Curriculum & Syllabus

of

B.Tech. Information Technology

(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 Colle Autonomous	R 2008					
Department	Information Technology					
Programme Code & Name	mation /					

	K.S.Rangasa	amy College of Te	chnolo	gy, Tiru	chengo	de - 637 2	15		
	Curriculu	m for the Program	mes und	der Autor	nomous	Scheme			
Regulation		R 2008							
Department		B.Tech. Informatio	on Techr	ology					
Programme C	ode & Name	21: B.Tech. Inform	nation Te	echnolog	IУ				
	÷	Se	mester I						
Course	Course	Nama	Ho	ours / We	ek	Credit	Max	imum M	arks
Code	Course	Name	L	Т	Р	С	CA	ES	Total
	THEORY								
08210101G	Technical English		3	0	0	3	50	50	100
08210102G	Engineering Mathe	matics I	3	1	0	4	50	50	100
08210103G	Applied Physics		3	0	0	3	50	50	100
08210104G	Applied Chemistry		3	0	0	3	50	50	100
08210105S	Basics of Electrical Engineering(Comm	non to CSE,IT)	3	1	0	3	50	50	100
08210106S	Basics of Electronic (Common to CSE,I		3	1	0	3	50	50	100
	PRACTICAL								
08210107P	Applied Physics La	boratory	0	0	3	2	50	50	100
08210108P	Electrical Engineer	ing Laboratory	0	0	3	2	50	50	100
08210109P	Electronics Engine	ering Laboratory	0	0	3	2	50	50	100
08210110P	Engineering Praction	ces Laboratory	0	0	3	2	50	50	100
	Total		18	03	12	27		1000	
		Se	mester I	I					
Course	Course	Name	Ho	ours / We	ek	Credit	Max	imum M	arks
Code		name	L	Т	Р	С	CA	ES	Total
	THEORY								
08210201G	Communication Sk	ills	3	0	0	3	50	50	100
08210202G	Engineering Mathe	matics II	3	1	0	4	50	50	100
08210203G	Materials Science		3	0	0	3	50	50	100
08210204G	Environmental Scie	ence	3	0	0	3	50	50	100
08210205S	Fundamentals of P (Common to CSE,		3	1	0	3	50	50	100
08210206S	Basics of Civil and Engineering (Comr IT)		4	0	0	4	50	50	100
	PRACTICAL								
08210207P	Engineering Graph	ics Laboratory	1	0	3	3	50	50	100
08210208P	Applied Chemistry	Laboratory	0	0	3	2	50	50	100
08210209P	Programming Labo	ratory	0	0	3	2	50	50	100
08210210P	Comprehension I		0	0	3	0	100	00	100
	Total		20	02	12	27		1000	

	K.S.Rangasam					-			
	Curriculum	for the Prog	grammes	under A	Autonom	ous Scher	ne		
Regulation		R 2008							
Department		B.Tech. In	formatio	n Techn	ology				
Programme Co	ode & Name	21: B.Tech			chnolog	/			
			Semes	ter III					
Course	Course Nam		Ho	ours / We	eek	Credit	Ма	ximum Ma	arks
Code		IC	L	Т	Р	С	CA	ES	Total
	THEORY								
08210301G	Engineering Mathem	atics III	3	1	0	4	50	50	100
08210302C	Signals and Systems	;	3	1	0	4	50	50	100
08210303C	Computer Architectu	re	3	0	0	3	50	50	100
08210304C	Data Structures		3	0	0	3	50	50	100
08210305C	Principles of Commu	nication	3	1	0	4	50	50	100
08210306C	Advanced C & C++		3	0	0	3	50	50	100
	PRACTICAL								
08210307P	Digital and Hardware Laboratory	9	0	0	3	2	50	50	100
08210308P	Data Structures Labo	oratory	0	0	3	2	50	50	100
08210309P	Advanced C & C++ L	aboratory	0	0	3	2	50	50	100
08210310P	Comprehension II		0	0	3	0	100	00	100
08210311P	Career Competency Development I		0	0	2	0	100	00	100
	Total		18	03	14	27		1100	
			Semest	ter IV					
Course	Course Nam		Ho	ours / We	eek	Credit	Ма	ximum Ma	arks
Code	Course Main	IC	L	Т	Р	С	CA	ES	Total
	THEORY								
08210401C	Probability and Statis	stics	3	1	0	4	50	50	100
08210402C	Software Engineering	9	3	0	0	3	50	50	100
08210403C	Information Coding Techniques		3	0	0	3	50	50	100
08210404C	Java Programming		3	0	0	3	50	50	100
08210405S	Digital Signal Proces (Common to CSE,IT)	J	3	1	0	4	50	50	100
08210406C	Microprocessors and Microcontrollers PRACTICAL		3	0	0	3	50	50	100
08210407P	Java Programming L	aboratory	0	0	3	2	50	50	100
08210408P	Digital Signal Proces Laboratory	sing	0	0	3	2	50	50	100
08210409P	Microprocessors and Microcontrollers Lab		0	0	3	2	50	50	100
08210410P	Comprehension III		0	0	3	0	100	00	100
08210411P	Career Competency Development II		0	0	2	0	100	00	100
	Total		18	02	14	26		1100	•

	K.S.Rangasamy College	e of Techn	ology, 1	Firucher	ngode – 6	37 215		
	Curriculum for the Pr	ogrammes	under A	Autonom	ous Schen	ne		
Regulation	R 2008	-						
Department	B.Tech. Ir	formation	Technol	ogy				
Programme C	code & Name 21: B.Tec	h. Informat	tion Tecl	hnology				
Ŭ		Semes						
Course		Ho	ours / We	eek	Credit	Ma	ximum Ma	arks
Code	Course Name	L	Т	Р	С	CA	ES	Total
	THEORY							
08210501G	Professional Ethics	3	0	0	3	50	50	100
08210502C	Object Oriented Analysis and Design	3	0	0	3	50	50	100
08210503C	Operating Systems	3	1	0	4	50	50	100
08210504C	Computer Networks	3	1	0	4	50	50	100
08210505S	Database Management Systems (Common to CSE and IT)	3	1	0	4	50	50	100
08210506C	Telecommunication Systems	3	0	0	3	50	50	100
	PRACTICAL							
08210507P	Case Tools Laboratory	0	0	3	2	50	50	100
08210508P	Operating System and Open Source Laboratory	0	0	3	2	50	50	100
08210509P	Database Management Systems Laboratory	0	0	3	2	50	50	100
08210510P	Career Competency Development III	0	0	2	0	100	00	100
	Total	18	03	11	27		1000	
		Semest	er VI					
Course		Hc	ours / We	eek	Credit	Ma	ximum Ma	arks
Code	Course Name	L	Т	Р	С	CA	ES	Total
	THEORY							
08210601G	Principles of Management	3	0	0	3	50	50	100
08210602S	Numerical Methods (Common to CSE and IT)	3	1	0	4	50	50	100
08210603C	TCP / IP and Socket Programming	3	0	0	3	50	50	100
08210604C	Visual Programming	3	1	0	4	50	50	100
08210605C	Web Technology	3	1	0	4	50	50	100
082106**E	Elective I	3	0	0	3	50	50	100
	PRACTICAL							
08210607P	Visual Programming Laboratory	/ 0	0	3	2	50	50	100
08210608P	Network Laboratory	0	0	3	2	50	50	100
08210609P	Design Project	0	0	3	2	100	00	100
08210610P	Career Competency Development IV	0	0	2	0	100	00	100
	Total	18	03	11	27		1000	

	K.S.Rangasam	y College	of Techr	nology, '	Tiruchei	ngode – 63 [°]	7 215					
						ous Schem						
Regulation		R 2008	-									
Department		Departmer	nt of B.Te	ech. Info	rmation	Technology						
Programme C	ode & Name	21: B.Tech	1: B.Tech. Information Technology									
			Semes	ter VII								
Course			Ho	ours / We	ek	Credit	Ma	aximum N	larks			
Code	Course Nam	ie	L	Т	Р	С	CA	ES	Total			
	THEORY											
08210701G	Total Quality Manage	ement	3	0	0	3	50	50	100			
08210702C	Component Based T	echnology	3	1	0	4	50	50	100			
08210703C	Mobile Computing		3	1	0	4	50	50	100			
08210704C	Graphics and Multim	edia	3	1	0	4	50	50	100			
082107**E	Elective II		3	0	0	3	50	50	100			
082107**E	Elective III		3	0	0	3	50	50	100			
	PRACTICAL											
08210707P	Software Component Laboratory		0	0	3	2	50	50	100			
08210708P	Graphics and Multim Laboratory	edia	0	0	3	2	50	50	100			
08210709P	Project Work - Phase	e l	0	0	4	2	100	00	100			
08210710P	Career Competency Development V		0	0	2	0	100	00	100			
	Total		18	03	11	27		1000				
			Semest	er VIII								
Course	Course Nam		Ho	ours / We	ek	Credit	Ma	aximum N	larks			
Code		le	L	Т	Р	С	CA	ES	Total			
	THEORY											
08210801C	System Software		3	1	0	4	50	50	100			
082108**E	Elective IV		3	0	0	3	50	50	100			
082108**E	Elective V		3	0	0	3	50	50	100			
	PRACTICAL											
08210804P	Project Work - Phase		0	0	20	10	50	50	100			
	Total		09	01	20	20		400				

	K.S.Rangasar	ny College o	f Techno	ology, T	iruchen	gode – 63	37 215		
	Curriculum	for the Prog	rammes	under A	utonomo	ous Schem	ne		
Regulation		R 2008							
Department		Department	of Inform	nation Te	chnolog	IУ			
Programme Co	ode & Name	21: B.Tech.	Informati	ion Tech	nology				
Course	Course No		Ho	ours / We	ek	Credit	Ma	ximum Ma	arks
Code	Course Na	me	L	Т	Р	С	CA	ES	Total
			Electiv	ve I					
08210641E	Compiler Design		3	0	0	3	50	50	100
08210642E	Discrete Mathemati	CS	3	0	0	3	50	50	100
08210643E	Embedded Systems		3	0	0	3	50	50	100
08210644E	Software Quality Ma		3	0	0	3	50	50	100
08210645E	Cryptography and N Security	letwork	3	0	0	3	50	50	100
08210646E	Advanced Java Pro	gramming	3	0	0	3	50	50	100
08210647E	Fundamentals of IT		3	0	0	3	50	50	100
			Electiv	e II					
08210751E	Client / Server Com	puting	3	0	0	3	50	50	100
08210752E	Distributed Comput	ing	3	0	0	3	50	50	100
08210753E	Grid Computing		3	0	0	3	50	50	100
08210754E	High Performance	Vetworks	3	0	0	3	50	50	100
08210755E	IT Essentials		3	0	0	3	50	50	100
			Elective	e III					
08210761E	Cloud Computing		3	0	0	3	50	50	100
08210762E	C# and .Net		3	0	0	3	50	50	100
08210763E	Cyber Laws and Int Property Rights	ellectual	3	0	0	3	50	50	100
08210764E	3G Wireless Netwo	rks	3	0	0	3	50	50	100
			Elective	e IV					
08210871E	Information System	Design	3	0	0	3	50	50	100
08210872E	User Interface Desi	gn	3	0	0	3	50	50	100
08210873E	Software Testing		3	0	0	3	50	50	100
08210874E	Digital Image Proce	ssing	3	0	0	3	50	50	100
			Electiv	e V					
08210881E	Data Warehousing	and Mining	3	0	0	3	50	50	100
08210882E	E-Commerce		3	0	0	3	50	50	100
08210883E	Open Source Archit	ecture	3	0	0	3	50	50	100
08210884E	Soft Computing		3	0	0	3	50	50	100

