3 1	0	4	50	50	100
Objective(s)	It provides a strong foundatio apply these concepts to solve				in C and al	so enabl	e the	student to
1 OVER	/IEW OF C	rear time	problems		otal Hrs		7	
Operators – Ar cast operator, s	C – Identifiers, While statemen ithmetic, Relational and Logical sizeof operator, Bitwise Operator	and Ass		Operato	rs ++ and			
2 FUNCT	IONS AND ARRAYS			Тс	otal Hrs		9	
indexes and ce Character string	Arguments and parameters, Sc I offsets, Array as function arg g as arrays of character.	guments,	String ha	Indling fu	inctions, Mu		ional a	
	AGE CLASSES AND TYPE QUA s in a single source file, Storage				otal Hrs		10	
		alound in	h a file. Ur	nions and	l bit fields. Ei	numerate	ed type	es.
4 POINT Introduction to addresses to fu elements to a function, 3 Dim	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di ensional arrays passing 3D arr	rs - Point inters. Po imension ays to a	ter expres ointers ar al arrays function	To ssions, C ad arrays - Pointe returning	 What are r to an array 	float poir arrays?, y, Passin	10 nters, , Passi ig 2D a	- Passing ing Arrays array to a
4 POINT Introduction to addresses to fu elements to a function, 3 Dim array from a fur	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di	rs - Point inters. Po imension ays to a nic memo	ter expres ointers ar al arrays function	To ssions, C ad arrays - Pointe returning ion.	otal Hrs har, int, and – What are r to an array	float poir arrays?, y, Passin	10 nters, , Passi ig 2D a	- Passing ng Arrays array to a
4POINTIntroduction to addresses to fu elements to a function, 3 Dim array from a fun array from a fun 55POINTPointers and s qualifier, return Limitation of ar Offset of structor	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di tensional arrays passing 3D arr action, array of pointers, Dynan	rs - Point inters. Po imension ays to a nic memo JRES Indard lib sional arr ters and	ter expres ointers ar al arrays function ory allocat orary strin rays of c structure	To ssions, C ad arrays - Pointe returning ion. To g function haracters s – An a	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc	float poin arrays?, y, Passin a function s and str y of pointures, St	10 nters, - , Passi og 2D - on, ret 9 rings, - nters t ructure	- Passing ing Arrays array to a urning 3D The const to strings, pointers,
4 POINT Introduction to addresses to fu elements to a function, 3 Dim array from a fun 5 POINT Pointers and s qualifier, return Limitation of ar Offset of structor	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di ensional arrays passing 3D arr nction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ning const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin nain (), Near far, huge pointers.	rs - Point inters. Po imension ays to a nic memo JRES Indard lib sional arr ters and	ter expres ointers ar al arrays function ory allocat orary strin rays of c structure	To ssions, C ad arrays - Pointe returning ion. To g function haracters s – An a	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc	float poin arrays?, y, Passin a function s and str y of pointures, St	10 nters, - , Passi og 2D - on, ret 9 rings, - nters t ructure	- Passing ing Arrays array to a urning 3D The const to strings, pointers,
4 POINT Introduction to addresses to fu elements to a function, 3 Dim array from a fur 5 POINT Pointers and s qualifier, return Limitation of ar Offset of structor arguments to m	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di ensional arrays passing 3D arr nction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ning const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin nain (), Near far, huge pointers.	rs - Point inters. Po imension ays to a nic memo JRES Indard lib sional arr ters and	ter expres ointers ar al arrays function ory allocat orary strin rays of c structure	To ssions, C ad arrays - Pointe returning ion. To g function haracters s – An a	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc	float poin arrays?, y, Passin a function s and str y of pointures, St	10 nters, , Passi og 2D s on, ret 9 rings, nters t ructure argc a	- Passing ing Arrays array to a urning 3D The const to strings, pointers
4POINTIntroduction to addresses to fu elements to a function, 3 Dim array from a fun 5POINT5POINTPointers and s qualifier, return Limitation of ar Offset of structu arguments to m Total hours to bText book (s) :1Richard Educat	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di ensional arrays passing 3D arr nction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ning const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin nain (), Near far, huge pointers. be taught	rs - Point inters. Point imension rays to a nic memo JRES indard lib sional arr ters and hters to fu	ter express ointers ar al arrays function ory allocat prary strin rays of c structure unctions, t ations Pro	Tc ssions, C ad arrays - Pointe returning ion. Tc g functic haracters s – An a ypedef w	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc rith function	float poin arrays?, y, Passin a function s and str y of pointers, c", third	10 nters, , Passi ag 2D on, ret 9 rings, nters t ructure argc a 45	- Passing ing Arrays array to a urning 3D The const to strings, e pointers, and argy –
4POINTIntroduction to addresses to fu elements to a function, 3 Dim array from a fur 5POINT5POINTPointers and s qualifier, return Limitation of ar Offset of structu arguments to m Total hours to bText book (s) :1Richard Educat 22Unders	ERS AND ARRAYS pointers – The & and * Operato inctions, Functions returning po functions – Pointers and two di inensional arrays passing 3D arr inction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ing const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin inain (), Near far, huge pointers. be taught	rs - Point inters. Point imension rays to a nic memo JRES indard lib sional arr ters and hters to fu	ter express ointers ar al arrays function ory allocat prary strin rays of c structure unctions, t ations Pro	Tc ssions, C ad arrays - Pointe returning ion. Tc g functic haracters s – An a ypedef w	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc rith function	float poin arrays?, y, Passin a function s and str y of pointers, c", third	10 nters, , Passi ag 2D on, ret 9 rings, nters t ructure argc a 45	- Passing ing Arrays array to a urning 3D The const to strings, e pointers, and argy –
4POINTIntroduction to addresses to fu elements to a function, 3 Dim array from a fur 5POINT5POINTPointers and s qualifier, return Limitation of ar Offset of structu arguments to m Total hours to b1Richard Educat 22UndersReference(s):	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di ensional arrays passing 3D arr nction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ing const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin hain (), Near far, huge pointers. be taught d Johnsonbaugh & Martin Kalin ion. tading Pointers in C,"Yashavant	rs - Point inters. Point imension rays to a nic memo JRES indard lib sional arr ters and iters to fu , "Applica	ter express ointers ar al arrays function ory allocat prary strin rays of c structure unctions, t ations Pro-	Tc ssions, C ad arrays - Pointe returning ion. Tc g functic haracters s – An a ypedef w	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc rith function	float poin arrays?, y, Passin a function s and str y of pointers, c", third	10 nters, , Passi ag 2D on, ret 9 rings, nters t ructure argc a 45	- Passing ing Arrays array to a urning 3D The const to strings, e pointers, and argy –
4POINTIntroduction to addresses to fu elements to a function, 3 Dim array from a fun 5POINT5POINTPointers and s qualifier, return Limitation of ar Offset of structu arguments to m Total hours to bStructu arguments to m Total hours to b1Richard Educat 22Unders1Byron (0)	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di tensional arrays passing 3D arr nction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ning const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin ain (), Near far, huge pointers. De taught d Johnsonbaugh & Martin Kalin ion. tading Pointers in C,"Yashavant Gottfried, "Programming with C",	rs - Point inters. Point imension rays to a nic memo JRES indard lib sional arr ters and iters to fu , "Applica Kanetka II Editior	ter express ointers ar al arrays function ory allocat prary strin rays of c structure unctions, t ations Pro-	Tc ssions, C ad arrays - Pointe returning ion. Tc g functic haracters s – An a ypedef w ogrammir dition,BP	har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc rith function ng in ANSI (B publicatior	float poin arrays?, y, Passin a function s and str y of pointers, tures, St pointers, C", third of ns.	10 nters, - , Passi ag 2D - on, ret 9 rings, - nters t ructure argc a 45 edition	- Passing ing Arrays array to a urning 3D The const to strings, e pointers, and argv –
4POINTIntroduction to addresses to fu elements to a function, 3 Dim array from a fur 5POINT5POINTPointers and s qualifier, return Limitation of ar Offset of structu arguments to m Total hours to b1Richard Educat 22UndersReference(s):11Byron 02Herber	ERS AND ARRAYS pointers – The & and * Operato unctions, Functions returning po functions – Pointers and two di ensional arrays passing 3D arr nction, array of pointers, Dynan ERS AND STRINGS, STRUCTL trings - What are strings, Sta ing const values, Two dimens ray of pointers to strings - Poin ure elements. File pointers, Poin hain (), Near far, huge pointers. be taught d Johnsonbaugh & Martin Kalin ion. tading Pointers in C,"Yashavant	rs - Point inters. Point imension ays to a nic memo JRES indard lib sional arr ters and iters to fu , "Applica ; Kanetka II Editior ice C" Fo	ter express ointers ar al arrays function ory allocat orary strin rays of c structure unctions, t ations Pro- n, TMH, 2 urth Editio	Tc ssions, C ad arrays - Pointe returning ion. g functic haracters s – An a ypedef w ogrammir dition,BP	otal Hrs har, int, and – What are r to an array array from otal Hrs ons, Pointers s, Arra rray of struc rith function p ng in ANSI (B publication	float poin arrays?, y, Passin a function s and str y of pointers, tures, St pointers, C", third of ns.	10 nters, - , Passi ag 2D - on, ret 9 rings, - nters t ructure argc a 45 edition	- Passing ing Arrays array to a urning 3D The const to strings, e pointers, and argv –

K	.S.Rangasamy College of Techn	nology - A	Auto	nomo	ous Reg	ulation		R	2008
Department	Computer Science and	Progra	amme	e Cod	e & Nan	ne 14 :			Science
	Engineering	•					and En	gineeri	ng
		Semes	1					-	
Course Cod	e Course Name		н		Week	Credit		ximum	
			L	Т	Р	С	CA	ES	Total
08140304C	MICROCONTROLLERS		50	100					
Objective(s	Studying about the architec language programs in 8085 a different peripheral devices an of 8051 microcontroller.	and 8086	des	gn ar	nd unde	rstand multip	processo	or confi	gurations,
1 THE 8085 MICROPROCESSOR Total Hrs								9	
mode interru		ecture – I	nstru	ction		0	the 80	85 – A	ddressing
2 8086	MICROPROCESSOR				To	otal Hrs		9	
Intel 8086 mi	croprocessor – Architecture – Insti	ruction se	et and	lasse	embler d	irectives.			
3 8086	ASSEMBLY LANGUAGE				To	otal Hrs		9	
Addressing n	nodes – Assembly language progra	amming -	- Inte	rrupts	s and int	errupt servic	e routin	es.	
4 I/O II	NTERFACING				To	otal Hrs		9	
	rfacing and I/O interfacing - Paral rupt controller – DMA controller – I						mmunic	ation i	nterface -
5 MICE	ROCONTROLLERS				To	otal Hrs		9	
Architecture set – Applica	of 8051 – Signals – Operational f tions.	eatures -	- Mer	nory	and I/O	addressing	– Interru	upts – I	nstruction
Total hours to								45	
Text book (s)	:								
	esh S.Gaonkar, "Microprocessor am International publishing private					ng and App	lications	with t	he 8085",
and I	Ray & K.M.Bhurchandi, "Advance nterfacing", TMH, 2002 reprint.	d Micropi	oces	sors	and peri	pherals- Arc	hitectur	es, Pro	gramming
Reference(s)	:								
-	las V.Hall, "Microprocessors and I		•	•	•				
	neng Liu, Glenn A.Gibson, "Mic	crocompu	ter s	ysten	ns: The	8086 / 80	88 Fan	nily aro	chitecture,
Prog	ramming and Design", PHI 2003.								
	amed Ali Mazidi, Janice Gillispie son education, 2004.	Mazidi,	"The	805	1 micro	controller ar	nd emb	edded	systems",

	K.S.	Rangasamy College of Techn	ology - /	Autor	nomo	ous Reg	ulation		R	2008
Depa	artment	Computer Science and Engineering	Progra	mme	e Cod	e & Nan	ne 14 :	B.E. Col and En		Science ng
			Semes	ster II	I					
Cours	e Code	Course Name		He	ours/\	Week	Credit	Ma	ximum	Marks
Cours		Course Name		L	Т	Р	С	CA	ES	Total
0814	0305C	OPERATING SYSTEMS		3	0	0	3	50	50	100
Objective(s) Knowing the components of an operating system ,having the thorough knowledge of process management and having a thorough knowledge of storage management.										of process
1		IEW OF OS					tal Hrs		9	
Cluste Operat Operat	red Syste ting Syste tions on F	Mainframe systems – Desktop ems – Real Time Systems – Ha em Services – System Calls – Processes – Cooperating Proces	ndheld S System	ysten Progi	ns - ŀ rams	Hardwar - Proce s Comm	e Protection ss Concept unication.	- Syster	n Com ss Sch	ponents –
2		SS MANAGEMENT erview – Threading issues -					tal Hrs		9	
Monito	JIS.									
Deadlo	n Model ock avoid	SS AND STORAGE MANAGEN – Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr	- Metho	from	Dead	andling llocks - 3	Storage Mar			
Systen Deadlo	n Model ock avoid juous Mer	- Deadlock Characterization	- Metho	from	Dead	andling llocks - 3 ntation v	Deadlocks Storage Mar		ck Pre	
System Deadlo Contig 4 Virtual	n Model ock avoid uous Mer MEMEC Memory	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr 	 Methodecovery for the second se	from <u>– Se</u> Page	Dead egme e Rep	andling llocks - 3 ntation v Tc placeme	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio	nagemer	ck Pre nt – Sv 9 mes –	wapping –
System Deadlo Contig 4 Virtual	n Model ock avoid uous Mer MEMEC Memory	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process c Access Methods – Directory St 	 Methodecovery for the second se	from <u>– Se</u> Page	Dead egme e Rep	andling llocks - S ntation v Tc placeme em Mour	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio	nagemer	ck Pre nt – Sv 9 mes –	wapping –
System Deadlo Contig 4 Virtual - File O 5 File Sy space	n Model ock avoid uous Mer MEMEC Memory Concept – FILE S ystem Str Manager	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process c Access Methods – Directory St 	- Metho ecovery f nentation reation - ructure - tation - 1 Schedulir	from <u>- Se</u> Pag File Direc	Dead egme e Rep Syste	andling Ilocks - S ntation v Dlaceme em Mour Tc mpleme	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio nting – File S tal Hrs ntation – All	hagemer	ck Pre nt – Sv 9 mes – 7 - Protec 9 Methoo	Thrashing tion.
System Deadlo Contig 4 Virtual - File C 5 File Sy space Design	n Model ock avoid uous Mer MEMEC Memory Concept – FILE S ystem Str Manager	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process of Access Methods – Directory St (STEM ucture – File System Implement ment Disk Structure – Disk St s - Case Study Linux System K 	- Metho ecovery f nentation reation - ructure - tation - 1 Schedulir	from <u>- Se</u> Pag File Direc	Dead egme e Rep Syste	andling Ilocks - S ntation v Dlaceme em Mour Tc mpleme	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio nting – File S tal Hrs ntation – All	hagemer	ck Pre nt – Sv 9 mes – 7 - Protec 9 Methoo	Thrashing tion.
System Deadlo Contig 4 Virtual - File C 5 File Sy space Design Total h	n Model ock avoid uous Mer MEMEC Memory Concept – FILE SN ystem Str Manager principle	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process of Access Methods – Directory St (STEM ucture – File System Implement ment Disk Structure – Disk St s - Case Study Linux System K 	- Metho ecovery f nentation reation - ructure - tation - 1 Schedulir	from <u>- Se</u> Pag File Direc	Dead egme e Rep Syste	andling Ilocks - S ntation v Dlaceme em Mour Tc mpleme	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio nting – File S tal Hrs ntation – All	hagemer	ck Pre tri – Sv 9 mes – - Protect 9 Methoo e Mana	Thrashing tion.
System Deadlo Contig 4 Virtual - File C 5 File Sy space Design Total h	Model ock avoid uous Mer MEMEC Memory Concept – FILE SN ystem Str Manager principle oours to b ook (s) :	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process of Access Methods – Directory St (STEM ucture – File System Implement ment Disk Structure – Disk St s - Case Study Linux System K 	- Metho ecovery f nentation reation - ructure - tation - f Schedulir Kernel Mo	From Page File Directing – odel.	Dead egme e Rep Syste tory I Disk	andling Ilocks - 3 ntation v Tc blaceme em Mour Tc mpleme Manage	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio nting – File S tal Hrs ntation – All ement – Swa	nagemer on of fra Sharing - ocation ap-Spac	ck Pre tit – Sv 9 mes – Proteg 9 Methoo e Mana 45	wapping – Thrashing ction. ds – Free- agement
System Deadlo Contig 4 Virtual - File C 5 File Sy space Desigr Total h Text bo 1	Model ock avoid uous Mer MEMEC Memory Concept – FILE SN ystem Str Manager principle oours to b ook (s) :	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process of Access Methods – Directory St (STEM ucture – File System Implement ment Disk Structure – Structure – Structure – Structure – Structure – Structure – Disk Structure – Structure –	- Metho ecovery f nentation reation - ructure - tation - f Schedulir Kernel Mo	From Page File Directing – odel.	Dead egme e Rep Syste tory I Disk	andling Ilocks - 3 ntation v Tc blaceme em Mour Tc mpleme Manage	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio nting – File S tal Hrs ntation – All ement – Swa	nagemer on of fra Sharing - ocation ap-Spac	ck Pre tit – Sv 9 mes – Proteg 9 Methoo e Mana 45	wapping – Thrashing ction. ds – Free- agement
System Deadlo Contig 4 Virtual - File C 5 File Sy space Desigr Total h Text bo 1	n Model ock avoid uous Mer MEMEC Memory Concept – FILE S rocept – FILE S vstem Str Manager principle nours to b ook (s) : Abrahai Edition, ence(s):	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process of Access Methods – Directory St (STEM ucture – File System Implement ment Disk Structure – Structure – Structure – Structure – Structure – Structure – Disk Structure – Structure –	- Metho ecovery to mentation recation - I structure - tation - I Schedulir Kernel Mo alvin and Ltd, 2003	From Page File Direc ng – odel. d Gre 3.	Dead egme e Rep Syste tory I Disk	andling Ilocks - S ntation v Tc placeme em Mour Tc mpleme Manage	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocatio ntal Hrs ntation – All ement – Swa	nagemer on of fra haring - ocation ap-Spac	ck Pre nt – Sv 9 mes – 7 Protec 9 Methoc e Mana 45 Concep	wapping – Thrashing ction. ds – Free- agement
System Deadlo Contig 4 Virtual - File C 5 File Sy space Design Total h Text bo 1 Refere	Model n Model ock avoid uous Mer MEMEC Memory Concept – FILE SN ystem Str Manager principle nours to b ook (s) : Abrahar Edition, ence(s): Harvey Andrew	 Deadlock Characterization ance – Deadlock detection – R mory allocation – Paging – Segr DRY MANAGEMENT Demand Paging – Process of Access Methods – Directory St (STEM ucture – File System Implement ment Disk Structure – Disk St es - Case Study Linux System k e taught m Silberschatz, Peter Baer G John Wiley & Sons (ASIA) Pvt. 	- Metho ecovery f nentation reation - ructure - tation - I Schedulir Kernel Mo alvin and Ltd, 2003 Second atting Syst	from - Se - Pagg - File Direc - Direc - Direc - dodel. - d	Dead egmen syste tory I Disk eg G	andling Ilocks - 3 Ilocks - 3 Ilocks - 3 Tc Dlaceme em Mour Tc mpleme Manage Manage agne, "(earson E ntice Ha	Deadlocks Storage Mar vith Paging. tal Hrs nt – Allocation tal Hrs ntation – All ment – Swa Operating S ducation Pv Il of India Pv	nagemer on of fra Sharing - ocation ap-Spac	ck Pre nt – Sv 9 mes – 7 Protec 9 Methoc e Mana 45 Concep	wapping – Thrashing ction. ds – Free- agement

	K.S.	Rangasamy College of Techn	ology - /	Auto	nomo	ous Reg	ulation		R	2008
Depa	rtment	Computer Science and Engineering	Progra	mme	e Cod	le & Nan	ne 14 :	B.E. Cor and En		Science ng
			Semes	ster II	I					
Couro	e Code	Course Name		H	ours/\	Week	Credit	Ma	ximum	Marks
Course	e Code	Course Name		L	Т	Р	С	CA	ES	Total
08140	0306C	SOFTWARE ENGINEERING		3	0	0	3	50	50	100
Objective(s) Making aware of different life cycle models, Requirement dictation process, Analysis modeling and specification, Architectural and detailed design methods, Implementation and testing strategies, Verification and validation techniques, Project planning and management and Use of CASE tools.									nd testing	
1									9	
		W Engineering Paradigm – life ototyping, object oriented) -syste					incrementa	l, spiral,	WINV	/IN spiral,
2	SOFTW	ARE REQUIREMENTS				To	tal Hrs		9	
Analysi models	is and m s.	ngineering task – Initiating th odeling – data, functional, sce	enario ba			eling, cla	ass based r		and I	
3		N CONCEPTS AND PRINCIPLE	-			_	tal Hrs	_	9	
	ctural de	and concepts – design model sign – transform and transact								
4	TESTIN	G				To	tal Hrs		9	
testing	- testin	oftware testing – levels – types g boundary conditions – conti sues - unit testing – integration	rol flow	struc	ture	testing ·	- S/W testin	ig strate	gies -	strategic
5		ARE CONFIGURATION MANA					tal Hrs		9	
The SC	CM Repo	sitory-SCM process. Building blo	ock for C	ASE	– A T	axonom	y of CASE to	ools.		
Total h	ours to b	e taught							45	
Text bo	ook (s) :									
1	6 th editio	S.Pressman, Software engineeri on, 2001.	ng- A pra	actitio	ner's	Approa	ch, McGraw∙	-Hill Inte	rnation	al Edition,
Refere	nce(s):									
1	Ian Som	nmerville, Software engineering,	Pearson	edu	catior	n <mark>Asia,</mark> 6	th edition, 20	00.		
2		Jalote- An Integrated Approach			-	-		-		
3		F Peters and Witold Pedryez, " ns, New Delhi, 2000.	Software	Eng	ineeri	ing – Ar	Engineering	g Approa	ach", J	ohn Wiley

K.S.F	Rangasamy College of Techr	nology - J	Auto	nom	ous Re	gulat	ion			R 2008	
Department	Computer Science and Engineering	Progra	mme	e Coc	le & Nar	me	14 : I		Computer Science and Engineering		
		Sem	este	r III							
Course Code	Course Name		Ŧ	ours/	Week	Cr	edit	Ν	Naximu	m Marks	
Course Code	Course Marine		L	Т	Р		С	CA	ES	Total	
08140307P	DATA STRUCTURES LABORATORY		0	0	3		2	50	50	100	
Objective(s)	Teaching the students to wr and solving problems using	the ADTs				data	struct	ures as	Abstrac	t Data Types	
		List of e	•		ts						
 Linked Cursor Array in Linked Implem (a) F (b) F Rearch Heap S Quick S Implem (a) Linked (b) F (c) F 	n Tree ADT - Binary Search Tre Sort Sort nent Doubly Linked List using (T ADT Expressi ee C with the iv) Di	ons' follo splay	owing	operati	ions:					
1. Write a 2. Write a i) Inc	yond the syllabus: a C Program to Implement She a C program to implement the f order ii) Preorder iii) P a C program to implement the I	ollowing ostorder		-		rsals.					

K.S.Ran	gasamy College of Techn	ology - /	Auto	nom	ous Re	gulation			R 2008	
Department	Computer Science and Engineering	Progra	mme	e Coc	le & Nar	me 14 :		mputer igineer	Science and ing	
		Sem	este	r III						
	O		Н	ours/	Week	Credit	1	Maximum Marks		
Course Code	ode Course Name L T P C CA							ES	Total	
08140308P	MICROPROCESSORS / MICROCONTROLLERS LABORATORY		0	0	3	2	50	50	100	
LABORATORY LABORATORY Develop an ALP and perform the Arithmetic operations in 8085,perform the Arithmetic operations in 8086,the Arithmetic operations in 8051,Implement the program for code conversions, stepped motor speed control using 8085.										
 Implement 	an ALP for adding/Subtract an ALP for multiplying and an ALP for multiplying and an ALP for adding/Subtra an ALP to convert Hexa du an ALP for convert BCD to an ALP for BCD addition / an ALP for sorting the give an ALP for stepper moto an ALP for stepper moto an ALP for stepper moto an ALP for finding the larg an ALP for adding/Subtract an ALP for multiplication a	d dividing ction two ecimal to b Hexa d subtraction en array i allest and r control jest elem ction two	8-bit Tw 16- BCI ecim on at n as l larg using ent i 8-bit	t num vo 8-k bit nu D in 8 nal in nd ex cendi jest e g 808 n the t num	bers wit bit numb mbers a 085 mic 8085 mic ecute in ing orde lement i 5 kit given au bers wit	ers and exe ind execute roprocesso icroprocess 8085 Kit. r and execu n the array rray and exe h carry and	ecute in in 8085 r. or ite in 80 and exe ecute in execute	8085 k 5 kit 86 kit. ecute ir 8051 e in 80	9086 kit. kit. 51 kit.	
1. Implement 2. Implement	nd the syllabus: an ALP to generate 1 KHz an ALP for finding the nun an ALP for finding the nun	nber of o	dd a	nd ev	en numl	ber in the a				

	K.S.F	Rangasamy College of Tech	nology -	Auto	nom	ous Re	gula	tion			R 2008
Depar	rtment	Computer Science and Engineering	Progra	mme	e Coc	le & Nar	me	14 : E		mputer igineer	Science and ing
			Sem	este	r III					•	•
0				H	ours/	Week	С	redit	Ν	<i>l</i> laximu	ım Marks
Course	e Code	Course Name		L	Т	Р	С		CA	ES	Total
08140	0309P	OPERATING SYSTEMS LABORATORY		0	0	3		2	50	50	100
Objec	tive(s)	Provides a knowledge in Ur Unix.			Ũ		cepts	of OS	and Im	olemer	it in C throug
			List of e	xper	imen	ts					
1. 2.	- comm - write - basic Shell p	rogramming									
3 4 5 6 7. 8.	fork, ex Write p Write p Write C Given t FCFS.	ns isions	tat, opend calls of L calls of L calls of L command J burst tin	lir, re JNIX JNIX s like nes a	addir oper oper s Is, g and a	ating sy ating sy prep, etc rrival tin	stem stem	(open, (write display/	update,	e Ganti	
9.	SJF. F	he list of processes, their CP or each of the scheduling poli- und time									
10.	Priority	he list of processes, their CP . For each of the scheduling p und time									
11.	Round	he list of processes, their CP robin. For each of the schedu e turnaround time									
12.	Implem	ent the Producer – Consume	r problem	usin	g ser	naphore	es.				
	<u>Conte</u>	nt beyond the syllabus:									
13. 14. 15.	Implem	ent of page replacement tech entation of disk scheduling al entation of dynamic contiguo	gorithms								
K.S.Ra	ngasamy College of Technolo	gy - Auton	omous	s Regula	ation			R 20			
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Department	Computer Science and Engineering	Program	nme Co	ode & Na	ame	14		Computer Engineer	Science		
		Semester	r III		1						
Course Code	Course Name		urs / W		Cred	lit		aximum N	Marks		
		L	Т	Р	С		CA	ES	Total		
08140310P	COMPREHENSION II	0	0	3	0		100	00	100		
Objective(s)	Making the students understa technical knowledge of the st and Applied Science studer placement interviews.	udents, In hts and th	nprovin ereby	g the s improvir	kill leve ng the	el of em	Engine ployabili	ering, Te ity of stu	echnology udents in		
Methodology	 For each subject 200 Keyw prepared. These 200 Keywords are to is to be handed over to each s The staff who is handling discussion period (3 periods / 4. The staff will explain and qui keywords. In a similar way the student 	be printed student for t the subject semester) uestion the s have to p	in doul he subj i in the as give studen repare	ble colur ject. current n below ts using themsel	nn (2 x semes 'W' anc	50 v ster d 'H'	words) a will han ' type qu	and in 2 p Idle the r Jestions I	bages and respective		
	The Schedule for Conduct of (Comprehen	sion Sı	ubject.							
)M/aak				Activ	-					
	Week	First 1½ F Subject (N units)			ext 1½ F Ibject (N		od of units)		lours		
	W1	Ś1	(2)		Sź	2 (2)		3		
	W2	S3	(2)		S	4 (2)		3		
	W3	S5	(2)		S	6 (2)		3		
Execution	W4	Test – I	(Portio	n : 2 uni	ts in ead	ch s	ubject)		1		
	W5	S1	(3)		Sź	2 (3)		3		
	W6		(3)		S4	4 (3)		3		
	W7	S5	(3)		S	6 (3)		3		
	W8	Test – II	(Portio	n : 3 uni	ts in ea	ch s	subject)		1		
	W9		Discus	sion					3		
	W10	Test – I	II (All 5	units an	d all the	e su	bjects)		1		
							Tota	al	24		
Evaluation	 It is a two credit (3 hot Only Continuous Asse Each test will carry 10 Component 	essment (C	A) and	No End	Semest	ter e e su	bjects ir		ve units.		
	Test – I				25		6				
	Test – II				25						
	Test – III				 50						
	Total				100						
04	08140301S Engineering Ma	thomatica	11								
S1	08140301S - Engineering Ma 08140302S - Data Structures		11								
S2	08140303S - Advanced C	Using C									
S3		and Miara	control	lor							
S4	08140304C - Microprocessor		CONTROL	IEI							
S5	08140305C - Operating Syste										
S6	08140306C - Software Engine	eening									

K.S.F	Rangasamy College of Techn	ology - A	Auto	onom	ous Re	gula				R 2008
Department	Computer Science and Engineering	Progra	mme	e Cod	le & Na	me	14 : E		mputer Igineeri	Science and
	g	Sem	este	r III					<u>.</u>	··9
			H	ours/	Week	C	redit	N	<i>A</i> aximu	m Marks
Course Code	Course Name		L	Т	Р		С	CA	ES	Total
08140311P	CAREER COMPETENCY DEVELOPMENT I		0	0	2		0	100	00	100
Objective(s)	Improving the skill level of st attending competitive exams									nterviews ar
•	de Skills									Hrs
Time and dist b. Verbal Reas c. Nonverbal R	bility : Average - Numbers and ance - Trains oning : Series - Analogy - Cla easoning : Series – Analogy nming Skills	-		entag	je - Pro	ofit &	loss - T	ïme and	d work	8
v	Basics of C - Data Types - Con	ditional a	nd L	oopir	ng State	emen	s – Fu	nctions	-	0
Arrays and Stri	ngs - Structures and Unions			•	0					6
3 Written	Communication Skills									
	n in the usage of noun, pro n – Introduction to oral commu		djec	tive,	Verb,	Adve	b&P	repositi	ons –	4
	Nritton Toot									2
Evaluation I – V	ommunication Skills									
	Two Minutes talk (each section	n is divide	ed in	to 3 c	iroups (of 22	each)			
	Two minutes Extempore Spee							ips of 2	2	2 2
each)										2
	cal Paper Presentation									
Evaluation IV -	Technical Paper Presentation	I (Assoc	iatio	n Ses	ssion)					8
									Total	32
Reference(s):										
(Ch - 6,	garwal, "Quantitative Aptitude 7, 8, 10, 11, 15, 17 & 18) (unit	t – I)							-	
	garwal , "A Modern Approach elhi, 2008, Part I – Section I (C								and & (Company Lt
3 Yashav	ant Kanetkar, "Let us 'C'", B	PB Publi	catio	ons, N	lew De	lhi, 2	002 (Cł	1 -1, 3,	4, 5, 6	, 8, 9 and 1
(unit – I	-)	KODOT	000	0 (11	<u> </u>	11/0	1			
	uide by English Department of	KSRCI,	200	18 (Ur	nit – III,	IV &	V)			
VALUATION										
S.No. Particu		Test Pc								Marks
Evalua Written	Test	Unit I - Unit III ·			, Unit II	- 00	2 – 30			50
	inutes Talk	P – 10	Mark	ks, C	– 5 Mai	rks				15
	inutes speech Extempore	P – 10	Mark	ks, C	– 5 Ma	rks				15
t Evalua Techni	cal Paper Presentation	P – 10	Mark	ks, C	– 5 Ma	rks, C	! – 5			20
P – Presentatio	on C – Content Q – Quer	ries C)Q –	Obje	ctive ty	pe qu	estion	T – T	otal	T = 100
2. Respecti the stude 3. HoDs wi	n paper and keys will be suppli- ive Departments will conduct E ents to the Training Cell. Il display about 50 topics for or og & tests will be conducted or	valuatior	n I, II unica	, III &	IV, cor	rect a	ind sub	mit the	marks	

4. All training & tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.

K.S.R	angasamy College of Techno	logy - Aı	utono	οποι	ıs Regu	lation		R	2008
Department	Computer Science and Engineering	, v		e Coc	le & Nar	ne ¹⁴		ompute nginee	r Science ing
		Semeste							
Course Code	Course Name		Н	ours/	Week	Credit	Ma	ximum	Marks
			L	Т	Р	С	CA	ES	Total
08140401C	DISCRETE MATHEMATICS		3	1	0	4	50	50	100
Objective(s)	At the end of the course, stude logic of a program, gain know basic for the prolog language aware of a class of functions in to input output functions in algebraic structures such as s	ledge wh . An und which trai compute	ich h ersta nsfor r sci	as ap Inding m a f ence	plication g in ider inite set Expos	n in expert tifying pat into anoth ure to cor	system, terns on er finite	data b many set whi	ase and a levels, be ch relates
1 PROPOS	ITIONAL CALCULUS				To	tal Hrs		12	
Truth tables – Ta DeMorgan's Laws Arguments - Valid		 Contra 	posit	tive -	 Logican nctive n 	l equivale ormal form	ences an	id impl es of ir	ications -
2 PREDICA	TE CALCULUS				To	tal Hrs		12	
Logical equivale specification and g 3 SET THEG Basic concepts – – Relations on se Equivalence relati	Notations – Subset – Algebra o ts –Types of relations and thei ons –functions – Classification	tified state ments. of sets – ⊺ ir propert	emer The p ies -	nts – Dowel - Rela	Theory of To set – C ational n	of inference al Hrs ordered pa natrix and	e – The irs and C the grap	rules of 12 Cartesia oh of a	n product relation –
functions – Inverse 4 LATTICE	e functions & BOOLEAN ALGEBRA				To	al Hrs		12	
Partial ordering -	Poset – Hasse diagram – La d minimization of Boolean functi		d the	eir pr			ces - Bo		Algebra –
5 GROUPS					To	al Hrs		12	
	s – Definitions – Examples – F submonoids - Cosets and Lagra						– Homo	morphi	sm – Sub
Total hours to be t	aught							60	
Text book (s) :									
	J.P and Manohar R, "Discret Tata McGraw–Hill Pub. Co. Ltd				Structure	es with A	pplicatio	ns to	Computer
	Grimaldi, "Discrete and Combir Education Asia, Delhi, 2002.	natorial N	lathe	ematio	cs: An A	pplied Intr	oduction	", Four	th Edition,
Reference(s):									
Indian rep	Kolman, Robert C. Busby, Sha rint, Pearson Education Pvt Ltd	., New De	elhi, i	2003					
2 Kenneth H Co. Ltd., N	H.Rosen, "Discrete Mathematic: New Delhi, 2003.	s and its	Appl	licatio	ons", Fift				
	ohnsonbaugh, "Discrete Mathe	ematics",	Fifth	n Edi	tion, Pe	arson Edu	ucation A	Asia, N	ew Delhi,