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Department	Information Technology	Progra	mme Co	de & N	ame	In		B.Tech. n Techno	ology
		S	emester	r I					
Course Code	Course Name		Hou	rs/We	ek	Credit	M	aximum I	Marks
Course Coue			L	Т	Р	С	CA	ES	Total
08210101G	TECHNICAL ENGLISH (Common to all B.E./B.1 programmes)		3	0	0	3	50	50	100
Objective(s)	To help learners improv different academic and functions of Technical I reading texts, help lear career related situations	d profession English, hel mers acquir	nal cont p learne e the at	exts, failers dev bility to	amiliar elop st speak	ize learne trategies th c effectively	rs with nat could / in Eng	different be ado lish in re	rhetorical pted while al-life and
1 GRAMM	IAR AND VOCABULARY					otal Hrs		9	
compounds – a British and Am 2 LISTENI Extensive liste listening for sp	of conditionals – comp articles – use of prepositi erican vocabulary. ING ming – listening for gene becific information: retriev ion, attitude, etc. – globa	ons - phras	al verbs	ning to ation –	monly To fill up	mispronou tal Hrs gapped te ing to iden	exts – ir tify topic	d misspe 9 ntensive c, context	listening –
	ote-taking: guided and un				-	tal Hrs		9	
oral practice -		 introducin 	g onese	elf – as	king fo ing op	or or elicitir inions (ag	ng inforn	nation -	describing
Exposure to d	ifferent reading techniqu				Τo	ital Hrs		5	
Identifying lexit note-making –	text – identifying the top cal and contextual meani understanding discourse	oic sentenco ngs – readi	e and its ng for st	s role i ructure	global in eacl and d f sente	h paragrap etail – tran ences.	oh – sca	nning – nformatio	inferring /
Identifying lexion note-making – 5 WRITING	cal and contextual meani understanding discourse G	bic sentence ngs – readi coherence	e and its ng for st – seque	s role i ructure ncing o	globa in eacl and d f sente To	l meaning h paragrap letail – tran ences. Ital Hrs	oh – sca isfer of ii	nning – nformatio 9	inferring / n / guided
Identifying lexit note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust	cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuatio	bic sentence ngs – readi coherence echnical style erence and and contras , letter for s	e and it: ng for st – seque e – writi use of c st – class seeking	s role i ructure ncing o ing defi ohesive sifying t practica	global and d f sente To nitions e expre	I meaning h paragrap etail – tran ences. tal Hrs and desci essions) – ta – analyz	oh – sca sfer of in riptions - process ing / inte	nning – nformatio 9 - paragra descripti erpreting undertaki	inferring / in / guided aph writing on (use of the data –
Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to l	cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuatio	bic sentence ngs – readi coherence echnical style erence and and contras , letter for s	e and it: ng for st – seque e – writi use of c st – class seeking	s role i ructure ncing o ing defi ohesive sifying t practica	global and d f sente To nitions e expre	I meaning h paragrap etail – tran ences. tal Hrs and desci essions) – ta – analyz	oh – sca sfer of in riptions - process ing / inte	anning – nformatio 9 - paragra descripti erpreting	inferring / in / guided aph writing on (use of the data –
Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to I Text book (s) : 1 Rizvi M Ltd., New	cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuatio	bic sentence ngs – readi coherence echnical style erence and and contras , letter for s on, spelling a	e and its ng for st – seque e – writi use of c st – class seeking and gran	s role i ructure ncing o ing defi ohesive sifying t practica nmar.	global and d f sente To nitions e expre the dat thal train	I meaning h paragrap letail – tran ences. tal Hrs and desci essions) – ta – analyz ing, and le	oh – sca sfer of in riptions - process ing / inte etter for u	anning – nformatio 9 - paragra descripti erpreting undertaki 45	inferring / on / guided aph writing on (use of the data – ng project
Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to I Text book (s) : 1 Rizvi M Ltd., New Reference(s) :	cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuation be taught Ashraf, "Effective Techni w Delhi, 2005.	bic sentence ngs – readi coherence echnical style erence and and contras , letter for s on, spelling a cal Commu	e and its ng for st – seque e – writi use of c st – class seeking and gran	s role is ructure ncing o ing defi ohesive sifying t practica nmar.	global and d f sente To nitions e expre the dat al train dition,	I meaning h paragrap letail – tran ences. tal Hrs and descu essions) – ta – analyz ing, and le	oh – sca asfer of in riptions - process ing / inte tter for u	anning – nformatio 9 - paragra descripti erpreting undertaki 45 ublishing	inferring / on / guided aph writing on (use of the data – ng project Company
Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to Text book (s) : 1 Rizvi M Ltd., New Reference(s) : 1 Dr.M.Ba Kumbak	cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuation be taught Ashraf, "Effective Techni w Delhi, 2005. Iasubraminian and Dr. onan, 2007.	coherence echnical style erence and and contras , letter for s on, spelling a cal Commu	e and its ng for st – seque e – writi use of c st – class seeking and gran	s role i ructure ncing o ing defi ohesive sifying t practica nmar. ", 1 st E	global in eacl and d f sente To nitions e expre the dat al train dition,	I meaning h paragrap letail – tran mces. tal Hrs and desci- essions) – ta – analyz ing, and le Tata McG	oh – sca asfer of in riptions - process ing / inte atter for u rawhil Pu	anning – nformatio 9 - paragra descripti erpreting undertaki 45 ublishing	inferring / aph writing on (use of the data – ng project Company
Identifying lexic note-making – 5 WRITING Introductions to (topic sentence sequencing co formal letter w works in indust Total hours to I Text book (s) : 1 Rizvi M Ltd., New Reference(s) : 1 Dr.M.Ba Kumbak 2 Sharon Educatio	cal and contextual meani understanding discourse G o the characteristics of te e and its role, unity, cohe nnectives) – comparison riting (letter to the editor, tries) – editing (punctuation be taught Ashraf, "Effective Techni w Delhi, 2005. Iasubraminian and Dr.	coherence coherence echnical style erence and and contras , letter for s on, spelling a cal Commu G.Anbalaga erson, "Tec ew Delhi, 20	e and its ng for st <u>– seque</u> e – writi use of c st – class seeking and gran nication an, "Pe hinical V 004.	s role i ructure ncing o ing defi ohesive sifying f practica nmar. ", 1 st E	global in eacl and d f sente To nitions e expre the dat al train dition, dition,	I meaning h paragrap letail – tran mces. tal Hrs and desci- essions) – ta – analyz ing, and le Tata McG	oh – sca asfer of in riptions - process ing / inte atter for u rawhil Pu rawhil Pu rawhil 20 rawhil 20	anning – nformatio 9 - paragra descripti erpreting undertaki 45 ublishing ublishing	inferring / n / guidec aph writing on (use of the data – ng project Company blications,

K.S.Ran	gasamy College of Techno	logy - Au	itonor	nous	Regulatio	n		R 200	8		
Department	Information Technology	Progra	amme	Code	& Name	In		B.Tech. n Technc	logy		
		Seme	ester I								
Course Code	Course Name		H		Week	Credi t		ximum M	arks		
			L	Т	Р	С	CA	ES	Total		
08210102G	ENGINEERING MATHEMA (Common to all B.E./B.Tech programmes)	h.	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. The topics introduced will serve as basic tools for specialized studies in many engineering fields, significantly in fluid mechanics, field theory and communication engineering.											
I MATRICES Total Hrs 12											
values and Eigen theorem (without transformation of orthogonal transfo		Properties ormation Jonal form	of eig (conce n – R	ien va ept oi	lues and e nly) – Or on of qua	eigenveo thogona Idratic fo	tors – C I matrice	ayley – H es – Orf anonical	lamilton hogonal		
CALCULU						l Hrs		12			
	esian and polar co-ordinates								nvolutes		
	velopes – Properties of enve NS OF SEVERAL VARIABLE			utes –		l Hrs		mais 12			
	variables – Partial derivatives		lifforo	atial		-			movimo		
	range's multiplier method – .			illai –	iviaxima a		na – Coi	Istraineu	паліпа		
	Y DIFFERENTIAL EQUATIO				Tota	l Hrs		12			
Linear differentia	I equations of Second and	d higher	orde	· with	constant	coeffic	ent whe	n the F	R.H.S is		
	in ax, $\cos ax$, $e^{ax}x^n$, e^{ax}	-							ferential		
	riable coefficients (Cauchy's	-		-							
	NTIAL EQUATIONS AND ITS				Tota			12			
Solution of speci harmonic motion	t order linear equations wit fied differential equations c (Differential equations and as	connected	l with	electr	ric circuits	, bendir		ams and			
Total hours to be	taught							60			
Text book (s) :											
	. T., "Engineering Mathemat Limited, New Delhi, 2005.	ics (for fi	rst yea	ar)", F	ourth Editi	on, Tata	McGrav	v- Hill Pu	ıblishing		
Reference(s) :											
S.Chand a	y. P, Thilagavathy. K and C nd Co. – New Delhi 2007.		•	•	U U						
2 Grewal. B.	S., "Higher Engineering Math	ematics",	Thirty	Eight	h Edition,	Khanna	Publishe	ers, Delhi	, 2004.		
³ Singapore				•	-	-		, ,			
	nan.M.K, "Engineering Math ub. Co., Chennai, 2004.	ematics,	Volum	nel&	II Revise	d Enlarg	ed", Fou	irth Editio	on", The		

	ingasamy College of Techr	nology	- Autor	nomou	is Regula	tion		R 20	008
Department	Information Technology	Pr	ogramn Na	ne Cod me	e &	Infor	21: B.T mation T	Fech. Fechnolo	ру
	1	S	emeste	rl			r		
Course Code	Course Name		Н	ours / \	Week	Credit	Ma	aximum l	Marks
Course Cours			L	Т	Р	С	CA	ES	Total
08210103G	APPLIED PHYSICS (Common to all B.E./B.Teo Programmes)		3	0	0	3	50	50	100
Objective(s)	Design of acoustically good destructive Techniques, Engineering and Technolog	Applica							
I LASERS					Tot	al Hrs		9	
2 FIBER OP Principles-Mode index and mode optical Commur 3 QUANTUM	, Welding, Heat Treatment a TICS AND APPLICATIONS s of Propagation-Crucible-C s of propagation-Splicing-Lo nication Links-Fiber optic Sen A PHYSICS AND APPLICAT quantum theory-Dual Natu	Crucible osses ir nsors: 7 10NS	e Techr n Optica Fempera	ique-C Il fiber- ature a	Tot Classificat Light Sou nd Displa Tot	urces for fib <u>cement me</u> al Hrs	ore optic asurem	s-Detect ent. 9	tors-Fibe
	its applications-Compton				r (`omot	on Shift E	vnorimo	ntal Va	rification
Scanning electro 4 ULTRASO	NICS	and Tin	ne inde	pende	nt) - Par Tot	ticle in a b al Hrs	ox-Elec	tron mic	croscope
Scanning electro 4 ULTRASO Introduction of I effect, Piezoele drilling, welding, Resonance syste	on microscope. NICS Jltrasonic Waves - Magnete ctric generator-Detection of soldering and cleaning- Nor em.	and Tin ostrictic f ultras	on effect	pende t, Mag aves-P	nt) - Par Tot netostrict roperties Pulse ech	ticle in a b al Hrs ion genera · Cavitatior o system, 1	tor, Inve	etron mic 9 erse pie strial Ap transmis	croscope- zoelectric
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Depart	tment	Information Technology	Pro	gramme	e Coo	de & Nar	ne	Infori	21: B.T mation T	ech. echnology
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0		O surra Nisara		Hou	ırs / V	Veek	Credit		Maxim	um Marks
Course	Code	Course Name		L	Т	Р	С	CA	ES	Total
08210 ⁻	104G	APPLIED CHEMISTRY (Common to all B.E./B.Te programmes)		3	0	0	3	50	50	100
Objecti	. ,	The student should be co and its inhibition treatmen devices knowledge with re	nt of	water fo	or ind	ustrial p	urposes ar	nd the	concept	of energy storage
1 WA	ATER T	REATMENT				Tota	al Hrs			9
caustic deminer 2 EL Electroc cell – N	embriti ralizatio ECTRC chemica lernst e	ss- Estimation of hardnes tlement, priming and forr n – desalination – electro d OCHEMISTRY Il cells – reversible and irre quation – problems – Elec	ning- lialys eversi trode	softer is and r ible cell es – Sin	evers s – E igle e	of wate se osmos Tot: MF – m electrode	r- lime so sis. al Hrs easurement potential	oda pro nts – S – Type	tandard s of elec	eolite process - 9 Weston Cadmiun trodes – Calome
batterie		ctrochemical series – signi	incan	ce – Po	Jienii	ometric	utrations –	Ballen	ies – Lea	
		ON AND CORROSION CO				– (-			-
Corros					ism –		al Hrs	– type	s of corro	9 osion – differentia
aeratior Protecti function	sion – E n – gran ive coa ns – mee	lectrochemical and chemica ular - pitting – corrosion co tings – Preliminary treatm chanism of drying.	al – N ontro	/lechan I – Sacr	ificial	- corrosic anode a ting (Cr	on reaction and Impres & Ni) –	sed cu	rrent met	osion – differentia thod – Inhibitors -
aeratior Protecti <u>function</u> 4 FU	sion – E n – gran ive coa ns – meo IELS AN	lectrochemical and chemica ular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ND COMBUSTION	al – N ontrol nent	∕lechan I – Sacr – Elect	ificial ropla	corrosic anode a ting (Cr	on reaction and Impres & Ni) – al Hrs	sed cu Paints	rrent met – Cons	psion – differentia thod – Inhibitors tituents and the 9
aeratior Protecti function 4 FU Fuels – Coal – p and pol octane u 5 PC Polyme	sion – E n – gran ive coa is – med IELS AN Calorifi proxima lymer p number DLYMEF r structi	lectrochemical and chemica ular - pitting – corrosion co tings – Preliminary treatm chanism of drying. ID COMBUSTION c values – Gross and Net - te and ultimate analysis – etrol – Synthetic petrol – I by additives – Diesel – Ce RS ure – Nomenclature – Poly	al – Nontrol nent – The their Fishe tane	Mechan – Sacr – Elect eoretica importa irr- Trop number	ificial ropla I air f ince - sch a · – W	- corrosic anode a ting (Cr Tota or comb – metallu and Berg ater gas Tota es – me	on reaction and Impres & Ni) – al Hrs ustion – flu urgical cok jus metho , producer al Hrs echanism (sed cu Paints ue gas e – Pet od – Oc gas an free ra	rrent met – Cons analysis rol – Stra ctane nui d LPG. dical only	psion – differentia thod – Inhibitors - tituents and thei 9 – Orsat method - aight run, cracked mber – improving 9 y) – co-ordination
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K.S.R	angasamy College of Techn	ology - Au	Itonom	ous R	Regula	tion		R 20	008
Department	Information Technology	Prog	ramme	Code	&Nam	ne		1: B.Tech	-
· · ·	5,						Informa	ation Tech	nology
		Semest		- / \ \ /		One dit	N4-		
Course Code	Course Name			rs / W T	еек Р	Credit		aximum Ma	
	BASICS OF ELECTRICAL		L	-	Р	С	CA	ES	Total
08210105S	ENGINEERING(Common to		3	1	0	3	50	50	100
Objective(s)	To improve the basic knowle understand the concepts of electronic device.								
1 FUNDAME	NTALS OF DC AND AC CIR	CUITS				Total I	Hrs	12	
	DC circuits: Ohm's law, Kirchl			esistiv	e circu	iits – E e	ct o se	eries and	parallel
	esh and Nodal analysis - S			_				0. 1	
	AC circuits: RMS and Average edance, Power and Power Factoria								
	ENTALS OF MAGNETIC CIR		<u>\0, I\L</u>		1113	Total I		<u>3 probic</u> 12	1113
Ohm's law of	magnetic circuit, Simple an	d compos	ite ma	anetic	circu	uits. Effe	ct of ai	r dap -	leakage
factor - fringing	g effect – Simple problems	Farada	y's law	i of	electr	omagneti	ic induc	tion – S	
	EMF – Statically and Dyna		duced E	MF –	Simp				
	IINES AND TRANSFORMERS					Total I		12	
	construction – EMF equation	n of DC	genera	tor –	Туре	es of Ge	enerator	s and M	otors –
Characteristics.	nstruction - EMF equation -	- Transfor	mation	ratio	– Tvr	oes of Ti	ransform	ners –	
Instrumentation 1		rianoion	ination	ratio			anoronn	1010	
4 INDUCTIC	N MACHINES					Total I	Hrs	12	
	duction Motor: Construction,		Princip	le of	Oper	ation – T	Forque E	quation –	Slip Vs
	ristics of Cage and wound rote								
5 POWER S	uction Motor: Principle of Ope	ration – Ty	pes – A	pplica	itions.	Total I	Hre	12	
	d Full Wave Rectifiers –	Dridgo Da	otifior		(200		-	.=	ulatar
Introduction to SI		blidge Re	ecuner	— iy	pes	or mers	- 0	llage Reg	ulator –
Total hours to be	taught							60	
Reference (s) :							·		
1 B.L.Theraj	a and A.K.Theraja, "Electrical	Technolog	y", S.Cł	nand 8	Com	pany LTC	D, New D	Delhi, 2008	5.
2 V.N.Mittel,	"Basic Electrical Engineering"	, Tata Mc C	Graw H	II, Nev	v Delh	ni, 1990.			
3 V. Del Tor	o, "Electrical Engineering Fun	damentals'	', Prent	ice Ha	ll of	India, Nev	w Delhi,	1993.	