K.S.	Rangasamy College of Techno	ology - A	uton	omo	us Regu	lation		R	2008
Department	Computer Science and Engineering	Progra	amme	e Coc	le & Nan	ne 14 : E	3.E. Com and Eng		
		Semester	IV				-		
Course Code	Course Name		H	ours/	Week	Credit	Max	imum I	Marks
Course Coue	Course Name		L	Т	Р	С	CA	ES	Total
08140402S	DIGITAL SIGNAL PROCESSI (Common to CSE and IT)		3	1	0	4	50	50	100
Objective(s)	To have an overview of signals design of FIR filters, the effect				pths & ap	plications o		f IIR filt	ers, the
	S AND SYSTEMS				_	tal Hrs		9	
-Sampling theore Z transform -Cor	f digital signal Processing –Conc em –Discrete time signals. Discre volution and correlation.				Analysis				
	T – Efficient computation of DF		ios o	f DET			Radiv 2	•	imation
	ition in Frequency algorithms.	rropen	165 0		-1116			- Det	lination
	R DESIGN				То	tal Hrs		9	
	 System Design of Discrete tir e. Bilinear transformation – App 					us time filte	r – IIR f	ilter de	sign by
	ER DESIGN	- chillen	11 40	Trati		tal Hrs		9	
Symmetric & An windows – Struct	tisymteric FIR filters – Linear ure for FIR systems.	phase fi	lter -	- Wii	ndowing	technique	- Recta	ingular,	Kaiser
5 FIXED W	ORD LENGTH EFFECTS IN DIG	GITAL FI	LTEF	s	То	tal Hrs		9	
rounding, Input	ntation – types, Quantization No quantisation ever – steady sta P – Model of speech wave form	ite input	nois						
Total hours to be	taught							45	
Text book (s) :									
Application	Proakis and Dimtris G Manola on", PHI/Pearson Education, 200	akis, "Dig 0, 3 rd Edi	gital ition.	Sign	al Proce	essing Princ	ciples, A	lgorith	ms and
Reference(s):									
PHI/Pear	Oppenheim, Ronald W Schafe son Education, 2000, 2 nd Edition						0		0,
2 2002.	Johnson, "Introduction to Digital	-		-					
3 Sanjit K. Second E	Mitra, "Digital Signal Processinç Edition.	g: A Corr	npute	r – E	Based Ap	proach", Ta	ata McG	raw-Hil	l, 2001,

K.S	B.Rangasamy College of Techno	logy - Au	utono	omou	s Regu	latior	ו		R	2008
Department	Computer Science and Engineering	Progra	amme	e Cod	e & Nan	ne	14 :	B.E. Co and Er		r Science ring
		Semeste	er IV							
			H	ours/\	Neek	Cr	edit	Ma	ximum	Marks
Course Code	Course Name		L	Т	Р	(С	CA	ES	Total
08140403C	COMPUTER ARCHITECTURE		3	0	0		3	50	50	100
Objective(s)	To have a thorough understandi and discuss in detail the ope implementation of fixed-point an to study in detail the different t hierarchical memory system in different ways of communicating	eration of d floating ypes of of cluding of	of th g-poir contr cache	e ari nt ado ol an e mei	thmetic dition, su d the co mories a	unit ubtrac oncep and	inclue ction, i ot of p virtual	ding th multiplic pipelining memor	e algo ation & g and	orithms & & & & & & & & & & & & & & & & & & &
1 BASIC	STRUCTURE OF COMPUTERS				Tot	al Hr	s		10	
addresses - N	s - Basic operational concepts - B lemory operations – Instruction a sic I/O operations – Stacks and qu	ind instru								
2 ARITH	METIC UNIT				Tot	al Hr	s		8	
	ubtraction of signed numbers – d multiplication and fast multiplicat									
3 BASIC	PROCESSING UNIT				Tot	al Hr	s		9	
Micro program	oncepts – Execution of a complete med control - Pipelining – Basic c - Data path and control considera	oncepts	– Da	ta ha	zards –	Instr				
4 MEMO	RY SYSTEM				Tot	al Hr	s		9	
	s – Semiconductor RAMs - ROMs - Virtual memory- Memory Manage								s - Pe	rformance
5 I/O OR	GANIZATION				Tot	al Hr	s		9	
Accessing I/O Interfaces (PCI	devices – Interrupts – Direct M SCSI, USB).	emory A	cces	s – E	Buses –	Inte	rface	circuits	– Sta	ndard I/O
Total hours to I									45	
Text book (s) :	-									
1 Carl Ha	amacher, Zvonko Vranesic and Sa	afwat Zal	ку, 5 ^t	^h Edit	ion "Cor	npute	er Org	anizatio	n", Mc	Graw-Hill,
Reference(s):										
	Stallings, "Computer Organization Education, 2003.	n and Ar	chite	cture	– Desię	gning	for P	erforma	nce", 6	th Edition,
David	A.Patterson and John L.Henness	sv "Com	nuto	r Ora	onizatio	n an		ian. Th	h h	ardware /
2 softwar	e interface", 2 nd Edition, Morgan K	aufmann	, 200	1 Olg 12.	Janizalio	ii aii		sign. Ti	ie n	aiuwaie /

K.S.	Rangasamy College of Techno	logy - Αι	utono	omou	ıs Regul	ation		R	2008
Department	Computer Science and Engineering	Progra	Imme	e Cod	e & Nam	ne 14 :	B.E. Co and Er		r Science ing
		Semeste	er IV						
Course Code	Course Name		Н	ours/\	Neek	Credit	Ma	ximum	Marks
Course Code	Course Marile		L	Т	Р	С	CA	ES	Total
08140404C	OBJECT ORIENTED PROGRA AND C++		3	1	0	4	50	50	100
Objective(s) Students study and understand the concepts of Object oriented Programming an designing classes in object oriented programming. It makes student to write applications using C++.									
1 INTROE	DUCTION				Tot	al Hrs		8	
methodology – 0 2 CLASSE	paradigm – Elements of obje C++ fundamentals – Data types, (ES AND OBJECTS	Operators	s and	expr	essions Tot	<u>– Control f</u> al Hrs	low – Ar	rays ar 10	nd strings.
- Friend function	nction over loading – Structures and sand friend classes – Static data	a and me	mbe	r func	tions.		ng – Cla:		nd objects
Ũ	RUCTORS AND OPERATOR OV					al Hrs		9	
Operator overloa	Types of constructors – Destru	ctors, Dy	/nam	IC OD	jects –	Pointers to	object	s – thi	s pointer,
	TANCE AND TEMPLATES				Tot	al Hrs		9	
	ypes of inheritance, Virtual fun th templates – Function templates					tions – At	ostract o	lasses	, Generic
5 FILE HA	NDLING AND EXCEPTION HAN	IDLING			Tot	al Hrs		9	
manipulators, F	Console streams – Console strea iles – File streams classes – File – Exception handling.								
Total hours to be								45	
Text book (s) :									
1 K.R.Ver	nugopal, Rajkumar Buyya, T.Ravis	shankar,	"Mas	stering	g C++", ⊺	ГМН, 2003	•		
Reference(s):									
	urusamy " Object Oriented Progra	•		C++",	TMH 2/e).			
2 Yashvar	nth Kanithkar, "Letus C++", PBP p	oublicatio	ns.						
3 Bjarne S	Stroustrup, "The C++ programmin	g langua	ge", /	Addis	on Wesl	ey, 2000.			

K.S	Rangasamy College of Techno.	logy - Αι	Itono	omou	ıs Regu	ation		R	2008
Department	Computer Science and Engineering	Progra	Imme	e Cod	le & Nan	ne 14 :		ompute ngineer	r Science ing
		Semeste	r IV						
Course Code	Course Name		H	ours/	Week	Credit	Ma	iximum	Marks
Course Coue	Course Name		L	Т	Р	С	CA	ES	Total
08140405C	MULTIMEDIA SYSTEMS		3	0	0	3	50	50	100
Objective(s)	The graphics techniques an technologies. The students to					nedia con	cepts a	and va	rious I/C
•	IT PRIMITIVES					al Hrs		9	
Transformation	Line – Circle and Ellipse Draw s – Two-Dimensional Clipping and			ns —			Dimens	sional (Geometric
2 THREE	-DIMENSIONAL CONCEPTS				Tot	al Hrs		9	
Three-Dimensi	onal Object Representations – Th onal Viewing – Color models – An		ensio	nal (leling T	ransfor	mations -
3 MULTI	MEDIA SYSTEMS DESIGN				Tot	al Hrs		9	
Databases.	Defining objects for Multimedia s	ystems -	- Mu	ltime		interface al Hrs	standar	rds – M 9	Iultimedia
and audio – Vic	Decompression – Data & File F leo image and animation – Full me				ge and re	etrieval Teo		es.	gital voice
5 HYPER						al Hrs		9	
component – Document man	noring & User Interface – Hypern Creating Hypermedia message agement – Distributed Multimedia	 Integr 	ated					ds –	
Total hours to b	e taught							45	
Text book (s) :									
I (UNIT I	Hearn and M.Pauline Baker, "Cor : Chapters 1 to 6; UNIT 2: Chapt	er 9 – 12	, 1 <u>5</u> ,	16)				on, 200	3.
2 (UNIT 3	K Andleigh and Kiran Thakrar, "M 3 to 5)	lultimedia	ı Sys	tems	and Des	sign", PHI,	2003.		
Reference(s):									
	leffcoate, "Multimedia in practice t	-	-						
	Vandam, Feiner, Huges, "Comp edition 2003.	outer Gra	aphic	s: Pi	rinciples	& Practic	e", Pea	arson E	ducation

	K.S.R	angasamy College of Techno	logy - A	uton	omo	us Regu	lation		R	2008
Dep	partment	Computer Science and Engineering	Progra	Imme	e Cod	le & Nan	ne 14 :	B.E. Cor and Eng		
			Semeste	er IV						
Cour	rse Code	Course Name		H	ours/\	Week	Credit	Max	kimum I	Marks
Cour	se coue	Course Name		L	Т	Р	С	CA	ES	Total
081	40406C	DESIGN AND ANALYSIS OF ALGORITHM		3	0	0	3	50	50	100
Obje	ective(s)	To introduce basic concepts or sorting and searching algorit methods.								
1	BASIC CC	NCEPTS OF ALGORITHMS				То	tal Hrs		8	
		otion of Algorithm – Fundame							oblem	types -
Funda	mentals of t	he Analysis Framework – Asym	ptotic No	otatio	ns ar			Classes.		
2	ALGORIT	ATICAL ASPECTS AND ANAL` HMS	ISIS OF			10	tal Hrs		8	
Mathe		lysis of Non-recursive Algorithm	n – Math	emat	ical A	Analysis	of Recursiv	e Algorit	:hm – E	xample:
Fibona		s – Empirical Analysis of Algori		Igorit	hm V			-		•
3	ALGORIT					_	tal Hrs		10	
		lection Sort and Bubble Sort -								
		erge sort – Quick Sort – Binal nquer – Insertion Sort – Depth f						nd Relate	ed Prop	perties -
4		HMIC TECHNIQUES	ist Searc	li al			tal Hrs		10	
•		nquer – Presorting – Balanced	Search t	rees	– AV	-		nd Heap		Dynamic
		arshall's and Floyd's Algorithm								
Algorit		al's Algorithm – Dijkstra's Algori	thm – Hu	ıffma	n tree			-		
5		HM DESIGN METHODS				-	tal Hrs		9	
		Queen's Problem – Hamiltoniar		oroble	em —	 Branch 	n and boun	d – Assig	nment	problem
	nours to be t	em – Traveling salesman proble	m.						45	
	ook (s) :	augin							-10	
1	()	vitin, "Introduction to the Design	and Ana	lveie	of AI	aorithm"	Dearson F	ducation	Asia	2003
	ence(s):	Man, Introduction to the Design		19313		gonunn	, 1 64130111	uucalioi	i Asia, i	2003.
1	• •	en, C.E. Leiserson, R.L. Rivest	and C. S	Stein	"Intro	oduction	to Algorith	ms" PHI	Pvt I t	4 2001
-		se and Allen Van Gelder, "Co								
2		Education Asia, 2003.	Sinputer	Aigu		5 - 1110		Design		
3		J.E. Hopcroft and J.D.Ullman, ' Asia, 2003.	'The Des	sign a	and A	nalysis	Of Comput	er Algori	thms",	Pearson

K.S.	Rangasamy College of Techn	ology - A	utor	nomo	us Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	mme	e Cod	e & Nar	ne 14:1	3.E. Cor and En		Science ng
		Semeste	er I\	/					
Course Code	Course Name		H	ours/\	Neek	Credit	Ma	ximum	Marks
Course Code			Γ	Т	Р	С	CA	ES	Total
08140407P	DIGITAL SIGNAL PROCESSI LABORATORY	NG	0	0	3	2	50	50	100
Objective(s)	To learn Mat Lab Command techniques, design IIR structure		emer	it FF	T and	DFT algorith	nm, de	sign fi	lter using
	Li	ist of expe	erime	ents					
 Generati Program Program Program Z & Inversion Z & Inversion IIR filter IIR filter Butterword FIR filter FIR filter IIR filter IIR filter IIR filter IIR filter 		thod.							

K.S.F	Rangasamy College of Techno	ology - A	uton	omo	us Regu	Ilation		R	2008
Department	Computer Science and Engineering	Progra	Imme	e Cod	e & Nan	ne 14 :	B.E. Con and Eng		
		Semester	r IV						
Course Code			н	ours/\	Neek	Credit	Max	kimum	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140408P	OBJECT ORIENTED PROGRAMMING LABORATO		0	0	3	2	50	50	100
Objective(s)	Used to develop list of environ	ment in (C++	with o	object or	iented con	cept		
	Lis	t of expe	rimer	nts					
 Implemer 	 Implementation of Call by N Implementation of Call by N Function overloading. Atation of Simple Classes for understation of Static data and memberstation of Static data and memberstation of Constructors. Constructor overloading. Copy constructor. Atation of this pointer. Atation of operator overloading. Unary operator Binary operator Atation of File handling. Sequential access. Random access. Anadom access. Atation of overloading. 	derstandi end class er functio d delete c	ng ol ses. ns.	bjects		-			

	Rangasamy College of Techne	ology - A	Autor	nomo	us Reg	ulation		R	2008
Department	Computer Science and Engineering	Progra	amme	e Cod	e & Nar	me 14:1	B.E. Coi and En		Science ing
		Semest	ter I	/					
Course Code	Course Name							ximum	Marks
Course Code			L	Т	Р	С	CA	ES	Total
08140409P	MULTIMEDIA AND GRAPHIC LABORATORY	S							100
Objective(s)	To understand the C graphics image editing and animation a							on exp	erience
	Li	ist of exp	erime	ents					
1. To imple	ement Bresenham's algorithms f	for line, ci	ircle	and e	llipse dı	awing			
 To perfo To imple To perfo To visua To conv To conv To imple To imple To perfo 	ement Bresenham's algorithms f orm 2D Transformations such as ement Cohen-Sutherland 2D clip orm 3D Transformations such as alize projections of 3D images. ert between color models. ement text compression algorithmement image compression algorithmement orm animation using any Animation orm basic operations on image u	s translati oping and s translati m ithm ion softwa	on, re l winc on, re are	otatio dow-v otatio	n, scalir iewport n and so	ng, reflection mapping caling.	and sha	aring.	
 To perfo To imple To perfo To visua To visua To conv To imple To imple To perfo To perfo To perfo 	orm 2D Transformations such as ement Cohen-Sutherland 2D clip orm 3D Transformations such as alize projections of 3D images. ert between color models. ement text compression algorith ement image compression algor orm animation using any Animati	s translati oping and s translati m ithm ion softwa	on, re l winc on, re are	otatio dow-v otatio	n, scalir iewport n and so	ng, reflection mapping caling.	and sha	aring.	

K.S.Ra	angasamy College of Technology - Autonomous Regulation R 2008											
Department	Computer Science and	Programme Co	ode & Na	ame	14 : B.E. C							
	Engineering				and E	Engineer	ing					
		Semester IV Hours / W	look	Credit	Ma	ximum N	Iorko					
Course Code	Course Name		P	Credit	CA	ES	Total					
08140410P	COMPREHENSION III	0 0	3	0	100	00	100					
001404101	Making the students understa			_								
Objective(s)	technical knowledge of the st and Applied Science studen placement interviews.	udents, Improvin	ig the s	kill level	of Engine	ering, Te	chnology					
Methodology	 For each subject 200 Keyw prepared. These 200 Keywords are to is to be handed over to each s The staff who is handling discussion period (3 periods / 4. The staff will explain and qu keywords. In a similar way the students 	be printed in doul tudent for the sub the subject in the semester) as give uestion the studen s have to prepare	ble colur ject. current n below. ts using themsel	mn (2 x 5) semeste	0 words) a er will hand H' type que	nd in 2 p dle the r estions li	ages and espective					
	The Schedule for Conduct of C	Comprehension Su	ubject.									
			<u> </u>	Activit								
	Week	First 1½ Period Subject (No. of units)		ext 1½ Pe Ibject (No	eriod b. of units)		lours					
	W1	S1 (2)		S2	(2)		3					
	W2	S3 (2)		S4			3					
	W3	S5 (2)		S6			3					
Execution	W4	Test – I (Portio	n : 2 uni				1					
	W5	S1 (3)		S2			3					
	W6	S3 (3)		S4	• •		3					
	W7	S5 (3)		S6	. ,		3					
	W8	Test – II (Portio		ts in each	n subject)		1					
	W9	Discus		1 - 11 (b			3					
	W10	Test – III (All 5	units an	id all the			1					
	 It is a two credit (3 hou 	ure (week) Leberg	tony typ	0.001/000	Tota		24					
Evaluation	 Only Continuous Asse Each test will carry 10 	essment (CA) and	No End	Semeste	subjects in		ve units.					
	Component			Weight a	age							
	Test – I			25								
	Test – II			25								
	Test – III			50								
	Total			100								
S1	08140401S - Digital Signal Pro	ocessing										
S2	08140402C - Discrete Mather											
S3	08140403C - Computer Archi											
S4	08140404C - Object Oriented	<u> </u>	d C++									
S5	08140405C - Multimedia Syste											
S6	08140406C - Design and Ana	lysis of Algorithm										

K.S	Rangasamy College of Techr	nology - J	Auto	nom	ous Re	gula				R 2008
Department	Computer Science and Engineering	Progra	mme	e Coc	le & Nai	me	14 : E		nputer gineer	Science and
		Sem	este	r IV		1		r		
Course Code	Course Name		H	ours/	Neek	C	credit	Ν		m Marks
			L	Т	Р		С	CA	ES	Total
08140411P	CAREER COMPETENCY DEVELOPMENT II		0	0	2		0	100	00	100
Objective(s)	Improving the skill level of and attending competitive ex									
1 APT	TUDE SKILLS		0.0 j	00						Hrs
interest - Con b. Verbal Rea test - Logic - S c. Nonverbal	ability : Ratio and proportion pound interest - Alligation or m asoning : Coding and decoding Statement – Arguments - Staten Reasoning : Analytical Reasonin GRAMMING SKILLS	nixture - A - Blood nents - A	krea Rela kssur	tions nptio	- Puzzl	e Te	st - Dire			8
a. C Languag	e : Pointers - File Operations ures : Linked List – Stack – Que	eue – Soi	tina							6
	TEN COMMUNICATION SKILL									4
Error correcti	on in the usage of conjunctio	ns, Tens	es, '	Voice	s & S	ubje	ct – ver	b Agre	ement	
(concord) - Es										2
Evaluation I –										
	Group Discussion I									2
	: - Group Discussion II									2
	NICAL PAPER PRESENTATIO	N								
Evaluation IV	, Technical Paper Presentation	II (Assoc	iatio	n Ses	sion)					8
									Total	32
Reference(s):										
	ggarwal ,"Quantitative Aptitude		nd 8	& Co	mpany	Ltd.,	New D	Delhi, R	eprint	2008 (Twice)
	<u>12, 16, 19, 20, 21, 22 & 24 (Unit</u> ggarwal,"A Modern Approach		يد اد	od N	n - Vc	rhal	Roscor	ning" S	Chan	1 & Company
Ltd., 1 & 6) (Jew Delhi, 2008, Part I – Sectic Unit – I)	on I (Ch ·	4,5	,6 & 8	8) Part I	- Se	ction II ((Ch -1,	2 & 3)	Part II (Ch 4,5
	avant Kanetkar, "Let us 'C' ", B									
	Allen Weiss , "Data Structures a	and Algori	ithm	Anal	/sis in C	с", Ре	earson I	Educatio	on 200	2, (Ch -3,7)
Unit - 5 CCD	Guide of English Department of	KSRCT -	- 20	08 (U	nit III. I\	/&\	/)			
EVALUATION	.			(-	, .		/			
S.No. Partic		Test Po	rtion							Marks
1 Evalua		Unit I –	OQ -		Jnit II – (DQ –	30			50
vvritte	n Test	Unit III -	- OQ	20						50
2 Group	ation II Discussion I ation III				Marks,					15
3 Group	Discussion II	-					- 5 Marks	5		15
4	ical Paper Presentation	P – 10 N	/larks	s, C –	5 Marks,	Q –	5			20
	C-Content Q-Queries OQ-Obje	ective type	ques	stion T	-Total T	S–Te	eam Skill	S		T = 100
 Respessively student HoDs All trained 	ion paper and keys will be supplied active Departments will conduct Evants to the Training Cell. will display about 50 topics for oral ning & tests will be conducted on o iation Session. dents may be divided into 10 group	communic dd Saturd	ation	& IV, (n. Sessio	correct a	nd su eriod	ibmit the s in FN 8	marks c & Sessio	n of 2 p	eriods in AN &

K.S.R	angasamy College of Techn	ology - Auto	onomou	ıs Reg	ulatio	on		R 20	08
Department	Computer Science and Engineering	Program c	ode & N	lame	1	4 : B.E. C	Comput Engine		ce and
		Semest	er V						
Course Code	Course Name		Hou	rs/We	ek	Credit	М	aximum	Marks
Course Code	Course Marile		L	Т	Р	С	CA	ES	Total
08140501G	PROFESSIONAL ETHICS		3	0	0	3	50	50	100
Objectives	To create an awareness or Students.	Ethics and	Human	Value	s and	instill Mo	oral and	d Social	Values in
1 INTRODU	CTION				To	tal Hrs		9	
action – Major Gilligan theory	 Engineering as a professio ethical issues – Three type Moral dilemmas – Moral aut RING AS SOCIAL EXPERIME 	es of inquiry onomy – Val	- Kohl	berg's	stage s				
managers, cor introduction, rul	ith standard experiments – nsultants and leaders – Acc les of practice and professional RS RESPONSIBILITY FOR \$	countability - al obligations	- Role	of co	des - shuttle	- Code (of ethi	cs for e	
Safety and Ris	k – Types of risks – Safety a e three mile Island disaster ca	and the engin	neer – I		ing fo	r safety -		•	analysis –
4 RESPONS	SIBILITIES AND RIGHTS				To	tal Hrs		9	
	wo senses of loyalty – Profess onfidentiality – Acceptance of								ollective
5 GLOBAL I	SSUES				To	tal Hrs		9	
	 Cross Cultural Issues – Th Intellectual property rights (IP 		s trage	dy cas	e stu	dy – Corr	puter	ethics -	Weapons
Total hours to b	be taught							45	
Text book :									
1 Govindara Delhi, 200	jan M, Natarajan S, Senthil K 5.	umar V.S, "E	ngineer	ing Eth	nics",	Prentice I	Hall of	India (P)	Ltd, New
References:									
Limited, N	/artin and Roland Schinzinge ew Delhi, 2008.		U U					Ũ	
2 Govindan Chennai, 2	K.R., and Sendhil Kumar S., 2008.	"Professiona	al Ethics	s and H	lumai	n Values"	, Anura	adha Pul	olications,

	K.S.Ra	ingasamy College of Technology Auto	onomoi	us Reg	gulatio	on		R	2008
Depart	ment	Computer Science and Engineering	Progra	am cod	le & N	ame		B.E. Cor and En	nputer gineering
		Semeste	r – V						0 0
0	0		Hou	ırs/We	ek	Credit	Ν	laximum	Marks
Course	Code	Course Name	L	Т	Р	С	CA	ES	Total
08140	502C	COMPUTER NETWORKS	3	1	0	4	50	50	100
Objecti	ve(s)	Understanding the concepts of data standards employed in computer netw with different protocols and network co	vorking,	and to					
1 DA	TA COM	IMUNICATIONS			То	tal Hrs		8	
OSI mode	el – Tran	oonents and Categories –Line Configura smission Media – Coaxial Cable – Fiber			ems.		ls and		
	TA LINK	LAYER and correction – Parity – LRC – CRC -				tal Hrs		10	
- IEEE 80 3 NE	2.4 - IEE TWORK	o back-N ARQ – selective repeat ARQ- EE 802.5 – FDDI – Bridges. LAYER Circuit Switching – Packet Switching–			То	tal Hrs		9	
		s – Distance Vector Routing – Link State			g me	tnoas –	Subne	etting —	- Routers-
4 TR	ANSPOF	RT LAYER			То	tal Hrs		9	
		ort layer – Multiplexing – Demultiplexi htrol Protocol (TCP) – Congestion Contro						Protocol	(UDP) –
		ON LAYER				tal Hrs		9	
Cryptogra	aphy – P	ace (DNS) – FTP – HTTP - WWW – S rivacy Security – Digital Signature.	ecurity	- Sym	metrio	cKey C	ryptogi	aphy – F	Public Key
Total hou		taught						45	
Text bool	()								
200	06.	Forouzan, "Data communication and Ne	etworkin	ig Upd	ate ",	Tata Mo	Graw-l	Hill, Thiro	Edition,
Referenc	()								
Inte	ernet", Pe	Kurose and Keith W. Ross, "Computer earson Education, 2003.		•					•
	•	erson and Peter S. Davie, "Computer Ne					Ltd., Se	econd Ec	lition.
		Tanenbaum, "Computer Networks", PHI,							
4 Wil	liam Stal	llings, "Data and Computer Communicat	ion", Six	xth Edi	tion, F	Pearson	Educa	ion, 20 <mark>0</mark>	0.

K.S.	Rangasamy College of Technology A	utonon	nous F	Regula	tion		R 20	08
Department	Computer Science and Engineering		0	code &	Name		B.E. Com e and Eng	
	Seme	ester –						
Course Code	Course Name		urs/We		Credit		aximum M	
		L	Т	P	C	CA	ES	Total
08140503S	DATABASE MANAGEMENT SYSTEMS (Common to CSE,IT)	3	1	0	4	50	50	100
Objective(s)	Learning the fundamentals of data r using ER diagram and the study of SC in physical DB design and recovery p the emerging trends in the area of dist and XML	QL, rela procedu	tional ire and	databa d to ha	ise design ive an intr	techniqu oductory	ues which knowled	will help ge about
1 INTROE	DUCTION AND CONCEPTUAL MODELI	NG		To	tal Hrs		9	
	File and Database systems- Database ional Algebra and Calculus.	system	struct	ure – [Data Mode	els – ER i	model – F	Relational
2 RELATI	ONAL MODEL			To	tal Hrs		9	
- Functional c 3 DATA S Record storag	efinition- Queries in SQL- Updates- View lependencies - Normalization for Relation TORAGE AND INDEXING CONCEPTS je and Primary file organization- Second Hashing Techniques – Index Structure for	nal Dat	abase: age D	s (up to To evices	<u>o BCNF).</u> tal Hrs - Operatio	ns on Fil	9 es- Heap	File-
	ACTION MANAGEMENT				tal Hrs	Xes- D-1	<u>9</u>	
Schedule and	Processing – Introduction- Need for Co I Recoverability- Serializability – Concu pased concurrency control – Recovery dow Paging.	urrency	Contr	ol – T	ypes of L	ocks- Tv	vo Phase	locking-
	NT TRENDS			To	tal Hrs		9	
Types- Inherit data Storage	ed Databases – Need for Complex Datance Reference Types - Distributed d – XML – Structure of XML- Data- XM nd Data Warehousing.	atabas	es- Ho	moger	nous and	Heteroge	enous- Di	istributed
Total hours to	be taught						45	
Text book (s)	:							
1 Abrahan McGraw	n Silberschatz, Henry F. Korth and S. S -Hill, 2002.	Sudarsh	nan - "	Databa	ase Syster	m Conce	epts", Fifth	Edition,
Reference (s)	:							
Educatio	Elmasri and Shamkant B. Navathe, "Fu on, 2003.				-			
-	Ramakrishnan, "Database Management	-				-		
Pearson	Garcia–Molina, Jeffrey D.Ullman and Education- 2000.					•	•	
	ob and Corlos Coronel- "Database on Learning Course Technology- Fifth e			sıgn,	Implement	tation ai	nd Mana	gement",

K.S.Ra	angasamy College of Techr	nology -	Aut	onom	ous Re	gula	tion			R 2008
Department	Computer Science and Engineering	Progra	Imm	e Cod	e & Na	me	14	: B.E.		uter Science and eering
		S	eme	ester V	/					
Course Code	Course Name		Н	ours/V	Veek	Cre	edit		Maxii	mum Marks
			L	Т	Р	0	2	CA	ES	Total
08140504C	PROBABILITY AND QUE THEORY		3	1	0		4	50	50	100
Objective(s)	Gaining a fundamental k knowledge of standard dis handling situations invol variables. Understand an probabilistic manner. Be acquire skills in analyzing	stribution ving mo d charac exposed	ns wl re t cteriz I to	hich c han d ze pho basic	an des one rar enomer	cribe ndom na wł	real l vari nich e	ife phe able a evolve v	nomen nd fur with re	a. Acquire skills in actions of random spect to time in a
1 PROE	BABILITY AND RANDOM VA	RIABLE						Total	Hrs	12
Probability ma	obability - Conditional prob ss function - Probability dens	sity functi	ion -			/ — E	Baye'			Random variable -
2 DISCI	RETE STANDARD DISTRIB	UTIONS						Total	Hrs	12
Binomial, and	Noment generating function their properties.			prop	erties,	Bino	mial,	Poisso	on, Ge	ometric, Negative
	TINUOUS STANDARD DIST							Total	Hrs	12
•	onential, Gamma, Weibull an			tributi	ons and	d their	r prop			
	DIMENSIONAL RANDOM V							Total		12
Joint distributi limit theorem.	ons - Marginal and condition	al distrib	utior	าร – C	Covariar	nce -	Corre	elation a	and reg	gression Central
	JEING THEORY							Total		12
	dels – M/M/1, M/M/C , finite state solutions only) – Polla								te sou	rce model - M/G/1
Total hours to					onnaia		oolai	04000.		60
Text book (s)	:									
	H. A., "Operations Research 2002.	n-An Intro	oduc	tion",	Sevent	h Edi	ition,	Pearso	n Educ	cation Edition Asia,
	rajan., T., "Probability, Stati Delhi, 2003.	stics and	d Ra	andom	Proce	sses'	", Tat	a McG	raw-Hi	II, Second Edition,
Reference(s):										
	A.O., "Probability, Statistics a		-		-		•			
∠ New Y	, D. and Harris, C.M., "Funda /ork, 1985.				-	-		-		
	S., "A first course in probabil									
4 Medh	i J., "Stochastic Processes", I	New Age	Puk	olisher	s, New	Delh	i, 199	94. (Cha	apters 2	2, 3, & 4)

K.S.R	angasamy College of Techno	ology - A	uto	nomo	ous Reg	gulatior	n			R 2008
Department	Computer Science and Engineering	Progra	mme	e Cod	le & Nai	me 1	4 : B		mputei igineer	[·] Science and ing
		Seme	ester	٠V						
Course Code	Course Name		Ho	ours/	Neek	Cred	dit	Ν	/laximu	um Marks
Course Code	Course Marile		L	Т	Р	С		CA	ES	Total
08140505C	WINDOWS PROGRAMMIN	-	3	0	0	3		50	50	100
Objective(s)	Introduce the concepts of Foundation Classes, it hel applications using Visual C+	lps to e								
1 WINDOW	VS PROGRAMMING – INTRO	DUCTIC	N		То	tal Hrs				9
programming H Scroll.	character and windows – W urdles – Painting and Repain				ction to	GDI –				ilding a better
	RAWING and KEYBOARD f GDI – The Device Context –		-			tal Hrs				9
3 THE MO CONTRO	ages and character sets – The USE, THE TIMER and CHILD DLS Client Area mouse messages	WINDO	W		То	tal Hrs	ages	– Hit t	esting	9 in programs –
Capturing the m for a clock – us	ouse – the mouse wheel – Tir ing the Timer for a Status rep Class – Edit Class – List Box C	mer basio ort The b	cs –	Usin	g the Ti	mer: Th	nree r	method	ls - Ŭ	sing the Timer
	OTHER RESOURCES and D					tal Hrs				9
	Strings, and Custom resourc s – Command Dialog Boxes.	es – me	nus	– Ke	eyboard	Accele	erator	s – Mo	odel D	ialog Boxes –
	CS and BITMAPS				-	tal Hrs				9
transfer - GDI E	damentals – Printing Graphics Bitmap object – Text and Fon on – Paragraph Formatting – T	ts – Sim	ple t	ext c	output –					
Total hours to be	e taught									45
Text book (s) :										
1 Charles	Petzold, "Programming Windo	ws", Fifth	n Edi	tion,	Microso	ft press	s, 200)2		
Reference(s):										
1 James L	.Conger, "Windows API Bible -	- Prograi	mme	er's re	ference	", Galgo	otia F	Publica	tion Lte	d., 199.6
1										