2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL Total Hrs 12 AMPLIFIER Amplification – Transistor Characteristic Curve – Transistor – Types – Transistor as Switch – Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – SCR. 12 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary	K.S	B.Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 20	800
Semester I Hours / Week Credit Maximum Marks Course Code Course Name Hours / Week Credit Maximum Marks 08210106S BASICS OF ELECTRONICS I 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 1 2 Introduction : Semiconductors – N-Type and P-Type – Majority and Minority Carriers – PN Junction Characteristics – Type and Applications – Power Supplies – Rectifier – Filters – Voltage Multiplier – Zener Regulators. 1 Total Hrs 12 AMPLIFIER AMPLIFIER Total Hrs 12 12 AMPLIFIER Total Hrs 12 12 12 AMSC SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR. 12 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Meth	Department	Information Technology	Pro	aramr	ne Co	de &N	lame			-
Course Code Course Name Hours / Week Credit Maximum Marks 08210106S BASICS OF ELECTRONICS ENGINEERING(Common to CSE & IT) 3 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 Introduction : Semiconductors - N-Type and P-Type - Majority and Minority Carriers - PN Junction Characteristics - Type and Applications - Power Supplies - Rectifier - Filters - Voltage Multiplier - Zener Regulators. 12 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL AMPLIFIER Total Hrs 12 Amplification - Transistor Characteristic Curve - Transistor - Types - Transistor as Switch - Measuring gain - Common Emitter Amplifier - Stabilizing the Amplifier - Other Configurations. 1 3 LARGE SIGNAL AMPLIFICATION - OSCILLATORS Total Hrs 12 Basic features - Amplifier classification - Class A,B, AB, C and Switched Mode Amplifiers - Oscillators - RC, LC, Crystal and Relaxation Oscillators - SCR. 10 10 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes - Basic Logic Gates and Truth Tables - B	2000			•				Inform	nation Tech	nology
Course Code Course Name L T P C CA ES Total 08210106S BASICS OF ELECTRONICS ENGINEERING(Common to CSE & IT) 3 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 1 1 INTRODUCTION TO SEMICONDUCTION SMALL SIGNAL Total Hrs 12 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL Total Hrs 12 AMPLIFIER AMPLIFIER Total Hrs 12 AMPLIFICATION – OSCILLATORS Total Hrs 12 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A, B, A, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR. 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth T		Γ	Seme					1		
LTPCCAESTotal08210106SBASICS OF ELECTRONICS ENGINEERING(Common to CSE & IT)31035050100Objective(s)To have an overview of electronic devices, study the design of digital system.Total Hrs121INTRODUCTION TO SEMICONDUCTORS AND DIODESTotal Hrs12Introduction : Semiconductors – N-Type and P-Type – Majority and Minority Carriers – PN JunctionCharacteristics – Type and Applications – Power Supplies – Rectifier – Filters – Voltage Multiplier – Zener2TRANSISTORS-INTRODUCTION TO SMALL SIGNALTotal Hrs12AMPLIFIERAMPLIFIER12Amplification – Transistor Characteristic Curve – Transistor – Types – Transistor as Switch – Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 313LARGE SIGNAL AMPLIFICATION – OSCILLATORSTotal Hrs12Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR.Total Hrs12Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combination and Division of Binary Numbers.Total Hrs125SEQUENTIAL LOGIC CIRCUITSTotal Hrs12Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. Total Hrs60Referenc	Course Code	Course Name		Hou						arks
08210106S ENGINEERING(Common to CSE & IT) 3 1 0 3 50 50 100 Objective(s) To have an overview of electronic devices, study Amplifiers and Oscillators, study to design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 Introduction : Semiconductors - N-Type and P-Type - Majority and Minority Carriers - PN Junction Characteristics - Type and Applications - Power Supplies - Rectifier - Filters - Voltage Multiplier - Zener Regulators. 1 Total Hrs 12 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL AMPLIFIER Total Hrs 12 Amplification - Transistor Characteristic Curve - Transistor - Types - Transistor as Switch - Measuring gain - Common Emitter Amplifier - Stabilizing the Amplifier - Other Configurations. 3 LARGE SIGNAL AMPLIFICATION - OSCILLATORS Total Hrs 12 Basic features - Amplifier classification - Class A,B, AB, C and Switched Mode Amplifiers - Oscillators - SCR. 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes - Basic Logic Gates and Truth Tables - Boolean Algebra and De-Morgan's Theorem - Logic Circuits - Sum of Product Methods - Product of Sum Method - Simple Design of Combinational Logic Networks - Digital Arithmetic - Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12				L	Т	Р	С	CA	ES	Total
Objective(s) combinational and sequential circuits, study the design of digital system. 1 INTRODUCTION TO SEMICONDUCTORS AND DIODES Total Hrs 12 Introduction : Semiconductors - N-Type and P-Type - Majority and Minority Carriers - PN Junction Characteristics - Type and Applications - Power Supplies - Rectifier - Filters - Voltage Multiplier - Zener Regulators. 2 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL AMPLIFIER Total Hrs 12 Amplification - Transistor Characteristic Curve - Transistor - Types - Transistor as Switch - Measuring gain - Common Emitter Amplifier - Stabilizing the Amplifier - Other Configurations. 1 12 Basic features - Amplifier classification - Class A,B, AB, C and Switched Mode Amplifiers - Oscillators - RC, LC, Crystal and Relaxation Oscillators - SCR. 1 12 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes - Basic Logic Gates and Truth Tables - Boolean Algebra and De-Morgan's Theorem - Logic Circuits - Sum of Product Methods - Product of Sum Method - Simple Design of Combinational Logic Networks - Digital Arithmetic - Addition, Subtraction, Multiplication and Division of Binary Numbers. 12 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops - SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop - D Flip Flop - Registers - Types of Registers - Counters - Synchronous and Asynchronous Counters - BCD Decade Counter. 60	08210106S	ENGINEERING(Common to C		-	•	-	-			
Introduction : Semiconductors – N-Type and P-Type – Majority and Minority Carriers – PN Junction Characteristics – Type and Applications – Power Supplies – Rectifier – Filters – Voltage Multiplier – Zener Regulators. 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL Total Hrs 12 AMPLIFIER 12 Amplification – Transistor Characteristic Curve – Transistor – Types – Transistor as Switch – Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – SCR. 1 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 2 Alb	Objective(s) combinational and sequential circuits, study the design of digital system.									
Characteristics Type and Applications Power Supplies Rectifier Filters Voltage Multiplier Zener 2 TRANSISTORS-INTRODUCTION TO SMALL SIGNAL AMPLIFIER Total Hrs 12 Amplification Transistor Characteristic Curve Transistor Types Transistor as Switch – Measuring gain Common Emitter Amplifier Stabilizing the Amplifier Other Configurations. 12 Basic features Amplifier classification Otas A,B, AB, C and Switched Mode Amplifiers Oscillators - RC, LC, Crystal and Relaxation Oscillators SCR. Total Hrs 12 Binary number System and Codes Basic Logic Gates and Truth Tables Bolean Algebra and De-Morgan's Theorem Logic Circuits Sum of Product Methods Product of Sum Method Simple Design of Combinational Logic Networks Digital Arithmetic Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop D Flip Flop Registers Total Hrs 12 Flip Flops SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop	1 INTRO	DUCTION TO SEMICONDUCTO	ORS AND	DIOD	ES		Total H	lrs	12	
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Measuring gain – Common Emitter Amplifier – Stabilizing the Amplifier – Other Configurations. 3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – SCR. 1 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007. 1	AMPLI	FIER								
3 LARGE SIGNAL AMPLIFICATION – OSCILLATORS Total Hrs 12 Basic features – Amplifier classification – Class A,B, AB, C and Switched Mode Amplifiers – Oscillators – RC, LC, Crystal and Relaxation Oscillators – SCR. 1 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 12 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007. 1										vitch –
- RC, LC, Crystal and Relaxation Oscillators – SCR. 1 4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.										
4 DIGITAL LOGIC AND COMBINATIONAL CIRCUITS Total Hrs 12 Binary number System and Codes – Basic Logic Gates and Truth Tables – Boolean Algebra and De-Morgan's Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.				3, AB,	Са	nd Sv	witched Mo	de Amp	olifiers – Os	cillators
Theorem – Logic Circuits – Sum of Product Methods – Product of Sum Method – Simple Design of Combinational Logic Networks – Digital Arithmetic – Addition, Subtraction, Multiplication and Division of Binary Numbers. 5 SEQUENTIAL LOGIC CIRCUITS Total Hrs 12 Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. 60 Total hours to be taught 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.				UITS			Total H	rs	12	
Flip Flops – SR Flip Flop, Clocked SR, Master Slave, SR, JK Flip Flop – D Flip Flop – Registers – Types of Registers – Counters – Synchronous and Asynchronous Counters – BCD Decade Counter. Total hours to be taught 60 Reference (s) : 1 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.	Theorem – L Combinational Numbers.	ogic Circuits – Sum of Proc Logic Networks – Digital Arithme	duct Met	hods	– Pro	duct of	of Sum M , Multiplicati	ethod – ion and	Simple De Division of	sign of
Registers Counters Synchronous and Asynchronous Counters BCD Decade Counter. Total hours to be taught 60 Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.								-		
Reference (s) : 1 Charles A Schuler, "Electronics Principles and Applications", 6 th edition, McGraw Hill, 2003. 2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.										/pes of
 Charles A Schuler, "Electronics Principles and Applications", 6th edition, McGraw Hill, 2003. Albert Malvino, David J Bates, "Electronic Principles", 7th Edition, TMH, 2007. 	Total hours to	be taught							60	
2 Albert Malvino, David J Bates, "Electronic Principles", 7 th Edition, TMH, 2007.	Reference (s)	:								
	1 Charles	A Schuler, "Electronics Principle	es and Ap	oplicati	ons",	6 th ed	ition, McGra	aw Hill,	2003.	
3 Santiram Kal, "Basic Electronics", PHI, 2002.	2 Albert M	Aalvino, David J Bates, "Electron	ic Princip	les", 7	th Ed	ition,	ГMH, 2007.			
	3 Santira	m Kal, "Basic Electronics", PHI, 2	2002.							

	Rangasamy College of Techn	ology - A	Autono	omou	s Reg	ulation		R 2	800
Department	Information Technology	Progra	amme	Code	&Nam	e In	21: B formation	5.Tech. <u>Technol</u>	ogy
		Seme	ster I						
Course Code	Course Name		Hou	rs / W	/eek	Credit	Max	kimum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Tota
08210107P	APPLIED PHYSICS LABORA	SICS LABORATORY		DRY 0 0 3 2 50		50 50 a's in optics, acousti		100	
Objective(s)	material science and propertie fundamental constants like ac of bad conductor etc.,								uctivity
 Determ Determ 	ination of rigidity modulus of a w ination of Young's modulus of th ination of Young's modulus of th	he materi							
 Determ Determ Determ Determ Determ Determ Determ Determ Determ 	ination of Viscosity of liquid by F ination of acceleration due to gr ination of wavelength of mercur ination of thickness of fiber by A ination of wavelength of laser us ination of velocity of ultrasonic v ination of band gap energy of a ination of radius of curvature of ination of thermal conductivity o	Poiseuille ravity by o ry spectru Air-wedge sing grati waves an semicon a Plano	al of a s's met compo im by s metho ing and ing and ductor convex	unifo hod. und (I Spectro d I parti press	rm bar par) pe romete cle siz ibility u by Ne ^r	by uniform ndulum. r grating. e determina sing ultrasc wton rings n	tion nic interfo	method. erometer	
 Determ Determ Determ Determ Determ 10. Determ 11. Determ 12. Determ 	ination of Viscosity of liquid by F ination of acceleration due to gr ination of wavelength of mercur ination of thickness of fiber by A ination of wavelength of laser us ination of velocity of ultrasonic v ination of band gap energy of a ination of radius of curvature of ination of thermal conductivity o	Poiseuille ravity by o ry spectru Air-wedge sing grati waves an semicon a Plano	al of a s's met compo im by s metho ing and ing and ductor convex	unifo hod. und (I Spectro d I parti press	rm bar par) pe romete cle siz ibility u by Ne ^r	by uniform ndulum. r grating. e determina sing ultrasc wton rings n	tion nic interfo	method. erometer	
 Determ 	ination of Viscosity of liquid by F ination of acceleration due to gr ination of wavelength of mercur ination of thickness of fiber by A ination of wavelength of laser us ination of velocity of ultrasonic v ination of band gap energy of a ination of radius of curvature of ination of thermal conductivity o	Poiseuille ravity by o ry spectru Air-wedge sing grati waves an semicon a Plano of a bad c	al of a s's met compo im by s metho ing and do com ductor convex conductor	unifo hod. und (I Spectro d I parti press c lens tor us	rm bar par) pe romete cle siz ibility u by Ne ing Lee	by uniform indulum. ir grating. e determina sing ultrasc wton rings n e's disc met	tion nic interfo	method. erometer	

K.S.	Rangasamy College of Tech	nology - Au	tonon	nous I	Regula	ation		R 2	008
Department	Information Technology	Program	nme C	ode &	Name		21: Informatio	B.Tech. on Techn	ology
		Semeste	r I						
Course Code			Ηοι	ırs / W	/eek	Crec	lit Ma	ximum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210108P	ELECTRICAL ENGINEERIN LABORATORY	١G	0	0	3	2	50	50	100
Objective(s)	To import the practical know applications of Electrical and					lectron	ics devices	, underst	and the
 Verificat Measure Open C 	PERIMENTS tion of Ohm's law and Kirchho ement of Power and Impedanc ircuit and Load Characteristics	ce in RL, RC				erator			
	est on DC Shunt motor est on Single Phase Transform	ner							
	est on Single Phase and Three		ction N	lotor					
	Phase Half Wave Full Wave Re	ectifiers							
	f Passive Filters								
•	f Voltage Regulator Circuits f SMPS and UPS								

K.S	Rangasamy College of Techr	nology - Auto	onom	ous R	Regulat	tion		R 2	800
Department	Information Technology	Program	me C	ode &	Name	In	21: B formation	.Tech. Techn	ology
		Semester I				•			
a a l			Hou	irs / W	/eek	Credit	Maxi	mum M	larks
Course Code	Course Name		L	Т	Р	С	CA	ES	Tota
08210109P	ELECTRONICS ENGINEERIN LABORATORY	IG	0	0	3	2	50	50	100
Objective(s)	components, study the applic study and implement the com gates. PERIMENTS								
 Forward Impleme Input an Frequent Observation Observation Impleme Charactt Relaxatiti Verificatt Half add Impleme 	and Reverse characteristics of entation of HW & FW Rectifier wi d Output characteristics of BJT i icy response of Common Emitte ation of output waveform with cro	ith simple Cap n CE configu r Amplifier oss over disto study the wa Logic Gates nd Full subtra table RS, D a	ctor nd T f	r Filte	class B			ymmetr	у

K.S.R	angasamy College of Techno	logy - Ai	utono	mous	Regu	lation		R 2	2008
Department	Information Technology	Progra	amme	Code	&Nam	ne I		B.Tech. on Techn	ology
	1	Semes							
Course Code	Course Name			irs / W		Credit		ximum M	1
	ENGINEERING PRACTICES		L	Т	Р	С	CA	ES	Total
08210110P	LABORATORY		0	0	3	2	50	50	100
Objective(s)	To provide exposure to the st practices in Mechanical Engin		vith ha	nds o	n expe	erience on	various	basic en	gineering
LIST OF EXERC	CISES								
Plumbing									
 Study of Cutting a Study of Study of Measuri 	spects in Plumbing. tools and equipments – prepar and Threading of G.I. Pipes valves, taps and repairing. ng and marking practice of PVC				ection	to service	line		
Sheet Metal									
 Drawing Differer 	f Tools, Equipments and Safety g of tools and accessories nt types of joints making – knocł making –Trays, Baskets and Fu	ked up, c		groov	ring joi	nts			
Electrical Wiring									
 Study of Wiring c Wiring c 	spects of Electrical wiring Electrical materials and wiring ircuit for a lamp using single and ircuit for fluorescent lamps ion of power and energy.			itches					
Welding and Sc	ldering								
 Study of Welding 	spects of Welding and Solderin Gas and Arc Welding Equipme of Lap, Butt, T-joints & Corner g of Small Electrical and Electro	ents Joints	uits						

	K.S.Ra	ngasamy College of Tech	nology - Autonon	nous	Regu	latior	1		R 2008	}
Depa	artment	Information Technology	Programme Cod		ame			21: B.Te nation Te		ау
			Semeste				[T		
Cou	rse Code	Course N	ame	Hou	rs / W	/eek	Credit	Ma	ximum	
				L	Т	Р	С	CA	ES	Total
082	10201G	COMMUNICATION SK (Common to all B.E./B. programmes)	Tech.	3	0	0	3	50	50	100
Obje	ective(s)	To equip students of English, help them de from college to workp performance at placem	velop their soft ski blace smoother, he	lls an elp th	d pec em to	ple s o exc	kills, whicl el in their	h will ma jobs, e	ike the nhance	transition students
1	LISTEN	ling				Тс	otal Hrs		9	
etc, L	istening	tening, Listening to acade to news on the radio / TV,				on, Li	stening to		ch.	, airports,
2		UNICATION nunication? - What does it					otal Hrs		9	
3 Using repeti -Leav Remi	CONVE the tele itions - S ving mes nding -	ople - place - things and ever ERSATION SKILLS ephone - Preparing for a spelling out names or word ssages on answering ma Agreeing / disagreeing –	call - Stages of a s. Giving informatio ichines - Making	on on / cha	the pl anging	dling hone gapp	 Making r ointments 	equests - Makii	- Answ ng con	ering calls
respo 4		instructions. DIAL GRAMMAR & VOCA	BULARY			To	otal Hrs		9	
Phras	ect – vert sal verbs	o agreement - Tenses - 'D - Correct use of words - ds - Common errors & rem	o' forms - Active a Use of formal wor			voice	- Use of			
5		EN COMMUNICATION & (Тс	otal Hrs		9	
letters	s - Facin	s - Writing Reports - Note g an interview - Presentatio				- Pre	paring cu	rriculum	vitae ai	nd cover -
Total	Hours to	be taught							45	
Text	book(s):									
1	Ltd., Ne	Ashraf, "Effective Techni w Delhi, 2005.	cal Communicatior	n", 1 st	Editic	on, Ta	ita McGra	whil Pub	lishing	Company
	rence(s)						-			
1	Cambrid	ai Dutt P, Geetha Rajeeva dge University Press India	Pvt. Ltd.,						Skills", I	by Ebek –
2		o, cup "Telephoning in Engl								
3		, "New Interchange Servio dge University Press India		ok)" –	Intro	ductio	n, Level -	- 1, Leve	I – 2, I	Level – 3,

K.S.Ran	gasamy College of Techno	ology - Au	tonom	ous	Regu	lation		R	2008
Department	Information Technology	Program	me Co	de &	Name	•		21: B.Teo ation Teo	
		Se	mester	· II					
Course Code	Course Nome		Hour	s / W	eek	Credit		Maximu	m Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210202G	ENGINEERING MATHEM (Common to all B.E./B.Te programmes)	ch.	3	1	0	4	50	50	100
Objective(s)	The course is aimed at d are imperative for effective serve as basic tools for mechanics, field theory ar	ve understa specialized	anding d studie	of er es in	nginee many	ering subj / enginee	ects. T	he topics	introduced will
I MULTIPI	LE INTEGRALS				То	tal Hrs		1	2
curves – Area (Simple proble	tion in Cartesian and Pola as double integrals – Trip ms only). R CALCULUS				sian c			olume as	
	gence and curl – Line, sur out proof) – Verification of t								
	IC FUNCTIONS					tal Hrs	lintegia		2
Sufficient cond	complex variable – Analyti itions (excluding proof) – P ons - Conformal mapping: w	roperties o	f analy	tic fu	nction	– Harmo	nic cor		
	PLEX INTEGRATION					tal Hrs		1	2
Singularities -	rem (without proof) – Cau Classification – Cauchy's iding poles on real axis).								
	E TRANSFORM				То	tal Hrs		1	2
Derivatives an theorems – Tr Convolution th	form – Conditions for exi- d integrals of transforms ansform of unit step funct eorem – Solution of linea equations with constant coel	– Transfor ion – Tran ar ODE of	ms of sform secon	deriv of pe d or	vatives eriodic der w	s and int function ith const	egrals s. Invei	– Initial a rse Lapla	and final value ce transform –
Total hours to I			<u> </u>					6	0
Text book(s)::							I		
	an. T., "Engineering Mathe y Limited, New Delhi, 2005.		r first y	′ear)"	, Fou	rth Editio	n Tata	McGraw-	Hill Publishing
Reference(s) :									
1 Kandasa Delhi 20	my. P, Thilagavathy. K and 07.	Gunavath	у. К, "Е	Ingin	eering	Mathem	atics" -	S.Chand	and Co. – New
2 Grewal.	B.S., "Higher Engineering M	lathematic	s", Thir	ty Eig	ghth E	dition, Kh	anna P	ublishers	, Delhi, 2004.
Singapor	. E., "Advanced Engineerin re 2001.	-		•			-		
	raman.M.K, "Engineering N Pub. Co., Chennai, 2004.	lathematic	s", Vol	ume	&	Revised	Enlarg	ed Fourt	h Edition", The

K.S.Ran	gasamy College of Technology - A			-				R 2008
Department	Information Technology	Pro	ogram	me C ame	ode &	ı.		: B.Tech. ion Technology
-		Semes		ame			morriali	ion rechnology
	1		rs / We	ook	Credit		Maxir	num Marks
Course Code	Course Name	L	Т	P	C	CA	ES	Total
	MATERIALS SCIENCE	-	•	•	Ũ	0/1		i otai
08210203S	(Common to all B.E./B.Tech. programmes except Nano)	3	0	0	3	50	50	100
Objective(s)	To impart fundamental knowledge of conducting, superconducting engineering materials and nanom	and	magne	etic n	naterials,	applic		
1 CONDUC MATERIA	TING AND SUPERCO				tal Hrs	<i>.</i>		9
superconducto superconducto Magnetic levit	f Ohm's law - Classical free ele ors - Critical field - Meissner's el ors - Josephson effect (qualitative) ation. NDUCTING MATERIALS	ffect -	Isotop	pe eff perco	ect - BC	S theo	ory - Ty	pe I and Type
concentration temperature a Applications.	d Compound semiconductors - In in intrinsic and extrinsic semicondu and impurities - Hall effect - Hall	ctors (d	derivat	ion) - Expe	Fermi le	vel - V	ariation	of Fermi level wit
Classification	of magnetic materials - Properties - oft magnetic materials - Ferrites - S Bubble memory - Magnetic tape - Flo	Structu	re, Pre	and D eparat	omain the	Applica		
4 DIELECT	RIC MATERIALS			То	tal Hrs			9
dependence c - Dielectric los 5 NEW EN Shape Memo Preparation, F and Nanolitho	Polarization: Electronic , Ionic, Ori of polarization - Active and Passive of sess - Dielectric breakdown mechanic GINEERING MATERIALS my Alloys (SMA): Characteristics, Properties and Applications. Nanoma ography - Bottom-up process: Vapo tion and applications.	lielectri ism - Fo Properi aterials	c - Inte erroele ties of : Fabri	ernal f ectric To NiTi icatior	field - Clau materials: tal Hrs alloy and n methods	usius -f Proper d appl	Vosotti i rties and ications -down p	relation (derivation <u>d Applications.</u> 9 , Metallic glasses process: Ball Millin
Total hours to								45
Text book(s):								
	Science", 1st Editon, Authored by D	ept. of	Physic	cs KS	RCT, 200	8.		
		-	-					
Reference(s)		ring", P	rentic	e Hall	of India, I	Vewde	lhi, 2001	1.
Reference(s) 1 Raghava	:	•				Vewde	lhi, 2001	1.
Reference(s) Reference(s) 1 Raghava 2 Rajendra	: n V,"Materials Science and Enginee	raw Hil	l, New	delhi,	2005.		lhi, 2001	1.
Reference(s) Raghava Rajendra Palanisar 	: n V,"Materials Science and Enginee n V., "Materials Science", Tata McG	raw Hil CH Pul	l, New blicatio	delhi, ons, C	2005. Chennai, 2	002.	·	1.