	K.S.Ra	ngasamy College of Techno	ology Aı	utonc	mous	s Regi	ulation			R 2008
Depa	artment	Computer Science and Engineering	Prog	ram c	ode &	Name	e 14:E		mputer ngineeri	Science and
			Seme	ester	V				0	•
•	0 1			Ho	urs/W	eek	Credit	ſ	Maximu	m Marks
Cou	irse Code	Course Name		L	Т	Р	С	CA	ES	Total
081	140506C	JAVA PROGRAMMING		3	0	0	3	50	50	100
Obj	jective(s)	Gaining knowledge of core programming in java and ja							ritance	etc., network
1	JAVA FUN	NDAMENTALS				T	otal Hrs		1	9
Opera	ators – Array	java – fundamentals of OC /s – Strings - vectors – contro	ol statem			ss – o	oject – meth		oles – I	Data types -
2	I/O STRE/	AMS AND EXCEPTION HAN	DLING			T	otal Hrs			9
IO Str		eritance - Interfaces – Multiple	e Inherita	ance	- Pack	ages	 Exception 	Handli	ng.	
3	MULTI TH	IREADING AND AWT				T	otal Hrs		1	10
		Java mieau mouei – ivia	in thread	d – ci	reating	threa	ad – creatir	ng mult	iple thr	ead – Thread
priority	y – metho amentals –	ds – synchronization – Ap Frames – creating frame wind	oplet Life	e cyd	cle –	Grap	hics and A	Applet	– AWT	
priority Funda	y – metho amentals – ling.	ds – synchronization – Ap	oplet Life	e cyd	cle –	Grap /T con	hics and A	Applet	– AWT ager –	- Windows
priority Funda Handli 4	y – metho amentals – ling. Java Netw	ds – synchronization – Ap Frames – creating frame win	oplet Life dow in a	e cyc applet	cle – t – AW	Grap T con	hics and A trols – Layo otal Hrs	out Man	– AWT ager – 1	「 — Windows Menu — Event I0
priority Funda Handli 4	y – metho amentals – ling. Java Netw ets – TCP Se	ds – synchronization – Ap Frames – creating frame wing vorking and RMI	oplet Life dow in a	e cyc applet	cle – t – AW	Grap T con T - Stu	hics and A trols – Layo otal Hrs	out Man	– AWT ager – 1 Impler	「 — Windows Menu — Event I0
priority Funda Handli 4 Socke 5 Serve	y – metho amentals – ling. Java Netw ets – TCP So Servlet an er Side Prog	ds – synchronization – Ap Frames – creating frame win vorking and RMI ocket – UDP Socket – RMI –	oplet Life dow in a Basics -	e cyc applet - RMI	cle – t – AW Layer	Grap (T con T - Stu T	hics and A trols – Layc otal Hrs Ib, Skeleton otal Hrs	out Man	– AWT ager – 1 Implem	 Windows Menu – Event 10 nentation. 9
priority Funda Handli 4 Socke 5 Serve Conta	y – metho amentals – ling. Java Netw ets – TCP So Servlet an er Side Prog	ds – synchronization – Ap Frames – creating frame wind orking and RMI ocket – UDP Socket – RMI – d Swing Programming gramming – Servlet Archited uting simple servlet	oplet Life dow in a Basics -	e cyc applet - RMI	cle – t – AW Layer	Grap (T con T - Stu T	hics and A trols – Layc otal Hrs Ib, Skeleton otal Hrs	out Man	– AWT ager – 1 Implem Servle	 Windows Menu – Event 10 nentation. 9
priority Funda Handli 4 Socke 5 Serve Conta Total f	y – metho amentals – Ing. Java Netw ets – TCP So Servlet an F Side Prog iner – Exec	ds – synchronization – Ap Frames – creating frame wind orking and RMI ocket – UDP Socket – RMI – d Swing Programming gramming – Servlet Archited uting simple servlet	oplet Life dow in a Basics -	e cyc applet - RMI	cle – t – AW Layer	Grap (T con T - Stu T	hics and A trols – Layc otal Hrs Ib, Skeleton otal Hrs	out Man	– AWT ager – 1 Implem Servle	 Windows Menu – Event 10 nentation. 9 t Life cycle –
priority Funda Handli 4 Socke 5 Serve Conta Total f	y – metho amentals – ing. Java Netw ets – TCP So Servlet an er Side Prog iner – Exec hours to be pook (s) :	ds – synchronization – Ap Frames – creating frame wind orking and RMI ocket – UDP Socket – RMI – d Swing Programming gramming – Servlet Archited uting simple servlet	pplet Lifu dow in a Basics - cture - S	e cyc applet - RMI Serve	Layer	Grapi /T con T - Stu T et anc	hics and A trols – Layc otal Hrs ib, Skeleton otal Hrs I Post Me	Applet out Man - RMI thod –	– AWT ager – 1 Implem Servle	 Windows Menu – Event 10 nentation. 9 t Life cycle –
priority Funda Handli 4 Socke 5 Serve Conta Total I Text b 1	y – metho amentals – ing. Java Netw ets – TCP So Servlet an er Side Prog iner – Exec hours to be pook (s) :	ds – synchronization – Ap Frames – creating frame wind oorking and RMI ocket – UDP Socket – RMI – d Swing Programming gramming – Servlet Archited uting simple servlet taught	pplet Lifu dow in a Basics - cture - S	e cyc applet - RMI Serve	Layer	Grapi /T con T - Stu T et anc	hics and A trols – Layc otal Hrs ib, Skeleton otal Hrs I Post Me	Applet out Man - RMI thod –	– AWT ager – 1 Implem Servle	 Windows Menu – Event 10 nentation. 9 t Life cycle –
priority Funda Handli 4 Socke 5 Serve Conta Total I Text b 1	y – metho amentals – ling. Java Netwe ets – TCP Se Servlet an er Side Prog hours to be book (s) : Herbert Se ence(s):	ds – synchronization – Ap Frames – creating frame wind oorking and RMI ocket – UDP Socket – RMI – d Swing Programming gramming – Servlet Archited uting simple servlet taught	beplet Life dow in a Basics - Cture - S Referen	e cyc applet - RMI Serve	Layer Layer	Grapi /T con / /	hics and A trols – Layo otal Hrs b, Skeleton otal Hrs I Post Me TMH, 2002	Applet out Man - RMI thod –	– AWT ager – 1 Implem Servle	 Windows Menu – Event 10 nentation. 9 t Life cycle –
priority Funda Handli 4 Socke 5 Serve Conta Total I Text b 1 Refere	y – metho amentals – Java Netw ets – TCP So Servlet an r Side Prog iner – Exec hours to be book (s) : Herbert So ence(s): Patrick Na	ds – synchronization – Ap Frames – creating frame wind vorking and RMI ocket – UDP Socket – RMI – d Swing Programming gramming – Servlet Archited uting simple servlet taught childt, "the Java 2 : Complete	Basics - Cture – S Referen e Java 2	e cyc applet - RMI Serve nce", I	Layer Layer elet Ge	Grap /T con /T - Stu 	hics and A trols – Layo otal Hrs bb, Skeleton otal Hrs I Post Me TMH, 2002	Applet - ut Man - RMI thod -	– AWT ager – 1 Implem Servle	 Windows Menu – Event 10 nentation. 9 t Life cycle –

K.S.Rar	gasamy College of Technolo	ogy - Au	tonoi	mou	s Regul	ation			R 2008
Department	Computer Science and Engineering	Progra	mme	Cod	le & Nan	ne 14 :		ompute nginee	r Science and ring
		Sem	neste	rV					
	Course Name		Но	ours/\	Neek	Credit		Maxim	um Marks
Course Code			L	Т	Р	С	CA	ES	Total
08140507P	DATABASE MANAGEMENT SYSTEMS LABORATORY		0	0	3	2	50	50	100
Objective(s)	To Improve the Storage Tech	niques							
		List of e	exper	imer	nts				
2. Data N 3. High-le	Definition Language (DDL) com Manipulation Language (DML) a evel language extension with C evel language extension with T	and Data Jursors.				e (DCL) co	ommanc	ls in RI	OBMS.
 Data M High-le High le Procece Ember Ember Databa Desigr Desigr Desigr Nesigr 11. Represent Utilization Content base 	Manipulation Language (DML) a evel language extension with C evel language extension with T dures and Functions. dded SQL. ase design using E-R model ar a and implementation of Payrol a and implementation of Bankir and implementation of Library sentation of BCNF. tion of view.	and Data cursors. riggers nd Norma I Process ng Syster / Informa	Cont alizati sing S m. tion S	trol L ion. Syste	.anguag em.	e (DCL) co	ommanc	ls in RI	DBMS.
 Data M High-le High le Procece Embed Embed Databa Desigr Desigr Desigr Desigr Nepreside Utilization Content b Represide 	Manipulation Language (DML) a evel language extension with C evel language extension with T dures and Functions. dded SQL. ase design using E-R model ar and implementation of Payrol and implementation of Bankir and implementation of Library sentation of BCNF. tion of view.	and Data cursors. riggers nd Norma I Process ng Syster / Informa	alizati sing S m. tion S	trol L ion. Syste	.anguag em.	e (DCL) co	ommano	ls in RI	DBMS.

		ngasamy College of Techn				-				R 2008
De	partment	Computer Science and Engineering				& Nam		.E. Cor eering	nputer S	Science and
		1	Seme					-		
~		Course Norre		Ho	ours/\	Neek	Credit	ſ	Maximui	m Marks
C	ourse Code	Course Name		L	Т	Р	С	CA	ES	Total
()8140508P	JAVA PROGRAMMING LABORATORY	6	0	0	3	2	50	50	100
(Objective(s)	Used to develop list of e	experime	nt in	Java	using a	bject orien	ted con	cept	
		· ·	List of ex				•		•	
1.	Progra Constr	m to implement Simple Class	ses to un	ders	tand	objects,	member fu	Inctions	and	
	- Consu	Classes with primitive d	ata memi	hers						
	-	Classes with arrays as o								
	-	Classes with constant d								
	-	Classes with static mem		tions	6					
	-	Classes with String fund	ctions							
2.	Pro	ogram to implement various o	perations	son	vecto	r class				
3.	Pro	ogram to implement Simple P								
4.	- Pro	Developing user defined ogram to implement Interface		es in	Java	l				
	-	Developing user-defined		es a	nd im	plemer	ntation			
	-	Use of predefined interf				•				
5.	Pro	ogram to implement Threadin								
	-	Creation of thread in Ja	va applica	ation	IS					
6.	- Dro	Multithreading gram to implement Exception	n Handlin		ochoi	niem in	lava			
0.		Handling pre-defined exception		iy ivi	echai	115111 111	Java			
		landling user-defined except								
7.		ogram to implement Network		ning						
	-	TCP implementation		0						
	-	UDP implementation								
8.		ogram to implement RMI								
9.		ogram using layout in AWT								
10.		ogram to implement applet an			DO 4-				_	
11.	De	velop a program in Java usin	g awt and	a JD	BC IC	or any s	pecified app	Dilcation	۱.	
	<u>Cont</u>	ent beyond the syllabus:								
		ogram using swing.								
12.		ogram to implement servelet.								
13.	De	velop the program in servelet	t and JDF	°C ai	nd fo	r anv ac	plications.			
		velop a program to understar							a	

K.S.R		asamy College of Techn	ology -	Auto	onom	ous Re	gulat				R 2008
Department		Computer Science and Engineering	Progra	mme	e Cod	e & Nai	me	14 :		ompute Inginee	er Science and ering
			Sei	mest	er V						
	_	Course Norse		H	ours/\	Veek	Cr	edit		Maxim	um Marks
Course Cod	e	Course Name		L	Т	Р	(С	CA	ES	Total
08140509F)	WINDOWS PROGRAM LABORATORY		0	0	3		2	50	50	100
Objective(s)	Introduce the windows									
	,	classes. It enables the s	List of				ams a	na sim	pie app	lication	n.
		Programming imple window and manipu cursor icon		олр							
i. ii. iii.	a tex	background t and do the following ope display it on the screen change the font by selec change the text size	cting fron	n the	e list b	ox cont	taining	g font ı	names		
i. ii.		ate the mouse operation for left and right button up a use the following mouse a. Clipcursor b. GetcursorPos c. SetcursorPos d. GetDoubleClickTi e. SwapMouseButto	and dowr function me n	IS							
4. Progra i. ii.	am ti	o illustrate the two types o Model dialog box Modeless dialog box	r dialog r	oxe	s nan	nely					
5. Create i. ii. iii. iii.		following menus Main menu Popup menu Attached a popup menu Modify the system menu		nain i	menu						
6. Chang i. ii.	ge th	e background and foregro Background : 3 Scroll ba Foreground : 3 Scroll ba	ars(One	each	for r	ed, gree	ən, blu	ue)			
7. Create	e diff	erent types of child windo				-		-			
The te	ext is	e text in client area, based initially painted, when the . Quit)									
		ygon, circle, ellipse and te e, mapping mode textmetr		erim	ent w	ith the a	attribu	ites of	device	contex	t(pen, brush,
10. Create	e a s	imple editor.									
Conter	nt be	yond the syllabus:									
		e wave using polyline									
		÷			ND)						
11. Create 12. Make	ə sin a Al ^ı				ND)						

	K.S.Rangasamy College of Techn	ology - Au	tonom	nous	Regula				R 2008
Department	Computer Science and	Program	nme C	ode a	& Name	14 :			Science and
	Engineering		ester V				E	ngineeri	ng
		Jeine		urs/V	leek	Credit		Maximu	m Marks
Course Code	Course Name		L	T	P	C	CA	ES	Total
08140510P	CAREER COMPETENCY		0	0	2	0	100	00	100
	DEVELOPMENT III	danta ma	-			_			
Objective(s)	Improving the skill level of stud attending competitive exams th								nterviews and
	TITUDE SKILLS								Hrs
	ability : Partnership - Chain rule – Ca	alendar – P	ermuta	ation	- Data I	nterpretatio	n – Prob	ability -	
Heights and D		riaal Caru		()/~	ala Ari	hone official re-		Data	0
	soning : Logical Venn Diagrams - Lo tatement – Conclusion - Deriving co					Inmetical re	asoning	- Data	8
	Reasoning : Rule detection - Cube ar		ii pass	ayes					
	ORAMMING SKILLS								6
	es : Tree - Graph								
Object Oriente	d Programming : Introduction to C+	+ - Classes	and C	bject	is – Cor	structors -	Operato	or	
	Inheritance – Templates - File I/O								
	TTEN COMMUNICATION SKILLS								
	n in the usage of degrees of compar		tional c	lause	es, num	erical expre	ssions a	ind	4
	ational (SI) units Paragraph Writing								2
Evaluation I – 4 ORA									2
	sion Demo - Listening comprehension	nlah							2
	Group Discussion								2
	ERVIEW SKILLS (ASSOCIATION SE	ESSION)							
	Technical Interview - Technical Interview		bjectiv	e typ	e questi	ons from V	th seme	ster	4
subjects)		•		• •	•				
Examples of the P.C.									
Evaluation IV	HR Interview - HR Interview I - Ac	daptability,	Self de	velop	oment, (Creativity			4
	HR Interview - HR Interview I - Ac	daptability,	Self de	evelop	oment, (Creativity		Total	4 32
Reference(s):							rint 2009		32
Reference(s): 1 R.S.	Aggarwal , "Quantitative Aptitude", S	Chand & (rint 2008		32
Reference(s): 1 R.S. 27, 3	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I)	6.Chand & (Compa	ny Lt	d., New	Delhi, Rep		3 (Twice)	32) (Ch – 13, 14
Reference(s): 1 R.S. 27, 3 2 R.S.	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to	Chand & () verbal & N	Compa Ion–ve	ny Lt rbal I	d., New Reasoni	Delhi, Rep ng", S.Cha	nd & Co	3 (Twice)	32) (Ch – 13, 14 Ltd, New Delhi
Reference(s): 1 R.S. 27, 3 2 R.S. 2008	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & 2	Chand & () verbal & N 17) Part I–S	Compa Ion-ve Section	ny Lt rbal I II (C	d., New Reasoni h – 5 &	Delhi, Rep ng", S.Cha 6) Part II (C	nd & Co h 12 & 1	8 (Twice) mpany 1 14) (unit	32) (Ch – 13, 14 _td, New Delhi – I)
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to	Chand & () verbal & N 17) Part I–S Algorithm <i>I</i>	Compa Ion-ve Section Analysi	ny Lt rbal I II (C s in C	d., New Reasoni <u>h – 5 &</u> 2", Pear	Delhi, Rep ng", S.Cha 6) Part II (C son Educat	nd & Co h 12 & 1 ion 2002	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II)
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference 0 Guide by English Department of KS	6.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008	Compa lon–ve Section Analysi ata Mad 3 (Unit	ny Lt rbal I II (C s in C cGrav	d., New Reasoni h – 5 & C", Pear w Hill, 2	Delhi, Rep ng", S.Cha 6) Part II (C son Educat	nd & Co h 12 & 1 ion 2002	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II)
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & 4 Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference 0 Guide by English Department of KS nterview Guide by Training Cell, KSF	6.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008	Compa lon–ve Section Analysi ata Mad 3 (Unit	ny Lt rbal I II (C s in C cGrav	d., New Reasoni h – 5 & C", Pear w Hill, 2	Delhi, Rep ng", S.Cha 6) Part II (C son Educat	nd & Co h 12 & 1 ion 2002	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II)
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA	Chand & () verbal & N 17) Part I–S Algorithm <i>I</i> ce C++" Ta SRCT, 2008 RCT, 2008.	Compa lon-ve Section Analysi ata Mac 3 (Unit	ny Lt rbal I II (C s in C cGrav	d., New Reasoni h – 5 & C", Pear w Hill, 2	Delhi, Rep ng", S.Cha 6) Part II (C son Educat	nd & Co h 12 & 1 ion 2002	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 5,17, 18, 21)
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION Part	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta 5RCT, 2008. RCT, 2008.	Compa lon-ve Section Analysi ata Mad 3 (Unit	ny Lt rbal I II (C s in C cGrav – III,	d., New Reasoni h – 5 & C', Pear w Hill, 2 IV & V)	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1	nd & Co h 12 & 1 ion 2002	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II)
Reference(s): 1 R.S. 2 R.S. 2008 3 3 Marl 4 Herk 5 CCE 6 HR I EVALUATION S.No. 1 Eval	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS Interview Guide by Training Cell, KSF CRITERIA cular uation I	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008 RCT, 2008. Test Porti Unit I – C	Compa lon-ve Section Analysi ata Mad 3 (Unit ion DQ - 50	ny Lt rbal I II (C s in C cGrav – III,	d., New Reasoni h – 5 & C', Pear w Hill, 2 IV & V)	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1	nd & Co h 12 & 1 ion 2002	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 _td, New Delh – I) , 9 (unit – II) 5,17, 18, 21) Marks
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION Part 1 Eval 1 Eval	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS Interview Guide by Training Cell, KSF CRITERIA icular uation I ten Test	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta 5RCT, 2008. RCT, 2008. Test Porti Unit I – C Unit III – C	Compa lon-ve Section Analysi ata Mad 3 (Unit 3 (Unit ion DQ - 50 DQ - 50 DQ 20	ny Lt II (C s in C cGrav – III, D, Un	d., New Reasoni h – 5 & C, Pear w Hill, 2 IV & V) it II – O	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1	nd & Co Ch 12 & 1 ion 2002 11, 12, 1	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II) 5,17, 18, 21) Marks 50
Reference(s): 1 R.S. 27,3 27,3 2 R.S. 2008 3 3 Marl 4 Herb 5 CCE 6 HR I EVALUATION S.No. 1 Eval 2 Eval 2 Eval	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS Interview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion	6.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008 RCT, 2008. Test Porti Unit I – C Unit III – (P – 5 Mar	Compa lon-ve Section Analysi ata Mad 3 (Unit 3 (Unit ion DQ - 50 DQ 20 rks, C -	ny Lt rbal I II (C s in C cGrav – III, 0, Un - 5 M	d., New Reasoni <u>h – 5 &</u> Z [*] , Pear w Hill, 2 IV & V) it II – O arks, TS	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1	nd & Co Ch 12 & 1 ion 2002 11, 12, 1	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15
Reference(s): 1 R.S. 2 R.S. 2 R.S. 2008 3 3 Marl 4 Herb 5 CCE 6 HRI EVALUATION S.No. 1 Eval 2 Eval 3 Eval	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation III - Technical Interview	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008 RCT, 2008. Test Porti Unit I – C Unit III – (P – 5 Mar 6 question	Compa lon-ve Section Analysi ata Mad 3 (Unit 3	ny Lt rbal I II (C s in C cGrav – III, - 111, 0, Un - 5 M h 2½	d., New Reasoni <u>h – 5 &</u> Z [*] , Pear w Hill, 2 IV & V) it II – O arks, TS	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1	nd & Co Ch 12 & 1 ion 2002 11, 12, 1	8 (Twice) mpany 1 14) (unit 2, Ch – 4	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 15
Reference(s): 1 R.S. 2 R.S. 2008 3 3 Marl 4 Herk 5 CCE 6 HR I EVALUATION S.No. 1 Eval 2 Eval 3 Eval 4 Eval	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation III - Technical Interview uation IV	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. RCT, 2008. Test Porti Unit I – C Unit III – (P – 5 Mar 6 question Creativity	Compa lon-ve Section Analysi ata Mad 3 (Unit 3	ny Lt rbal I II (C cGrav – III, - 5 M h 2½ arks	d., New Reasoni <u>h – 5 &</u> <u>2", Pear</u> w Hill, 2 IV & V) it II – O arks, TS Marks	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 Q – 30 S – 5 Marks	nd & Co Ch <u>12 & 1</u> ion 2002	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15
Reference(s): 1 R.S. 27,3 27,3 2 R.S. 2008 3 3 Marl 4 Herb 5 CCE 6 HR I EVALUATION S.No. 1 Eval 2 Eval 3 Eval 4 Eval 4 Herb	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation IV nterview	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta 5RCT, 2008. RCT, 2008. Test Porti Unit II – C Unit III – C	Compa lon-ve Section Analysi ata Mad 3 (Unit 3 (Unit	ny Lt rbal I II (C cGrav – III, – 5 M h 2½ arks Marl	d., New Reasoni h – 5 & C, Pear w Hill, 2 IV & V) it II – O arks, TS Marks (s, Self	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 Q – 30 S – 5 Marks developmen	nd & Co h <u>12 & 1</u> ion 2002 11, 12, 1-	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 15 20
Reference(s): 1 R.S. 27,3 27,3 2 R.S. 2008 3 3 Marl 4 Herb 5 CCE 6 HR I EVALUATION S.No. 1 Eval 2 Eval 3 Eval 4 Eval 1 Eval 3 Eval 4 HR I	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation III - Technical Interview uation IV	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta 5RCT, 2008. RCT, 2008. Test Porti Unit I – C Unit III – C	Compa lon-ve Section Analysi ata Mad 3 (Unit 3 (Unit	ny Lt rbal I II (C cGrav – III, – 5 M h 2½ arks Marl	d., New Reasoni h – 5 & C, Pear w Hill, 2 IV & V) it II – O arks, TS Marks (s, Self	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 Q – 30 S – 5 Marks developmen	nd & Co h <u>12 & 1</u> ion 2002 11, 12, 1-	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 15
Reference(s): 1 R.S. 2 R.S. 2 R.S. 2008 3 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. 3 Eval 4 Eval 1 Eval 3 Eval 4 Eval 1 Eval 2 Eval 3 Eval 4 Freat 1 Eval 2 Eval 3 Eval 4 Eval HR I P-Presentatio Note : Eval	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation IV nterview	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. Test Porti Unit I – C Unit III – C	Compa lon-ve Section Analysi ata Mad 3 (Unit 3	ny Lt rbal I II (C cGra – III, – III, – 5 M h 2½ arks Marl n T–	d., New Reasoni h – 5 & C", Pear w Hill, 2 IV & V) it II – O arks, TS Marks Ks, Self Fotal TS	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 002 (Ch - 1)))))))))))))))))))))))))))))))))))	nd & Co h 12 & 1 ion 2002 11, 12, 1 1, 12, 1 nt – 7 ma lls	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 15 20
Reference(s): 1 R.S. 2 R.S. 2008 3 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. S.No. Part 1 Eval 2 Eval 3 Eval 4 Eval 9 Presentatio Note : 1. Questic 2. Respect 2. Respect	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS Interview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation III - Technical Interview uation IV Interview n C-Content Q-Queries OQ-Obje on paper and keys will be supplied by trive Departments will conduct Evalue	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta 5RCT, 2008. Test Porti Unit I – C Unit III – C	Compa lon-ve Section Analysi ata Mad 3 (Unit 3 (Unit))) (Unit 3 (Unit 3 (Unit)	ny Lt rbal I II (C cGrav – III, - 5 M h 2½ arks Marl n T– or wr	d., New Reasoni h – 5 & C'', Pear w Hill, 2 IV & V) it II – O it II – O arks, TS Marks Ks, Self Fotal TS itten tes	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 02 – 30 2 – 30 5 – 5 Marks developmen –Team Ski t for Evalua	nd & Co h 12 & 1 ion 2002 1, 12, 1 1, 12, 1 nt – 7 ma lls tion I	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16	32 (Ch – 13, 14 Ltd, New Delhi – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 15 20 T = 100
Reference(s): 1 R.S. 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. S.No. Part 1 Eval 3 Eval 4 Eval 1 Eval 3 Eval 4 Eval 4 Eval 1 Uritt 2 Eval 3 Eval 4 Eval 1 Uritt 2 Eval 3 Eval 4 Eval HR I P-Presentatio Note : 1. Questic 2. Respect to the T	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & Allen Weiss , "Data Structures and bert Schildt , "The Complete Reference O Guide by English Department of KS Interview Guide by Training Cell, KSF CRITERIA icular uation I ten Test uation II - Group discussion uation III - Technical Interview uation IV Interview n C-Content Q-Queries OQ-Obje on paper and keys will be supplied by trive Departments will conduct Evalue raining Cell.	5.Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. Test Porti Unit I – C Unit III – (P – 5 Mar 6 question Creativity (Adoptabi ctive type c / the trainin ation I, II, II	Compa lon-ve Section Analysi ata Mad 3 (Unit 3	ny Lt rbal I II (C cGrav – III, - 5 M h 2½ arks Marl n T– or wr	d., New Reasoni h – 5 & C'', Pear w Hill, 2 IV & V) it II – O it II – O arks, TS Marks Ks, Self Fotal TS itten tes	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 02 – 30 2 – 30 5 – 5 Marks developmen –Team Ski t for Evalua	nd & Co h 12 & 1 ion 2002 1, 12, 1 1, 12, 1 nt – 7 ma lls tion I	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 15 20 T = 100
Reference(s): 1 R.S. 2 R.S. 2008 3 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. S.No. Part 1 Eval 3 Eval 4 Herk 5 CCE 6 HR I Eval Writt 2 Eval HR I Herk P-Presentation Note : 1. Questic 2. Respect 1. Questic 2. Respect 3. HoDs v	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I teen Test uation II - Group discussion uation III - Technical Interview uation IV nterview n C–Content Q–Queries OQ–Obje on paper and keys will be supplied by stive Departments will conduct Evalua raining Cell.	Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. Test Porti Unit I – C Unit III – C Uni	Compa lon-ve Section Analysi ata Mad 3 (Unit - OQ - 50 OQ - 5	ny Lt rbal I II (<u>C</u> <u>s in (</u> <u>cGrav</u> – III, – III, – 5 M h 2½ marks Marl n T–– for wr corre	d., New Reasoni h – 5 & Z", Pear w Hill, 2 IV & V) it II – O arks, TS Marks (s, Self Fotal TS itten tes cct and s	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 2 – 30 2 – 30 6 – 5 Marks developmen –Team Skii t for Evalua submit the r	nd & Co h 12 & 1 ion 2002 1, 12, 1 1, 12, 1 nt – 7 ma lls ntion I narks ob	3 (Twice) mpany 14) (unit 14) (unit 2, Ch – 4 4, 15, 16 4, 15, 16 arks)	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 3,17, 18, 21) Marks 50 15 20 T = 100 y the students
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. Part 1 Eval 3 Eval 3 Eval 1 Eval 3 Eval 4 HR I P-Presentatio Note : 1. Questic 2. Respect 1. Questic 2. Respect 3. HoDs v 4. All train	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I teen Test uation II - Group discussion uation III - Technical Interview uation IV nterview n C–Content Q–Queries OQ–Obje on paper and keys will be supplied by stive Departments will conduct Evalua 'raining Cell. vill display about 50 topics for oral co ing & tests will be conducted on odd	Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. Test Porti Unit I – C Unit III – C Uni	Compa lon-ve Section Analysi ata Mad 3 (Unit - OQ - 50 OQ - 5	ny Lt rbal I II (<u>C</u> <u>s in (</u> <u>cGrav</u> – III, – III, – 5 M h 2½ marks Marl n T–– for wr corre	d., New Reasoni h – 5 & Z", Pear w Hill, 2 IV & V) it II – O arks, TS Marks (s, Self Fotal TS itten tes cct and s	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 2 – 30 2 – 30 6 – 5 Marks developmen –Team Skii t for Evalua submit the r	nd & Co h 12 & 1 ion 2002 1, 12, 1 1, 12, 1 nt – 7 ma lls ntion I narks ob	3 (Twice) mpany 14) (unit 14) (unit 2, Ch – 4 4, 15, 16 4, 15, 16 arks)	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 3,17, 18, 21) Marks 50 15 20 T = 100 y the students
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. Part 1 Eval 3 Eval 1 Eval 3 Eval 4 HR I P-Presentation Note : 1. Questic 2. Respect to the T 3. 3. HoDs v 4. All train	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I teen Test uation II - Group discussion uation III - Technical Interview uation IV nterview n C–Content Q–Queries OQ–Obje on paper and keys will be supplied by stive Departments will conduct Evalua raining Cell.	Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008 RCT, 2008 Test Porti Unit I – C Unit III – C C Hetrainin ation I, II, II	Compa lon-ve Section Analysi ata Mad 3 (Unit - ion DQ - 50 DQ	ny Lt rbal I II (<u>C</u> <u>s in (</u> <u>cGrav</u> – III, – III, – 11, – 5 M h 2½ marks – 5 M Marl n T–– or wr correction of	d., New Reasoni h – 5 & Z", Pear w Hill, 2 IV & V) it II – O arks, TS Marks (s, Self Fotal TS itten tes tect and s	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 2 - 30 2 - 30 6 - 5 Marks developmen -Team Skii t for Evalua submit the r ds in FN &	nd & Co ch 12 & 1 ion 2002 11, 12, 12 11, 12, 12 12, 12 12, 12 13, 12 14, 12, 12	3 (Twice) mpany 14) (unit 14) (unit 2, Ch – 4 4, 15, 16 4, 15, 16 arks) tained b of 2 per	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 3,17, 18, 21) Marks 50 15 20 T = 100 y the students iods in AN &
Reference(s): 1 R.S. 27, 3 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. Part 1 Eval 3 Eval 3 Eval 1 Eval 3 Eval 4 HR I P-Presentatio Note : 1. Questic 2. Respect to the T 3. 3. HoDs v 4. All trair Associa 5.	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSI CRITERIA icular uation I teen Test uation II - Group discussion uation III - Technical Interview uation IV nterview n C–Content Q–Queries OQ–Obje on paper and keys will be supplied by tive Departments will conduct Evalua raining Cell. vill display about 50 topics for oral co ing & tests will be conducted on odd ation Session.	Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. Test Porti Unit I – C Unit III – C C Heation C F Automation I (I	Compa lon-ve Section Analysi ata Mar 3 (Unit - ion DQ - 50 OQ	ny Lt rbal I II (<u>C</u> <u>s in (</u> <u>cGrav</u> – III, – III, – III, – J D, Un – 5 <u>M</u> <u>h 2½</u> arks <u>Marl</u> n T–1 or wr corre	d., New Reasoni h – 5 & Z, Pear w Hill, 2 IV & V) it II – O arks, TS Marks (s, Self Fotal TS itten tes sect and s itten tes f 2 perio may be	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 2 – 30 2 – 30 6 – 5 Marks developmen -Team Ski t for Evalua submit the n ds in FN &	nd & Co h 12 & 1 ion 2002 1, 12, 1, 1, 12, 1, 	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16 4, 15, 16 arks) arks) tained b of 2 per utes for	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 3,17, 18, 21) Marks 50 15 20 T = 100 y the students fods in AN & GD.
Reference(s): 1 R.S. 2 R.S. 2008 3 Marl 4 Hert 5 CCE 6 HR I EVALUATION S.No. Part 1 Eval 3 Eval 4 Herk 5 CCE 6 HR I EVALUATION S.No. S.No. Part 1 Eval 3 Eval 4 Eval HR I P-Presentatio Note : 1. Questic 1. Questic 2. Respect to the T 3. HoDs v 4. All trair Associa 5. 66 stud 6. 60 obje at rand Transdom State	Aggarwal , "Quantitative Aptitude", S 30, 31, 34, 36, 37, 38, & 39) (Unit – I) Aggarwal , "A Modern Approach to 3, Part I – Section I (Ch - 9,14,15 & c Allen Weiss , "Data Structures and pert Schildt , "The Complete Reference O Guide by English Department of KS nterview Guide by Training Cell, KSF CRITERIA icular uation I teen Test uation II - Group discussion uation III - Technical Interview uation IV nterview n C-Content Q-Queries OQ-Obje on paper and keys will be supplied by tive Departments will conduct Evalus raining Cell. vill display about 50 topics for oral co ing & tests will be conducted on odd ation Session. ents may be divided into 10 groups of	Chand & () verbal & N 17) Part I–S Algorithm / ce C++" Ta SRCT, 2008. Test Porti Unit I – C Unit III – C C Heation I, II, II D M M M M M M M M M M M M M M M M M M	Compa Ion-ve Section Analysi ata Mad S (Unit - ion DQ - 50 OQ - 50	ny Lt rbal I II (<u>C</u> <u>cGrav</u> – III, – III, – 5 M h 2½ Marl n T– or wr corre	d., New Reasoni <u>h – 5 &</u> <u>2", Pear</u> <u>w Hill, 2</u> <u>IV & V)</u> it II – O <u>arks, TS</u> Marks (s, Self Fotal TS itten tes sect and s itten tes sect and s	Delhi, Rep ng", S.Cha 6) Part II (C son Educat 002 (Ch - 1 2 - 30 2 - 30 6 - 5 Marks developmen -Team Ski t for Evalua submit the n ds in FN & evaluated in e prepared.	nd & Co ch 12 & 1 ion 2002 11, 12, 1 1, 12, 1 n n n n n n n n n n n n n	3 (Twice) mpany 1 14) (unit 2, Ch – 4 4, 15, 16 4, 15, 16 arks) arks) tained b of 2 per utes for ion from	32 (Ch – 13, 14 Ltd, New Delh – I) , 9 (unit – II) 5,17, 18, 21) Marks 50 15 20 T = 100 y the students iods in AN & GD. each subject