K.S	Rangasamy College of Technology	- Auton	omous	s Regul	ation			8008
Department	Information Technology	Program	nme Co	ode & N	lame li	21: nformatio	B.Tech on Tech	
	Se	mester II						
Course Code	Course Name	Hou	rs / We	ek	Credit	Ma	ximum r	narks
Course Coue	Course Marine	L	Т	Р	С	CA	ES	Total
08210204G	ENVIRONMENTAL SCIENCE (Common to all B.E./B.Tech. programmes)	3	0	0	3	50	50	100
Objective(s)	The student should be conversant wi environmental studies, various natur Significance and protection of bio div significant international conventions a	al resour rersity an	ces an d vario	d the c us form	urrent threa s of enviro	ats to the nmental	eir susta degrada	ainability
1 ATMOSF	PHERE AND ECOSYSTEM			То	tal Hrs		9	
warming – Cli ecosystem – s Ecological su	zone depletion – Air pollution – sour mate change – Acid rain - Planet Ear structure and functions of ecosystem- iccession-Food chains-Food webs- ures and function of forest, grassland a pario	th – Bios produce Ecologic	sphere rs, con cal py	 Hydr sumers ramids- 	osphere – and decor Introduction	Lithosph mposers n, types	nere. Co - Enero s, char	oncept of gy flow - acteristic
	RESOURCES AND ITS TREATMENT			To	al Hrs		9	
Land – weath deforestation- solid and haz current scenar		g – types d degrada	ation –	– soil e feature	s of desert	 geoch 	nemical	cycling -
4 FUTURE	POLICY AND ALTERNATIVES			To	al Hrs		9	
energy – geot policy Case	and alternatives – fossil fuels – nucl hermal energy – tidal energy – susta Studies in current scenario. RSITY AND HUMAN POPULATION			n powe				
Introduction to Biogeographic biodiversity in environment p environment a	Bio diversity-Definition, genetic species al classification of India – Biodiversit India – threats to biodiversity – endem protection act – issues and possible nd human health - Case Studies in cur	y in India ic and er solutior	a – Ind idange i – po	em diver lia as r red- ha	rsity. nega divers bitat – cons	servation	on – ho of biod ion exp	iversity -
Total hours to	be taught						45	
Text book :								
	nental Science by R.Palanivelu, R.Pari	imalam, a	and B.S	Srividhy	а.			
2005.	Williams – "Environmental Science E				raHill Publi	ishing C	ompany	Limited
2. G. Tyler	Miller, JR _ "Environmental Science ",	Thomsor	ו, 200 <mark>4</mark>					
	P. Cunningham – "Principles of Enviror							
	a Erach –"The Biodiversity of INDIA", N	-						
	R.K., "Hand Book of Environmental I & II, Environmedia.	Laws, R	ules, (Guidelir	ies, Compl	liances	and Sta	andards'

K.S.R	angasamy College of Techn	ology - Aut	onomo	ous R	egula	tion		R 2	008
Department	Information Technology	Progra	mme C	ode &	Nam	е		21: B.Tec ation Tec	
		Seme	ster II						
			Hour	s/We	ek	Credit	N	laximum	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210205S	FUNDAMENTALS OF PROGRAMMING Common to ECE,EEE,CSE		3	1	0	3	50	50	100
Objective(s)	To impart knowledge in the devices.	e fundamen	tals of	comp			ramming	g langua	ge, storage
I COMPU	TER BASICS				Тс	otal Hrs		12	
Storage- Input	computers- Generations of o Output Media - Algorithm- Fle Computer Software- Definition	owchart- Ps	eudo co	ode –	Prog				
2 C FUND	AMENTALS				Тс	otal Hrs		12	
operations- De	C- Constants- Variables- Da		perator	s and	Exp	ressions-	Managii	ng Input	and Output
3 ARRAYS	S AND FUNCTIONS				Тс	otal Hrs		12	
Arrays- Chara	cter Arrays and Strings- User	defined fund	ctions- S	Storag	je Cla	isses			
4 STRUCT	URES AND FILES				Тс	otal Hrs		12	
Structures- De Unions- File M	efinition- Initialization- Array of lanagement.	Structures-	Structu	ures v	vithin	structures	s- Struct	ures and	Functions-
5 POINTEI					Тс	otal Hrs		12	
Pointers and s		ers and array	y Pointe	ers an	d cha	aracter str	ing Poin		functions –
Total hours to								60	
Text book (s)									
	entals of Programming", Tech		shers 2	008.		ngi, D.I	Muthusa	ankar,	P.Kaladevi
•	irusamy, "Programming in AN	SI C", TMH,	New D	elhi, 2	2002.				
Reference(s):									
-	an V, "Fundamentals of Comp			-	H 200	06.			
2 Byron Go	ottfried, "Programming with C"	, II Edition,	ГМН, 20	002.					

n.,	S.Rangasamy College of Techno	ology - A	utono	omou	s Reg	ulation		R 2	800
Department	Information Technology	Proę	gramn	ne Co	de & I	Name	Inforr	21: B.Tec nation Tec	
		Semes	ster II						
Course Code	Course Name		Hou	rs / W	eek	Credit	Ν	/laximum N	larks
Course Coue			L	Т	Р	С	CA	ES	Total
08210206S	BASICS OF CIVIL AND MECHANICAL ENGINEERING (Common TO CSE&IT)		4	0	0	4	50	50	100
Objective(s)	At the end of this semester, components of structures and b					onversant	in prop	erties of r	naterials,
1 INTI	RODUCTION					Total H	rs	10	
	Civil Engineering – Materials – bi s. Bearing capacity – loads – Req							steel section	ons – site
2 SUF	ERSTRUCTURE					Total H	rs	10	
valuation me of Interior and	e – brick masonry – stone mason chanics – internal and external for I Landscaping. VEYING						sridges		 Basics
Survevina –	Dbjects – types – classification –	principle	s – m	neasu	remer	nts of dista	nces –	angles - I	evelina —
	of areas – illustrative examples.	F							5 5
4 POV	VER PLANT ENGINEERING					Total H	rs	10	
Nuclear Powe	Classification of Power Plants – er Plants – Merits and Demerits – and double acting) – Centrifugal F	Pumps a							
	NGINES					Total H	rs	10	
	ustion engines as automobile pow o stroke cycles – Comparison of fo								
stroke and tw		our shoke	and	two si	lioke	engines – c			lant.
	RIGERATION AND AIR CONDITI					Total H		10	
6 REF Terminology		IONING S iing. Prine	SYSTE	EM of vap	oour c	Total H ompressior	rs n and a	10	
6 REF Terminology	RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window	IONING S iing. Prine	SYSTE	EM of vap	oour c	Total H ompressior	rs n and a	10	system –
6 REF Terminology Layout of typi	RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught	IONING S iing. Prine	SYSTE	EM of vap	oour c	Total H ompressior	rs n and a	10 bsorption	system –
6 REF Terminology Layout of typi Total hours to Reference(s) 1 Sha New	RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught nmugam G. and M.S. Palanisamy Delhi, 1996.	IONING S ing. Prine w and Spl , "Basic C	SYSTI ciple (lit type Civil ar	EM of vap e roon	oour c n Air c chani	Total Hi ompressior onditioners cal Enginee	rs and a	10 bsorption 60 MH Publis	system –
6 REF Terminology Layout of typi Total hours to Refererce(s) 1 Sha New 2 Ran	RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught nmugam G. and M.S. Palanisamy Delhi, 1996. amrutham S. "Basic Civil Enginee	ONING S ing. Princ w and Spl , "Basic C ering", Da	SYSTE ciple (lit type Civil ar	EM of vap roon nd Me Rai Pu	pour c n Air c chani	Total H ompression onditioners cal Enginee	rs and a a. ering", T	10 bsorption 60 MH Publis 9 Edition.	system –
6REFTerminologyLayout of typiTotal hours toReference(s)1ShaNew2Ran3Sha	RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught nmugam G. and M.S. Palanisamy Delhi, 1996. namrutham S. "Basic Civil Enginee nmugam G., Basic Mechanical Er	ONING S ing. Princ w and Spl , "Basic C ering", Da ngg. , TM	SYSTE ciple o lit type Civil ar npat F	EM of vap roon nd Me Rai Pu	oour c n Air c chanie ublishi ng Co.	Total Hi ompression onditioners cal Enginee ng Compar , New Delh	rs and a 	10 bsorption 60 MH Publis Edition.	system –
6 REF Terminology Layout of typi Total hours to Refererce(s) 1 Sha New 2 Ran 3 Sha 4 Ven Kurr	RIGERATION AND AIR CONDITI of Refrigeration and Air condition cal domestic refrigerator – Window be taught nmugam G. and M.S. Palanisamy Delhi, 1996. amrutham S. "Basic Civil Enginee	IONING S ing. Prin w and Spl , "Basic C ering", Da ngg. , TM V., "Basi	SYSTE ciple o lit type Civil ar npat F IH Put ic Me	EM of vap roon nd Me Rai Pu plishir echan	oour c n Air c echanie ublishi ng Co. ical	Total Hi ompression onditioners cal Enginee ng Compar , New Delh Engineering	rs n and a ering", T ny, 1999 i, 2005. g", Anu	10 bsorption 60 MH Publis Edition.	hing Co.,

K.S	Rangasamy College of Technology	ogy - Au	Itono	mous	Regu	ulation		R	2008
Department	Information Technology	Pro	gramr	ne Co	de &	Name	Inforr	21: B.Te nation Te	ch. chnology
		Semest	ter II						
Course Code	Course Name		Hou	rs / W	'eek	Credit	N	laximum	Marks
Course Code	Course Name		L	Т	Ρ	С	CA	ES	Total
08210207P	ENGINEERING GRAPHICS LABORATORY		1	0	3	3	50	50	100
Objective(s)	Use of drawing board and mini communication of concepts and obtained by training them to ur engineering objects and compute	ideas in nderstan	the d obj	desi ects	gn o by ma	f engineer aking free chniques.	ing pr hand s	oducts a sketches	are to be of simple
1 CONCE	PTS AND CONVENTIONS					Total H	lrs		4
techniques - drawing shee 2 CURVE Primitive and	conventional and computer met relative merits and demerits – 2 ts – Lettering and dimensioning S AND SHAPES USED IN ENGINI Prismatic shapes - Conics – ellips – ellipsoid, paraboloid and normals – mathematical requi	2D and - conve EERING se, parat hyperbo	3d m entions PRO pola a loid	nodeli s follo DUCT nd hy – inv	ng - s owed. S vperbo volute	specification Total H bla – equat s and c	ns of Irs ions us ycloids	size and ed and – appl	layout of 4 parametric lications -
	normalo matiomatical roqu) - u		ponte	and and a	ppnout		0 0
products. 3 FREE H	AND SKETCHING PRACTICES					Total H	Irs		7
products. 3 FREE H Representatio orientations - multiple views multiple views	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj s from pictorial views of obj – simple exercises to practice.	s – Nee ection - ects –	ed for	· and elopir	impo ng sk	Total H ortance of ills through orial) repres	Irs multip n free sentatio	ole views hand sko n of obj	7 and their etching of ects from
products. 3 FREE H Representatio orientations - multiple view multiple views 4 DEVELO	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC	s – Nee ection - ects – TICES	ed for Dev isom	· and elopir etric	impo ng sk (picto	Total H ortance of ills through orial) repres	Irs multip n free sentatio	ole views hand sko n of obj	7 and their etching of ects from 5
products. 3 FREE H Representation - orientations - - multiple views - 4 DEVELO Development - freehand skete	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj s from pictorial views of obj – simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises to	s – Nee ection - ects – TICES d trunca	ed for Dev isom	· and elopir etric	impo ng sk (picto	Total H ortance of ills througl orial) repres Total H ms, pyram	Irs multip n free sentatio Irs ids, cyl	le views hand ski n of obj inders ar	7 and their etching of ects from 5 nd cones -
products. 3 FREE H Representation - orientations - multiple view multiple view 4 DEVELO Development freehand sketo 5 2D DRA	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj s from pictorial views of obj – simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises t FTING	s – Nee ection - ects – TICES d trunca to practic	ed for Dev isom ted so	and elopir etric olids	impo ng sk (picto – pris	Total H ortance of ills througl orial) repres Total H ms, pyram Total H	Irs multip n free sentatio Irs ids, cyl	ble views hand sk n of obj inders ar	7 and their etching of ects from 5 nd cones -
products. 3 FREE H Representation representations - multiple view multiple view 4 DEVELO Development freehand skete 5 2D DRA Importance o wiring diagra using appropri	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises t .FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages.	s – Nee ection - ects – TICES d trunca to practic	ed for Dev isom ited so ce.	and elopir etric olids	impong sk (picto – pris	Total H ortance of ills througl orial) repres Total H ms, pyram Total H simple and	Irs multip multip freesentatio Irs ids, cyl	ble views hand sk n of obj inders ar 2 ple) dime	7 and their etching of ects from 5 nd cones - 20 nsioning -
products. 3 FREE H Representation representations - multiple view multiple view 4 DEVELO Development freehand skete 5 2D DRA Importance o wiring diagra using appropri	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises t .FTING f 2D drafting – sketching, mirror m and piping layout drawings	s – Nee ection - ects – TICES d trunca to practic	ed for Dev isom ited so ce.	and elopir etric olids	impong sk (picto – pris	Total H ortance of ills througl orial) repres Total H ms, pyram Total H simple and	Irs multip n free sentatio Irs ids, cyl Irs d multi Drafting	ole views hand sk n of obj inders ar 2 ple) dime g and din	7 and their etching of ects from 5 nd cones - 20 nsioning -
products. 3 FREE H Representation orientations - multiple views 4 DEVELO Development free⊢and skete 5 2D DRA Importance o wiring diagra using appropri 6 SOLID I 3D modeling techniques - flange coupling	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises t .FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages.	s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co pomputer	ed for Dev isom ited so ce. caling, tice of netry omple moni	and elopir etric olids copy of C (CSC x eng tor, sl	impo ng sk (picto – pris /ing (ompu G) ar jineeri otted	Total H ortance of ills through orial) repres Total H ms, pyram Total H simple and ter Aided Total H and bounda ang product angle rack	Irs multip n free sentatio Irs ids, cyl Irs d multi Drafting Irs rep s – tat and su	ole views hand sk n of obj inders ar ple) dime g and din g and din g and din cresentati ole, chair uch other	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) -, V-block,
products. 3 FREE H Representation orientations - multiple views 4 DEVELO Development freehand skete 5 2D DRA Importance o wiring diagra using appropri 6 SOLID I 3D modeling techniques - flange coupling	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and ching practices - simple exercises to FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages. MODELING techniques - constructive solis solid modeling of simple and mode ng (one) half, bolts and nuts, co- lid modeling and extraction of 2D	s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co pomputer	ed for Dev isom ited so ce. caling, tice of netry omple moni	and elopir etric olids copy of C (CSC x eng tor, sl	impo ng sk (picto – pris /ing (ompu G) ar jineeri otted	Total H ortance of ills through orial) repres Total H ms, pyram Total H simple and ter Aided Total H and bounda ang product angle rack	Irs multip n free sentatio Irs ids, cyl Irs d multi Drafting Irs rep s – tat and su	ole views hand sk n of obj inders ar ple) dime g and din g and din cresentati ble, chair uch other s.	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) -, V-block,
products. 3 FREE H Representation orientations - multiple views 4 DEVELO Development freehand sketo 5 2D DRA Importance o wiring diagra using appropri 6 SOLID I 3D modeling techniques - flange coupling	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and ching practices - simple exercises to FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages. MODELING techniques - constructive solid solid modeling of simple and mode ing (one) half, bolts and nuts, co lid modeling and extraction of 2D be taught	s – Nee ection - ects – TICES d trunca to practic pring, sc - Pract id geon erately co pomputer	ed for Dev isom ited so ce. caling, tice of netry omple moni	and elopir etric olids copy of C (CSC x eng tor, sl	impo ng sk (picto – pris /ing (ompu G) ar jineeri otted	Total H ortance of ills through orial) repres Total H ms, pyram Total H simple and ter Aided Total H and bounda ang product angle rack	Irs multip n free sentatio Irs ids, cyl Irs d multi Drafting Irs rep s – tat and su	ole views hand sk n of obj inders ar ple) dime g and din g and din cresentati ble, chair uch other s.	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) 7, V-block, products -
products. 3 FREE H Representation orientations - multiple views 4 DEVELO 0 Development freehand sketu 5 2D DRA 1 Importance on wiring diagra using appropring 6 SOLID IN 3D modeling techniques - flange coupling Fractice of soc Soc Total hours to Reference (s) Reference (s)	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and ching practices - simple exercises to FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages. MODELING techniques - constructive solid solid modeling of simple and mode ing (one) half, bolts and nuts, co lid modeling and extraction of 2D be taught	s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract ring geon erately co omputer views us	ed for Dev isom ited so ce. caling, tice of netry omple moni sing a	copy of C (CSC x eng tor, sl	impo ng sk (picto – pris ving (ompu G) ar jineeri otted priate	Total H prtance of ills through prial) represe Total H ms, pyram Total H simple and ter Aided Total H nd bounda ing product angle rack software pa	Irs multip multip freesentatio ids, cyl ids, cyl Irs d multip Drafting Irs and su ackages	ole views hand sk n of obj inders ar ple) dime g and din g and din cresentati ble, chair uch other s.	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) 7, V-block, products -
products.3FREE HRepresentatioorientations -multiple views4DEVELODevelopmentfreehand skete52D DRAImportance owiring diagrausing appropri6SOLID I3Dmodelingtechniques -flange couplinPractice of soTotal hours toReference (s)1Dhanan	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple and ching practices - simple exercises to FTING f 2D drafting – sketching, mirror m and piping layout drawings late software packages. MODELING techniques - constructive solis solid modeling of simple and mode ing (one) half, bolts and nuts, co lid modeling and extraction of 2D be taught :	s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract id geon erately co omputer views us ", Tata M	ed for Dev isom ited so ce. caling, tice of moni sing a	and elopir etric olids copy of C (CSC x eng tor, sl pprop w Hill	impo ng sk (picto – pris /ing (ompu G) ar jineeri otted priate	Total H prtance of ills through prial) represe Total H ms, pyram Total H simple and ter Aided Total H nd bounda ng product angle rack software pa	Irs multip multip free sentatio ids, cyl ids, cyl Irs dis, cyl Irs dis	inders ar ple) dime g and din presentati ple, chain uch other s.	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) -, V-block, products - 50
products. 3 FREE H Representation orientations - multiple views 4 DEVELO 4 DEVELO 5 2D DRA Importance o wining diagra using appropri 6 3D modeling techniques - flange coupling Practice of soc Total hours to 1 Dhanan 2 K.V.Nata	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises to FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages. MODELING techniques - constructive soli- solid modeling of simple and mode ing (one) half, bolts and nuts, co- lid modeling and extraction of 2D be taught : ay.A. Jolhe, "Engineering Drawing	s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract id geon erately co omputer views us ", Tata M	ed for Dev isom ited so ce. caling, tice of metry omple moni sing a AcGra phics'	and elopir etric olids copy of C (CSC x eng tor, sl pprop w Hill , Dha	impo ng sk (picto – pris /ing (ompu G) ar jineeri otted oriate Publi analal	Total H ortance of ills through orial) represe Total H ms, pyram Total H simple and ter Aided Total H nd bounda ng product angle rack software pa	Irs multip multip free sentatio ids, cyl ids, cyl Irs dis, cyl Irs dis	inders ar ple) dime g and din presentati ple, chain uch other s.	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) -, V-block, products - 50
products. 3 FREE H Representation orientations - multiple views 4 DEVELO 4 DEVELO 0 Development free⊢and sketu 5 2D DRA Importance o wiring diagra using appropri 6 SOLID I 3D modeling techniques - flange couplin Practice of sc Total hours to Reference (s) 1 Dhanan 2 K.V.Nata 3 M.B. Sh	AND SKETCHING PRACTICES n of Three Dimensional objects - Concept of orthographic proj- s from pictorial views of obj - simple exercises to practice. DPMENT OF SURFACES – PRAC of lateral surfaces of simple an ching practices - simple exercises to FTING f 2D drafting – sketching, mirror m and piping layout drawings iate software packages. MODELING techniques - constructive soli- solid modeling of simple and model- ing (one) half, bolts and nuts, co- lid modeling and extraction of 2D be taught : ay.A. Jolhe, "Engineering Drawing araajan "A text boo o Engineering	s – Nee ection - ects – TICES d trunca to practic oring, sc - Pract id geon erately co omputer views us ", Tata M ring Gra rawing",	ed for Dev isom ited so ce. caling, tice of moni sing a AcGra phics' Pears	elopir etric olids copy of C (CSC x eng tor, si pprop w Hill , Dha on Ec	impo ng sk (picto – pris /ing (ompu G) ar jineeri otted priate Publi analal ducati	Total H prtance of ills through prial) represe Total H ms, pyram Total H simple and ter Aided Total H nd bounda ing product angle rack software pa shing Co., 2 ishmi Publo on, 2005.	Irs multip multip free sentatio lrs dids, cyl lrs dids, cy	ole views hand sk n of obj inders ar 2 ple) dime g and din 2 presentati ble, chair uch other 5. Chennai,	7 and their etching of ects from 5 nd cones - 20 nsioning - nensioning 20 on (BRep) r, V-block, products - 50 2006.