K.S.Rang	asamy College of Technolog	gy - Au	tonom	ous Re	egulatior	n 🗌		R 2008	
Department	Computer Science and Engineering		gram co		Name	14 : B.E		uter Scie eering	ence and
		Ser	nester	VI					
Course Code	Course Name		Ho	urs / V	Veek	Credit	Ma	aximum	Marks
Course Coue			L	Т	Р	С	CA	ES	Total
08140601G	PRINCIPLES OF MANAGEN		3	0	0	3	50	50	100
Objective(s)	Improving the Knowledge or in all kinds of organizations. understanding of the manage controlling. Students will a management.	After s gerial f	tudying unction	this c s like	course, st planning	tudents wi , organizi	ll be abl ng, staff	e to ha fing, lea	ve a clear ading and
1. HISTORI	CAL DEVELOPMENT				To	tal Hrs		9	
	anagement – Science or Art –								
2. PLANNI	tribution of Taylor and Fayol –	Functio	ons of iv	lanage		урез ог ві tal Hrs		Jiganis 9	allon.
	se – Types of Plans – Steps ir	nvolved	in Plar	nina -	-		na Obiec	•	nrocess of
	y Objectives – Strategies, Poli								
3. ORGANI				5		tal Hrs		9	5
Nature and pu	rpose - Formal and informal	l organ	ization	- Org	anizatior	Chart -	Structur	e and I	Process -
	n by difference strategies -								
	and Delegation of Authority -	Staffing	g – Sel	ection	process	 Technic 	lues – H	IRD – N	lanagerial
Effectiveness.					-		T		
4. DIRECTI				h la se		tal Hrs		9	
Theories - Mo	n Factors – Leadership – Typ ptivational Techniques – Job eakdown – Effective Communi	Enrich	ment -	- Com	municatio	on – proc	ess of (
5. CONTRO	DLLING				To	tal Hrs		9	
	ocess of Controlling – Require								
	chnology in Controlling – Use c								
	ent – Control of Overall Perfor Globalization and Liberalizatio								
Total hours to b		n - me	mation	ai wai	layemen			<u>01 Ivian</u> 45	agement.
Text book (s):								-0	
	ooritz & Heinz Weihrich, "Esse	ntials o	f Mana	gemen	nt", Tata M	AcGraw-H	ill, 1998.		
	Massie, "Essentials of Manag			-					2003
Deference(a);									2003.
Reference(s):			,		-				2003.
	PC And Reddy PN, "Principles				ata McGra	aw Hill, 199	99.		2003.
1. Tripathy 2 Decenzo	David, Robbin Stephen A, "Pe	of Mar	nageme	ent", Ta				entice H	
1.Tripathy2.DecenzoIndia, 199	David, Robbin Stephen A, "Pe	of Mar ersonne	ageme I and H	ent", Ta Iuman	Reasons	Managem	ient", Pre		all of
1.Tripathy2.DecenzoIndia, 1993.JAF Ston4.Fraidoon	David, Robbin Stephen A, "Pe 96.	of Mar ersonne R "Gilb ment",	ageme I and H ert Mar Addisor	ent", Ta luman nagemo n Wesl	Reasons ent", Pea ley, 2000	Managerr rson Educ	ient", Pre		all of

I	K.S.Rangasamy College of Technolog	y - Aut	onomo	ous Re	gulation		R 2	2008
Departmen	Computer Science and Engineerin	g F	rogran ۸ & N	nme Co Iame	ode 14	: B.E. Co and Er	mputer S	
	Se	emester	VI					
		Ho	ours/We	ek	Credit	Max	kimum Ma	arks
Course Cod	e Course Name	L	Т	Р	С	CA	ES	Total
081406025	(Common to CSE and IT)	3	1	0	4	50	50	100
Objective(s	 When huge amounts of experimenta will be useful in constructing appro intermediate values. The numerica function in the analytical form is too series of measurements, observatio 	oximate al differ complie	polyno ent ion cated or	mial to and in the hu	represent ntegration ige amount	the data find app is of data	and find lication w	ling the hen the
1 SOL	UTION OF EQUATIONS AND EIGENV	ALUE F	PROBL	EMS		Tota	al Hrs	9
Gauss-Jord	olation methods (method of false position on methods- Iterative methods: Gauss on method – Eigenvalue of a matrix by p	Jacobi	and Ga					
2 INTE	RPOLATION AND APPROXIMATION					Tota	al Hrs	9
	Polynomials – Divided differences – I ference formulas.	Interpol	ating w	vith a d	cubic spline	e – Newt	on's forw	ard and
3 NUN	IERICAL DIFFERENTIATION AND INT	EGRAT	ION			Tota	al Hrs	9
trapezoidal	from difference tables – Divided diffe and Simpson's 1/3 and 3/8 rules – Rom ouble integrals using trapezoidal and S	berg's i	nethod	– Two				
	AL VALUE PROBLEMS FOR ORDINAI	RY DIF	FEREN	ITIAL		Tota	al Hrs	9
	methods: Taylor series method – Euler solving first other equations – Multist							
	NDARY VALUE PROBLEMS IN ORDIN ERENTIAL EQUATIONS	NARY A	ND PA	RTIAL		Tota	al Hrs	9
dimensional	nce solution of second order ordinar heat equation by explicit and implic Laplace and Poisson equations.							
Total hours	o be taught							45
Text book (s):							
	dasamy, P., Thilagavathy, K. and Gun i, 2003.	avathy,	K., "N	umeric	al Methods	s", S.Chai	nd Co. Li	td., New
Reference (,							
	ld, C.F, and Wheatley, P.O, "Applied N Delhi, 2002.	lumeric	al Anal	ysis", S	Sixth Edition	n, Pearso	n Educati	on Asia,
	en, R.L and Faires, T.D., "Numerica apore, 2002.	al Ana	ysis", S	Sevent	h Edition,	Thomsor	n Asia P	vt. Ltd.,

	K.S.Rangasamy College of Technology - Autonomous Regulation R 2008									
Dep	artment	Computer Science and Engineering	Progra	mme	e Cod	le & Nai	me 14:E		mpute nginee	r Science and ring
			Seme	ester	r VI					
Cour	se Code	Course Name		Н	ours/	Neek	Credit	Ν	Maximu	um Marks
Cours	se coue	Course Marile		L	Т	Р	С	CA	ES	Total
0814	40603C	VISUAL PROGRAMMING		3	1	0	4	50	50	100
Obje	ective(s)	Introduce the concepts of Foundation Classes, it hel applications using Visual C+	ps to e							
1		C++ PROGRAMMING – INTR					tal Hrs			9
		ework – MFC library – Visual d modeless dialog – windows						– Марр	ing mo	des – colors –
2	THE DOO	CUMENT AND VIEW ARCHIT	ECTUR	Ξ		То	tal Hrs			9
– sepa	arating do	rd accelerators – rich edit con cument from its view – readi creating DLLs – dialog based	ng and	writi	ng Sl					
3	ACTIVEX (OLE)	AND OBJECT LINKING AND) EMBEI	DDIN	١G	То	tal Hrs			9
contro contai	I containe nment and	Vs. Ordinary Windows Cont r programming – create Act d aggregation Vs. inheritanc uple applications.	iveX cor	ntrol	at ru	untime	 Compone 	ent Obj	ect M	odel (COM) -
4		SE MANAGEMENT ISSUES					tal Hrs			9
Databa The O	ase Manaç LE DB Ter	gement with Microsoft ODBC nplates.	 Datab 	ase	Mana	agemen	t with Micro	osoft Da	ata Acc	ess Objects –
5	NETWOF	RKING ISSUES				То	tal Hrs			9
		k and WinInet - Programming audio and video files	the Mic	rosc	oft Inte	ernet Inf	formation S	erver –	Introd	ucing Dynamic
	nours to be	taught								45
Text b	ook (s) :									
1	1999.	Kruglinski, George Shepherd	and Sc	ot V	Vingo	, "Progr	ramming Vi	sual C-	++", M	icrosoft press,
Refere	ence(s):									
1		Itzner, "Visual C++ 6 Program	-	-						
2		zczak, "Programming MFC wit				•			ributors	s private Ltd.
3	Pappas N	lurray, "The computer referen	ce Visua	al C+	⊦ + 6", [•]	TATA M	1cGRAWHII	L.		

	K.S.Ra	ingasamy College of Technol						R	2008					
Dep	artment	Computer Science and	P	rogrami		e & 14 :	B.E. Com	•	ence and					
- op		Engineering Name						ineering						
			Semes				r							
Сош	rse Code	Course Name	Hc	ours/We		Credit	Ma	ximum Ma	arks					
000			L	Т	Р	С	CA	CA ES To						
081	40604C	WEB TECHNOLOGY	3	1	0	4	50	50	100					
Obje	ective(s)	Describing basic web concept using HTML, XML and DHTM							program					
1	INTRODU	CTION					Tota	al Hrs	9					
	uction – We cript – Vbsci	eb concepts – HTML – HTML ript.	- Forms	s – Ca	scading	j Style She	ets – Sc	ripting La	nguages:					
2	COMMON	GATEWAY INTERFACE					Tota	al Hrs	9					
	amming CG es and Perl	I Scripts – PERL – Applicatior – XML.	ns - Sei	rver Sic	le Inclu	ides – DBI	to connec	ct to a da	tabase -					
3	DYNAMIC	HTML					Tota	al Hrs	9					
		introduction – object model a htrol – ActiveX control – handling				nt model –	filters and	d transitio	n – data					
4	SERVER S	SIDE PROGRAMMING					Tota	al Hrs	9					
– HTT							- simple v							
•		ls – Building an e-Business – e	Marke	ting	Databa									
		nd e-Commerce – m-Business.		sung –	Databa		uvity – C		yments -					
	nours to be t								45					
Text b	ook (s) :	-												
1		, P.J.Deitel, A.B.Goldberg , " ducation , Third Edition, 2004.	INTERN	NET an	d WOF	RLD WIDE	WEB –	How to p	orogram"					
Refere	ence(s):													
1		and H. Schildt, "Java 2: The con												
2	Eric Ladd	and Jim O'Donnell, et al, "USIN	G HTM	L 4, XM	L, and	JAVA1.2", F	PHI publica	ations, 20	03.					
3	Jeffy Dwig	ht, Michael Erwin and Robert N	ikes "U	SING C	GI", PH	II Publicatio	ns, 1997.							

K.S.Rang	asamy College of Techr	ology - /	Auto	nom	ous Reg	gulation			R 2008	
Department	Computer Science and Engineering	Program	mme	Cod	e & Nan	ne 14 :	14 : B.E. Computer Science Engineering			
		Ser	neste	er V						
	Course Nome		Hours/Week Credit Maximum Mark						um Marks	
Course Code	Course Name					Total				
08140607P	VISUAL PROGRAMMIN	١G	0	0	3	2	50	50	100	
Objective(s)	Introduce the windows classes. It enables the C++.									
		List of	expe	rimei	nts					
 Dialog Bas Creating M Threads. Document Dynamic c Menu, Acc Creating D Data acces Creating A Creating S Creating a 	elerator, Tool tip, Tool ba PLLs and using them. ss through ODBC. active control and using it. tudent record using datab simple window.	zation. r. pase conr	nectiv	·						

Department	ngasamy College of Techn Computer Science and Engineering		nme Coc		1/		R 2008 Computer Science and Engineering		
	Engineering	Sem	ester V			L	Ingine	Shing	
			Hours/		Credit		Maxim	num Marks	
Course Code	Course Name	-	LT	Р	С	CA	ES	Total	
08140608P	WEB TECHNOLOGY LABORATORY		0 0	3	2	50	50	100	
Objective(s)	Designing webpage us structures to develop java					ramminę	g and	XML documer	
		List of e	experime	nts					
	a personal web page using I a data entry form in HTML.			L					
 Design a methods pages. Write a navigato Write a Writing 2 Declara Design a Design a Write a Write a Write a Write a Write a Write a 	a data entry form in HTML. Java Script program using W s like alert (), eval (), Parselr Java Script program which n or, Date Array, Event, Number XML web Documents which tion . a web page using Vbscript . program in java to implement program in java using servle JSP program with JDBC. JSP program to implement of	Vindow an nt () etc. m nake use er etc make use nt Databas nt Databas	d docum lethods t of Java \$ of XML se Conne ke servle	nent obje o give th Script's in Declara ectivity	ne dynamio nbuilt as w tion, Elem	ell as us	nality t ser de	o HTML web fined objects lik	
 Design a methods pages. Write a navigato Write a Writing 2 Declara Design a Design a Write a Write a Write a Write a Write a Write a 	a data entry form in HTML. Java Script program using W s like alert (), eval (), Parselr Java Script program which n or, Date Array, Event, Numbe KML web Documents which tion . a web page using Vbscript . program in java to implement program in java using servle JSP program with JDBC.	Vindow an nt () etc. m nake use er etc make use nt Databas nt Databas	d docum lethods t of Java \$ of XML se Conne ke servle	nent obje o give th Script's in Declara ectivity	ne dynamio nbuilt as w tion, Elem	ell as us	nality t ser de	o HTML web fined objects lik	

K.S.Ra	angasamy College of Techno	ology - A	uto	nomo	ous Reg	gulatio	n			R 2008			
Department	Computer Science and Engineering	Progra	mme	e Cod	e & Nai	me	14 : E		Computer Science and Engineering				
		Seme	ester	VI									
Course Code Course Name Hours/Week Credit Maximum M								um Marks					
Course Code	Course Name		L	Т	Р	С	;	CA	ES	Total			
08140609P	MINI PROJECT		0	0	3	2		100	00	100			
Objective(s)	Enhancing the ability of doir	ng the pr	oject	work	cintact.								
Aim	 To Improve the prob To improve the prog 		•										
Guide Lines	 3 Reviews have to b Zeroth review – Abs First Review – Prese Second Review – De 	tract and entation	l title and	work	process	(40 N	larks)						
	Mini Pr	ojects in	Var	ous /	Applicat	ions							

	K.S.R	angasamy College of Techn	ology -	Auto	nom	ous Re	gulat	ion			R 2008		
Depai	rtment	Computer Science and Engineering	Progra	mme	e Coc	le & Nar	me	14 : E		mputer Igineeri	Science and ng		
			Sem	este	r VI		-		-				
Course	e Code	Course Name		H	ours/	Neek	С	redit	Ν	/laximu	m Marks		
Course	e coue			L	Т	Р		С	CA	ES	Total		
08140	0610P	CAREER COMPETENCY DEVELOPMENT IV		0	0	2		0	100	00	100		
Objec	ective(s) Improving the skill level of students, making the students competent with fa and attending competitive exams thereby enhancing the employability of stude												
1	Company type written test in Aptitude, Written Communication Skills												
Compr	npany based questions – Questions from Aptitude, Written Communication and nprehension. luation I Written Test												
2		ny type written test in Verbal a	nd Non-v	erha	al Rea	asonina	Skille	:					
		d Questions – Questions from									6		
•	•	ritten Test		-	-			3			2		
3	Program	nming Skills											
		d questions from C language, ritten Test	Data stru	ctur	es an	d Objec	t Orie	ented P	rogram	ming.	6 2		
4	Interviev	w Skills (Association Session)											
HR Inte	erview –	view – Questions from core su Flexibility, Achievement orient Technical & HR Interview.		cisiv	venes	S					4 + 4		
										Total	32		
Refere	nce(s):												
1	(Unit – I						Ltd.,	New [Delhi, R	Reprint	2008 (Twice)		
2		uide by English Department of											
3	New De	garwal,"A Modern Approach Ihi, 2008, (Unit – II)						•		and & C	Company Ltd,		
4		ant Kanetkar, " Let us 'C' ", BF							-				
5		Schildt, "The Complete Refer											
6		len Weiss , "Data Structures a	-	ithm	Anal	ysis in C	;", Ре	arson I	Educatio	on 2002	2. (Unit – III)		
7	•	ny question papers (Unit I – III)											
8	HR Inte	rview Guide by Training Cell (Unit IV)										
EVALU	JATION (CRITERIA	-										
S.No.	Particul	ar	Test Po								Marks		
1	Evaluat Written	Test				- 50 OQ & Comp			50 OQ:	S,	25		
2	Evaluat Written	Test	Reasor	ning -	- 500	easonir Qs	•				25		
3	Evaluation IIIUnit III – Č Language -500Qs, Data Structures - 25 OQs, OPs- 25 OQs										20		
4	4 Evaluation IV Technical Interview – 6 questions (each question 2.5 marks)												
	orientation (5 Marks), Decisiveness (5 Marks)												
P–Pres	sentation T–Tota			C	DQ-C	bjective	e type	questi	on		T = 100		

Note :

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I, II & III
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. All training & Evaluation tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.
- 4. 60 Interview type questions, 10 questions from each of 6 subjects of VIth Semester are to be prepared. 1 question from each subject at random to be asked carrying 2½ marks each (6 x 2½ = 15 marks) for Technical Interview. Each section is divided into 3 groups of 22 each.

	K.S.R	angasamy College of Technolog	jy - Aut	onom	ous Reg	Julation		R 2	2008	
D	epartment	Computer Science and Engineering	Pro	gramm Nar	e Code ne	& 14 :	B.E. Com Eng	puter Scie	nce and	
		Se	emester	VII						
0.0			Ho	urs/We	ek	Credit	Ma	ximum Ma	arks	
	ourse Code	Course Name	L	Т	Р	С	CA	ES	Total	
30	3140701G	TOTAL QUALITY MANAGEMENT (Common to all B.E./B.Tech. programmes)	ch. 3 0 0 3 50 50							
0	bjective(s)	Understanding the Total Quality available to achieve Total Quality quality control, creating awarene for the industries.	ty Mana	igemei	nt, Unde	erstanding	the statis	stical app	roach for	
1	INTRODUC					al Hrs		9		
Cos	ts, Basic cor	ality, Dimensions of Quality, Quali incepts of Total Quality Managements, Deming Philosophy, Barriers to	ent, His	torical	Review	, Principle				
2	TQM PRINC	CIPLES			Tota	al Hrs		9		
Part Bas 3 The San	inering, source ic Concepts, STATISTIC/ tools of qual	AL PROCESS CONTROL (SPC) ity, Statistical Fundamentals – Me Curve, Control Charts for variable	Rating,	Relation	onship D Tota tral Tend	evelopme al Hrs dency and	ent, Perfo Dispersio	rmance M 9 on, Popula	easures-	
4	TQM TOOL				Tota	al Hrs		9		
of C	Quality, QFD	Reasons to Benchmark, Benchma Process, Benefits, Taguchi Qual ement Needs, FMEA – Stages, Typ	ity Loss							
5	QUALITY S	YSTEMS			Tota	al Hrs		9		
		000 Quality Systems, ISO 9000:2 Documentation, Quality Auditing,								
	al hours to be	taught						45		
	t book (s) : Dale H.Bes	terfiled, et al., "Total Quality Mar	nageme	nt", Pe	earson I	Education	Asia, 19	99. (India	n reprint	
1	2002).	·								
Refe	erence(s) :									
1		vans & William M.Lidsay, "The M omson Learning), 2002 (ISBN 0-3			and Con	trol of Q	uality", (5	th Edition), South-	
2	0	n.A.V. "Total Quality Management",								
	Javakumar.	/ Total Quality Managamant Laka	hmi Dul	- 1' 4' -						
3	-	V, Total Quality Management-Laks masamy "Total Quality Manageme				j.				

										2008	
C	Department		Computer Science and	d P	rogram		le &	14 :		puter Scie	nce and
	•		Engineering	Semes		ame			Eng	ineering	
					ours/We	ok	Cr	edit	Ma	ximum Ma	arko
Cou	Irse Code		Course Name			Р			CA	ES	Total
081	140702C		JECT ORIENTED	3	1	0	4	4	50	50	100
Obj	jective(s)	rela diag	lerstanding the object tionships, services and grams and knowing the bility.	attribu	tes thr	ough L	JML a	and u	nderstand	ling the	use-case
1	INTRODUC	TION	1						Tota	al Hrs	8
	verview of opment Life C		ct Oriented Systems D	evelopi	ment -	Objec	t Bas	ics –	Object	Oriented	Systems
2			TED METHODOLOGIES	5					Tota	al Hrs	12
Appro	ach – Unified	Mod	y - Booch Methodology eling Language – Use ca State Diagram - Activity I	ase - cla	ass diag						
3			TED ANALYSIS							al Hrs	9
Identif Metho		ses -	Object Analysis - Clas	sificatio	on – Id	entifying	g Obj	ect re	lationship	s - Attrib	utes and
4	OBJECT O	RIEN	TED DESIGN						Tota	al Hrs	8
Desigr	n axioms - De	signi	ng Classes – Access Lay	/er - Ob	ject Sto	orage - (Object	Inter	operability	'. '	
5	SOFTWAR	E QU	ALITY AND USABILITY						Tota	al Hrs	8
Desigr	ning Interface	Obje	ects – Software Quality A	ssurand	ce – Sys	stem Us	sability	· - Mea	asuring U	ser Satisfa	action.
TUTO	RIAL										15
Total h	nours to be ta	ught									60
Text b	ook (s) :										
1	Ali Bahrami	, "Ob	ject Oriented Systems De	evelopn	nent", Ta	ata McC	Graw-H	Hill, 19	999 (Unit I	, III, IV, V)	
2	Martin Fowl	er, "L	JML Distilled", Second Ec	dition, P	HI/Pea	rson Ed	lucatio	n, 200	02. (UNIT	ll)	
Refere	ence(s):										
1	Stephen R.	Scha	ach, "Introduction to Obje	ct Orier	ited Ana	alysis aı	nd De	sign",	Tata McG	iraw-Hill, 2	2003.
2	Addison Wesley, 1999.										
3	Hans-Erik Eriksson, Magnus Penker, Brain Lyons, David Fado, "UML Toolkit", OMG Press Publishing Inc., 2004.								ss Wiley		

	K.S.F	Rangasamy College of Technolo	ogy - A	utonon	nous R	egula	tion		R	2008
Dep	artment	Computer Science and Engineering	P	•	me Cod ame	е&	14 :	B.E. Com Eng	ence and	
			Semest	ter VII						
0		Course Name	Ho	ours/We	ek	Cr	edit	Ма	iximum Ma	arks
Cour	se Code	Course Name	L	Т	Р	(С	CA	ES	Total
0814	40703C	PRINCIPLES OF COMPILER DESIGN	3	1	0		4	50	50	100
Obje	ective(s)	Understanding the design the i code generation schemes, optin								
1	INTROD	UCTION TO COMPILING							al Hrs	9
Phase Specif	es – Comp fication of							nalyzer -	Input Bu	iffering –
2		ANALYSIS	F	0					al Hrs	9
Parsin	ng – Predic	ser –Writing Grammars –Context ctive Parsing – Bottom-up parsing Parser – Canonical LR Parser – L/	j – Shil	ft Redu						
3	INTERM	EDIATE CODE GENERATION						Tot	al Hrs	9
		guages – Declarations – Assignm Procedure calls.	nent Sta	atement	ts – Boo	olean	Expre	ssions –	Case Stat	ements –
4	CODE G	ENERATION						Tot	al Hrs	9
and F		sign of code generator – The targ s – Next-use Information – A sim ization.								
5	CODE O	PTIMIZATION AND RUN TIME E	NVIRC	NMEN	TS			Tot	al Hrs	9
Flow A	Analysis –	incipal Sources of Optimization - Runtime Environments – Source ess to non-local names – Parame	Langua	age issu						
Total I	hours to be	e taught								45
Text b	ook (s) :									
1		ho, Ravi Sethi, Jeffrey D Ullma n Asia, 2003.	ın, "Co	mpilers	Princip	oles,	Techr	niques an	d Tools",	Pearson
Refere	ence(s):									
1	Allen I. H	lolub "Compiler Design in C", Prei	ntice Ha	all of Ind	dia, 200	3.				
	C. N. Fis	cher and R. J. LeBlanc, "Crafting	a comp	oiler with	h C", Be	enjam	in Cur	nmings, 2	003.	
2		not "Introduction to Compiler Tee	hniqua	-" 0	مصط لاطنا	tion 7	Coto M	Crow H	003	
2 3	J.P. Ben	net, "Introduction to Compiler Tec	iiiique	s', Seco	ona Eal	uon,		CGIaw-П	iii, 2003.	
		plas and Albert Nymeyer, "Practice								01.

K.S.Rangasamy College of Technology - Autonomous Regulation									R	2008				
De	partment		Computer Science and Engineering	d P	rogramı Na	me Cod ame	e &	14 :	B.E. Com Eng	puter Scie	ence and			
				Semes	ter VII									
0	a Oada			Ho	ours/We	ek	Cr	edit	Ма	ximum Ma	arks			
Cours	e Code		Course Name	L	Т	Р	(С	CA	ES	Total			
0814	0704C		STEM SOFTWARE	3	1	0		4	50	50	100			
Objec	ctive(s)	des	lerstanding the relationsl ign and implementation cessors, System software	of asse										
1	NTRODUC	10IT	N						Tota	al Hrs	8			
			machine architecture - nstruction formats - addre											
	ASSEMBLE									al Hrs	10			
depende indepen	ent assemb dent assem	oler fe nbler	ons - A simple SIC asse eatures - Instruction forn features - Literals – Sym ers - Implementation exar	nats an bol-defi	id addre ining sta	essing r atement	nodes s – E	s – Pr	ogram rel	ocation -	Machine			
3 l	OADERS	AND	LINKERS						Tota	al Hrs	9			
loader fe	eatures - R dent loadei	eloca r feat	 Design of an Absolute tion – Program Linking – ures - Automatic Library ng – Bootstrap Loaders - 	- Algori Search	thm anc n – Loa	d Data S der Op	Structo tions	ures fo - Loac	or Linking ler design	Loader -	Machine-			
4 1	MACRO PF	ROCE	SSORS						Tota	al Hrs	9			
structure Generat Macro-Ir	es - Mach ion of Unio mplementat	iine-ii que l tion e	functions - Macro Defin ndependent macro proc Labels – Conditional Ma xample - MASM Macro P	cessor acro E>	feature pansior	s - Co n – Ke	oncate yword	enatior Maci	n of Mac o Param	cro Parar	neters -			
5 5	SYSTEM S	OFT\	WARE TOOLS						Tota	al Hrs	9			
			of the Editing Process nctions and capabilities -											
Total ho	urs to be ta	ught									45			
Text boo	ok (s) :													
' E	Education,		"System Software – An Impression 2009.	Introdu	uction to	o Syste	ms P	rogran	nming", 3 ^r	^d Edition,	Pearson			
Referen	()													
	D. M. Dhai McGraw-Hi		re, "Systems Programm 99.	ing and	d Opera	ating Sy	/stem	s", Se	cond Rev	vised Edit	ion, Tata			
2 、	John J. Dor	novar	" "Systems Programming"	', Tata I	McGraw	v-Hill Ec	lition,	1991						
I														
K.S.Ran	igasamy College of Techn	ology -	Auto	onom	nous Re	gulation			R 2008					
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Department	Computer Science and Engineering	Progra	mme	e Coc	le & Na	me 14:		ompute Inginee	er Science and ering					
			Ť	ours/	Week	Credit		Maxim	um Marks					
Course Code	Course Name		L	Т	Р	С	CA	ES	Total					
08140707P	COMPILER DESIGN AND SYSTEM SOFTWARE LABORATORY)	0	0	3	2	50	50	100					
Objective(s)	Understanding the conce implementation of lexical a						rocess	or and	the design and					
		List of	expe	erime	ents									
 Impleme 	nt a symbol table with functi nt a single pass assembler. nt a Macro Processor. nt an absolute loader. nt a simple text editor with for nt a relocating loader. ntation of Lexical analysis. ntation of Syntax analysis. ntation of Syntax analysis. ntation of Operator precede ntation of operator precede ntation of shift-reduce parse ntation of code generator. <u>beyond the syllabus:</u> nt a pass 1 of direct linking I ntation to find leading and tr nt the Construction of NFA f	eatures I nce pars er. loader. railing of	ike i ser.	nsert given	ion / del gramm	letion of a ch			l and sentence.					

	r.s.ran	gasamy College of Techr	nology -	Auto	onom	ous Re	-			R 2008
Depa	artment	Computer Science and Engineering	Progra	mme	e Cod	e & Na	me 14 :		ompute Inginee	er Science anc ering
			Ser	nest	er VI					
Cours	e Code	Course Name		Н	ours/\	Neek	Credit		Maxim	num Marks
ooure				L	Т	Р	C	CA	ES	Total
0814	0708P	CASE TOOLS LABORAT		0	0	3	2	50	50	100
Obje	ctive(s)	Understanding the concerned representation	•		0		nd develop	oing the	e prog	ram using UN
			List of							
1.		the following documents for engineering methodology.	r two or t	hree	of the	e exper	iments liste	d below	and d	evelop the
2.	Program	Analysis and Project Plann	ning.							
3.	Thorough	n study of the problem – Ide	entify pro	ject	scope	e, Objec	ctives, Infras	structure	Э.	
4.	Software	requirement Analysis								
5.	Describe	the individual Phases / Mo	dules of	the p	projec	t, Ident	ify deliverat	oles.		
6.	Data Mod	deling								
		products – Data dictionary e diagrams and add interfa					ty diagrams	s, build a	and tes	st lass diagram
7.	Software	Development and Debugg	ing		-					
8.	Software	Testing	-							
		test plan, perform validatior v, Site check and Site monit		Cov	verage	e analys	sis, memory	' leaks,	develo	p test case
2. 3. 4. 5. 6. 7. 8. 9.	Student I Quiz Sys Online Ti Payroll S Course R Expert Sy ATM Sys Stock Ma Real-Tim Remote I <u>Content I</u> Hostel m	cket Reservation System ystem Registration System ystems								

K.S.Ra	angasamy College of Tech	nolog	y - Aı	utonon	nous R	egulation		R 20	08
Department	Computer Science and Engineering	Prog	amm	e Code	e & Nar	ne 14		computer Scien	ce and
			Sem	ester V	'II				
Course Code			Но	urs / W	/eek	Credit		Maximum Mai	rks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140709P	PROJECT WORK – PHA	SE I	0	0	4	2	100	00	100
Objective(s)	To impart the practical k technical procedures in th and review the research a work and placing this as th	eir proj irticles,	ject w journ	ork. To als and	o provid d confe	e an expos rence proc	sure to tl eedings	ne students to rele4vant to th	refer, read
Methodology	 Three reviews ha one of which shou Problem should be Students have to a Reports has to be Preliminary impleation Internal evaluation 	uld be t e selec collect prepa mentat	he gu cted about red by ion ca	ide t 20 pa / the st in be d	pers re udents one if p	lated to the as per the possible	eir work		

	ĸ.s.Ra	ngasamy College of Teo	nnology	/ - Au	tonon	nous r	regulatio	<u>on</u>	<u> </u>	<u> </u>	R 2008
Depa	rtment	Computer Science and	Proc	ramm	ne Coo	de & N	ame	14 :			er Science and
		Engineering		,						Engine	ering
			5		ster VI		Crodit	<u> </u>	A.	101/100	n Morka
Cours	se Code	Course Name		HO L	ours/W	еек Р	Credit C			ES	n Marks Total
0814	0710P	CAREER COMPETENC	CY	0	0	2	0		00	00	100
Objec	ctive(s)	Improving the skill level attending competitive ex									g Interviews a
1	Compar	y type written test in Apti						<u>, ,</u>	<i>j</i>		1
Compai		uestions – Questions fror						and			0
	hension.										6
	ion I Writte	n Test									2
2	Compar	y type written test in Vert	al and N	lon-ve	erbal R	Reason	ing Skills	6			2
Compa		uestions – Questions fro									6
	ion II Writte						0				2
3	Program	iming Skills									3
Compai		uestions from C language	e, Data s	tructu	res an	d Obje	ect Orient	ed			e
Program	nming.					-					6 2
<u>Evaluat</u>	ion III Writt										۷
4		v Skills (Association Sess									4
		v – Questions from core s									
HR Inte	rview – Fle	xibility, Achievement orie	ntation, I	Decisi	venes	s					
Evaluat	<u>ion IV – Te</u>	chnical & HR Interview.									4 + 4
				_							32
								Total			32
Referer											-
Referer 1		arwal , "Quantitative Apti	tude", S.	Chan	d & Co	ompan			lhi, Re	print 20	-
	R.S.Agg – I)					-	y Ltd., N		lhi, Re	print 20	-
1	R.S.Agg – I) CCD Gu	ide by English Departme	nt of KSI	RCT, 2	2008 (Unit –	y Ltd., N	ew De			07 (Twice) (U
1	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20	iide by English Departme jarwal , "A Modern Appro 008, (Unit – II)	nt of KSI ach to ve	RCT, 2 erbal &	2008 (& Non-	Unit – -verba	y Ltd., N I) I Reasor	ew De	S.Chan		07 (Twice) (U
1 2 3 4	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20 Yashava	iide by English Departme jarwal , "A Modern Appro 208, (Unit – II) ant Kanetkar, " Let us 'C'	nt of KSI ach to ve	RCT, 2 erbal &	2008 (& Non-	Unit – -verba New D	y Ltd., No I) I Reasor Delhi, 200	ew De hing", S D2 (Uni	S.Chan	id & Co	07 (Twice) (U
1 2 3	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20 Yashava Herbert	iide by English Departme jarwal , "A Modern Appro 208, (Unit – II) ant Kanetkar, " Let us 'C' Schildt , "The Complete F	nt of KSI ach to ve ", BPB P Referenc	RCT, 2 erbal & ublica e C++	2008 (& Non- itions,	Unit – -verba <u>New D</u> a Mac	y Ltd., N I) I Reasor Delhi, 200 Graw Hill	ew De hing", S 02 (Uni , 2003	S.Chan it – III) (Unit -	id & Co - III)	07 (Twice) (U mpany Ltd, Ne
1 2 3 4	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20 Yashava Herbert Mark All	iide by English Departme jarwal , "A Modern Appro 208, (Unit – II) ant Kanetkar, " Let us 'C' Schildt , "The Complete F en Weiss , "Data Structur	nt of KSI ach to ve ", BPB P Referenc res and A	RCT, 2 erbal & ublica e C++	2008 (& Non- itions,	Unit – -verba <u>New D</u> a Mac	y Ltd., N I) I Reasor Delhi, 200 Graw Hill	ew De hing", S 02 (Uni , 2003	S.Chan it – III) (Unit -	id & Co - III)	07 (Twice) (U mpany Ltd, Ne
1 2 3 4 5 6 7	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20 Yashava Herbert Mark All Compar	iide by English Departme parwal , "A Modern Appro 208, (Unit – II) ant Kanetkar, " Let us 'C' Schildt , "The Complete F en Weiss , "Data Structur ny question papers (Unit I	nt of KSI ach to ve ", BPB P Referenc res and <i>I</i> – III)	RCT, 2 erbal & ublica e C++ Algorit	2008 (& Non- itions,	Unit – -verba <u>New D</u> a Mac	y Ltd., N I) I Reasor Delhi, 200 Graw Hill	ew De hing", S 02 (Uni , 2003	S.Chan it – III) (Unit -	id & Co - III)	07 (Twice) (U mpany Ltd, Ne
1 2 3 4 5 6 7 8	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20 Yashava Herbert Mark All Compar HR Intel	iide by English Departme parwal , "A Modern Appro 008, (Unit – II) ant Kanetkar, " Let us 'C' Schildt , "The Complete F en Weiss , "Data Structur ny question papers (Unit I view Guide by Training C	nt of KSI ach to ve ", BPB P Referenc res and <i>I</i> – III)	RCT, 2 erbal & ublica e C++ Algorit	2008 (& Non- itions,	Unit – -verba <u>New D</u> a Mac	y Ltd., N I) I Reasor Delhi, 200 Graw Hill	ew De hing", S 02 (Uni , 2003	S.Chan it – III) (Unit -	id & Co - III)	07 (Twice) (U mpany Ltd, Ne
1 2 3 4 5 6 7 8 EVALU	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 20 Yashava Herbert Mark All Compar	iide by English Departme parwal , "A Modern Appro 008, (Unit – II) ant Kanetkar, " Let us 'C' Schildt , "The Complete F en Weiss , "Data Structur ny question papers (Unit I view Guide by Training C	nt of KSI ach to ve ", BPB P Referenc res and <i>I</i> – III)	RCT, 2 erbal & ublica e C++ Algorit	2008 (& Non- itions,	Unit – -verba <u>New D</u> a Mac	y Ltd., N I) I Reasor Delhi, 200 Graw Hill	ew De hing", S 02 (Uni , 2003	S.Chan it – III) (Unit -	id & Co - III)	07 (Twice) (U mpany Ltd, Ne
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1 2 3 4 5 6 7 8 EVALU, S.No. 1 2 3	R.S.Agg – I) CCD Gu R.S.Agg Delhi, 2' Yashava Herbert Mark All Compar HR Inter ATION CR Particula Evaluati Written Evaluati Written	iide by English Departme parwal , "A Modern Appro 208, (Unit – II) ant Kanetkar, " Let us 'C' Schildt , "The Complete F en Weiss , "Data Structur ny question papers (Unit I view Guide by Training C ITERIA ar on I Test on II Test on II Test	nt of KSI ach to ve ", BPB P Reference res and A – III) Cell (Unit Unit I- Comm OQs, Unit II Verbal Unit III Structu Unit IV Techni questic HR inte	RCT, 2 erbal 8 eublica e C++ Algorit IV) ortion Aptitu unicat Reaso - C L ures -2 cal Into on 2.5 erview	2008 (2008 (Non- tions, " Tata hm An ude – { tion & bal Re bal Re C bal Re C bal Re C bal Re C bal Re C bal Re C	Unit – –verba <u>New E</u> a MacC allysis 50 OQ Compi asonin – 5000 age -50 s, OP v – 6 q s) xibility	y Ltd., N I) I Reasor Delhi, 200 Graw Hill in C", Pe s, Writter rehension g – 50 C Qs DOQs, Da s- 25 OC uestions (5 Marks	ew De hing", S 22 (Uni , 2003 earson h n – 50 PQs, No ata s),	S.Chan (Unit - Educa	id & Co - III)	07 (Twice) (U mpany Ltd, Ne 02. (Unit – III) Marks 25 25 25 20 15
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1. Question paper and keys will be supplied by the training cell for written test for Evaluation I, II & III

2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.