	K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 2	800
Depa	rtment	Information Technology	Pro	gramr	ne Co	de &N	lame		1: B.Tech	-
•			Seme	•				Informa	ation Tech	nology
		[Seme		() 4	, <u>,</u>			· •	
Cours	e Code	Course Name			rs / W		Credit	-	ximum M	
				L	Т	Р	С	CA	ES	Total
0821	0208P	APPLIED CHEMISTRY LABORATORY		0	0	3	2	50	50	100
Obje	ective	Educate the theoretical conce	pts Expei	riment	ally.					
		A)	ny 10 ex	perime	ents)					
1.	Estim	ation of hardness of water by E	DTA.				1	otal Hrs		3
2.	Estim	ation of alkalinity of water samp	ole.				7	otal Hrs		3
3.	Estim	ation of chloride content in wate	er sample).			1	otal Hrs		3
4.	Deter	mination of dissolved oxygen in	boiler fe	ed wa	ter.		1	otal Hrs		3
5.	Deter	mination of water of crystallization	ion of a c	rystall	ne sa	lt.	1	otal Hrs		3
6.	Cond	uctometric titration of strong aci	d with str	ong b	ase.		1	otal Hrs		3
7.	Cond	uctometric titration of mixture of	facids.				7	otal Hrs		3
8.	Preci	pitation titration by conductome	tric metho	od.			1	otal Hrs		3
9.	Deter	mination of strength of HCI by p	H Meter.				1	otal Hrs		3
10.	Estim	ation of ferrous ion by potentior	netric titra	ation .			7	otal Hrs		3
11.		mination of sodium and potassi metry (Demo only).	um in a w	vater s	ample	e by fla	ame 7	otal Hrs		3
12.	Estim	ation of ferric ion by spectropho	otometry (Demo	only)		1	otal Hrs		3
Total h	nours to b	e taught							30	
Lab Ma	anual :									
1. (Chemistry	Lab Manual by R.Palanivelu,	R.Parima	lam ai	nd B.S	Srividh	ya			
Refere	ence :									
1. J	J. Mendha	am, R.C. Denney, J.D. Barnes a 6 th Edition, Pearson Education,	and N.J.K 2004	. Thor	nas, ∖	/ogel's	Text book	of Quant	itative Ch	emical
	anary 313, 1		2007.							

	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 20	008
Department	Information Technology	Prog	gramm	e Coc	le &Na	ime	21: Informatio	B.Tech. on Techn	ology
		Seme	ster II						
Course Code	Course Name		Hou	rs / W	eek	Credit	Max	imum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Tota
08210209P	PROGRAMMING LABORATO	IG LABORATORY 0 0 3 2 50 50		100					
 Write a Write a Write a Write a Write a the length Write a Write a 	C program to print Pascal's tria C program to print the sine and C program to perform Matrix m C program to prepare and print C program to perform string ma gth and string copy without using C program to arrange names in C program to calculate the mea C program to perform sequenti	l cosine s ultiplicatio the sales anipulatio g library f alphabe an, varian	on. s repoi in func function itical of ice and	tions l ns. rder. d stan		-			on, find

K.S.	Rangasamy College of ⁻	Technology - Aut	onon	nous	Regu	lation		R	2008
Department	Information Technology	Prograi	m coc	le & l	Name				
		Semeste	er II						
Course Code	Course N		Но	urs/W	/eek	Credit	Ma	aximum I	Marks
Course Code	Course Na	ame	L	Т	Р	С	CA	100 00 1 40 words) rds) and in 2 andle the be questions e keywords Hours 3 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 24	Total
08210210P	COMPREHENSION -		0	0	3	0	100	00	100
Objective(s)		d the semester sul technical knowled	dge of	f the s	studer		s x 40	words)	
Methodology	 are to be prepared. 2. These 200 keyword pages and is to be 3. The staff who is has respective discussi 4. The staff will explain linking the keyword 5. In a similar way, the 	ds are to be printed handed over to ea ndling the subject on period (3 period n and question the s. e students have to	d in do ch stu in the ds/ser e stud prepa	ouble udent prev meste ents are th	colun for al rious s er) as using nemse	nn (2 x 50 v I the subjec emester w given belov W' and 'H'	words) a cts. ill handle w. ' type qu	nd in 2 e the estions	
	The Schedule for Cond	luct of Comprehen	sion	Subje	ect.				
	Week				Ac	tivity			
		First 1½ Period (No. of unit		ct		xt 1½ peric bject (No. o units)		Ηοι	Irs
	W1	S1 (2)				S2 (2)		3	
	W2	S3 (2)				S4 (2)		3	
	W3	S5 (2)				S6 (2)		laximum N ES 00 words) and in 2 le the uestions words Hour 3 3 3 1 3 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 1 3 3 3 3 1 3 3 3 3 1 3	
Execution	W4	Test-I (Portic	n:2 u	nits ii	n each	subject)			
	W5	S1 (3)				S2 (3)		3	
	W6	S3 (3)				S4 (3)		3	
	W7	S5 (3)				S6 (3)		3	
	W8	Test-II (Porti	on:3 ι	units i	in eac	h subject)		1	
	W9		Disc	ussio	n			3	
	W10	Test-III (Al	l 5 un	its an	id all s	ubject)		1	
		Total						24	ŀ
	 Only continuou Each test will continuou 	it (3 hrs /week) La is Assessment (CA arry100 questions	A) and	d No	End S d amo	emester ex			e units
Evolution	Component					ghtage			
Evaluation	Test – I					25			
	Test – II					25			
	Test – III					50			
	Total					100			
S1	08210101G - Techni								
S2	08210102G - Engine	•	5 I						
S3	08210103G - Applied	-							
S4	08210104G - Applied	÷							
S5	08210105S - Basics	•		<u> </u>					
S6	08210106S - Basics	of Electronics Eng	ineer	ing					

K.S.R	Rangasamy College of	Technology - Aut	onon	nous	Regu	lation		R 2	2008
Department	Information Technology	/ Program	code	& Na	me	_		B.Tech.	_
		Semeste				In	formatio	on Techn	ology
		Semeste		urs/W	look	Credit	M	aximum I	Jarke
Course Code	Course N	lame	L	T	P	C	CA	ES	Total
08210210P	COMPREHENSION	- 1	0	0	3	0	100	00	100
Objective(s)	iii) To comprehe	end the semester	subjec	cts stu	udied.				
		he technical know							
	1. For each subject are to be prepare		portar	nt woi	rds or	terms (5 ur	nts x 40) words)	
	2. These 200 keywo		ted in	doub	le col	umn (2 x 50	words) and in 2	2
		e handed over to							
Methodology	3. The staff who is h	andling the subje sion period (3 per						le the	
	4. The staff will expl							questions	6
	linking the keywo	rds.				-			
	5. In a similar way, t					selves for a	ll the ke	eywords	
	The Schedule for Co	nauct of Compren	ensio	n Suc	•				
	Week	First 1½ Period	auhia	a t		ctivity	al		
		(No. of uni		CL		xt 1½ perio bject (No. c		Ηοι	irs
		(,		•••	units)			
	W1	S1 (2)				S2 (2)		3	
	W2	S3 (2)				S4 (2)		3	
	W3	S5 (2)				S6 (2)		3	
Execution	W4	Test-I (Portio	on:2 u	nits iı	n each			1	
	W5	S1 (3)				S2 (3)		3	
	W6	S3 (3)				S4 (3)		3	
	W7	S5 (3)				S6 (3)		3	
	W8	Test-II (Porti				h subject)		1	
	W9			ussio				3	
	W10	Test-III (Al	l 5 un	its an	d all s	subject)		1	
		Total						24	
		edit (3 hrs /week) I ous Assessment (vomin	otion	
		l carry100 questio							ive units
	Component					ghtage	,		
Evaluation	Test – I					25			
	Test – II					25			
	Test – III					50			
	Total					100			
S1	08210201G - Comm	unication Skills							
S2	08210202G - Engine	ering Mathematic	s II						
S3	08210203G - Materia	al Science							
S4	08210204G - Enviror	nmental Science							
S5	08210205G - Fundar	mentals of Program	nming	3					
S6	08210206S - Basics	of Civil & Mechan	ical E	ngg.					

(For the candidates admitted from 2009-2010 onwards)

K.S.R	angasamy College of Techn	ology - A	utonom	ous R	egulat	ion		R 20	08
Department	Information Technology	Progr	amme c	ode & I	Name			B.Tech.	
		Sem	ester III			In	formatio	n Techno	biogy
		Com		rs/We	ek	Credit	Ma	ximum N	larks
Course Code	Course Name		L	T	P	C	CA	ES	Total
08210301G	ENGINEERING MATHEMA	TICS III	3	1	0	4	50	50	100
Objective(s)	The course objective is to value problems and transfor large number of engineerin optics and electromagnetic graduate and specialized stu	m technic g subjects theory.	lues. Th s like he The cou	is will b at condurse wi	e nece ductior	essary for n, commur	their effe	ective stu systems	idies in a , electro-
1 PARTIAL	DIFFERENTIAL EQUATIONS				То	tal Hrs		12	
of standard typ differential equa	ntial differential equations by bes of first order partial diffe ations of second and higher or	erential e	quations	– Lag	grange				
2 FOURIER	SERIES				To	tal Hrs		12	
	itions – General Fourier serie			n functi	ons –	Half range	e sine se	eries – H	alf range
	Parseval's Identity – Harmonic RY VALUE PROBLEMS	: Analysis			To	tal Hrs		12	
	f second order quasi linear dimensional heat equation - I							limensior	nal wave
	TRANSFORM					tal Hrs		12	
	m pair- Sine and Cosine trans val's Identity – Problems.	sforms– P	roperties	s – Tra	nsform	ns of simpl	e functio	ons – Co	nvolution
	FORM AND DIFFERENCE E	QUATION	IS		To	tal Hrs		12	
	lementary properties – Initial lue method - Convolution theo								
Total hours to b								60	
Text book(s): :									
	n.T, "Engineering mathematics					• .	•		
2 Grewal, B.	S., "Higher Engineering Mathe	ematics",	Thirty Si	xth Edi	tion, K	hanna Pul	olishers,	Delhi, 2	001.
References :									
Students",	n, S., Manicavachagom Pillay Volumes II and III, S. Viswan	athan (Pri	nters an	d Publi	shers)	Pvt. Ltd. (Chennai	, 2002. `	, ₀
	y, P., Thilagavathy, K., and C ltd., New Delhi, 1996.	Gunavathy	/, K., "Eı	ngineer	ing Ma	athematics	Volume	e III", S.	Chand &

	K.S.	Rangasamy College of Techn	ology - /	Autono	omou	s Reg	ulation			R 20	800
Departn	nent	Information Technology	Prog	gramm	e Cod	e &Na	ame	I	21: nformatio	B.Tech. on Techn	ology
			Semes	ster III							
Course (C odo	Course Name		Hou	rs / W	eek	Credi	t	Max	imum M	arks
Course	June	Course Name		L	Т	Р	С		CA	ES	Total
082103	02C	SIGNALS AND SYSTEMS		3	1	0	4		50	50	100
Objectiv		To understand the representa analysis using transforms, ar Transforms and state equation transforms, find the frequenc FFT and Z-transform analysis.	alyze the ns, study y respon	e linea the an se of	r time alysis	e inva of Di	riant sys screte Ti	tem me	s using l signals u	Fourier, sing DF1	Laplace
1	CLAS	SIFICATION OF SIGNALS ANI		MS		Т	otal Hrs			12	
Exponen	tial, Cla	e signals (CT signals), discre assification of CT and DT signal fication of systems – Linear Tim	ls - perio	dic and	l aper	iodic,					
2	ANAL	YSIS OF CT SIGNALS				Т	otal Hrs			12	
Fourier s	eries a	nalysis, Spectrum of CT signals	, Fourier	Trans	form a	and La	place Tr	ans	form in S	ignal Ana	alysis.
3	LTI-C	T SYSTEMS				Т	otal Hrs			12	
		ation, Block diagram represe er Methods and Laplace transfo								gral, Fre	equency
4	ANAL	YSIS OF DT SIGNALS				Т	otal Hrs			12	
	s of Z-	T Signals, Discrete Time Fortransform in signal analysis.	ourier Tra	ansfor	m (D	TFT),	Discrete	e Fo	ourier Tr	ansform	(DFT),
5	LTI-D	T SYSTEMS				Т	otal Hrs			12	
		ations, Block diagram reprea and Z-transform analysis, State						onvo	lution S	UM, Fre	equency
Total hou	irs to b	e taught								60	
Text boo	k :										
1		/. Oppenheim, Alan S. Willsky f India Pvt. Ltd., 2003.	with S.H	lamid I	Nawa	o, "Sig	gnals & S	Syst	ems", Pe	arson / I	Prentice
Reference	• •										
1		Iner, "Signals and Systems", Mo									
2		n Haykin and Barry Van Veen, "	•	•							
3	P.Rar	nesh Babu, R.Ananda Nataraja	n, "Signa	ls and	Syste	ems", S	Scitech p	oubli	cations, 2	2006.	

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 20	008
Depa	artment	Information Technology	Progra	amme	Code	&Nam	ne In		3.Tech. n Technol	ogy
			Semes	ster III			•			0,
0				Hou	rs/W	eek	Credit	Ma	ximum M	arks
Cours	se Code	Course Name		L	Т	Р	С	CA	ES	Total
0821	0303C	COMPUTER ARCHITECTURE	=	3	0	0	3	50	50	100
	ctive(s)	To have a thorough understar discuss in detail the operation of fixed-point and floating-poin the different types of control system including cache memo and standard I/O interfaces.	of the and and the ries, stuc	rithmet n, sub conce ly the	ic uni traction pt of	t inclu on, mi pipeli ent wa	ding the alg ultiplication ning, study ys of comm	orithms & divisio the hier	& implem n, study archical with I/O	entation in detail memory
1		STRUCTURE OF DIGITAL CON					otal Hrs		10	
Boolea operat registe	an circuits tions, coc er.	Basic Operational Concepts using K – map and tabulation le conversion – Design of Syr	methods	– Des	ign of	simp circu	le combinati its, synchro	ional circ	uits for ar OD count	ithmetic
2	ARITHM						otal Hrs		8	
		btraction of signed numbers – E								- signed
opera 3		ication and fast multiplication –	Integer d	IVISION	- floa		oint number otal Hrs	's and op	erations. 9	
		oncepts – Execution of a complete	ata Inatri	otion	Mult			tion Ur	•	ontrol
microp	programm	ed control - Pipelining – Basic – Data path and control conside	concept	s – da	ita ha	zards	- instructio			
4		RY SYSTEM	Jiadon	Cupor	ooului		otal Hrs		9	
		- decoders and encoders - m					ers - semic	conducto	r RAMs, I	ROMs –
5 5		d cost – cache memories - Perfo GANIZATION	mance	consiu	eralio		otal Hrs		9	
	sing I/O c	levices – Enabling and disabling Interfaces (PCI, SCSI, USB).	g Interrup	ts – D	irect N			Buses –	Interface	Circuits
	hours to b								45	
Text b	ook (s) :									
1	Carl Ha	macher, Zvonko Vranesic and S	afwat Za	ky, "Co	omput	er Org	ganization" &	5 th Ed, M	cGraw Hi	I, 2002.
2	M.Morris	s Mano," Digital Design," third e	dition, Pe	arson	Educ	ation,	2002.			
Refere	ence (s) :									
1	Pearson	Stallings, "Computer Organiza Education, 2003 reprint.					0 0			
2	interface	.Patterson and John L.Hennes ", 2 nd Ed, Morgan Kaufmann, 20	002 repri	nt.	•		-		dware / s	oftware
3	John P.I	Hayes, "Computer Architecture	& Organi	zation'	', 3 rd E	d, Mo	Graw-Hill, 1	998.		
4	Charles	H.Roth, Jr. "fundamentals of Lo	ck Desig	n," Fo	urth e	dition,	Jaico Publi	shing Ho	use, 2000).
5	Donald	D.Givone, "Digital Principles and	d Design,	" Tat M	/lcGra	w-Hill	, 2003.			

	K.S.Rai	ngasamy College of Techr	nology - A	Auton	omou	s Reg	ulation		R 20	800
Departmer	nt	Information Technology	Progra	amme	Code	&Nam	ne Inf		.Tech. Technol	ogy
			Semes	ster III						
Course Co	do	Course Name		Hou	rs / W	eek	Credit	Max	kimum Ma	arks
Course Co	ue	Course Maine		L	Т	Ρ	С	CA	ES	Total
08210304	C D	ATA STRUCTURES		3	0	0	3	50	50	100
Objective(s) or da	 learn the systematic wards ganizing large amounts of ata structures, efficiently implicitly 	ⁱ data, lea	arn to	progra	am in specifi	C, efficiently c problems		ent the o	
1 P	ROBLE	EM SOLVING					Fotal Hrs		9	
Problem sol	lving – ⁻	Fop-down Design – Implem	entation -	- Efficie	ency –	Anal	ysis – Sampl	e algorith	nms.	
2 L	ISTS, S	STACKS AND QUEUES				٦	Fotal Hrs		8	
Abstract Da	ta Type	(ADT) – The List ADT – Th	ne Stack A	NDT –	The C	ueue	ADT	•		
3 T	REES					٦	Fotal Hrs		10	
Queues (He 4 S Preliminarie	eaps) – SORTIN s – Ins	Idea – Hash Function – So Model – Simple implementa G AND SEARCHING Section Sort – Shellsort – I	ations – B Heapsort	inary H	leap		Fotal Hrs		9	•
	GRAPH	Search – Complexity Analy							5	- Linear
		Search – Complexity Analy				٦ ٦	Total Hrs		9	- Linear
Biconnectivi	pannin ity	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm	Algorithm			nted S	hortest Path		9 tra's Algo	orithm –
Biconnectivi Total hours	pannin ity to be ta	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm	Algorithm			nted S	hortest Path		9 tra's Algo ected Gi	orithm –
Biconnectivi Total hours Text book (s	panning ity to be ta s) :	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm nught	Algorithm – Applic	ations	of D	nted S epth-F	Shortest Path First Search	– Undir	9 tra's Algo ected Gi 45	orithm –
BiconnectiviTotal hoursText book (s12M(d)	panning ity to be ta s) : R. G. Dr I. A. We chaps 3	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm rught omey, "How to Solve it by C eiss, "Data Structures and A , 4.1-4.4 (except 4.3.6), 4.6	Algorithm – Applic Computer" Algorithm	(Chap (Chap Analys 1, 6.1-6	of D os 1-2) is in C 5.3.3,	nted S epth-F	hortest Path First Search ntice-Hall of I ed, Pearson	- Undir ndia, 200	9 tra's Algo ected Gi 45 06 on Asia, 2	prithm – raphs – 2004
Biconnectivi Total hours Text book (s 1 R 2 M (d)	panning to be ta s) : R. G. Dr I. A. We chaps 3 .7.5, 7.	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm rught omey, "How to Solve it by C eiss, "Data Structures and A	Algorithm – Applic Computer" Algorithm	(Chap (Chap Analys 1, 6.1-6	of D os 1-2) is in C 5.3.3,	nted S epth-F	hortest Path First Search ntice-Hall of I ed, Pearson	- Undir ndia, 200	9 tra's Algo ected Gi 45 06 on Asia, 2	prithm – raphs – 2004
Biconnectivi Total hours Text book (s 1 R 2 M (c 7 Reference (1 Y	panning to be ta s) : R. G. Dr A. A. Wo chaps 3 .7.5, 7. s) :	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm hught omey, "How to Solve it by C eiss, "Data Structures and A , 4.1-4.4 (except 4.3.6), 4.6 7.6), 7.11, 9.1-9.3.2, 9.5-9.5 cam, M. J. Augenstein and A	Algorithm – Applic Computer" Algorithm 5, 5.1-5.4.7 5.1, 9.6-9.0	(Chap (Chap Analys 1, 6.1-(6.2, 9.	of D os 1-2) is in C 5.3.3, 7).	ا nted S epth-F , Prer ۶٫, 2 nd 7.1-7.	tice-Hall of I ed, Pearson (except 7.2	- Undir ndia, 200 Educatio 2.2, 7.4.1	9 tra's Algo ected Gi 45 06 00 Asia, 2 , 7.5.1, 7	prithm – raphs – 2004 .6.1,
Biconnectivi Total hours Text book (s 1 R 2 M (c 7 Reference (1 Y A	panning ity to be ta s) : R. G. Dr A. A. We chaps 3 .7.5, 7. s) : 7. Lange sia, 20	S ogical Sort – Shortest-Path g Tree – Prim's Algorithm hught omey, "How to Solve it by C eiss, "Data Structures and A , 4.1-4.4 (except 4.3.6), 4.6 7.6), 7.11, 9.1-9.3.2, 9.5-9.5 cam, M. J. Augenstein and A	Algorithm – Applic Computer" Algorithm 7 5, 5.1-5.4.7 5.1, 9.6-9.1	(Chap (Chap Analys 1, 6.1-(6.2, 9.) enbau	of D os 1-2) is in C 5.3.3, 7). m, "Da	nted S epth-F , Prer , 2 nd 7.1-7.	tice-Hall of I ed, Pearson (except 7.2	- Undir ndia, 200 Educatio 2.2, 7.4.1	9 tra's Algo ected Gi 45 06 00 Asia, 2 , 7.5.1, 7	prithm – raphs – 2004 .6.1,