3. All training & Evaluation tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.

4. 60 Interview type questions, 10 questions from each of 6 subjects of VIth Semester are to be prepared. 1 question from each subject at random to be asked carrying 2½ marks each (6 x 2½ = 15 marks) for Technical Interview. Each section is divided into 3 groups of 22 each.

K.S.R	angasamy College of Tech	nology /	Auton	omo	us Regi	ulation			R 2008
Department	Computer Science and Engineering				& Name	14: E		nputer ngineer	Science and
		Seme	ester -						
Course Code	Course Name		Ho	urs/V	Veek	Credit	Ν		um Marks
			L	Т	Р	С	CA	ES	Total
08140801C	MOBILE COMPUTING		3	0	0	3	50	50	100
Objective(s)	Learn the basics of Wire knowledge on various tele wireless LAN and its stan and to build skills in work applications.	ephone a idards, b ing with	and sa ouild ki Wirele	atellit nowle	e netwo edge on	orks, to stud various M	dy the v obile C	vorking omput	g principles of ing algorithms
1 WIRELE	SS COMMUNICATION FUNE	DAMENT	ALS		То	tal Hrs			9
Propagation – M Cellular Wireless		Spread			- MAC -	- SDMA -			
	MMUNICATION NETWORKS					tal Hrs			11
	tion systems – GSM – GPR								
3 WIRLES	Configurations – Capacity All	location	- FAN	IA an		<u>A – Broadca</u> Ital Hrs	ast Syst	ems –	DAB - DVB.
				MAG					9
	- IEEE 802.11 - Architecture ERLAN – Blue Tooth.	- servi	ces –	WAC	, – Pily	sical layer		: 002.	11a - 602.11b
	NETWORK LAYER				То	tal Hrs			9
Mobile IP – Dyn	amic Host Configuration Proto	ocol - Ro	uting -	- DSI	DV – DS	SR – Alterna	ative M	etrics.	
5 TRANSF	ORT AND APPLICATION LA	YERS			То	tal Hrs			7
Traditional TCP	- Classical TCP improvemen	ts – WA	P, WA	P 2.0).				
Total hours to be	e taught								45
Text book (s) :	-								
	Schiller, "Mobile Communicati Jnit II chap 4,5 &6-Unit III Cha							n, 2003	3. (Unit I Chap
	Stallings, "Wireless Commur – 7&10-Unit II Chap 9)	nications	and	Netw	vorks", I	PHI/Pearso	n Educ	ation,	2002. (Unit I
Reference(s):									
1 Kaveh P 2003.	ahlavan, Prasanth Krishnamo	oorthy, "F	Princip	les o	f Wirele	ess Network	s", PHI	/Pears	on Education,
Springer	nsmann, Lothar Merk, Martin S , New York, 2003.								
3 Hazyszto	of Wesolowshi, "Mobile Comm	nunicatio	n Syst	ems"	', John \	Viley and S	ions Lto	l, 2002	

	K.S.F	Rangasamy College of Technology	ogy - A	utonon	nous R	egulatior	า		R	2008
Depa	artment	Computer Science and	P	rogram		e &	14		omputer S	
•		Engineering	Semest		ame			and E	ingineerin	g
				ours/We	ok	Credit		Ma	ximum M	arke
Cour	se Code	Course Name	L	T	P	Credit	-	CA	ES	Total
081	40802C	NETWORK SECURITY	3	0	0	3		50	50	100
Obje	ective(s)	Knowing the methods of conv encryption and number theory the network security tools and used.	, under	rstandin	ig authe	entication	and	d Hash fu	unctions,	knowing
1	INTROD	UCTION						Tota	al Hrs	10
Block	Cipher De	chitecture - Classical Encryption esign Principles and Modes of O nt of Encryption Function – Traffic	peratio	n - Eva	luation					
2	PUBLIC	KEY CRYPTOGRAPHY						Tota	al Hrs	10
		nt - Diffie-Hellman key Exchange ry – Confidentiality using Symme								roduction
3		TICATION AND HASH FUNCTION								_
-									al Hrs	9
Authe	ntication re	equirements – Authentication fun Functions and MACs – MD5 me	ctions · ssage l	Digest a	algorithr	n - Secur	e H	Codes -	Hash Fu	nctions –
Authe	ntication re ity of Hash Digital Sig	equirements – Authentication fun	ctions · ssage l	Digest a	algorithr	n - Secur	e H	Codes – lash Algo	Hash Fu	nctions –
Auther Securi HMAC 4 Auther	ntication re ity of Hash Digital Sig NETWOI ntication A	equirements – Authentication fun Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509	ctions - ssage l ols – Di	Digest a gital Sig	algorithr gnature	n - Secur Standard	re H I	Codes – lash Algo	Hash Fu prithm – R al Hrs	nctions – IPEMD – 8
Auther Securi HMAC 4 Auther	ntication re ity of Hash Digital Sig NETWO NETWO ntication A 1E - IP Sec	equirements – Authentication fun Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY	ctions - ssage l ols – Di	Digest a gital Sig	algorithr gnature	n - Secur Standard	re H I	Codes – lash Algo Tota ic Mail S	Hash Fu prithm – R al Hrs	nctions – IPEMD – 8
Auther Securi HMAC 4 Auther S/MIN 5 Intrusi	ntication re ity of Hash Digital Sig NETWOI ntication A 1E - IP Sec SYSTEM	equirements – Authentication fun Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security.	ctions - ssage l bls – Die Authen	Digest a gital Sig tication	algorithr gnature Servic	n - Secur <u>Standard</u> e – Elec	re H I tron	Codes – lash Algo Tota ic Mail S	Hash Fu prithm – R al Hrs Security al Hrs	nctions – IPEMD – 8 – PGP – 8
Auther Securi HMAC 4 Auther S/MIV 5 Intrusi Firewa	ntication re ity of Hash Digital Sig NETWOI ntication A 1E - IP Sec SYSTEM	equirements – Authentication fun I Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security. I LEVEL SECURITY on – password management – Vin Principles – Trusted Systems.	ctions - ssage l bls – Die Authen	Digest a gital Sig tication	algorithr gnature Servic	n - Secur <u>Standard</u> e – Elec	re H I tron	Codes – lash Algo Tota ic Mail S	Hash Fu prithm – R al Hrs Security al Hrs	nctions – IPEMD – 8 – PGP – 8
Auther Securi HMAC 4 Auther S/MIN 5 Intrusi Firewa	ntication re ity of Hash Digital Sig NETWOI ntication A IE - IP Sec SYSTEM on detection all Design I	equirements – Authentication fun I Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security. I LEVEL SECURITY on – password management – Vin Principles – Trusted Systems.	ctions - ssage l bls – Die Authen	Digest a gital Sig tication	algorithr gnature Servic	n - Secur <u>Standard</u> e – Elec	re H I tron	Codes – lash Algo Tota ic Mail S	Hash Fu prithm – R al Hrs Security al Hrs	IPEMD – IPEMD – 8 – PGP – 8 –
Auther Securi HMAC 4 Auther S/MIN 5 Intrusi Firewa	ntication re ity of Hash Digital Sig NETWO ntication A IE - IP Sec SYSTEM on detection all Design I hours to be book (s) :	equirements – Authentication fun I Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security. I LEVEL SECURITY on – password management – Vin Principles – Trusted Systems.	ctions - ssage l bls – Di Authen	Digest a gital Sig tication nd relat	algorithr gnature Service ed Thre	n - Secur <u>Standard</u> e – Elec eats – Viru	tron	Codes – lash Algo Tota ic Mail S Tota Counter n	Hash Fu prithm – R al Hrs Security – al Hrs neasures	IPEMD – IPEMD – 8 – PGP – 8 – 45
Auther Securi HMAC 4 Auther S/MIV 5 Intrusi Firewa Total I Text b	ntication re ity of Hash Digital Sig NETWO ntication A IE - IP Sec SYSTEM on detection all Design I hours to be book (s) :	equirements – Authentication fun Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security. I LEVEL SECURITY on – password management – Vin Principles – Trusted Systems. e taught Stallings, "Cryptography And Ne	ctions - ssage l bls – Di Authen	Digest a gital Sig tication nd relat	algorithr gnature Service ed Thre	n - Secur <u>Standard</u> e – Elec eats – Viru	tron	Codes – lash Algo Tota ic Mail S Tota Counter n	Hash Fu prithm – R al Hrs Security – al Hrs neasures	IPEMD – IPEMD – 8 – PGP – 8 – 45
Auther Securi HMAC 4 Auther S/MIV 5 Intrusi Firewa Total I Total I Text b	htication re ity of Hash Digital Sig NETWOI ntication A IE - IP Sec SYSTEM on detection all Design I hours to be book (s) : William S India, Th ence(s):	equirements – Authentication fun Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security. I LEVEL SECURITY on – password management – Vin Principles – Trusted Systems. e taught Stallings, "Cryptography And Ne	ctions - ssage ols – Di Authen ruses an twork \$	Digest a gital Sig tication nd relat	Service ed Thre	n - Secur Standard e – Elec ats – Viru	re H I tron us C	Codes – lash Algo Tota ic Mail S Tota Counter n	Hash Fu prithm – R al Hrs Security – al Hrs neasures	IPEMD – IPEMD – 8 – PGP – 8 – 45
Auther Securi HMAC 4 Auther S/MIV 5 Intrusi Firewa Total I Total I Text b 1 Refere	htication re ity of Hash Digital Sig NETWOI ntication A IE - IP Sec SYSTEM on detection all Design I hours to be book (s) : William S India, Th ence(s): Atul Kaha	equirements – Authentication fun Functions and MACs – MD5 me gnatures – Authentication Protoco RK SECURITY Applications: Kerberos – X.509 curity – Web Security. 1 LEVEL SECURITY on – password management – Vin Principles – Trusted Systems. e taught Stallings, "Cryptography And Ne ird Edition, 2003.	ctions - ssage ols – Di Authen ruses al twork S	Digest a gital Sig tication nd relat Security	service service ed Thre v – Prin	n - Secur Standard e – Elec vats – Viru nciples ar	re H I tron us C	Codes – lash Algo Tota ic Mail S Tota Counter n	Hash Fu prithm – R al Hrs Security – al Hrs neasures	IPEMD – IPEMD – 8 – PGP – 8 – 45

K.S.R	angasamy College of Techno	ology - A	luto	nomo	ous Reg	gulati	on			R 2008
Department	Computer Science and Engineering	Progra	mme	e Cod	e & Nai	me	14 : E		mputer ngineer	r Science and ring
		Seme	ster	VIII						
Course Code	Course Name		H	ours/\	Neek	Cr	edit	Ν	Λaximu	um Marks
Course Code	Course Name		L	Т	Р	(С	CA	ES	Total
08140804P	PROJECT WORK – PHASE	II	0	0	20	1	0	50	50	100
Objective(s)	To enables and strengthene implement their innovative ic adopting suitable assessmen	deas to t	foref	ront 1	the risk	issue	es and	to retr		
	Three reviews have t	to be con	nduc	ted b	y the co	ommit	tee of	minimu	im of t	hree members
Methodology	one of which should l	be the g	uide							
	Each review has to b	e evalua	ted	for 10	0 Mark	S				
	Attendance is compute	ulsory for	r all	revie	ws. If a	stude	ent fail	s to att	end re	view for some
	valid reason, one or r	more cha	ance	may	be give	n				
	They should publish	the pape	er pre	eferat	oly in the	e jour	nals / o	confere	nce	
	Final review will be	done	by t	he c	ommitte	e tha	at con	sists o	f miniı	mum of three
	members one of whi	ich shou	ld b	e the	guide ((If pos	ssible	include	one e	external expert
	examiner with in the	college)								
	The Report should be	e submit	ted b	by the	studen	ts arc	ound at	t the en	d of m	ay.

K	.S.Ran	gasamy College of Technol	ogy -	Auto	onom	ious Re	egulati	ion			R 2008
Depart	ment	Computer Science and Engineering	Prog	gram	nme (Code &	Name	1	14 : B.		mputer Science and gineering
				Elec	tive -	1					
~	0			Но	ours/\	Veek	Crec	lit		Мах	kimum Marks
Course	Code	Course Name		L	Т	Р	С		CA	ES	Total
081406	641E	RESOURCE MANAGEMEN TECHNIQUES	Т	3	0	0	3		50	50	100
Objecti	ve(s)	To know the attitude of vari solving decision making scie									
1	LINE	AR PROGRAMMING:							Total	Hrs	9
		ponents of decision problem ation problems – Simplex met								on and	d graphic solution -
2	DUAL	LITY AND NETWORKS:							Total	Hrs	9
		ual problem – Primal – Dual and assignment model shorte					simplex	(met	thods	-revis	ed simplex method -
3	INTE	GER PROGRAMMING:							Total	Hrs	9
Cutting program		lgorithm – Gomory's constra	int m	etho	d - E	Branch	and be	ound	meth	ods, N	Multistage (Dynamic)
4	INVE	NTORY THEORY							Total	Hrs	9
		in inventory problems – Sing vith shortage having productio						3 – E	conor	nic lot	size models without
5	OBJE	CT SCHEDULING:							Total	Hrs	9
Network	k diagra	m representation – Critical pa	th me	thod	– Tir	ne chai	rts and	reso	urce l	eveling	g – PERT.
Total ho	ours to l	be taught									45
Text bo	ok (s) :										
1		H. A., "Operations Research- 2002.	An Int	trodu	uction	", Seve	enth Ed	lition,	Pear	son Ec	lucation Edition Asia,
Referen	ice(s):										
1	Ande	rson 'Quantitative Methods for	Busir	iess'	', 8th	Edition	, Thom	ison I	Learni	ing, 20	02.
2	Winst	on 'Operation Research', Tho	mson	Lear	rning,	2003.					
3	Vohra	a, 'Quantitative Techniques in	Manag	gem	ent', T	Fata Mo	Graw	Hill, 2	2002.		
4		d Sarma, 'Operation Research									

	K.S.Rar	gasamy College of Techno	ology - A	uto	nom	ous Re	gulation			R 2008
Depa	rtment	Computer Science and	Pro		nme (lame	Code &	14 :			er Science and
-		Engineering	Fle	ctive					nginee	ling
			LIC			Week	Credit		Maxim	um Marks
Cour	se Code	Course Name		L	T	P	C	CA	ES	Total
0814	40642E	UNIX INTERNALS		3	0	0	3	50	50	100
Obje	ective(s)	Students study and under system calls, scheduling an							trol, kr	now the various
1	GENERA	L OVERVIEW OF THE SYS					tal Hrs			9
		n structure – User perspecti e Kernel: Architecture of the								
2	BUFFER			ciali	ing s		tal Hrs	11 to 3y	Sterri C	9
disadv Direct	vantages o ories – Cor	 Structure of the buffer f the buffer cache. Internal iversion of a path name to ar 	represe	entat	ion o	of files: lock –A	Inodes –	Structu	re of	a regular file –
3	-	CALLS FOR FILE SYSTEM					tal Hrs			9
		Write – File and record loc on of special files – Pipes – I								
4	PROCES	SES				То	tal Hrs			9
proces	ss. Proces	nd transitions – Layout of sys s Control: Process creation ograms – The shell – System	 Signals boot ar 	s – F	Proce	ess term	nination – A			
5	PROCES MANAGE	S SCHEDULING AND MEM	ORY			То	tal Hrs			9
		ing – Memory Management Drivers-Terminal Drivers – S		Swa	appin	ig – Dei	mand pagin	g. The	I/O Su	bsystem: Driver
	nours to be									45
Text b	ook (s):									
1	Maurice J	. Bach, "The Design of the U	nix Oper	ating	g Sys	stem", F	Prentice Hall	of Indi	a, 200	6.
Refere	ence(s):									
1	Vahalia, "	Unix Internals: The New From	ntiers", P	ears	on E	ducatio	n Inc, 2003.			
2	Rebecca	Thomas & jean Yates: "A use	er guide	to th	e Un	ix Syste	em", Tata M	cGraw	Hill Ec	lition, 1999.
3		Rosen, Douglas host, Jame raw Hill Edition, 2000.	es Farbe	r &	Rich	ard Ros	singki: "UNI	X: The	comp	lete Reference,

	K.S.Ra	ngasamy College of Techno	ology - A	uto	nomo	ous Reg	gulation			R 2008
Depa	artment	Computer Science and Engineering	Pro	•	nme (lame	Code &	14 :		ompute inginee	er Science and ering
			Ele	ctive	-					
0		Course Norse		Ho	ours/\	Veek	Credit		Maxim	um Marks
Cours	se Code	Course Name		L	Т	Р	С	CA	ES	Total
0814	40643E	CLIENT SERVER COMPUT	ING	3	0	0	3	50	50	100
Obje	ctive(s)	At the end of the course concepts, to enable the stud						client s	server	techniques and
1	INTROD						tal Hrs			9
		mputing era - Real Client/Se ient server for different model					t clients - 2	2 tier V	's 3 tie	r - Intergalactic
2		SERVER OPERATING SYST		ing i			tal Hrs			9
from C	DS - Clier	ver programs - Server needs it OS trends - MAC OS - L arp server.								
3	CLIENT	SERVER MIDDLEWARE				To	tal Hrs			9
	aging and o S.	messaging and peer to pee queuing - MOM Vs RPC - E	volution	of th		DS - D				
Manag Heavy	Properties gement - 7 - TP L	- Transaction Models - T TP Monitor Client/ Server Int ite versus TP Heavy – M ocations - Performance.	P Monit teraction	or - type	es -	Transa	ctional RPC	C-Qu	ieues -	TP Lite or TP
5	-	SERVER AND INTERNET					tal Hrs			9
CGI a	nd State -	d internet - Web client server SQL database servers - Mic GroupWare Server - what is	dleware	and	fede	rated d	atabases -	data w		
Total h	nours to be	taught								45
Text b	ook (s) :									
1	Singapor									•
	James F	Coldman Dhillin T. Dourlos		N 4 -		"OL: 11	Convor Info	rmation	Syste	
2	Oriented	. Goldman, Phillip T. Rawles, Approach", John Wiley & Sor					Server Inioi	matio	, eyete	ms, A Business
	Oriented ence(s):	Approach", John Wiley & Sor	ns, Singa	apore	e, 200	00.			-	ms, A Business
	Oriented ence(s): Jeri Edwa		ns, Singa at work	apore ', Jol	e, 200	00. iley & S	ons, Singa	pore, 20	003.	

	K.:	S.Rangasamy College of Techn	ology -	Autono	omous	Regula	tion		R	2008
Depar	tment	Computer Science and Engineering	Prog	gramme	e Code a	& Name		I : B.E. nce and		
			Elective	e - I						
0	0.1			Ho	ours/We	ek	Credit	Max	imum	Marks
Course	Code	Course Name		L	Т	Р	С	CA	ES	Total
08140	644E	DATA WAREHOUSING AND M	_	3	0	0	3	50	50	100
Object	tive(s)	Introduce the concept of data n and implication. Core topics exhaustively dealt with the conce and design.	like cl	assifica	ation, c	lusterin	g and as	sociatio	n rul	es are
1	INTROD	UCTION AND DATA WAREHOU	SING			То	tal Hrs		8	
		ta Warehouse, Multidimensional		odel, D	Data Wa	arehous	e Architect	ure, Im	pleme	ntation,
		ment, Data Warehousing to Data				1		1		
2	CONCE	REPROCESSING, LANGUAGE, PT DESCRIPTION					tal Hrs		8	
Genera Descrip	tion, Da tion, Dat	sing, Cleaning, Integration, Tra ta Mining Primitives, Query La a Generalization, Characterization	nguage,	Graph	nical Us	ser Inte	rfaces, Arc	chitectu	res, C	oncept
		ATION RULES				-	tal Hrs		9	
		e Mining, Single-Dimensional Boo n Rules from Transaction Databa		sociati	on Rule	s from	Transactior	nal Data	abases	s, Multi-
1		FICATION AND CLUSTERING	303.			То	tal Hrs		12	
		d Prediction, Issues, Decision Tre tion Methods, Prediction, Classifie					cation, Ass	ociatior	n Rule	Based,
5	RECEN	T TRENDS				То	tal Hrs		8	
	ses, Tim	I Analysis and Descriptive Minir e Series and Sequence Data, Te								
Total ho	ours to be	e taught							45	
Text bo	ok (s) :							-		
1	J. Han, I	M. Kamber, "Data Mining: Concep	ots and T	echniq	ues", H	arcourt	India / Mor	gan Kau	uffman	, 2001.
Referen	nce(s):									
-	•	t H.Dunham, "Data Mining: Introd	•			•				l.
2	Sam An	ahory, Dennis Murry, "Data Warel	housing	in the r	eal wor	ld", Pea	rson Educa	tion 20	03.	
3	David H	and, Heikki Manila, Padhraic Sym	ıth, "Prin	ciples o	of Data	Mining",	, PHI 2004.			
4	W.H.Inm	non, "Building the Data Warehous	e", 3 rd E	dition, \	Viley, 2	003.				
5	Alex Bez	zon, Stephen J.Smith, "Data Ware	ehousing	, Data	Mining	& OLAF	", MeGraw	-Hill Ed	ition, 2	001.
6	Paulraj I	Ponniah, "Data Warehousing Fund	damenta	ls", Wil	ey-Inter	rscience	Publicatio	n, 2003		

	Rangasamy College of Teo	hnolo	gy - Au	Itonom	ous Regulati	on		R 2008
Department	Computer Science an Engineering	d	Pro	ogramm Na	ne Code & me	14 : E	B.E. Comp and Engir	outer Science neering
			Electiv	e - I				
Course Code	Course Name	Ho	ours/We	eek	Credit		Maximum	n Marks
Course Coue		L	Т	Р	С	CA	ES	Total
08140645E	ADVANCED JAVA PROGRAMMING	3	0	0	3	50	50	100
Objective(s)	The students learn advanc threads, etc, network pro applications to understand	ograms	in Ja	ava Co	ncepts neede	ed for d	istributed	
1 JAVA FU	NDAMENTALS				Total H	rs		9
	ming – filter and pipe strea ading – Java Native Interfac			Code in	nterpretation	- reflectio	on – Dyna	amic Reflexive
-	RK PROGRAMMING IN JAV				Total H			9
	ure sockets – custom socke server – writing data – conf g services.							
3 APPLICA	TIONS IN DISTRIBUTED EN	N // D O						
					Total H	-		9
Remote metho	n – CORBA – IDL technolog	odels	- RMI	custom	sockets - O	bject Se		– RMI – IIOP
Remote methor implementation creation. 4 MULTI-TI	ed Invocation – activation m – CORBA – IDL technologier	odels - gy – N PMEN	– RMI laming T	custom Servic	sockets – O es – CORBA Total H	bject Se program	nming Moo	– RMI – IIOP dels - JAR file 9
Remote methor implementation creation. 4 MULTI-TI Server side pro communication	od Invocation – activation m – CORBA – IDL technologi IER APPLICATION DEVELO ogramming – servlets – Java 1 - JDBC – Using BLOB	odels gy – N PMEN Serve and C	- RMI laming T r Pages LOB o	custom Servic s - App bjects	sockets – O es – CORBA Total H let to Applet c	bject Se program rs	ming Moo	- RMI - IIOP dels - JAR file 9 opplet to Servlet
Remote methor implementation creation. 4 MULTI-TI Server side pro communication Multimedia stre	d Invocation – activation m – CORBA – IDL technolog ER APPLICATION DEVELO ogramming – servlets – Java	odels gy – N PMEN Serve and C	- RMI laming T r Pages LOB o	custom Servic s - App bjects	sockets – O es – CORBA Total H let to Applet c	bject Se program rs ommunic Iltimedia	ming Moo	- RMI - IIOP dels - JAR file 9 opplet to Servlet
Remote methor implementation creation. 4 MULTI-TI Server side pro communication Multimedia stree 5 ENTERP	d Invocation – activation m – CORBA – IDL technolog Degramming – servlets – Java – JDBC – Using BLOB eaming applications – Java M RISE APPLICATIONS	odels - gy – N PMEN Serve and C ledia F	– RMI laming T r Pages LOB o ramewo	custom Servic s - App bjects ork	sockets – C es – CORBA Total H let to Applet c – storing Mu Total H	bject Se program rs communic iltimedia	aming Moo cation – ap data into	- RMI - IIOP dels - JAR file 9 pplet to Servlet o databases - 9
Remote methor implementation creation. 4 MULTI-TI Server side pro communication Multimedia stree 5 ENTERP Server Side Co	d Invocation – activation m – CORBA – IDL technolog pgramming – servlets – Java – JDBC – Using BLOB aaming applications – Java M RISE APPLICATIONS pomponent Architecture – Intro actions.	odels - gy – N PMEN Serve and C ledia F	– RMI laming T r Pages LOB o ramewo	custom Servic s - App bjects ork	sockets – C es – CORBA Total H let to Applet c – storing Mu Total H	bject Se program rs communic iltimedia	aming Moo cation – ap data into	- RMI - IIOP dels - JAR file 9 pplet to Servlet o databases - 9
Remote methor implementation creation. 4 MULTI-TI Server side pro communication Multimedia stre 5 ENTERP Server Side Co Beans – Trans	d Invocation – activation m – CORBA – IDL technolog pgramming – servlets – Java – JDBC – Using BLOB aaming applications – Java M RISE APPLICATIONS pomponent Architecture – Intro actions.	odels - gy – N PMEN Serve and C ledia F	– RMI laming T r Pages LOB o ramewo	custom Servic s - App bjects ork	sockets – C es – CORBA Total H let to Applet c – storing Mu Total H	bject Se program rs communic iltimedia	aming Moo cation – ap data into	- RMI - IIOP dels - JAR file 9 oplet to Servlet databases - 9 ersistent Entity
Remote method implementation creation. 4 MULTI-TI Server side procommunication Multimedia street 5 ENTERP Server Side Co Beans – Transe Total hours to to Text book (s) :	d Invocation – activation m – CORBA – IDL technolog pgramming – servlets – Java – JDBC – Using BLOB aaming applications – Java M RISE APPLICATIONS pomponent Architecture – Intro actions.	odels gy – N PMEN Serve and C ledia F	- RMI laming T r Pages LOB o ramewo	custom Servic s - App bjects ork EE – Se	sockets – C es – CORBA Total H let to Applet c – storing Mu Total H ession Beans	bject Se program communic ultimedia rs – Entity E	aming Moo cation – ap data into Beans – P	- RMI - IIOP dels - JAR file 9 oplet to Servlet databases - 9 ersistent Entity
Remote method implementation creation. 4 MULTI-TI Server side processor 5 ENTERP Server Side Co Beans – Trans Total hours to t Text book (s) : 1	ad Invocation – activation m – CORBA – IDL technology IER APPLICATION DEVELO pgramming – servlets – Java a) - JDBC – Using BLOB examing applications – Java M RISE APPLICATIONS pomponent Architecture – Intro- actions. taught	odels gy – N PMEN Serve and C ledia F oduction	- RMI laming T Pages LOB o ramewo n to J2E	s - App bjects ork EE – Se	sockets – O es – CORBA Total H let to Applet c – storing Mu Total H ession Beans	bject Se program rs ommunic iltimedia rs – Entity E 2000 (U	cation – ap data into Beans – P	- RMI - IIOP dels - JAR file 9 opplet to Servlet databases - 9 ersistent Entity 45
Remote methodRemote methodimplementationcreation.4MULTI-TIServer side procommunicationMultimedia streed5ENTERPServer Side CoBeans – TranseTotal hours to tText book (s) :1Elliotte Re2Ed Roma	ad Invocation – activation m – CORBA – IDL technology IER APPLICATION DEVELO ogramming – servlets – Java a - JDBC – Using BLOB eaming applications – Java N RISE APPLICATIONS omponent Architecture – Intro- actions. taught usty Harold, " Java Network I in, "Mastering Enterprise Java on & Cornell, "CORE JAVA 2	odels gy – N PMEN Serve and C ledia F oduction Program a Bean	RMI laming T r Pages LOB o ramewo n to J2E	custom Servic s - App bjects ork EE – Se	sockets – O es – CORBA Total H let to Applet o – storing Mu Total H ession Beans	bject Se program rs ommunic iltimedia rs – Entity E 2000 (UI 1999. (U	aming Mod cation – ap data into Beans – P NIT II) NIT II)	- RMI – IIOP dels - JAR file 9 oplet to Servlet o databases – 9 ersistent Entity 45
Remote methor implementation creation. 4 MULTI-TI Server side pro communication Multimedia stree 5 ENTERP Server Side Co Beans – Trans Total hours to t Text book (s) : 1 Elliotte Ri 2 Ed Roma 3 Hortsmar 1 and UNI Reference(s):	ad Invocation – activation m – CORBA – IDL technology IER APPLICATION DEVELO ogramming – servlets – Java – JDBC – Using BLOB aaming applications – Java M RISE APPLICATIONS omponent Architecture – Intro- actions. taught usty Harold, " Java Network I In, "Mastering Enterprise Java In & Cornell, "CORE JAVA 2 IT IV).	odels gy – N PMEN Serve and C ledia F oduction Progran a Bean ADVA	- RMI laming T r Pages LOB o ramewo n to J2E mming" s", Joh NCED	custom Servic s - App bjects ork EE – Se ', O'Rei n Wiley FEATU	sockets – O es – CORBA Total Hi let to Applet c – storing Mu Total Hi ession Beans	bject Se program rs ommunic iltimedia rs – Entity E 2000 (UI 1999. (U Pearson	aming Mod cation – ap data into Beans – P NIT II) NIT II)	- RMI – IIOP dels - JAR file 9 oplet to Servlet o databases – 9 ersistent Entity 45
Remote methor implementation creation. 4 MULTI-TI Server side pro communication Multimedia stree 5 ENTERP Server Side Co Beans – Trans Total hours to t Text book (s) : 1 Elliotte Ri 2 Ed Roma 3 Hortsmar 1 and UNI Reference(s):	ad Invocation – activation m – CORBA – IDL technology IER APPLICATION DEVELO ogramming – servlets – Java a - JDBC – Using BLOB eaming applications – Java N RISE APPLICATIONS omponent Architecture – Intro- actions. taught usty Harold, " Java Network I in, "Mastering Enterprise Java on & Cornell, "CORE JAVA 2	odels gy – N PMEN Serve and C ledia F oduction Progran a Bean ADVA	- RMI laming T r Pages LOB o ramewo n to J2E mming" s", Joh NCED	custom Servic s - App bjects ork EE – Se ', O'Rei n Wiley FEATU	sockets – O es – CORBA Total Hi let to Applet c – storing Mu Total Hi ession Beans	bject Se program rs ommunic iltimedia rs – Entity E 2000 (UI 1999. (U Pearson	aming Mod cation – ap data into Beans – P NIT II) NIT II)	- RMI – IIOP dels - JAR file 9 oplet to Servlet o databases – 9 ersistent Entity 45

	K.S.Rar	ngasamy College of Techno	ology - A	uto	nom	ous Re	gulation			R 2008
Depa	artment	Computer Science and Engineering	Prog		nme (lame	Code &	14 :		ompute Inginee	er Science and ering
			Elec	ctive	- 1					
Cou	raa Cada	Course Name		Но	ours/\	Neek	Credit		Maxim	um Marks
Cou	rse Code			L	Т	Р	С	CA	ES	Total
081	140646E	NEURAL NETWORKS ANI APPLICATIONS		3	0	0	3	50	50	100
Obj	ective(s)	To understand the basic alg and study about the applica						ic func	tions o	f neural network
1	BASIC LE	EARNING ALGORITHMS					Total H	s		8
Unsu	pervised Leptron Conv	ains of neural networks-Le earning – Learning Tasks: P ergence Theorem – -Least BASIS FUNCTION NETWOR	attern [®] S Mean Sq	pac luar	e – V e Lea	Veight arning A	Space –Per	ceptroi		
		MACHINES	=:					-		-
Learn	ning in RBF	nction Networks - Regulariz N's - Image Classification – Statistical learning theory brie	Other mo efer - Sup	odel opor	s for	valid g	eneration -			
	NEUROD	YNAMICS SYSTEMS AND A	ΔΑΡΤΙΛ							
3	RESONA	NCE THEORY					Total H			9
Dyna Neuro	RESONA mical Syste	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro	bility – I bssberg ⁻	Non The	orem	- Nois	l amical Sys se-Saturatio	tems- n Diler	mma -	nov Stability - Solving Noise
Dyna Neuro	RESONA mical Syste odynamical ration Dilem	NCE THEORY ems – Attractors and Stal	bility – I bssberg ⁻	Non The	orem	- Nois	l amical Sys se-Saturatio	tems- n Diler cks of	mma -	nov Stability - Solving Noise
Dyna Neuro Satur 4 Assoo	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork – Conte	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro ma – Recurrent On-center –	bility – I ossberg [–] Off-surrou rork Asso rror Perfo	Non Theo und ociat	orem Netw ive M ance	- Nois orks – lemory of Hop	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Networ	tems- n Diler <u>cks of</u> ssociat rks - A	nma - Adaptiv ive Me	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield
Dyna Neuro Satur 4 Assoo Netwo	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork – Conte orks – Simu	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro ma – Recurrent On-center – TOR NEURAL NETWORKS ning – Attractor Neural Network Addressable Memory – E	bility – I ossberg [–] Off-surrou rork Asso rror Perfo	Non Theo und ociat	orem Netw ive M ance	- Nois orks – lemory of Hop	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Networ	tems- n Diler cks of s ssociat rks - A Memo	nma - Adaptiv ive Me	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio	RESONA mical System odynamical ation Dilem ATTRAC ciative Lear ork – Conte orks – Simu SELF OR organizing Detitive Leations.	NCE THEORY ems – Attractors and Stat Systems – The Cohen-Gro ma – Recurrent On-center – O TOR NEURAL NETWORKS ning – Attractor Neural Netw ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector rining - Vector Quantization	oility – I ossberg Off-surrou ork Asso rror Perfo Machine	Non Theo und ociat orma e – E	orem <u>Netw</u> ive M ance Bidire – Sa	- Nois orks – lemory of Hop ctional	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Netwo Associative Total Hi Rule – G	tems- n Diler cks of ssociat rks - A Memo ss	mma - Adaptiv ive Me Applicat ory.	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield ions of Hopfield 9 earning Law - eature Maps -
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio Total	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork – Conte orks – Simu SELF OR SELF OR petitive Lea cations. hours to be	NCE THEORY ems – Attractors and Stat Systems – The Cohen-Gro ma – Recurrent On-center – O TOR NEURAL NETWORKS ning – Attractor Neural Netw ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector rining - Vector Quantization	oility – I ossberg Off-surrou ork Asso rror Perfo Machine	Non Theo und ociat orma e – E	orem <u>Netw</u> ive M ance Bidire – Sa	- Nois orks – lemory of Hop ctional	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Netwo Associative Total Hi Rule – G	tems- n Diler cks of ssociat rks - A Memo ss	mma - Adaptiv ive Me Applicat ory.	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield ions of Hopfield 9 earning Law -
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio Total	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork – Conte orks – Simu SELF OR DELIF OR DELIF DELIF OR DELIF OR DELIFICIO DELIFICIO DE	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro ma – Recurrent On-center – (TOR NEURAL NETWORKS ning – Attractor Neural Netw ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector rining - Vector Quantization	oility – I ossberg Off-surrou ork Asso rror Perfo Machine or Filterin – Mexi	Non The und ociat orma e – E	orem Netw ive M ance Bidire – Sa Hat	- Nois orks – lemory of Hop octional anger's Netwo	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Netwo Associative Total Hi Rule – Corks - Self	items- n Diler cks of ssociat rks - A Memo rs General -organ	mma - Adaptiv ive Me Applicat ry. ized L izing F	nov Stability Solving Noise ve Resonance. 9 mory – Hopfield ions of Hopfield 9 earning Law eature Maps 45
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio Total Text I	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear orks Simu SELF OR operative Lear optimized SELF book (s) book (s) Satish Kr Limited, N	NCE THEORY ems – Attractors and Stat Systems – The Cohen-Gro ma – Recurrent On-center – O TOR NEURAL NETWORKS ning – Attractor Neural Netw ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector rining - Vector Quantization	oility – I ossberg Off-surrou ork Asso rror Perfo Machine or Filterin – Mexi	Non The und ociat orma e – E	orem Netw ive M ance Bidire – Sa Hat	- Nois orks – lemory of Hop octional anger's Netwo	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Netwo Associative Total Hi Rule – Corks - Self	items- n Diler cks of ssociat rks - A Memo rs General -organ	mma - Adaptiv ive Me Applicat ry. ized L izing F	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield ions of Hopfield 9 earning Law - eature Maps - 45
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio Total Text I	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork – Conte orks – Simu SELF OR cations. hours to be book (s) : Satish Limited, N rence(s):	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro ma – Recurrent On-center – O TOR NEURAL NETWORKS ning – Attractor Neural Network ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector rining - Vector Quantization taught	bility – I bissberg Off-surrou rork Asso rror Perfo Machine Machine or Filterin – Mexi Classroo	Non The und ociat orma e – E ng ican	orem Netw ive M ance Bidire Bidire Appr	- Nois orks – lemory of Hop octional anger's Netwo	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Networ Associative Total Hi Rule – Co orks - Self	items- n Diler cks of 1 ssociat rks - A Memo rs eneral -organ aw-Hill	mma - Adaptiv ive Me Applicat iry. ized L izing F	nov Stability - Solving Noise <u>ve Resonance.</u> 9 mory – Hopfield ions of Hopfield 9 earning Law - eature Maps - 45 shing Company
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio Total Text I	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork – Conte orks – Simu SELF OR organizing – book (s) : Satish Kr Limited, N – rence(s): James James A	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro ma – Recurrent On-center – O TOR NEURAL NETWORKS ning – Attractor Neural Network ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector ring - Vector Quantization taught umar, "Neural Networks: A New Delhi 2004.	bility – I ossberg Off-surrou ork Asso rror Perfo Machine or Filterin – Mexi Classroo	Non The und ociat orma e – E ng ican	orem Netw Netw ive Mance Bidire Bidire - Sa Hat Appr "Ne gapo	- Nois rorks – lemory of Hop ectional anger's Netwo oach", oach", ural N wre) Priv	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Networ Associative Total Hi Rule – C orks - Self Tata McGr etworks Al vate Limited	tems- n Diler cks of ssociat ks - A Memo s General -organ aw-Hill gorithm	mma - Adaptiv ive Me Applicat iry. ized L izing F I Publi ns, Ap 2003.	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield ions of Hopfield 9 earning Law - eature Maps - 45 shing Company
Dyna Neuro Satur 4 Assoo Netwo 5 Self-c Comp Applio Total Text I 1 Refer	RESONA mical Syste odynamical ation Dilem ATTRAC ciative Lear ork Conte orks Simu SELF OR book Simu book (S) Satish Ki Limited, N rence(s): James Programm Simon (Singapoi	NCE THEORY ems – Attractors and Stal Systems – The Cohen-Gro ma – Recurrent On-center – O TOR NEURAL NETWORKS ning – Attractor Neural Network ent Addressable Memory – E lated Annealing – Boltzmann GANISING MAPS Map – Maximal Eigenvector ring - Vector Quantization taught umar, "Neural Networks: A New Delhi 2004.	bility – I pssberg Off-surrou ork Asso rror Perfo Machine or Filterin – Mexi Classroo I. Skapu ducation Compre	Non The und ociat orma e – E ng can om ura, (Sin ehen	orem Netw Netw Sive Mance Bidire Bidire - Sa Hat Appr "Ne gapo sive	- Nois rorks – lemory of Hop ectional anger's Netwo oach", oach", ural N re) Priv Found	amical Sys se-Saturatio Building Blo Total Hi – Linear As field Networ Associative Total Hi Rule – C orks - Self Tata McGr etworks Al vate Limited ation", 2ed.	items- n Diler cks of j ssociat ks - A Memo rs ieneral -organ aw-Hill gorithm , Delhi, , Addi	mma - Adaptiv ive Me Applicat ry. ized L izing F l Publi ns, Ap 2003. son W	nov Stability - Solving Noise ve Resonance. 9 mory – Hopfield ions of Hopfield 9 earning Law - eature Maps - 45 shing Company pplications, and esley Longmar

K.S.I	Rangasamy College of Technolo	ogy - Aut	ono	mou	s Regu	lation		F	R 2008
Department	Computer Science and	Pro	•		Code &	14 :			r Science
	Engineering			lame	•		and E	nginee	ring
		Elective	1				1		
Course Code	Course Name		Ho	ours/	Week	Credit	Ma	aximun	n Marks
Course Coue	Course Marile		L	Т	Р	С	CA	ES	Total
08140647E	KNOWLEDGE BASED DECISIO SUPPORT SYSTEMS	ON	3	0	0	3	50	50	100
Objective(s)	The course has been designed for managing knowledge and In							include	es Methods
1 INTRO	DUCTION	Ŭ				tal Hrs		9	
	Definition – Systems – Models –	Modelin	a pro	ocess	s – Deci	sion Making	: The i	ntelliae	ence phase
– The design p	hase - The choice phase – Eva - Decision makers - Case applica	aluation:							
	ION SUPPORT SYSTEM DEVEL		г		То	tal Hrs		9	
							Prototy	-	
	rt System Development: Introduc s – Development platforms – Toc								
	· Evolution of information system								
	Integrating EIS and DSS – EI								
	tation and the web – Including sol						•=,		
	LEDGE MANAGEMENT					tal Hrs		9	
	Drganizational learning and mer	norv – k	(now	leda			Develor		
	nd Tools – success –Knowledge								
	nowledge acquisition and validation								
	icking methods – Observation ar								
	based reasoning - Neural com								
	isition methods - Multiple expe								
	, documenting, and diagramming.								0
4 INTEL	IGENT SYSTEM DEVELOPMEN	IT			То	tal Hrs		9	
Inference Techn	iques: Reasoning in artificial intell	liaence –	Infe	renc	e with r	ules: The Ir	ference	e tree -	- Inference
with frames - N	lodel-based and case-based rea	isoning -	Exp	lanat	tion and	d Meta kno	wledge	– Infe	erence with
	epresenting uncertainty – Prob								
Approximate re	asoning fuzzy logic. Intelligent	Systems	Dev	velop	ment:	Prototyping	: Proje	ct Initi	alization -
System analysis	s and design – Software classi	ification:	Buil	ding	expert	systems v	vith too	ols –	Shells and
environments -	Software selection – Hardware.								
5 MANA	GEMENT SUPPORT SYSTEMS				То	tal Hrs		9	
Implementing ar	d integrating management suppo	ort system	ns –	Imple	ementat	ion: The ma	ajor issi	ues - S	Strategies –
System integrati	on – Generic models MSS, DSS,	ES – Int	tegra	ating	EIS, DS	SS and ES,	and gl	obal in	tegration -
Intelligent DSS -	 Intelligent modeling and model n 	nanagem	ent ·	– Pro	blems	and issues	in integ	ration.	Impacts of
	pport Systems – Introduction – o								
	ness process reengineering – I								dividuals –
	lity, and competitiveness – decision	on makin	g an	d the	e manag	jer manage	r's job.		
Total hours to be	e taught							45	5
Text book (s) :									
1 Efrain Turb Education,	an, Jay E.Aronson, "Decision Su 2001.	pport Sys	stem	s an	d Intelli	gent Syster	ns" 6th	Editio	n, Pearson
Reference(s):									
1 Ganesh N	atarajan, Sandhva Shekhar. "I	Knowledg	ge i	mana	agemen	t – Enabl	ing Bu	usiness	Growth".
	atarajan, Sandhya Shekhar, "I w-Hill, 2002.	Knowled	ge i	mana	agemen	t – Enabl	ing Bu	usiness	Growth",
TataMcGra					0		ing Bu	usiness	Growth",
TataMcGra 2 George M.I	w-Hill, 2002.	m", Prent	tice I	Hall,	India, 2	003.			Growth",

K.9	S.Rangasamy College of Te	chnology -	Autono	mou	s Regula	tion		R	2008
Department	Computer Science and Engineering	Programm	ne Code	e & Na	ame	14 : B.E. Co E	ompute ngine		ence and
		Electiv	ve – I						
Course Code	Course Neme		Ho	urs / \	Week	Credit	Ma	iximun	n Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140648E	FUNDAMENTALS OF IT		3	0	1	3	50	50	100
Objective(s)	To introduce the fundament basic TDBMS concepts.	•			re and s		are a	nd to	introduce
1 COMPUT	ER ARCHITECTURE AND S	YSTEM SOF	TWAR	E		Total Hrs			9
Input/output De Loaders and lir	of Computer Architecture – evices – Measure of CPU Pe ikers – Compilers and interpr	rformance – . eters.	Addres			System Soft			emblers –
	NG SYSTEMS AND COMPL tem – memory manageme					Total Hrs			9
Networks. 3 RDBMS A Introduction to concept – Nota	outer Networks – Network to ND DATABASE DESIGN DBMS – data processing – ations – Normalization – Nee	the database	e techno	ology	– data m	Total Hrs	DBMS	– ER	9 modeling
forms. 4 SQL						Total Hrs			9
	rpose of SQL – History of iews – DCL statements – Em					ypes – DD	L stat	ement	s – DML
5 OLTP CO	NCEPTS					Total Hrs			9
	se – Transaction – Transacti s – Granularity of Locking – I 1.								
Total hours to b									45
Text book (s) :								1	
1 Foundatio	n Program Books Vol-1 and	Vol-2, Infosys	S.						
Reference(s) :									
1 Andrew S.	Tanenbaum, Structured Com	puter Organia	zation,	PHI, 3	3 rd ed., 19	91.			
	z and Galvin, Operating Syst	•				-			
3 Henry F K editions, 19	forth, Abraham Silberschatz 91.	z, Database	Syster	n Co	ncept, 2	nd ed McG	raw-H	lill Inte	ernational

	K.S	Rangasamy College of Technolo	gy - Aut	ono	mou	s Regul	ation		F	R 2008
Depa	artment	Computer Science and	Pro	•		Code &	14 :			r Science
- 1 -		Engineering	-		lame			and E	nginee	ring
		t	Elective -				a "'			
Cours	se Code	Course Name				Week	Credit			n Marks
				L	Т	Р	С	CA	ES	Total
0814	0651E	C# AND .NET FRAMEWORK		3	0	0	3	50	50	100
Obje	ctive(s)	The student will gain knowledge i technologies that constitute the fra basic and advanced levels. By buil be ready for large-scale projects.	amework	and	they	y will ga	in program	ming sl	kills in	C# both in
1	INTRO	DUCTION TO C#				Tot	al Hrs		8	
		, Understanding .NET, Overview of oping, Methods, Arrays, Strings, Stru						Operat	ors, Ex	pressions,
2	OBJEC	T ORIENTED ASPECTS OF C#				Tot	al Hrs		9	
Class Excep		cts, Inheritance, Polymorphism, Inte	rfaces, C	Opera	ator (Overload	ding, Deleg	ates, E	vents,	Errors and
3	APPLIC	ATION DEVELOPMENT ON .NET				Tot	al Hrs		8	
Buildi	ng Windo	ows Applications, Accessing Data wit	th ADO.I	NET						
4	WEB B	ASED APPLICATION DEVELOPME	NT ON .	NET	-	Tot	al Hrs		8	
Progra	amming \	Neb Applications with Web Forms, F	Program	ming	We	o Service	es.			
5	THE CL	R AND THE .NET FRAMEWORK				Tot	al Hrs		12	2
Marsh	naling, Re	ersioning, Attributes, Reflection, V emoting, Understanding Server Obj g the Client, Using Single Call, Thre	ect Type							
Total	hours to	be taught							45	5
Text b	oook (s) :									
1		gurusamy, "Programming in C#", Tat					it I, II)			
2	J. Liber	ty, "Programming C#", 2nd ed., O'Re	eilly, 200	2. (L	Jnit II	I, IV, V)				
Refer	ence(s):									
1	Herbert	Schildt, "The Complete Reference:	C#", Tata	a Mo	Grav	v-Hill, 20	04.			
2	Robinso	on et al, "Professional C#", 2nd ed., V	Wrox Pre	ess,	2002					
3	Andrew	Troelsen, "C# and the .NET Platform	m", A! Pr	ess,	2003	3.				
4	Thamar	ai Selvi, R. Murugesan, "A Textbook	on C#",	Pea	arson	Educati	on, 2003.			

	K.S.	Rangasamy College of Technolog	gy - Aut	ono	mou	s Regu	lation		F	R 2008
Dopo	rtment	Computer Science and	Prog	gram	nme (Code &	14 :	B.E. Co	mpute	r Science
Бера		Engineering		N	lame			and E	nginee	ring
		E	lective -	- 11						
Course	e Code	Course Name		Но	ours/\	Week	Credit	Ma	aximun	n Marks
Cours	e Code	Course Name		L	Т	Р	С	CA	ES	Total
0814	0652E	PRINCIPLES OF PROGRAMMIN	-	3	0	0	3	50	50	100
Objec	ctive(s)	To improve the ability to develop e existing programming language.	effective	alg	orithr	n, to de	sign a new	langua	ge and	the use of
1	INTRO	DUCTION				То	tal Hrs		9	
		pgramming languages – History of p of a Computer.	orogrami	ming	j Lan	guages	– Role of I	Progran	nming l	_anguages
2	DATA 1	YPES				То	tal Hrs		9	
		lation – Translation Models – Pro types – Abstract data types.	perties	of ⁻	Гуре	s and c	objects – E	lement	ary da	ta types –
3	CONTR	OL				То	tal Hrs		9	
	and expl between	licit sequence control – sequencing	with ari	thme	etic a	ind non-	arithmetic	express	sions- s	
4		statements.								sequencing
4	SUBPR	COGRAM				То	tal Hrs		9	sequencing
•			attribut	es o	f data			data in s	Ũ	
•	sulation b	OGRAM	attribut	es o	f dat	a contro		data in s	Ũ	
Encaps	sulation b	COGRAM y subprogram – sequence control –				a contro To	I - shared o		sub pro	
Encaps 5 Proced	sulation b	COGRAM y subprogram – sequence control – RAMMING PARADIGMS guages-C, Object based Languages				a contro To	I - shared o		sub pro	grams.
Encaps 5 Proced Total h	sulation b PROGF lural Lang	COGRAM y subprogram – sequence control – RAMMING PARADIGMS guages-C, Object based Languages				a contro To	I - shared o		sub pro 9	grams.
Encaps 5 Proced Total h	PROGF PROGF lural Lang ours to be pok (s) :	COGRAM y subprogram – sequence control – RAMMING PARADIGMS guages-C, Object based Languages	-C++, F	unc	ional	a contro To Langua	tal Hrs ages - Lisp.		sub pro 9 45	grams.
Encaps 5 Proced Total h Text bo	Sulation b PROGF lural Lang ours to be pok (s) : Pratt, T Pearson nce(s):	COGRAM y subprogram – sequence control – RAMMING PARADIGMS guages-C, Object based Languages e taught .W. and Zelkowitz, M.V. Programmi n Education, New Delhi (2001).	-C++, F ng Lang	junct	ional es, E	a contro To Langua	ages - Lisp.	entatior	9 45 1, 4 th Ed	grams.
Encaps 5 Proced Total h Text bo	PROGF lural Lang ours to be ook (s) : Pratt, T Pearson nce(s): Sebesta	COGRAM y subprogram – sequence control – RAMMING PARADIGMS guages-C, Object based Languages e taught .W. and Zelkowitz, M.V. Programmi	ng Lang	junct	ional es, E Pear	a contro To I Langua Design a son Edu	ages - Lisp.	entatior w Delhi	9 45 1, 4 th Er (2001)	grams.

ĸ	.S.Ranga	samy College of Techn	ology -	Auto	nom	ous Re	egula	tion			R 2008
Departm	nent C	omputer Science and Engineering	Progra	mme	e Cod	e & Na	me	14		Compu Engine	ter Science and eering
			Е	lectiv	e – II						
0) a da	Osuma Nama		Ho	ours/V	Veek	Cre	edit		Maxi	mum Marks
Course C	,ode	Course Name		L	Т	Р	(С	CA	ES	Total
0814065	AR	VANCED COMPUTER CHITECTURE		3	0	0		3	50	50	100
Objectiv	e(s) ins	expose the students th truction level in a comp allelism in multi processo	outer sys								
1 F	UNDAME	NTALS OF COMPUTER	DESIGN	١		To	tal Hr	S			12
principles signal pro	s and exa	uring and reporting perform mples- classifying instru ype and size of operands	ctions- s s.			ctures-	memo	ory ad			ressing modes for
		ION LEVEL PARALLELI		-	ا- مانان		tal Hr			manler	12
costs wit multiple i	h dynamio ssues-limi	llenges – overcoming da c hardware prediction- h tations of ILP.	igh perfo								ntages of ILP with
		OFTWARE APPROACH					tal Hr	-			12
Advance architectu	d compile ure.	hniques for exposing IL r support for exposing a				Hardwa	are su	ipport-			issues- Intel IA64
	-	HERARCHY DESIGN				-	tal Hr	-			12
via paral technolog	llelism –re gy- virtual		memor	y an							
⁵ P	ARALLEL						tal Hr				12
Distribute reliability Introduct	ed shared -availabilit ion to que	I memory architectures memory architectures-sy y and dependability- RA uing theory.	ynchroni	zatio	n- sto	orage s	ystem	ns – ty	pes of	storag	je devices- buses-
Total hou	irs to be ta	aught									60
Text boo	k (s) :										
' K	aufmann,	nnessey and David A. Pa 2006.	atterson,	" Cor	npute	er Archi	itectu	re: A (Quantita	ative A	pproach", Morgan
	. ,										
			I ((A.I	-		nutor	Archit	tooture	s AD	esian	Snace Annroach"
' A	ddison We	Fountain and P. Kacsu esley, 2000. "Advanced Computer Ar				-				oolgii	

	K.S	Rangasamy College of Technolog	y - Auto	non	nous	Regula	ation		R	2008
Den	artment	Computer Science and	Prog	gram	nme	Code &	14 : E			Science
Dep	anneni	Engineering		Ν	lame			and En	gineer	ing
		Ele	ctive – II							
Cour	se Code	Course Name		Но	ours/	Week	Credit	Max	ximum	Marks
Cours	se code	Course Name		L	Т	Р	С	CA	ES	Total
0814	40654E	NETWORK PROGRAMMING		3	0	0	3	50	50	100
Obje	ective(s)	To learn the basics of socket progr sockets and to develop a knowled applications.								
1	ELEMEN	NTARY TCP SOCKETS				То	tal Hrs		9	
functio	ons – add	Socket Programming –Introduction t ress conversion functions – Element e functions – Iterative Server – Concu	tary TCF	Sc	ocket					
2	TCP Clie	ent-Server Example				То	tal Hrs		9	
	SOCKE ⁻	T OPTIONS – getsocket and setsocket functions –				ptions -				IP socket
		ocket options. Sockets for clients-soc	kets for	serv	ers-s			Iticast s	ockets	
_4									-	
	entary UD	NTARY UDP SOCKETS					tal Hrs		9	
Doma	ain name	P sockets – UDP echo Server – U system – gethostbyname function and getservbyport functions.				– Multip	plexing TC		JDP s	ockets –
Doma	ain name rvbyname	P sockets – UDP echo Server – U system – gethostbyname function				– Multip rt in D	plexing TC		JDP s	ockets –
Doma getser 5 IPv4 (Optior	ain name rvbyname ADVANC Client, IPv	P sockets – UDP echo Server – U system – gethostbyname function and getservbyport functions.	n – Ipve	6 s	uppo s Tes	– Multip rt in E To sting Ma	blexing TC DNS – ge tal Hrs acros- IPv6	thostby:	UDP s adr fu 9 RFORI	ockets – nction – M Socket
Doma getser 5 IPv4 (Optior Trans	ain name rvbyname ADVANC Client, IPv n- Socket	P sockets – UDP echo Server – U system – gethostbyname function and getservbyport functions. CED SOCKETS 6 Server- IPv6 Client, IPv4 Server- I Timeouts, recy and send Function- r	n – Ipve	6 s	uppo s Tes	– Multip rt in E To sting Ma	blexing TC DNS – ge tal Hrs acros- IPv6	thostby:	UDP s adr fu 9 RFORI	ockets – nction – M Socket
Doma getser 5 IPv4 (Optior Transa Total I	ain name rvbyname ADVAN(Client, IPv n- Socket sactions.	P sockets – UDP echo Server – U system – gethostbyname function and getservbyport functions. CED SOCKETS 6 Server- IPv6 Client, IPv4 Server- I Timeouts, recy and send Function- r	n – Ipve	6 s	uppo s Tes	– Multip rt in E To sting Ma	blexing TC DNS – ge tal Hrs acros- IPv6	thostby:	UDP s adr fu 9 RFORI T/TCP	ockets – nction – M Socket
Doma getser 5 IPv4 (Optior Transa Total I	Ain name rvbyname ADVANC Client, IPv n- Socket actions. hours to b book (s) : W. Rich	P sockets – UDP echo Server – U system – gethostbyname function and getservbyport functions. CED SOCKETS 6 Server- IPv6 Client, IPv4 Server- I Timeouts, recy and send Function- r	n – Ipvé Pv6 Add eady and	6 s Ires: d w	uppo s Tes ritev	– Multip rt in E To Sting Ma Functio	tal Hrs acros- IPv6 ns-Ancillar	thostby: ADDF y Data- [_]	UDP s adr fu 9 RFORI T/TCP 45	nction – M Socket TCP for
Doma <u>getser</u> 5 IPv4 (Optior Transa Total I Text b	Ain name rvbyname ADVANC Client, IPv n- Socket actions. hours to b book (s) : W. Rich	P sockets – UDP echo Server – U system – gethostbyname function and getservbyport functions. CED SOCKETS 6 Server- IPv6 Client, IPv4 Server- I Timeouts, recy and send Function- r e taught hard Stevens, "UNIX NETWORK P	n – Ipvé Pv6 Add eady and	6 s Ires: d w	uppo s Tes ritev	– Multip rt in E To Sting Ma Functio	tal Hrs acros- IPv6 ns-Ancillar	thostby: ADDF y Data- [_]	UDP s adr fu 9 RFORI T/TCP 45	nction – M Socket TCP for

	K.S.R	angasamy College of Techn	ology - Aı	utonom	ous Re	gulatio	on		R 200	8
De	epartment	Computer Science and Engineering	Program	me Cod	e & Na	ime	14 : B.E.	Comput Engine		ce and
			Electiv	ve – II						
Co	urse Code	Course Name		Ho	urs/ We	eek	Credit	Ma	ximum M	arks
00				L	Т	Р	С	CA	ES	Total
08	140655E	HARDWARE TROUBLESHO		3	0	0	3	50	50	100
Ob	jective(s)	This subject gives the knowle for systematic repair and ma	intenance of							shooting
1	CONCEP					Total H	-		9	
mai tecł	ntenance p	servicing and maintenance of olicy, potential problems previncept of shielding grounding a herals.	entive mai	intenand	ce and	correc	ctive mai	ntenance	e. Circuit	tracing
2	FUNDAM	ENTAL TROUBLE SHOOTING	PROCED	URES		Total H	lrs		9	
Fau	It location,	Fault finding aids Service, Mar	uals Test a	and mea	asuring	instrun	nents, Sp	ecial too	ols.	
3	HARDWA	RE AND SOFTWARE FAULTS	S			Total H	lrs		9	
	it half metho	ng techniques. Different troub od,- Divergent, convergent and	feedback							proach,
4	COMPON	E SHOOTING OF COMPUTER ENT AND PERIPHERALS				Total H			9	
Mot		FDD, HDD, CD ROM / DBD, F		odems, l	1					
5		_ TESTING SPECIFICATIONS				Total H	-		9	
and	peripheral	Maintenance and Repair of C s, Sight preparation and desi ems and peripherals.								
Tota	al hours to b	be taught							45	
Tex	t book (s) :							•		
1	Trouble sh	nooting computer system by Re	obert C Be	nner						
Ref	erence(s):									
1	Electronic	test equipment by RS Khandp	our							
2	IBM PC a	nd Clones Govinda Rajalu								
3	Computer	Maintenance and Repair - Sc	holi Muller							
4	Upgrading	your PC by Mark Minersi								

	K.S.Rang	asamy College of Technolo	gy ·	- Aut	ono	mous F	Regulat	ion			R 2008
Den	artment	Computer Science and		Prog		ne Cod	e &	1	4 : B.E		er Science and
Вер	artment	Engineering				ame				Enginee	ering
				Elect	ive -	- 11					
Cour	se Code	Course Name		Ho	ours/	Week	Crec	dit		Maximu	m Marks
Cours	se coue	Course Maine		L	Т	Р	С		CA	ES	Total
0814	40656E	USER INTERFACE DESIG	N	3	0	0	3		50	50	100
Obje	ective(s)	To study the concept of characteristics and compo problems in windows design	nen	ts o	f wir	ndows,	various	s co	ntrols f	or the w	
1	HUMAN C	OMPUTER INTERFACE					Tot	al Hr	s		9
		rtance-Human-Computer int - web user interface-populari							cs inte	rface-Dire	ect manipulation
2	USER INT	ERFACE DESIGN PROCES	S				Tot	al Hr	S		9
busine system	ess function n timings-He	sign process- obstacles-usab s-requirement analysis-Direction uman consideration in screer	ct-In n de	dire	ct me		basic b	ousin	ess fur		sign standards-
-		G OF MENUS AND WINDO	-					al Hr	-		9
menu types-r	choice-nav	s of menus - functions of me igating menus-graphical me nts-organizations - systems.									
		G OF CONTROLS					Tot	al Hr	S		9
		ntrols: characteristics-selecti									
· · ·		ext boxes-selection control-c	omt	oinati	on c	ontrol-c				entation c	ontrol.
-		G OF WEB PAGES		0 -				al Hr	-		9
		es - effective feedback-guida ng. Windows layout-test: pro							ation-a	CCESSSIDII	ity-Icons-Image-
Total h	nours to be	taught									45
Text bo	ook (s) :										
		Galitz, "The Essential Guide	to l	Jser	Inter	face De	esign", .	John	Wiley8	Sons, 20	01.
	ence(s):										
-		erman, "Design the User Inte		-				1998	3.		
2	Jacob Niel	sen, "Usability Engineering ",	Aca	aden	nic P	ress, 19	993.				
3	Alan Coop	er, "The Essential of User Int	erfa	ce D	esigi	n", Wile	y – Dre	am	Tech Lt	d., 2002.	

	K.S.Ra	ngasamy College of Techn	ology	/ - Al	utono	mous F	Regulati	on		R 2008
Dep	artment	Computer Science and Engineering	Pro	gram	ime C	Code & N	lame	14 : B.E.	Compu Engine	iter Science and eering
				Elec	tive –	·				
0		Ocurre a Name		Н	ours/\	Week	Cred	lit	Maxim	num Marks
Cour	se Code	Course Name		L	Т	Р	С	CA	ES	Total
081	40657E	ADVANCED DATABASES		3	0	0	3	50	50	100
Obje	ective(s)	To understand about difference get familiarized with transact about web and intelligent date	ction n	nana						
1	DATABAS	SE MANAGEMENT				То	tal Hrs			9
		a Models- SQL- Databas L- Dynamic SQL.	e De:	sign-	Ent	ity-Relat	ionship	Model- R	elationa	al Normalization-
2	QUERY A	ND TRANSACTION PROCE	SSIN	G		То	tal Hrs			9
		ing Basics- Heuristic Optimiz					ation- N	Iodels of Ti	ansact	ion- Architecture-
		ocessing in a Centralized and NTING AND ISOLATION	d Distr	ibute	d Sys		tal Hrs			
-		ncurrency Control- Objects a	and Se	man	tic Co			cking- Cras	h Dist	ributed Deadlock-
		ation- Replicated Databases-							n, Diot	
		ORIENTED DATABASES				-	tal Hrs			9
	BMS- Ad	d Databases-Introduction- C vantages and Disadvantag								
5	CURREN	T TRENDS				То	tal Hrs			9
		Data- XML Schema- Distrib llel Database.	uted [Datal	bases	- Data I	Mining a	and Data W	arehou	sing - Multimedia
Total	hours to b	be taught								45
Text	book (s) :									
	Abraham mcgraw h	Silberschatz, henry.f. korth, \$ ill, 2004.	S,Sudl	harsa	an, Da	atabase	System	Concepts,	4 th Edit	ion., Tata
Refe	rence(s):									
	Oriented /	ewis, Arthur berntein, Michae Approach", Addison-Wesley,	2002.						•	
2	R. Elmasr	i and S.B. Navathe, Fundam	entals	of D	ataba	ase Syst	ems, 3 rd	Edition, Ad	dison V	Vesley, 2004.
3	C.S.R.Pra	abhu, "Object Oriented Datab	ase S	yster	ns", F	PHI, 200	3.			

	K.S.Ra	ngasamy College of Techn	ology A	uton	omo	ous Reg	gulat	ion			R 2008
Depa	artment	Computer Science and Engineering	, in the second se			& Nam	e	14 :		ompute	er Science and ering
		1	Elec				-				
Cour	rse Code	Course Name		Ho	urs/V	Veek	Cre	edit			um Marks
Coul				L	Т	Р		С	CA	ES	Total
081	40761E	EMBEDDED SYSTEMS		3	0	0		3	50	50	100
Obje	ective(s)	Introduce students to the e and buses used for ember programming in C and C++	dded ne [:] , explain	tworl	king,	explair	n pro	gramm	ing cor	ncepts	and embedde
1	INTRODU	JCTION TO EMBEDDED SY	STEMS			Тс	otal ⊦	lrs			9
embe	dded into t	assification – Overview of Pr he system – Exemplary Emb gned circuits.									
2	DEVICES	AND BUSES FOR DEVICE	S NETW	'ORł	<	Тс	otal ⊦	lrs			9
Comn - Para	nunications allel Port D 'USB', 'CA	Device I/O Types and Exa from Serial Devices - Exam pevices - Sophisticated inter N' and advanced I/O Serial h ED PROGRAMMING	ples of Ir facing fe	ntern eatur	ial Se es in	erial-Co Devic ISA, P	ommu es/Po	unicatio orts- Ti PCI-X, C	n Devio mer ar	ces - L nd Cou	IART and HDL Inting Devices
functio	ons -Use of	assembly language (ALP) f Pointers - NULL Pointers -	Use of F	unct	ion C	Calls – İ	Multi	ole fund	ction ca	alls in a	a Cyclic Order
function the M EMBE	ons -Use of ain Functio EDDED PR ogram com		Use of F es and Ir	unct nterri	ion C upt S	Calls – İ Service rogrami	Multi Rout	ole fund ines Qu – Emb	ction ca ueues F	alls in a Pointer	a Cyclic Order s – Concepts
function the M EMBE 'C' Pro- 4 Clock system	ons -Use of ain Functio EDDED PR ogram com REAL-TIM driven Ap ms, effectivenges in val	f Pointers - NULL Pointers - n Pointers – Function Queue OGRAMMING in C++ - Obj pilers – Cross compiler. ME CHARACTERISTICS proach, weighted round rol /e release times and dead idating timing constraints in p	Use of F es and Ir ected Or bin Appr lines, O	iunct nterro iente oach otima	ion C upt S ed Pr n, Pri ality	Calls – I bervice rogrami To iority d of the	Multi Rout ming otal F riven	ole fund ines Qu – Emb Irs Appro	ction ca Jeues F Dedded	alls in a Pointer Progra	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat
function the M EMBE 'C' Pro- 4 Clock system	ons -Use of ain Functio EDDED PR ogram com REAL-TIM driven Ap ms, effectivenges in val	f Pointers - NULL Pointers - n Pointers – Function Queue OGRAMMING in C++ - Obj pilers – Cross compiler. ME CHARACTERISTICS proach, weighted round rol /e release times and dead	Use of F es and Ir ected Or bin Appr lines, O	iunct nterro iente oach otima	ion C upt S ed Pr n, Pri ality	Calls – I bervice rogrami To iority d of the ems.	Multi Rout ming otal F riven	ole fund ines Qu – Emb Irs Appro iest de	ction ca Jeues F Dedded	alls in a Pointer Progra	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat
function the M EMBE 'C' Pro- 4 Clock system challe 5 Desig Assur Softwa	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effectiv nges in val SYSTEM n Methodo ance, Desi are Design	f Pointers - NULL Pointers - n Pointers - Function Queue OGRAMMING in C++ - Obj pilers - Cross compiler. ME CHARACTERISTICS proach, weighted round rol ve release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants,	Use of F es and Ir ected Or bin Appr lines, Op priority dr s, Specifi 3X- Syst	oach oach otima iven catic	ion C upt S ed Pr n, Pri ality syste on, S Arch	Calls – I forvice rogrami iority d of the ems. To ystem /	Multi Rout ming tal F riven Earl tal F	ole fund ines Qu – Emb Irs Appro iest de Irs	tion ca Jeues F Dedded Dach, D adline	Ills in a Pointer Progra Dynami first (I ecture	a Cyclic Order s – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali
function the M EMBE 'C' Pro- 4 Clock system challe 5 Desig Assur Softwa	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effectiv nges in val SYSTEM n Methodo ance, Desi	f Pointers - NULL Pointers - n Pointers - Function Queue OGRAMMING in C++ - Obj pilers - Cross compiler. ME CHARACTERISTICS proach, weighted round rol ve release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants,	Use of F es and Ir ected Or bin Appr lines, Op priority dr s, Specifi 3X- Syst	oach oach otima iven catic	ion C upt S ed Pr n, Pri ality syste on, S Arch	Calls – I forvice rogrami iority d of the ems. To ystem /	Multi Rout ming tal F riven Earl tal F	ole fund ines Qu – Emb Irs Appro iest de Irs	tion ca Jeues F Dedded Dach, D adline	Ills in a Pointer Progra Dynami first (I ecture	a Cyclic Order s – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali
function the M EMBE 'C' Pro- 4 Clock system challe 5 Desig Assur Softwa Total	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effectiv nges in val SYSTEM n Methodo ance, Desi are Design	f Pointers - NULL Pointers - n Pointers - Function Queue OGRAMMING in C++ - Obj pilers - Cross compiler. ME CHARACTERISTICS proach, weighted round rol ve release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants,	Use of F es and Ir ected Or bin Appr lines, Op priority dr s, Specifi 3X- Syst	oach oach otima iven catic	ion C upt S ed Pr n, Pri ality syste on, S Arch	Calls – I forvice rogrami iority d of the ems. To ystem /	Multi Rout ming tal F riven Earl tal F	ole fund ines Qu – Emb Irs Appro iest de Irs	tion ca Jeues F Dedded Dach, D adline	Ills in a Pointer Progra Dynami first (I ecture	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali are Design ar
function the M EMBE 'C' Pro- 4 Clock system challe 5 Desig Assur Softwa Total	ons -Use of ain Functio DDED PR ogram com REAL-TIN driven Ap ms, effectiv nges in val SYSTEM SYSTEM n Methodol ance, Desi are Design hours to be pook (s) :	f Pointers - NULL Pointers - n Pointers - Function Queue OGRAMMING in C++ - Obj pilers - Cross compiler. ME CHARACTERISTICS proach, weighted round rol ve release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants,	Use of F es and Ir ected Or bin Appr lines, O priority dr s, Specifi 3X- Syst Set-top	iunct interru iente oach ptima iven catic tem Boxe	ion C upt S ed Pr n, Pr ality systr on, S Arch es.	Calls – I cervice rogrami iority d of the ems. Constant ystem / itecture	Multi Rout ning tal F riven Earl tal F Analy a, Inf	ole fund ines Qu – Emb Irs Appro iest de Irs vsis and c jet pr	tion ca Jeues F bedded ach, D adline J Archit rinter- I	alls in a Pointer Progra Pynami first (l recture Hardwa	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali are Design ar 45
function the M EMBE 'C' Pro- 4 Clock syster challe 5 Desig Assur Softwa Total Text b 1.	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effectiv nges in val SYSTEM N Methodol ance, Desi are Design hours to be pook (s) : Rajkamal	f Pointers - NULL Pointers - n Pointers – Function Queue OGRAMMING in C++ - Obj pilers – Cross compiler. ME CHARACTERISTICS proach, weighted round rol /e release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants, taught	Use of F es and Ir ected Or bin Appr lines, O priority dr s, Specifi 3X- Syst Set-top	iunct interru iente oach ptima iven catic tem Boxe	ion C upt S ed Pr n, Pr ality systr on, S Arch es.	Calls – I cervice rogrami iority d of the ems. Constant ystem / itecture	Multi Rout ning tal F riven Earl tal F Analy a, Inf	ole fund ines Qu – Emb Irs Appro iest de Irs vsis and c jet pr	tion ca Jeues F bedded ach, D adline J Archit rinter- I	alls in a Pointer Progra Pynami first (l recture Hardwa	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali are Design ar 45
function the M EMBE 'C' Pro- 4 Clock syster challe 5 Desig Assur Softwa Total Text b 1.	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effective nges in val SYSTEM n Methodo rance, Desi are Design hours to be pook (s) : Rajkamal 2003. ence(s):	f Pointers - NULL Pointers - n Pointers – Function Queue OGRAMMING in C++ - Obj pilers – Cross compiler. ME CHARACTERISTICS proach, weighted round rol /e release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants, taught	Use of F es and Ir ected Or bin Appr lines, Op priority dr s, Specifi 3X- Syst Set-top ecture, P	oach oach otima iven catic em Boxe	ion C upt S ed Pr n, Pr ality systr on, S Arch es.	Calls – I cervice rogrami iority d of the ems. Tc ystem / itecture	Multi Rout ming otal H riven Earl otal H Analy , Inh	ole fund ines Qu – Emb Irs Appro iest de Irs vsis and c jet pr	tion ca Jeues F bedded ach, D adline J Archit rinter- I	alls in a Pointer Progra Pynami first (l recture Hardwa	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali are Design ar 45
function the M EMBE 'C' Pro- 4 Clock syster challe 5 Desig Assur Softwa Total Text b 1. Referen	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effectiv nges in val SYSTEM n Methodo ance, Desi are Design hours to be book (s) : Rajkamal 2003. ence(s): Jane.W.S	f Pointers - NULL Pointers - n Pointers – Function Queue OGRAMMING in C++ - Obj pilers – Cross compiler. ME CHARACTERISTICS proach, weighted round rol ve release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants, taught	Use of F es and Ir ected Or bin Appr lines, Op priority dr s, Specifi 3X- Syst Set-top ecture, P	oach oach ptima catic tem Boxe	ion C upt S ed Pr n, Pr ality systr on, S Arch es. amm	Calls – I cogrami rogrami rogrami iority d of the ems. Tc ystem / itecture ing and	Multij Rout ming otal H riven Earl otal H Analy a, Inh	ole func ines Qu – Emb Irs Appro iest de Irs rsis and c jet pr	tion ca Jeues F bedded ach, D adline J Archit rinter- I	alls in a Pointer Progra Pynami first (l recture Hardwa	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali are Design ar 45
function the M EMBE 'C' Pro- 4 Clock system challe 5 Desig Assur Softwa Total Text b 1. Reference 1	ons -Use of ain Functio DDED PR ogram com REAL-TIM driven Ap ms, effectiv enges in val SYSTEM N Methodol rance, Desi are Design hours to be pook (s) : Rajkamal 2003. ence(s): Jane.W.S C. M. Kris	f Pointers - NULL Pointers - n Pointers - Function Queue OGRAMMING in C++ - Obj pilers - Cross compiler. ME CHARACTERISTICS proach, weighted round rol /e release times and dead idating timing constraints in p DESIGN TECHNIQUES logies, Requirement Analysis ign Example: Telephone PE , Personal Digital Assistants, taught , Embedded Systems Archite	Use of F es and Ir ected Or bin Appr lines, O priority dr s, Specifi 3X- Syst Set-top ecture, P earson Ec ime Syst	unct interne iente oach ptima catic tem Boxe 'rogr duca ems	tion C upt S ed Pr n, Pr ality system on, S Arch es.	Calls – I cervice rogrami iority d of the ems. Croining and Asia, 20 Graw-H	Multij Routi ming otal H Earl otal H Analy a, Inh d Des	ole func ines Qu – Emb Irs Appro iest de Irs vsis anc c jet pr	ach, D adline ATA Mo	ecture Paradwa Programi first (l Programi first (l Programi Contention Contention Programi Programi Programi Programi Programi Programi first (l Programi first (l Programi fi	a Cyclic Order rs – Concepts amming in C+ 9 c Versus Stat EDF) algorithr 9 Design, Quali are Design ar 45 Hill, First repri

	K.S.	Rangasamy College of Technolog	gy Auto	nom	ous	Regula	tion			R	2008
Dep	artment	Computer Science and Engineering	0		code	& Nam	е		.E. Cor and En		Science
		Ele	ective – II								
Cou	rse Code	Course Name		Ho		Veek	Crea				Marks
Cou		Course Marile		L	Т	Р		0	CA	ES	Total
081	40762E	SOFTWARE QUALITY MANAGE		3	0	0		3	50	50	100
	ective(s)	Software quality models. Quality and documentation, Quality tools quality process, Quality manager Satisfaction, International quality s	s includii ment sys	ng (stem	CASE	E tools, dels, C	Qual	ity co	ntrol a	nd reli	iability of
1	INTRODUC	CTION TO SOFTWARE QUALITY				То	tal Hr	S		9	
and a	nalysis – Ġi	 Hierarchical models of Boehm an ilb's approach – GQM Model 	nd McCa	all —	Qual	-			Metric	s mea	surement
		E QUALITY ASSURANCE					tal Hr			9	
	•	QA plan – Teams – Characteristics	 Implen 	nent	ation	– Docu	imenta	ation	– Revi	ews ai	nd Audits
_		CONTROL AND RELIABILITY				-	tal Hr	-		9	
Rayle	igh model -	 Ishikawa's basic tools – CASE to Reliability growth models for qualit 							– Reli	ability	models –
4	QUALITY N	MANAGEMENT SYSTEM				То	tal Hr	S		9	
		S – Rayleigh model framework – Re ner satisfaction analysis.	eliability (Grov	vth m				Complex	kity me	etrics and
		STANDARDS					tal Hr			9	
		ds – ISO 9000 Series – ISO 9000-3	B for soft	ware	e dev	elopme	nt – C	CMM a	and CM	MI – S	Six Sigma
Conce Total	pts. hours to be	taught								45	
	book (s) :										
1	Allan C. Gil : Ch 7-8)	llies, "Software Quality: Theory and	Ŭ					0			
2	Pte Ltd., 20	. Kan, "Metrics and Models in Softv)02. (UI : Ch 3-4; UIII : Ch 5-8 ; UIV	vare Qua : Ch 9-1	ality ⊧1)	Engi	neering	", Pea	arson	Educat	ion (Si	ngapore)
	ence(s):										
		Fenton and Shari Lawrence Pfleege									
_		Ben – Menachem and Garry S.Marl				-					
	Mary Beth 2003.	Chrissis, Mike Konrad and Sandy	Shrum,	"CM	IMI",	Pearso	n Edu	ucation	n (Sing	apore)	Pte Ltd,
4	ISO 9000-3	³ "Notes for the application of the IS	O 9001 S	Stan	dard	to softw	/are d	evelop	oment".		

Departme	K.S.I	Rangasamy College of Tech	nology /	Auton	omo	us Reg	ulation			R 2008
Departitie	nt	Computer Science and Engineering	Prog	am co	ode &	Name	14 :		puter S gineerin	Science and g
			Elec	tive –	III					-
Course C				Ho	urs/W	/eek	Credit	M	aximum	n Marks
Course Co	Jae	Course Name		L	Т	Р	С	CA	ES	Total
0814076	3E	ADVANCED OPERATING SYSTEMS		3	0	0	3	50	50	100
Objective	(s)	Get a comprehensive know the deadlock and shared m know the security issues an knowledge of multiprocesso	nemory is nd protect	ssues ction n	and necha	their sc anisms	lutions in for distrib	distribute uted envi	ed envir ronmer	onments. To
1 AR	CHIT	ECTURES OF DISTRIBUTED	O SYSTE	MS		Tot	al Hrs		9	
		ecture types - issues in primitives. Theoretical Founda								networks -
2 DIS	TRIE	BUTED DEADLOCK DETECT	ION			Tot	al Hrs		9	
 – control or algorithms a classification 	orgar –hiei ition o	eadlock handling strategies in nizations for distributed dead rarchical deadlock detection a of agreement problems - Appl	llock det algorithm	ection s. Agr	– c reeme	entraliz ent prot	ed and d ocols – in	istributed	deadlo n-the sy	ock detection
3 DIS	TRIE	BUTED SHARED MEMORY				Tot	al Hrs		9	
Distributed – stability -	Sche load	Igorithms for implementing eduling – introduction – issue d distributing algorithm – perfo	s in load ormance	distrib	outing	j – com	ponents c	of a load o	distribut	ing algorithm
		for load distributing -task migr	ation.	•	01130	11 300	soung a s			ing algorithm
		CTION AND SECURITY				Tot	al Hrs		9	
The acces security –	s mat crypt		tions-saf	ety in	matri	Tot x mode	al Hrs I- advance	ed model	9 s of pro	otection. Data
The access security – cryptograp 5 MU	s mai crypt hy - p LTIP	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp oublic key cryptography. ROCESSOR OPERATING S	tions-saf hy, conv YSTEM	ety in rentior	matri nal cr	Tot x mode yptogra Tot	al Hrs I- advanci phy- mod al Hrs	ed model ern crypto	9 s of pro ography 9	otection. Data y, private key
The access security – cryptograp 5 MU Multiproces multiproces multiproces	s mat crypt hy - p LTIP ssor ssor ssor	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp public key cryptography.	tions-saf hy, conv YSTEM Iltiproces ube archi	ety in rentior	matri nal cr /stem e. Mu	Tot x mode yptogra Tot a archite	al Hrs I- advance phy- mod al Hrs ectures – essor Ope	ed model ern crypto inter coni	9 s of pro ography 9 nection rstem -	networks for structures of
The access security – cryptograp 5 MU Multiproces multiproces	s mat crypt hy - p LTIP ssor ssor ssor	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp public key cryptography. ROCESSOR OPERATING S operating systems - basic mu systems - caching - hypercu operating system, operating	tions-saf hy, conv YSTEM Iltiproces ube archi	ety in rentior	matri nal cr /stem e. Mu	Tot x mode yptogra Tot a archite	al Hrs I- advance phy- mod al Hrs ectures – essor Ope	ed model ern crypto inter coni	9 s of pro ography 9 nection rstem -	networks for structures of nization and
The access security – cryptograp 5 MU Multiproces multiproces multiproces scheduling	s mat crypt hy - p LTIP ssor ssor ssor ssor	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp public key cryptography. ROCESSOR OPERATING S operating systems - basic mu systems - caching - hypercu operating system, operating	tions-saf hy, conv YSTEM Iltiproces ube archi	ety in rentior	matri nal cr /stem e. Mu	Tot x mode yptogra Tot a archite	al Hrs I- advance phy- mod al Hrs ectures – essor Ope	ed model ern crypto inter coni	9 s of pro ography 9 nection rstem - synchro	networks for structures of nization and
The access security – cryptograp 5 MU Multiproces multiproces scheduling Total hours Text book 1. Mu	s mat crypte hy - p LTIP ssor ssor sto b (s) : kesh	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp public key cryptography. ROCESSOR OPERATING S operating systems - basic mu systems - caching - hypercu operating system, operating	tions-saf hy, conv YSTEM ultiproces ube archi system ratri, "A	ety in rentior ssor sy tectur desig	matri nal cr /stem e. Mu gn is ed c	Tot x mode yptogra Tot a archite sues- sues-	al Hrs el- advanco phy- mod al Hrs ectures – essor Ope threads- p	ed model ern crypto inter coni erating Sy process	9 s of pro ography 9 nection stem - synchro 45	networks for structures of nization and
The access security – cryptograp 5 MU Multiproces multiproces scheduling Total hours Text book 1. Mu	s mat crypte hy - p LTIP ssor ssor ssor sto b (s) : kesh abas	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp bublic key cryptography. ROCESSOR OPERATING S operating systems - basic mu systems - caching - hypercu operating system, operating e taught Singhal, Niranjan G.Shiva	tions-saf hy, conv YSTEM ultiproces ube archi system ratri, "A	ety in rentior ssor sy tectur desig	matri nal cr /stem e. Mu gn is ed c	Tot x mode yptogra Tot a archite sues- sues-	al Hrs el- advanco phy- mod al Hrs ectures – essor Ope threads- p	ed model ern crypto inter coni erating Sy process	9 s of pro ography 9 nection stem - synchro 45	networks for structures of nization and
The access security – cryptograp 5 MU Multiproces multiproces scheduling Total hours Text book 1. Mu Dat Reference	s mat crypt(hy - p LTIP ssor ssor sto b (s) : kesh abas (s):	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp bublic key cryptography. ROCESSOR OPERATING S operating systems - basic mu systems - caching - hypercu operating system, operating e taught Singhal, Niranjan G.Shiva	tions-saf hy, conv YSTEM Iltiproces ube archi ube archi system ratri, "A ng systen	ety in rentior ssor sy tectur desig	matri nal cr /stem e. Mu gn is ed c MH, 2	Tot x mode yptogra Tot a archite sues- sues- concept 2001	al Hrs el- advanco phy- mod al Hrs ectures – essor Ope threads- p	ed model ern crypto inter coni erating Sy process	9 s of pro ography 9 nection stem - synchro 45	networks for structures of nization and
The access security – cryptograp 5 MU Multiproces multiproces scheduling Total hours Text book 1. Mu Dat References	s mat crypt hy - p LTIP ssor ssor sto b (s) : kesh abas (s): drew	CTION AND SECURITY trix model and its implementa ography: Model of cryptograp public key cryptography. ROCESSOR OPERATING S' operating systems - basic mu systems - caching - hypercu operating system, operating e taught Singhal, Niranjan G.Shiva e and multiprocessor operatin	tions-saf hy, conv YSTEM ultiproces ube archi i system ratri, "A ng systen ating sys	ety in rentior ssor sy tectur desig dvanc ns", Th tem",	matri nal cr /stem e. Mu ggn is ed c MH, 2	Tot x mode yptogra Tot a archite ultiproce sues- sues- concept 2001	al Hrs el- advanc phy- mod al Hrs ectures – essor Ope threads- p s in ope	ed model ern crypto inter com grating Sy process s	9 s of pro ography 9 nection stem - synchro 45	networks for structures of nization and

K.S.	Rangasamy College of Tec	hnology	/ Autor	nomo	us Reg	ulation			R 2	2008
Department	Computer Science and Engineering	Ű	ram co		Name	14 : 1		mpute nginee		ence and
		E	Elective	e – III						
Course Code	Course Name		Ho	urs/W	eek	Credit		Maxin	num I	Marks
Course Code			L	Т	Р	С	CA	ES	3	Total
08140764E	REAL TIME SYSTEMS		3	0	0	3	50	50)	100
Objective(s)	To know about the sp understand about real t queuing models and Real	ime tasl	k comr	munica	ation a	nd synchr	onizati	on, va		
1 BASI	C REAL TIME CONCEPTS					T	otal Hrs	6		9
and output -	er architecture – some term other devices – language fea	atures.			C		•		e syst	tems – input
	_ TIME SPECIFICATION AN uages – mathematical spe						otal Hrs			9
systems – for 3 INTE Buffering dat	ate charts – polled loop sys eground/background system RTASK COMMUNICATION a – mailboxes – critical re	<u>i – full fe</u> AND SY gions –	atured NCHR sema	real ti ONIZ/ phores	me ope ATION s – de	erating syst	tems otal Hrs process	s s stacl	< mai	9 nagement –
measuremen	cation – static schemes – r t – scheduling is NP comple – reducing memory loading	te – redi	ucing re	espon						
4 QUE	UING MODELS					T	otal Hrs	6		9
formula - fau	nctions – discrete- basic bu Its, failures, bugs and effects /stems – Non Von Neuman a	s – reliat	oility-te							
5 HAR	DWARE/SOFTWARE INTEG	RATION	١			Тс	otal Hrs	6		9
Goals of real time applicati	time system integration – t	ools - m	nethodo	ology ·	-softwa	re Heinsbe	erg und	ertaint	y prir	nciple – real
Total hours to	be taught									45
Text book (s)	:									
1 Philip	A.Laplante, "Real time syste	em desig	gn and	analy	sis – ar	n engineer'	s hand	book",	PHI,	2005.
Reference(s)										
1 C.M.	Krishna and Kang G Shin, "F	Real time	syster	ns", T	MH, 19	97				
2 Stua	t Bennelt, "Real time compu	ter contr	ol – an	d intro	oductior	ר", Pearsor	n educa	ation, 2	2003.	
3 Allen 2003	Burns, Andy Wellings, "Rea	al Time S	System	s and	Progra	imming La	nguage	es", Pe	arsor	Education,

	K.S.	Rangasamy College of Techr	nology A	Autono	οmοι	ıs Regi	ulation			R 2008
Dep	partment	Computer Science and Engineering	0			Name	14 :		nputer : gineerir	Science and
			Elec	tive –	III					
Cour	se Code	Course Name		Ho	urs/W	/eek	Credit	N	laximur	n Marks
Cours	se coue	Course Name		L	Т	Р	С	CA	ES	Total
0814	40765E	COMPONENT BASED TECHNOLOGY		3	0	0	3	50	50	100
Obje	ctive(s)	Introduces in depth JAVA, Co components, technology an Development are covered inc	nd archit			d midd	leware, C			
1	BASIC	CONCEPTS				Tot	al Hrs		g)
		ponents – objects – module components and middleware.	es – inte	erface	s —			ctory se	rvices	 component
2	JAVA B	ASED COMPONENT TECHNO	OLOGIE	S		Tot	al Hrs		g	9
seriali	ization – I	a Beans – Events and connec Enterprise Java Beans – Distrit	buted Ob			s – RMI		JAR files		-
2		COMPONENT TECHNOLOG								`
3							al Hrs		g	
Java object	and COR	BA – Interface Definition lang – CORBA services – CORB	uage – (Object onent	Req mod	uest Br	oker – sy	stem obj - applica	ect mo	del – portable
Java object	and COR t adapter	BA – Interface Definition lang – CORBA services – CORB	uage – (A comp	onent	Req mod	uest Br el – co	oker – sy	stem obj - applica	ect mo	del – portable erver – model
Java object driver 4 COM	and COR t adapter architect . NET B – Distribu	BA – Interface Definition lang – CORBA services – CORB ture	uage – (A comp OLOGIE erfaces a	onent S Ind ver	mod rsioni	uest Br el – co Tot	oker – sy intainers - al Hrs spatch inte	 applica erfaces - 	ect mod ation se	del – portable erver – model
Java object driver 4 COM	and COR t adapter architect . NET B – Distribu containe	BA – Interface Definition lang – CORBA services – CORB ture ASED COMPONENT TECHN ted COM – object reuse – inte	uage – (A comp OLOGIE erfaces a trols – .N	onent S Ind vei IET co	mod rsioni mpor	uest Br el – co Tot ng – dia nents –	oker – sy intainers - al Hrs spatch inte	 applica erfaces - 	ect mod ation se	del – portable erver – model ctable objects
Java object driver 4 COM – OLE 5	and COR t adapter architect . NET B – Distribu containe COMPC	BA – Interface Definition lang – CORBA services – CORB ture ASED COMPONENT TECHN ted COM – object reuse – inte ers and servers – Active X cont	uage – (BA comp OLOGIE erfaces a trols – .N DEVELC CLR cont	onent S Ind ver IET co DPMEI	mod rsioni mpor NT and c	uest Br el – cc ng – dia nents – Tot hannels	oker – sy ntainers – al Hrs spatch inte assemblie al Hrs s – Black	- applica erfaces - es. Box con	ect mod ation se g - conne	del – portable erver – model ctable objects
Java object driver 4 COM – OLE 5 Conne direct	and COR t adapter architect . NET B – Distribu containe COMPC	BA – Interface Definition lang – CORBA services – CORB ture BASED COMPONENT TECHNO uted COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – Contexts – EJB containers – Contexts – Context (Context) – Context (Context) – Context)	uage – (BA comp OLOGIE erfaces a trols – .N DEVELC CLR cont	onent S Ind ver IET co DPMEI	mod rsioni mpor NT and c	uest Br el – cc ng – dia nents – Tot hannels	oker – sy ntainers – al Hrs spatch inte assemblie al Hrs s – Black	- applica erfaces - es. Box con	ect mod ation se g - conne	del – portable erver – model ctable objects
Java object driver 4 COM – OLE 5 Conne direct Total	and COR t adapter architect . NET B – Distribu containe COMPC ectors – (ory object	BA – Interface Definition lang – CORBA services – CORB ture BASED COMPONENT TECHNO uted COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – Contexts – EJB containers – Contexts – Context (Context) – Context (Context) – Context)	uage – (BA comp OLOGIE erfaces a trols – .N DEVELC CLR cont	onent S Ind ver IET co DPMEI	mod rsioni mpor NT and c	uest Br el – cc ng – dia nents – Tot hannels	oker – sy ntainers – al Hrs spatch inte assemblie al Hrs s – Black	- applica erfaces - es. Box con	ect mod ation se - conne g	del – portable erver – model ctable objects
Java object driver 4 COM – OLE 5 Conne direct Total	and COR achitect architect . NET B - Distribu containe COMPC ectors - 0 ory object hours to b pook (s) :	BA – Interface Definition lang – CORBA services – CORB ture BASED COMPONENT TECHNO uted COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – Contexts – EJB containers – Contexts – Context (Context) – Context (Context) – Context)	uage – (A comp OLOGIE erfaces a trols – .N DEVELC CLR cont nment –	onent S Ind ver IET co DPMEI texts a compo	mod rsioni mpor NT and c onent	uest Br el – co ng – dia nents – Tot hannels -oriente	oker – sy ontainers – al Hrs spatch into assemblie al Hrs al Hrs s – Black ed prograr	- applica erfaces - es. Box con nming.	ect mod ation se <u>g</u> - conne <u>g</u> nponent	del – portable erver – model) ctable objects) t framework – 5
Java object driver 4 COM – OLE 5 Conne direct Total Text b 1.	and COR achitect architect . NET B - Distribu containe COMPC ectors - 0 ory object hours to b pook (s) :	BA – Interface Definition lang – CORBA services – CORB ture BASED COMPONENT TECHN uted COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – C ts – cross-development enviror be taught s Szyperski, "Component Softw	uage – (A comp OLOGIE erfaces a trols – .N DEVELC CLR cont nment –	onent S Ind ver IET co DPMEI texts a compo	mod rsioni mpor NT and c onent	uest Br el – co ng – dia nents – Tot hannels -oriente	oker – sy ontainers – al Hrs spatch into assemblie al Hrs al Hrs s – Black ed prograr	- applica erfaces - es. Box con nming.	ect mod ation se <u>g</u> - conne <u>g</u> nponent	del – portable erver – model) ctable objects) t framework – 5
Java object driver 4 COM – OLE 5 Conne direct Total Text b 1.	and COR and COR architect - NET B - Distribu containe COMPC ectors - 0 ory object hours to b pook (s) : Clemen publishe	BA – Interface Definition lang – CORBA services – CORB ture BASED COMPONENT TECHN uted COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – C ts – cross-development enviror be taught s Szyperski, "Component Softw	uage – (A comp OLOGIE erfaces a trols – .N DEVELC CLR cont nment –	onent S Ind ver IET co DPMEI texts a compo eyond	mod rsioni mpor NT and c onent	uest Br el – cc ng – dia nents – Tot hannels -oriente	oker – sy ontainers – al Hrs spatch intr assemblid al Hrs s – Black ed program	- applica erfaces - es. Box con nming. ramming	ect mod ation se <u>g</u> - conne <u>g</u> nponent	del – portable erver – model) ctable objects) t framework – 5
Java object driver 4 COM – OLE 5 Conne direct Total Total Text b 1. Refer	and COR adapter architect - NET B - Distribu containe COMPC ectors - C ory object hours to b pook (s) : Clemen publishe ence(s): Ed Rom	BA – Interface Definition lang – CORBA services – CORB ture SASED COMPONENT TECHNO ated COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – C ts – cross-development enviror be taught is Szyperski, "Component Softwers, 2002	uage – (A comp OLOGIE erfaces a trols – .N DEVELC CLR cont mment – ware: Bo	onent S Ind ver IET co DPME1 texts a compo eyond	mod rsioni mpor NT and c onent Obje	uest Br el – cc ng – dia nents – Tot hannels -oriente	oker – sy ontainers – al Hrs spatch intr assemblid al Hrs s – Black ed program	- applica erfaces - es. Box con nming. ramming	ect mod ation se <u>g</u> - conne <u>g</u> nponent	del – portable erver – model) ctable objects) t framework – 5
Java object driver 4 COM – OLE 5 Conne direct Total Total Text b 1. Refer	and COR adapter architect - NET B - Distribut containe COMPC ectors - c ory object hours to b pook (s) : Clemen publishe ence(s): Ed Rom	BA – Interface Definition lang – CORBA services – CORB ture BASED COMPONENT TECHN uted COM – object reuse – inter ers and servers – Active X cont DNENT FRAMEWORKS AND contexts – EJB containers – C ts – cross-development enviror be taught s Szyperski, "Component Softwars, 2002 man, "Mastering Enterprise Java	uage – (A comp OLOGIE erfaces a trols – .N DEVELC CLR cont nment – ware: Be a Beans' Educatio	onent S Ind ver IET co DPMEI texts a compo eyond ', Johr n, 200	mod rsioni mpor NT and c pnent Obje	uest Br el – co ng – dia nents – Tot hannels -oriente	oker – sy ontainers – al Hrs spatch into assemblie al Hrs s – Black s – Black d program nted Prog	- applica erfaces - es. Box con nming. ramming 999	ect mod ation se - conne - conne - g nponent 4!	del – portable erver – model) ctable objects) t framework – 5

	K.S.F	Rangasamy College of Tec	hnolog	y Auto	onom	ous Re	gulation			R 2008
Depa	rtment	Computer Science and Engineering	Prog	ram co	ode &	Name	14: B		outer So neering	cience and
		<u> </u>	El	ective	- III					
0		O		Ho	ours/V	Veek	Credit	М	aximun	n Marks
Cours	se Code	Course Name		L	Т	Р	С	CA	ES	Total
0814	40766E	NATURAL LANGUAGE PROCESSING		3	0	0	3	50	50	100
Objective(s) Learn about speech recognition and synthesis, and learn about syntax and semantics of speech recognition process.										
1		DUCTION					al Hrs		9	
Under Comp	standing - utational I	anguage Processing – A – Brief history – Regular Exp Phonology and Text-to-Spec	pression ech.	/ – Iv is – Au	utoma	ata – Mo	rphology ar	- Langi nd Finite	State T	ransducers –
2	RECOG	BILISTIC MODELS AND SP NITION	EECH			Tot	al Hrs		10)
Speed 3	ch recogni SYNTA	Speech Recognition Archited zer – Speech synthesis < nd Part-of-Speech Tagging				Tot	al Hrs	_	8	
trees	- The not	un Phrase – Co-ordination - e grammars								
4	UNIFICA	ATION AND PROBALISTIC	PARSIN	IG		Tot	al Hrs		8	
		ementing unification – Unificenter Unificenter Unificenter Unificenter Unificenter Unification – Dependenter Unification – Dependenter Unification – Dependenter Unification – Dependenter Unification – Unification								
5	SEMAN						al Hrs		10	
Comp	ositionalit	eaning – First order predi y – Robust semantic analys ictionary based approaches	is – Lex	ical se	emant	tics – Se	c analysis electional re	 Attachestrictions 	nments s – Mac	 Idioms – hine learning
Total I	hours to b	e taught							45	5
Text b	ook (s) :									
1		urafsky and James H. Martir	n, " Spee	ech an	d Lar	nguage F	Processing"	, Pearson	n Educ	ation 2002
	ence(s):									
1	Verlilag,		-		-				-	
2	James A	Illen, "Natural Language Und	derstand	ling", E	Benja	min Cun	nmings Pub	lishing C	o. 1995	5

	K.S.R	angasamy College of Techn	ology A	utor	omo	us Regu	lation			R 2008
Depa	rtment	Computer Science and Engineering	-			& Name	14 :		ompute nginee	er Science and ering
			Elec							
Cou	rse Code	Course Name		Н	lours	Week	Credit		Maxim	um Marks
Cou		Course Maine		L	Т	Р	С	CA	ES	Total
081	40767E	INFORMATION SECURIT		3	0	0	3	50	50	100
Obj	ective(s)	Understand the basics professional issues in Info aware of various standard Security.	rmation	Secu	urity,	the aspe	cts of risk	manag	ement	and to become
1	INTROE	DUCTION				Tota	al Hrs			9
Comp The S	onents of ecurity SI	is Information Security?, Cr an Information System, Secu DLC, Security professionals ar	ring the	Com	pone	ents, Bala า.	ncing Sec			
2		ITY INVESTIGATION					al Hrs			9
interna	ational lav	ity, Business Needs, Threats vs and legal bodies – Ethics a				curity.		ion sec	curity -	
3	SECUR	ITY ANALYSIS				Tota	al Hrs			9
Risk N strate	gy.	ent: Identifying and Assessing	g Risk, <i>I</i>	∖sse	ssing		0	lisk – s	selectir	•
4		L DESIGN					al Hrs			9
		curity, Information Security Po								9, NIST Models,
5		nal Security Model, Design of AL DESIGN	Security	AICI	mecu		al Hrs	ategies	•	9
		ology: IDS – scanning and an I systems.	alysis to	ols –	Acc	ess contr	ol devices	s – Hon	ey po	ts – Honey nets
	hours to b									45
Text b	ook (s) :									
1.		E Whitman and Herbert J ng House, New Delhi, 2003	Mattord,	"Pr	incipl	les of In	formation	Securi	ty", Th	nomson / Vikas
Refere	ence(s):									
1	LLC, 20									
2		lc Clure, Joel Scrambray, Geo	•	-		• •		McGrav	v-Hill, 2	2003
3	Matt Bis	hop, "Computer Security Art a	nd Scier	nce",	Pear	rson/PHI,	2002.			

	K.S	Rangasamy College of Teo	chnology - A	utonomo	ous R	egula	ation		R 2	2008
Depar	rtment	Computer Science and Engineering	Program	n code &	Name	9	14 :	B.E. Corr and Eng		
			Elective	– III						
0		O surra Na su		Hours	s/We	ek	Credit	Max	imum M	larks
Course	e Code	Course Name		L	Т	Ρ	С	CA	ES	Total
08140	0768E	IT ESSENTIALS		3	0	0	3	50	50	100
,	ctive(s)	Introducing and various ess	ential concep	ts of IT.						
1 /	ANALYS	IS OF ALGORITHMS						Total H	rs	9
– Algoi sort – I	rithmic To Insertion	ADA – Code Tuning Techniq echniques – Linear search – sort – Intractable Problems.								
2 (OBJECT	ORIENTED CONCEPTS						Total Hr	s	9
Inherita Techno	ance – A ology.	Object oriented concepts – . bstract classes – Polymorph	ism – Object					y – Rece	nt trend	ls in OO
		DEVELOPMENT METHOD			•			Total Hr		9
Analys	is and De	pment Methodology – Evolu esign – Software Constructio								
		SERVER CONCEPTS						Total Hr		9
Introdu	uction to \	computing – Back Ground Neb Technology.			chnol	ogies	– Midd			ogies –
		CHNOLOGIES & USER INTE						Total Hr		9
The w	orld wide	e web - Web Application -	 Security in 	Applica	tions	– iss	ues in v	veb base	d appli	-
Introdu User Ir		User interface Design (UID) - Reports.	– The elemei	nts of UI	D –UI	D Tip	is and teo	chniques	– Good	cation -
Introdu User In Total h	nterface -	User interface Design (UID) - Reports.	– The elemei	nts of UI	D –UI	D Tip	is and teo	chniques	– Good	cation – Vs Bad
Introdu User In Total h Text bo	nterface - iours to b ook (s) :	User interface Design (UID) - Reports.	- The eleme	nts of UI	D –UI	D Tip		chniques	– Good	cation – Vs Bad
Introdu User In Total h Text bo	nterface - iours to b ook (s) :	User interface Design (UID) - Reports. e taught	- The eleme	nts of UI	D –UI	D Tip		chniques	– Good	cation – Vs Bad
Introdu User Ir Total h Text bo 1 F Refere 1 E	nterface - nours to b book (s) : Foundation nce(s) : Brad J.Co - Wesley	User interface Design (UID) - Reports. pe taught on Program Books Vol-2 and ox, Andrew J.Novobilski, Obj r, 1991	 The element Vol-3, Infosy iect – Oriente 	nts of UI s. d Progra	mmin	g – A	n evoluti	onary app	- Good	cation – Vs Bad 45 Addison
Introdu User Ir Total h Text bo 1 F Refere 1 E - 2 /	nterface - nours to b book (s) : Foundation nce(s) : Brad J.Co - Wesley Alfred V./ Wesley P	User interface Design (UID) - Reports. be taught on Program Books Vol-2 and ox, Andrew J.Novobilski, Obj r, 1991 Aho,John E.Hopcroft, Jeffrey Publishing Co., 1998	 The element Vol-3, Infosy iect – Oriente D.Ullman, D 	s. d Progra	mmin d Ana	g – A Ilysis	n evoluti	onary app uter Algo	- Good	cation – Vs Bad 45 Addison
Introdu User Ir Total h Text bo 1 F Refere 1 E - 2 /	nterface - nours to b book (s) : Foundation nce(s) : Brad J.Co - Wesley Alfred V./ Wesley P	User interface Design (UID) - Reports. be taught on Program Books Vol-2 and ox, Andrew J.Novobilski, Obj r, 1991 Aho,John E.Hopcroft, Jeffrey	 The element Vol-3, Infosy iect – Oriente D.Ullman, D 	s. d Progra	mmin d Ana	g – A Ilysis	n evoluti	onary app uter Algo	- Good	cation – Vs Bad 45 Addison
Introdu User Ir Total h Text bo 1 F Refere 1 E 2 A 3 F	nterface - nours to b ook (s) : Foundation nce(s) : Brad J.Co - Wesley Alfred V./ Wesley P Rojer Pre	User interface Design (UID) - Reports. be taught on Program Books Vol-2 and ox, Andrew J.Novobilski, Obj r, 1991 Aho,John E.Hopcroft, Jeffrey Publishing Co., 1998	 The element Vol-3, Infosynia ect – Oriente r D.Ullman, D g-A Practition 	nts of UI s. d Progra esign an ers appr	mmin d Ana oach,	g – A Ilysis McG	n evoluti of Comp raw Hill, t	onary app uter Algo	- Good	cation – Vs Bad 45 Addison
Introdu User Ir Total h Text bo 1 F Refere 1 E - - 2 A N 3 F 4 N	nterface - nours to b pok (s) : Foundation Proce(s) : Brad J.Co - Wesley Alfred V./ Wesley P Rojer Pre Wilbert O	User interface Design (UID) - Reports. be taught on Program Books Vol-2 and ox, Andrew J.Novobilski, Obj r, 1991 Aho,John E.Hopcroft, Jeffrey Publishing Co., 1998 essman, Software Engineerin	 The element Vol-3, Infosy iect – Oriente D.Ullman, D g-A Practition ser Interface 	nts of UI s. d Progra esign an ers appr Design, .	mmin d Ana oach, John V	g – A Ilysis McG Viley,	n evoluti of Comp raw Hill, t 1997	onary app uter Algo	- Good	cation – Vs Bad 45 Addison

	K.S.F	angasamy College of Tech	nology A	utonor	nous	Reg	ulatio	on			R 20	800
Dep	artment	Computer Science and	Progr	am coo	de &	Name	!	14 :		•		ence and
		Engineering	Elect	ve – I\	/				<u> </u>	nginee	inng	
			21000		rs/We	eek	Cr	edit	Ν	Maxim	um M	larks
Cours	e Code	Course Name		L	T	P	-	C	CA	ES		Total
0814	0771E	ADVANCED NETWORKS		3	0	0		3	50	50		100
Objec	ctive(s)	Provide advanced topics technologies, practical and studies, Foster student abili	d theoretic	al kno	owled	lge re	quire	ed for	job m			
1	INTRO	DUCTION						То	otal Hrs			9
		verview of Computer Netwo - VLAN - FDDI.	orks and p	rotocol	s Wi	reless	Tra	nsmiss	sion - E	Ethern	et: Sv	witched –
2		BAND NETWORKS						То	otal Hrs	i		9
Circuit	- switch	ed Networks – ADSL - ISDN	and cable	mode	m.							
3	WIDE A	REA NETWORKS						То	otal Hrs	;		9
Packe	t - switch	ed networks - Frame Relay -	ATM - M	PLS.								
4	VOICE	AND DATA NETWORKS						То	otal Hrs			9
VOIP ·	ATM Vs	. Ethernet - VPN.										
5	WIRELE	ESS NETWORKS						To	otal Hrs			9
.WLAN	N - WIFI	- WIMAX - Mobile IP.										
Total h	nours to b	e taught										45
Text B	looks											
1	Data Co	mmunication and networking	g, Behrov2	. Forov	zan,	McGr	aw –	Hill 20	008.			
2	IP Fund	n Davidson, James Peters, M amentals, 2/E, CISCO Press	, 2008.							•		ice Over
3	Jeffrey	G.Andrews, Arunabha Ghosh	n, Rias Mol	named	, Fun	dame	ntal c	of WIM	IAY Pre	emfia H	lall	
Refere	ence(s):											
1	Clint Sn	nith, John Meyer, 3g Wireless	s with wima	ar and	WI-F	I.						
2	High – S	Speed Networks and Internet	s, 2002.									
3	Data an	d Computer Communication	s, 6/e, Willi	am Sta	alling	s, Pre	ntice	Hall, 2	2000.			

K.S.Ra	ingasamy College of Technol	ogy A	uton	omou	s Reg	ulation			R 2008
Department	Computer Science and Engineering	Pro	gram	code	& Nan	ne 14:		mputer ngineer	Science and
		Elect	ive –	IV				0	0
			Ho	urs/W	eek	Credit	N	laximui	m Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08140772E	GRAPH THEORY		3	0	0	3	50	50	100
Objective(s)	Understand basic notions of C Theory, Study of algorithmic C				d Knov	U U			ems in Graph
1 BASIC C	DF GRAPH					Т	otal Hrs		9
	uction – Isomorphism – Sub gra – Hamiltonian Paths and Circu nd Binary Trees.					es of trees	s – Dista	ance a	
2 TREES						T	otal Hrs		9
Isomorphism – 2 3 GRAPH Incidence matrix	ts – Fundamental Circuits and -Isomorphism –Planer Graphs. MATRIX AND DIRECTED GRA a – Submatrices – Circuit Matr	PH ix – P	ath N	/latrix	– Adj	T acency Ma	otal Hrs atrix – C	Chroma	9 tic Number –
Graphs – Types	ioning – Chromatic polynomia of Directed Graphs – Digraphs								
	Adjacency Matrix of a Digraph.					T	otal Hrs		9
	and Components – Spanning cuits – Cut Vertices and Separa						Trees o	ofa G	raph –Set of
5 SHORTE	ST PATH					Т	otal Hrs		9
Shortest Path Al	gorithm – Planarity Testing – Is	omorp	ohism	1					
Total hours to be	e taught								45
Text book (s) :									
	Deo, "Graph Theory: With App	licatio	n to E	Ingine	ering	and Comp	uter Sci	ence", I	PHI, 2003.
Reference(s):									
1 R.J. Wils	on, "Introduction to Graph Theo	ory", F	ourth	Editio	n, Pea	arson Educ	cation, 2	003.	

	K.9	S.Rangasamy College of Technolog	gy Auto	nomo	us F	Regula	tion			R	2008
Dep	artment	Computer Science and Engineering	Ű		de 8	& Nam	е		3.E. Co and En		r Science ing
		Ele	ctive – I						1		
Cou	rse Code	Course Name		Hou		/eek	C	redit	Ma		Marks
000				L	Т	Р		С	CA	ES	Total
081	40773E	PARALLEL COMPUTING		3	0	0		3	50	50	100
Obj	ective(s)	To study the scalability and clus understand the technologies enal interconnection networks, and stud software support needed for shared	oling par by the di	rallel fferent	com t pai	puting rallel p	, to	study	the dif	ferent	types of
1	INTROD						otal I	Hrs		9	
	uters- para	ting- parallel architectures- Archite allel algorithms.	ecture o	classifi	icatio			•	rformar		f parallel
2	PIPELIN	E PROCESSING				To	otal H	Hrs		9	
Stage pipeli 3	e Design- I ined Proce SYNCHF	eady state analysis of pipelines- Arith nterlocks- Data Driven Execution thro ssors- Pipeline Scheduling Theory RONOUS PARALLEL PROCESSING	bugh Inte	rnal fo	orwa	rding-	Men otal I	nory Sy Hrs	vstems	used ir 9	י
		ample SIMD Architecture and Progr Distributed Array Processor(DAP)- I				er			and Me	emory	an Array
4	INTERCO	ONNECTION NETWORKS				Тс	otal H	Hrs		9	
		mutations used in Interconnection N monly used Interconnection Networks		- Netv	vork	Class	ifica	tions- (Comple	te(Non	blocking)
5	FUTURE	DIRECTIONS				To	otal I	Hrs		9	
	nology and ntial Breakt	l Architecture- Applications and Syste hroughs.	em Softw	are- E	Evolu	utionar	y Sc	enario-	Hitting	a wall	-
Total	hours to b	e taught								45	
Text	book (s) :										
1	Moreshw	ar R. Bhujade, "Prallel Computing",N	ew Age	Interna	atior	nal Pub	olishe	ers,199	5.		
Refe	rence(s):										
1		. Culler & Jaswinder Pal Singh, n", Morgan Kaufman Publishers, 1999		Com	puti	ng Ar	chite	cture:	A Har	dware/	Software
2	Michael 、	J. Quinn, "Parallel Programming in C	with MP	I & Op	enN	1P", Ta	ata N	lcGraw	-Hill, Ne	ew Del	hi, 2003
3	Kai Hwar	ng, "Advanced Computer Architecture	e" Tata N	lcGrav	м-Ні	ll, New	/ Del	hi, 200	3		
4	Kai Hwar	ng and Zhi.Wei Xu, "Scalable Parallel	Comput	ting", 1	Tata	McGra	aw-⊦	lill, Nev	v Delhi,	2003.	

	K.S.Ra	ngasamy College of Techr	nology /	Auto	nom	ous Re	gulation			R 2008	
Depa	artment	Computer Science and Engineering	Ű			& Nam	e 14		Comput Engine	er Science and ering	
			El	ectiv	e – I\	/					
0		O and a black		Ho	ours/\	Veek	Credit		Maxir	num Marks	
Cours	se Code	Course Name		L	Т	Р	С	CA	ES	Total	
0814	40774E	XML AND WEB SERVICE	S	3	0	0	3	50	50	100	
Obje	ective(s) Learn xml and web services thoroughly										
1	INTROD	UCTION				То	tal Hrs			10	
XML L	anguage	Basics – SOAP – Web Serv	vices – S	ervio	e Or	iented /	Architecture	(SOA)			
2	XML TE	CHNOLOGY				То	tal Hrs			10	
	– Name S	paces – Structuring With Sure.	Schemas	s and	d DTI	D – Pre	esentation	Technic	ques –	Transformation -	
3	SOAP					То	tal Hrs			10	
		DAP – HTTP – XML-RPC – And Faults – SOAP With A			tocol	– Mess	sage Struct	ure – I	nterme	diaries – Actors –	
4	WEB SE					То	tal Hrs			10	
		nitecture – Key Technologie ET And J2EE.	s - UDD	0I — V	VSDL	- – ebX	ML – SOAF	And V	Veb Se	rvices In E-Com –	
5	XML SE	CURITY				То	tal Hrs			10	
Secur	ity Overvie	ew – Canonicalization – XMI	L Securi	ty Fr	amev	vork –)	KML Encryp	otion – 2	XML Di	gital Signature.	
Total I	hours to b	e taught								50	
Text b	ook										
1	Frank. F	P. Coyle, XML, Web Service	s And T	he D	ata R	evolutio	on, Pearsor	n Educa	ation, 2	002.	
Refere	ence(s):										
2		Nagappan , Robert Skoczy blishing Inc., 2004.	ylas and	l Rim	na Pa	tel Srig	janesh, " D	evelop	ing Jav	va Web Services",	
3		Chatterjee, James Webber	r, "Devel	opin	g Ent	erprise	Web Servio	ces", Pe	earson	Education, 2004.	
4	McGove	rn, et al., "Java Web Service	es Archit	ectu	re", N	lorgan	Kaufmann I	Publish	ers, 20	05.	

	K.S.Ran	gasamy College of Techno	ology A	utono	mou	s Reg	ulation			R 2008
Dep	artment	Computer Science and Engineering	Prog	ram co	ode &	Nam	e 14:		omputer ngineeri	Science and ng
		~ ~	Elec	tive –	IV				-	~
0		O		Hou	irs/W	eek	Credit		Maximu	m Marks
Cou	rse Code	Course Name		L	Т	Р	С	CA	ES	Total
081	40775E	SOFT COMPUTING		3	0	0	3	50	50	100
Obj	ective(s)	Introduce the ideas of fuz that can learn from availab	le exam	ples a		beco	me familiar			
1	BASICS O	F ARTIFICIAL NEURAL NE	TWORK	S		T	otal Hrs		ç	Ð
ANN t Hebbi	erminologies an Learning	ANN: The Biological Neural s: architecture, setting of we rule, Perception learning ru	ights, ac	ctivatio	n fun	ictions ile.	s - McCulloo		Neuron	Model,
2	MODELS						otal Hrs		1	-
BAM -	- Feed Forw Organizing	ption, Architecture, Algorith ard Networks: Back Propog Feature Maps: SOM and LV TS AND RELATIONS	ation Ne			N) and				twork (RBFN)
•										
	ns, fuzzy co	rties and operations - Fuzzy	/ relation	is, car	dinali	ту, ор	erations an	a prope	erties of f	uzzy
4		ILES AND INFERENCE SY	STEMS			Т	otal Hrs		ç	9
		Types of membership function inference, rulebase, de			es: Ta	akagi	and Mamda	ani – fu:	zzy infer	ence
5	GENETIC	ALGORITHM				T	otal Hrs		ç	9
crosso theore	over, mutationer, muta	n (GA): Biological terminolo on, reinsertion – a simple g ilding block hypothesis.								
	hours to be t	aught							4	5
Text b	ook (s) :									
1	Ltd., 2003.	andam, M.Paulraj, "Introduc							Publishin	ng House Pvt.
2		Ross, "Fuzzy Logic with Eng	gineering	g Appli	icatio	ns", №	IcGraw-Hill	1995		
Refere	ence(s):									
1		aran and G.A.V.Pai, "Neura				•		•		
2	,	, C.T.Sun and E.Mizutani, "								
3	Davis E.Go N.Y., 1989	oldberg, "Genetic Algorithm:	s: Searc	h, Opt	timiza	ation a	and Machine	e Learn	ing", Ad	dison Wesley,

K.S.R	angasamy College of Techn	ology Au	tonor	nous	Reg	ulation			R 2008
Department	Computer Science and Engineering	Progra	am coo	de & N	Name	e 14 :		omputer ngineerii	Science and
	Engineering	Electi	ive – ľ	V			-	inginooni	
			Hou	rs/We	ek	Credit		Maximur	m Marks
Course Code	Course Name		L	Т	Ρ	С	CA	ES	Total
08140776E	HIGH SPEED NETWORKS		3	0	0	3	50	50	100
Objective(s)	To highlight the features of d performance. Students will provided with an up-to-date students to know technique students will be provided with	get an ir survey o s involve	ntrodu of dev ed to	ction velopn suppo	abo nents ort re ality	ut ATM an s in High S eal-time tra of service (id Frar Speed affic an	ne relay Network id conge	, and will be s, enable the estion control,
	PEED NETWORKS					otal Hrs		<u> </u>)
ATM Cell – ATI	letworks – Asynchronous trans M Service Categories – AAL. H I's: applications, requirements	ligh Spee	ed LAN	N's: Fa	ast E				
2 CONGE	STION AND TRAFFIC MANA	GEMENT			Т	otal Hrs		ç	9
	sis- Queuing Models – Single S ment – Congestion Control in F								tion Control – on Control.
3 TCP AN	ID ATM CONGESTION CONT	ROL			Т	otal Hrs		ę)
backoff – KARI control in ATM	trol – TCP Congestion Contr N's Algorithm – Window mana – Requirements – Attributes ABR rate control	gement -	Perfo	orman	ce o	f TCP over	ATM.	Traffic ar	nd Congestion
4 INTEGF	RATED AND DIFFERENTIATE	D SERVI	CES		Т	otal Hrs		ç)
	rices Architecture – Approach, n Early Detection	Compone	ents, S	Servic	es- C	Queuing Dis	cipline	, FQ, PS	, BRFQ, GPS,
5 PROTO	COLS FOR QOS SUPPORT				Т	otal Hrs		ç)
	& Characteristics, Data Flow erations, Label Stacking, Proto								
Total hours to b	be taught							4	5
Text book (s) :									
1 William 2002.	Stallings, "HIGH SPEED NET	WORKS	AND	INTE	RNE	T", Pearsoi	n Educ	ation, Se	econd Edition,
Reference(s):									
Asia Pv	d & Pravin Varaiya, "HIGH PEF t. Ltd., II Edition, 2001.								
2 Irvan Pe 2, 2003	epelnjk, Jim Guichard and Jeff	Apcar, "N	1PLS a	and V	PN a	architecture'	", Cisco	Press, \	Volume 1 and

K.S.Rangasamy College of Technology Autonomous Regulation R 2008										
Department	Engineering Engine							ience and		
	Elective – IV Hours/Week Credit Maximum Marks									
Course Code	Course Name		Ho	r		Credit	Ma CA		Marks	
								ES	Total	
08140777E	08140777E DIGITAL IMAGE PROCESSING 3 0 0 3 50 50 10									
Objective(s)	To study the image fund processing, study the image study the image compre- representation techniques.	ge enhan	iceme	nt teo	chniques	s, study imag	je restoi	ation p	procedures,	
1 DIGITAL	IMAGE FUNDAMENTALS A	ND TRA	NSFO	RMS	;	Total Hrs		9		
geometric transfo	al perception – Image sam prmations-Introduction to Fo Image Transforms: Walsh – ns.	urier Tra	nsforn	n and	d DFT –	Properties of	of 2D Fo	urier T	ransform -	
	NHANCEMENT TECHNIQU	ES				Total Hrs		9)	
Image averaging filters : Smoothin	methods: Basic grey level –Spatial filtering: Smoothing g – Sharpening filters – Hom	g filters,	sharpe	ening				requer	ncy domain	
	ESTORATION					Total Hrs		9		
	Degradation/restoration proce east mean square filtering									
4 IMAGE C	OMPRESSION					Total Hrs		9		
Lossy Compress	ession: Variable length codi ion: Transform coding – Wa Vector quantization									
	EGMENTATION AND REPR	ESENT	ATION			Total Hrs		9)	
codes- Polygona	 Thresholding - Region B al approximation – Boundar jional descriptors: Simple descriptors 	y segme	ents –	bou						
Total hours to be	taught	-						4	5	
Text book (s) :										
1 Rafael C	1 Rafael C Gonzalez, Richard E Woods 2nd Edition, Digital Image Processing - Pearson Education 2003.									
Reference(s):										
1 William K	Pratt, Digital Image Process	ing John	Wille	y (20	01).					
Z Broos/col	Image Processing Analysis and Machine Vision – Millman Sonka, Vaclay blavac, Roger Boyle									
3 A.K. Jain,	PHI, New Delhi (1995)-Fund	damenta	ls of D	igital	Image F	Processing.				
4 Chanda D	Dutta Magundar – Digital Ima	ge Proce	essing	and	Applicat	ions, Prentic	e Hall of	India,	2000	

	K.S.Ra	angasamy College of Tech	nology	Auton	omo	us Re	gulation			R 2008	
Depa	artment	Computer Science and Engineering	Prog	ram co	ode &	Nam	e 14 :		nputer S gineerin	Science and g	
	Elective – V										
Court	raa Cada			Hou	irs/W	eek	Credit	М	Maximum Marks		
Cou	Course Code Course Name L T P C							CA	ES	Total	
081	40881E	QUANTUM COMPUTING		3	0	0	3	50	50	100	
Obje	ective(s)	Understand the building to quantum information and quantum error and its corr	l limitati								
1	FUNDAM	ENTAL CONCEPTS					Total Hr	s		8	
	ates of Qua	ives, Quantum Bits, Quant antum Mechanisms.	tum Coi	mputat	tion,	Quar	Ū.		Jantum		
2	QUANTU	M COMPUTATION					Total Hr	s		10	
Quant Quant Quant	um Gates, um search um Search	 Quantum algorithms, Sin Simulation of Quantum Syst algorithms – Quantum con for an unstructured databas 	ems, Qι unting –	Jantum	n Fou	rier tr	ansform, Ph ne solution	of NP c	mation,	Applications, problems –	
3		M COMPUTERS					Total Hr			9	
		es, Conditions for Quantum									
Photor 4		Computer – Optical cavity C M INFORMATIONS	luantum	electr	oayna	amics	Total Hr		viagneti	c resonance.	
•	-	and Quantum Operations -	Classic	al No	ise a	nd M		-	uantum		
Examp	oles of Qua	intum noise and Quantum O ons formalism, Distance Mea	peration	s – Ap	plicat	tions	of Quantum	operatio	ns, Limi	tations of the	
5	QUANTU	M ERROR CORRECTION					Total Hr	s		9	
Fault	Introduction, Shor code, Theory of Quantum Error –Correction, Constructing Quantum Codes, Stabilizer codes, Fault – Tolerant Quantum Computation, Entropy and information – Shannon Entropy, Basic properties of Entropy, Von Neumann, Strong Sub Additivity, Data Compression, Entanglement as a physical resource.										
Total h	nours to be	taught								45	
Text b	ook (s) :										
1	1 Micheal A. Nielsen. & Issac L. Chiang, "Quantum Computation and Quantum Information", Cambridge University Press, Fint South Asian edition, 2002.										
Refere	ence(s):										
1		s,"Quantum theory", Cambri	-	-							
2		nin,"Quantum computer scier		-		-					
3		avello,G.M.Palma & A.Zeili publication, edition 2000.	nger "Q	uantu	m Co	ompu	tation and	Quantum	n Inforn	nation",World	

	K.S.Ra	ingasamy College of Tech	nology A	Auton	οποι	ıs Regi	ulation		R	2008
Depa	artment	Computer Science and	Progra	am co	de & l	Name	14 :			cience and
							E	ngineering		
			Ele	ective	– V					
				Ho	ours/M	/eek	Credit		Maximum	Marks
Cour	se Code	Course Name		L	Т	Р	С	CA	ES	Total
0814	40882E	GRID COMPUTING		3	0	0	3	50	50	100
Obje	ective(s)	Understand the genecise understanding the technology								d computing,
1	INTROD	UCTION				Tota	al Hrs		9	
	Grid Activ tructure	ities – Current Grid Activiti	es – Ove	er Vie	w of	Grid Bu	isiness A	reas –	Grid Appli	cation – Grid
2		OMPUTING INITIALIVES				Tota	al Hrs		9	
Organ	nization Bu	g Organizations and their ilding and using Grid Basec Architecture -Grid Computin	d Solutior	ns – C						
3		OMPUTING APPLICATIONS				Tota	al Hrs		9	
		d Architecture – Web Servic hanism – Web Service inter			– XM	L mess	age and	Envelop	oing – Ser∖	vice message
4		RID SERVICE ARCHITECT				Tota	al Hrs		9	
		ture and Goal - Sample us environment, infrastructure, b					o compor	nents: N	Native Pla	form service
5		OMPUTING TOOL KITS					al Hrs		9	
	Globus GT 3 Toolkit – Architecture, Programming model, High level services – OGSI .Net middleware Solutions.									
Total	Total hours to be taught 45									
Text b	book (s) :									
1	Joshy Jo	seph & Craig Fellenstein, "C	Grid Com	puting	g", Pea	arson/P	HI PTR-2	2003.		
Refer	ence(s):									
1										

	K.S.Ra	angasamy College of Tech	nology A	utono	mous	s Reg	ulation		F	R 2008
Dep	artment	Computer Science and Engineering	gineering Engir					puter Science and neering		
			Electiv	ve – \	/					
0	Hours/Week Credit						М	Maximum Marks		
Cou	Course Code Course Name					Р	С	CA	ES	Total
08′	140883E	CYBER LAWS AND INTELLECTUAL PROPER RIGHTS		3	0	0	3	50	50	100
Obj	jective(s)	Enabling learners to under the IP Trademarks and Age		cybe	r laws	and ir	ntellectual p	roperty	rights a	nd Knowing
1		F ARREST WITHOUT WAI		NDER	THE	IT	Total Hrs	;	8	8
cogniz Balan	zable offenc ce Against A	illennium-Section 80 of the e. Necessity of Arrest wit arbitrary Arrests - Arrest but	hout warr No Punisł	ant fi	rom a		ce, public o	or other	wise- (Checks and
2	CYBER CI	RIME AND CRIMINAL JUST	ГІСЕ				Total Hrs	;	9	
Virus	on the In	crime and IT ACT 2000-Ha ternet-Defamation-Harassm gies to tackle Cyber Crime a	nent and	E-ma						
3	INTELLEC	TUAL PROPERTY RIGHTS	6				Total Hrs	5	(9
		ention and Creativity - Inte							ion of I	PR – Basic
types 4	of property (i. Movable Property ii. Immo MARKS AND APPLICATIO	ovable Pro	perty	and ii	i. Intel	lectual Prop Total Hrs			9
		pyrights and related rights –	-	-	مط سأ مرا					5
Defini	tions – Indus	strial Designs and Integrated striated to the striated to the striated to the striated to the strict of the strict								
5	WIPO AND						Total Hrs	;	1	0
		ention relating to Intellectua Agreement on Trade and T			ablish	ment	of WIPO – N	lission	and Act	ivities –
	Total hours to be taught 45									
Text b	book (s) :									
1	Vivek Soo	d. "Cyber Law Simplified"-Ta	ata McGra	w-Hill	Publi	shing,	Second Ed	ition 20)3.	
2	2 Subbaram N.R. "Handbook of Indian Patent Law and Practice ", S. Viswanathan (Printers and Publishers) Pvt. Ltd., 1998.									
Refer	ence(s):									
1	Susan K. S	Sell, "The Globalization of Ir	ntellectual	Prope	erty Ri	ghts"	, Kindle Edi	tion - Ju	n 23, 20	003

	K.S.Rangasamy College of Technology Autonomous Regulation R 2008									
Depa	Engineering						nputer jineerii	Science and ng		
	Elective – V									
Course	se Code	Course Name		Ho	urs/V	Veek	/eek Credit Maximum Mark			
Cours	se Code	Course Marine		L	Т	Р	С	CA	ES	Total
0814	10884E	TCP / IP DESIGN AND IMPLEMENTATION		3	0	0	3	50	50	100
Obje	ctive(s)	Having learned about com protocol in depth consid understand the internals implemented and to unders	ering des	ign a CP/IP	alterr prot	atives tocols,	and imple understand	ementa d how	tion t TCP/I	echniques to P is actually
1	INTRODU						tal Hrs	· · · ·		9
		concepts and architectura RP- RARP- IP – IP Routing –			sful	Interne	et address	– CI	DR-Su	bnetting and
2	TCP					To	tal Hrs			9
		er – connection establishme on – persist timer - keepalive						ow- bul	k data	flow- timeout
3	IP IMPLE	MENTATION				To	tal Hrs			9
		are organization – routing P) –Multicast Processing (IGI		iting	algor	rithms-l	fragmentatio	on and	reas	sembly- error
4	TCP IMPI	EMENTATION I				To	tal Hrs			9
		nd input processing – trans entation-Output processing- r								on-finite state
5		EMENTATION II				Total Hrs				9
		nd messages- timer process ongestion avoidance and cor								and adaptive
	Total hours to be taught 45							45		
	ook (s) :									
	1 Douglas E.Comer – "Internetworking with TCP/IP Principles, Protocols and Architecture", Vol. 1 & 2 fourth edition, Pearson Education Asia, 2003 (Unit I in Comer Vol. I, Units II, IV & V – Comer Vol. II)									
	2 W.Richard Stevens "TCP/IP illustrated" Volume 1 Pearson Education, 2003 (Unit II)									
	nce(s):									
1		otocol suite, Forouzan, 2 nd e								
2	2 W.Richard Stevens "TCP/IP illustrated" Volume 2 Pearson Education 2003.									

K.S.Rangasamy College of Technology Autonomous Regulation R 2008										R 2008
Dep	partment	Computer Science and	Progr	am coo	de &	Nam	e 14 :			er Science and
		Engineering Engineering								ring
	Elective – V									
Car	waa Cada	Course Name		Hour	s/We	ek	Credit		Maxim	um Marks
COL	irse Code	Course Name		L	Т	Ρ	С	CA	ES	Total
08	140885E	SERVICE ORIENTED ARCHITECTURE		3	0	0	3	50	50	100
Ob	jective(s)	To study about SOA princ data integration in SOA	iples, an	id to st	udy	abou	t SOA imp	lementa	ations, s	study about the
1	INTRO	DUCTION TO SOA				T	otal Hrs			9
servi	ce categorie	cture- Introduction- Roles,S s- SOA infrastructure layers	- pillars o			tech	nology	definiti	ons-SO	
2	SOA CH	HALLENGES AND ANATOM	Y			ר	otal Hrs			9
Infras	structure ar	asic technology-Current t id components-Standard fo is and design								
3	SOA IM	PLIMENTATION PROCESS				Г	otal Hrs			9
Mode	el drive Arch	itecture-Middle tier data mar	agemen	t in SO	A-E	xamp	oles- Data ir	ntegrati	on in S	AC
4		RATING TO SOA					otal Hrs			9
		ting system- Nature of servi dels- SOA implementation Fr								
5	SOA IM	PLIMENTATION CHALLEN	GES			Г	otal Hrs			9
	Components-Challenges in SOA- Overcoming the road blocks to SOA success- Delivering adaptable SOA – Cases in SOA									
Total	Total hours to be taught45									
Text	Text book (s) :									
1	1 RAVI KUMAR JAIN BANDA by ICFAI university press									
Refe	rence(s):									
1	Joshy Jose	eph & Craig Fellenstein, "Grid	d Compu	ıting", F	PHI, F	PTR-	2003.			

K.\$	6.Ra	ngasamy College of Techn	ology Au	itono	mous	Regu	Ilation			R 2008
Department	Engineering							omput Ingine	er Science and ering	
	Elective – V									
	40			Ho	ours/W	eek	Credit		Maxim	um Marks
Course Coo	Course Code Course Name L T P C CA ES Total									
08140886		WIRELESS TECHNOLOG	Y	3	0	0	3	50	50	100
,	Objective(s) Study the concept of wireless medium, study about wireless medium access; study about wireless network operation and to study about wireless WAN, wireless LANS and HIPERLANS.									
1 WIRE	ELES	SS MEDIUM					Total F	Irs		9
Multipath an	d Do	sign – Radio propagation m ppler – Channel Measureme								•
2 WIRE	ELES	SS MEDIUM ACCESS					Total F	Irs		9
Data Traffic.		nt Access for Voice Networks	s – Rando	om Ao	ccess	for Da	ata Netwo	rks – Ir	ntegrati	on of Voice and
-		SS NETWORK OPERATION					Total F	-		9
		k Topologies – Cellular Topol pility Management – Resourc								
4 WIRE	ELES	SS WAN					Total F	Irs		9
		Technology – Mobile Enviror 0 – Mobile Data Networks – 0								
		SS LANS AND HIPERLANS					Total F			9
		ireless LANs – IEEE 802.11 - blogy – Wireless Geolocation		EEE	802.1	5 – W	ireless Ho	me Net	tworkir	ig – Concepts of
Total hours t	o be	taught								45
Text book (s):							•		
1 Kaveth Pahlavan, K.Prasanth Krishnamurthy, "Principles of Wireless Networks", Pearson Education Asia, 2002										
Reference(s):									
		cia, Widjaja, "Communicatior					-		2000.	
2 Willia	m S	tallings, "Wireless Communic	ations an	d Ne	tworks	s", Pre	ntice Hall,	2002.		
3 Joch	en S	chiller, "Mobile Communication	ons", 2 nd	Editio	n, Pea	arson	Education	, 2003		