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 20	008
Departi	ment	Information Technology	Progra	amme	Code	&Nan	ne Inf		3.Tech.	0.01/
			Semes	ster III			111	ornation	Technol	ogy
			001100		rs / W	eek	Credit	Ma	ximum Ma	arks
Course	Code	Course Name		L	Т	P	C	CA	ES	Total
082103	305C	PRINCIPLES OF COMMUNIC	ATION	3	1	0	4	50	50	100
Objectiv	ve(s)	To have understanding about Receivers), study in detail t Transmitters and Receivers, g digital transmission, have kno base band transmission, kno multiple access methods.	he differ jain know owledge	ent ty vledge about	pes o abou base	of FM t diffe band	transmitter rent digital n transmissio	s & Ree nodulatio n ISI an	ceivers a on technic nd distorti	und PM ques for ion free
	MPLITU ECEPT	JDE MODULATION: TRANSMI	SSION A	ND			Total Hrs		9+3	
Principle percent modulate	es of an modula or, AM t	nplitude modulation – AM enve tion, AM power distribution, AM transmitters – low level transmit M receivers – TRF, Superheter	modulate ters, high	or circ level	uits – transr	low le nitters	vel AM modu , Receiver p	ulator, ma arameter	edium po rs.	
		ODULATION: TRANSMISSIO					Total Hrs		9+3	
frequence modulate	cy spec ors – Di	on – FM and PM waveforms ctrum of a angle modulated v irect FM and PM, Direct FM trar virect FM demodulators, Frequ	waves, E nsmitters,	Bandw Angle	idth r modu	equire ulation	ment, Avera Vs. amplitu	age pow	ver FM a	
3 DI	IGITAL	MODULATION TECHNIQUES					Total Hrs		9+3	
		SK, Binary PSK, DPSK, Differer				QPSK	K, Binary FSI	<, Duob	inary enc	oding –
		mparison of various systems of ND DATA TRANSMISSION	Digital IV	iodula	tion.		Total Hrs		9+3	
Sampling Aliasing	g theor , Discr	em, Quadrature sampling of b ete PAM signals, ISI Nyquist nd M-ary PAM systems.					uction of me		rom its s	
5 SI	PREAD	SPECTRUM AND MULTIPLE	ACCESS				Total Hrs		9+3	
Introduct	spectrur	eudo-noise sequence, DS spr n, multiple access techniques,								
Total ho	urs to b	e taught							60	
Text boo	ok (s) :									
		Fomasi, "Electronic Communic n, 2007. (UNIT I Chapters – 3, 4							anced", F	Pearson
2 Si		aykin, Digital Communications							ers 3,4;	UNIT V
Reference	. ,									
		aykin, Communication Systems								
		chilling, Principles of Communi	•							
		Roden, Analog and Digital Com		-						
4 BI	lake, El	ectronic Communication Systen	ns, Thom	son D	elman	, 2 ^{na} €	edn., 2005.			

	K.S.	Rangasamy College of Tecl	nnology	- Auto	nomo	us Re	gulation		R 20	800
Depart	ment	Information Technology	Progra	amme	Code	&Nam	e		.Tech.	
							In	formation	Technol	ogy
			Sem	ester						
Course	Code	Course Name			urs / W		Credit		kimum Ma	-
				L	Т	Р	С	CA	ES	Total
082103	306C	ADVANCED C & C++		3	0	0	3	50	50	100
Objecti	ve(s)	Since C and C++ play a pro objectives can be achieved understand the concepts of C++.	d after st	udying	g this	subjed	ct, review of	advance	d feature	es of C,
1	ADVA	NCED C				٦	otal Hrs		9	
Review	of Point	ters, Structures, Unions and F	ile Opera	ations	– Simp	ole Ap	olications.			
2	OVEF	RVIEW OF C++	· · ·			1	otal Hrs		9	
Principle		Dject-Oriented Programming - C++.	- Beginnir	ng with	n C++ ·	- Toke	ns, Expressio	ons and C	Control St	ructures
3		CEPTS OF OBJECT-ORIENT GRAMMING	ED			1	otal Hrs		9	
		Objects – Function Overloa Theritance	ading, Co	ору С	Constru	uctors	and Defaul	t argume	ents (Operator
4		TERS AND FILE OPERATIO	NS			٦	otal Hrs		9	
		ences and Dynamic Memory sics: C++ Streams , Formatted				- Virtu	al Functions	and Poly	morphisr	n – C++
5		TIONAL FEATURES				٦	otal Hrs		9	
Templat Strings.	es – E	xception handling – Standa	rd Temp	late L	ibrary:	Over	view, Contai	ner Class	s, Vector	s, Lists,
	urs to b	e taught							45	
Text boo	ok (s) :									
1	Yasha	avant Kanetkar, "Let us C", Bl	PB Public	ations	, 2006					
2	Herbe	ert Schildt, "The Complete Re	ference C	;++", T	ata Mo	Graw	Hill, Fourth E	Edition 20	08.	
Referen	ce :	· ·								
1		agurusamy, "Object Oriented	Program	mina	with C-	++". Ta	ata McGraw I	Hill. Fourt	h Edition	2008.
-	= ~	<u> </u>	- 3	.9		, .		,		

K.:	S.Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation			800
Department	Information Technology	Progra	amme	Code	&Nan	ne I		B.Tech. n Techno	logy
		Seme	ster II						
Course Code	Course Name		Hou	rs / W	eek	Credit		aximum N	larks
			L	Т	Р	С	CA	ES	Tota
08210307P	DIGITAL AND HARDWARE		0	0	3	2	50	50	100
 Design an Design an Design an Design an Design an Design an Study of N Study of S (i) Configure problem (ii) a. Inst 	Id implementation of combination ad implementation of 4-bit binary a ad implementation of magnitude of ad implementation of application u ad implementation of Shift register ad implementation of Asynchronoo Aotherboard.	adder / si comparate ising mul rs. us and S	ubtraci or. tiplexe ynchrc	or usi rs and nous	ng MS d dem counte	31 devices. ultiplexers. ers.		5.	
c. Ma: 10. (i) Printer i	ster / Slave / IDE Devices installation a. Install and Configure Dot-ma b. Trouble shoot the above prin		Laser	printe	r				
(ii) Install A	udio / Video devices a. Microphone Speaker Heads	et and W	eb car	nera					
	and configure Scanner a and TV tunes card Installations a. Install and configure Interna b. Install and configure TV tune		ernal N	/loden	n				
b. For c. Wir d. Ide	tition Hard Disk using FDISK and mat Hard Disk ndows XP-Operating System Insta ntify problems with Software insta therboard CD	allation.	sing dr	ivers a	availal	ole in the			
	ntify the connectors using wireles etooth setup.	s device	S						

n.ə.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 20	800
Department	Information Technology	Progra	mme	Code	&Nam	ie Inf	21: B ormation	.Tech. Technol	ogy
		Semes	ster III						
Course Code	Course Name		Hou	rs / W	eek	Credit	Max	kimum Ma	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210308P	DATA STRUCTURES LABORATORY								100
Objective(s)	To teach the students to wr Abstract Data Types, write pro				-			ta struct	ures as
 Linked list i Array imple Linked list i Implement 	mentation of List Abstract Data mplementation of List ADT mentations of Stack ADT mplementations of Stack ADT the application for checking 'Bal the application for checking 'Bal	lanced Pa	arenth						

K.S	Rangasamy College of Techn.	ology - A	Auton	omou	s Reg	ulation		R 20	800
Department	Information Technology	Progra	mme	Code	&Nam	le Inf		3.Tech. 1 Technol	ogy
		Semes	ster II						
Course Code	Course Name		Hou	rs / W	/eek	Credit	Max	ximum M	arks
Course Code	Course Name		L	Т	CA	ES	Total		
08210309P	ADVANCED C & C++ LABORATORY	0 0 3 2 50 5							100
I. Programs usi	ng C								
	ng Structures with pointers ng File handling functions								
II. Programs us	ing C++								
 Implementation Simple Classion Classes with Classes with Program using Program using 	sing Functions with default and o ion of Call by Value, Call by Ado ses for understanding objects, m primitive data members arrays as data members ng Operator Overloading including Function Overloading	Iress and nember fu	Call b nction	y Ref s, Co	nstruct	ors and Des	structors		
10. Program us 11. Multilevel Ir									
12. Multiple Inh 13. Hierarchica									
14. Hybrid Inhe									
15. Program us	ing Virtual functions and Virtual	Base Cla	isses						

16. Program using File Handling

17. Sequential access

- 18. Random access
- 19. Program using Templates
- 20. Program using exception Handling Mechanism
- 21. Program using Manipulating String Objects using pointers.

K.S.Ra	angasamy College of T	echnology A	uton	omou	ıs Re	gulat	ion			R 2008
Department	Information Technolo	gy Progr	amme	e code	e & Na	ame			21: B.Te	
		Ser	neste	·				IIIIOIII		echnology
				urs/W	'eek	Cr	edit		Maximu	m Marks
Course Code	Course Nam	ne	L	Т	Р		C	CA	ES	Total
08210310P	COMPREHENSION -	II	0	0	3		0	100	00	100
Objective(s)	i) To comprehend thii) To improve the te	chnical know	ledge	of the	e stud					·
Methodology	 For each subject 2 are to be prepared These 200 keyword pages and is to be The staff who is had respective discussid The staff will explain linking the keyword In a similar way the 	ds are to be p handed over indling the su ion period (3 in and questions is. e students ha	orinted to ea bject i period on the ve to j	l in do ch stu n the ls/sen stude orepa	ouble ident curre neste ents u	colun for al nt se r) as ising emsel	nn (2x the su mester given t W' an	50 word ubjects. r will han below. d 'H' typ	s) and ir ndle the be questi	ons
	The Schedule for Cond	duct of Comp	rehen	sion S	Subje	ct.				
	Week					Ac	tivity			
	-	First 1½ I subject (No.					perio (No. o ts)		ŀ	Hours
	W1	S1 (2	2)			S2	(2)			3
	W2	S3 (2	2)			S4	(2)			3
	W3	S5 (2	,			S6	. ,			3
Execution	W4	Test-I (Po	rtion:2	2 units	s in ea	ach si	ubject)			1
	W5	S1 (3				S2				3
	W6	S3 (3				S4				3
	W7	S5 (3	3)			S6	(3)			3
	W8	Test-II (Po	ortion:	3 unit	s in e	ach s	ubject)		1
	W9		Di	scuss	sion					3
	W10	Test-III	(All 5	units a	and a	ll sub	ject)			1
				Tota	l					24
	It is a two cred Only continuou Each test will o Component	us Assessme	nt (ĊA) and	I No E	nd S amo	emest	er exam subject		ective units
Evaluation	Test – I					• •	25	<u> </u>		
	Test – II						25			
	Test – III						50			
	Total						100			
S1	08210301S- Engineer	ing Mathema	tics III							
S2	08210302C - Signals									
 S3	08210303C - Compute	•								
S4	08210304C – Data Str		~							
S5	08210305C - Principle		nicatio	n						
S6	08210306C - Advance		noanc							
00										

	K.S.R	angasamy College of Tech	nology - A	Auto	nom	ous Re	gulation			R 2008
Depa	rtment	Information Technology	Progra	mme	e Cod	le & Nar	ne		: B.Tec ion Tec	h. hnology
			Sem	este	r III					
0	o O o do	O surra a Marra		H	ours/\	Week	Credit	Ν	/laximur	n Marks
Cours	e Code	Course Name		L	Т	Р	С	CA	ES	Total
0821	0311P	CAREER COMPETENCY DEVELOPMENT I		0	0	2	0	100	00	100
Objec	tive(s)	i. To improve the skill level o ii. To improve the employabi			6					
1		le Skills								Hrs
- Time b. Vert c. Non	and dista pal Reaso verbal Re	bility : Average - Numbers and ance - Trains bning : Series - Analogy - Cla basoning : Series – Analogy	-		entag	e - Pro	fit & loss - T	ime and	d work	8
Arrays	guage : B and Strir	nming Skills asics of C - Data Types - Cor ngs - Structures and Unions	ditional a	nd L	.oopir	ng State	ments – Fu	nctions	-	6
	correctior	Communication Skills n in the usage of noun, pro n – Introduction to oral commu		djec	tive,	Verb, A	dverb & P	repositi	ons –	4
Compi	Cheriolon		inoution.							0
Evalua	tion I – V	/ritten Test								2
4		ommunication Skills								
		Two Minutes talk (each section Two minutes Extempore Spec						ips of 2	2	2 2
5	Technic	al Paper Presentation								
Evalua	tion IV -	Technical Paper Presentation	n I (Assoc	iatio	n Ses	ssion)				8
									Total	32
Refere	nce(s):									
1	(Ch - 6,	garwal,"Quantitative Aptitud 7, 8, 10, 11, 15, 17 & 18) (uni	t – I)							
2	New De	garwal , "A Modern Approach Ihi, 2008, Part I – Section I (C	h - 1,2 &	3),	Part	- II (Ch	-1&2) (ui	nit – I)		
3	(unit – I							n -1, 3,	4, 5, 6,	8, 9 and 10)
4		uide by English Department of	KSRCT,	200	8 (Un	nit — III, I	V & V)			
	1	CRITERIA	T							1
S.No.	Particul		Test Po							Marks
1	Evaluat Written	Test	Unit I – Unit III -			, Unit II	– OQ – 30			50
2		nutes Talk	P – 10	Mark	ks, C	– 5 Mar	ks			15
3		nutes speech Extempore	P – 10	Mark	ks, C	– 5 Mar	ks			15
4	Evaluat		P – 10	Mark	ks, C	– 5 Mar	ks, Q – 5			20
	esentatio		ries C	Q -	Obje	ctive typ	e question	T – T	otal	T = 100

Note :

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. HODs will display about 50 topics for oral communication.
- 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.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	Julation		R 20	800
Depart	ment	Information Technology	Progra	amme	Code	&Nan	ne in		B.Tech.	~~··
			Semes				In	Iormatio	n Technol	ogy
			0011100		rs / W	eek	Credit	Ma	aximum M	arks
Course	Code	Course Name		L	Т	P	C	CA	ES	Total
082104	401C	PROBABILITY AND STATIST	ICS	3	1	0	4	50	50	100
Objecti	ve(s)	At the end of the course, the probability concepts, have a describe real life phenomena random variable and function distributions and have acquire decision in management probl the process of making scientif the basics of Wavelet transform	well – fo , acquire s of ranc ed knowl ems, be ic judgme	oundec e skills lom va edge o exposi ents in	knov in ha iriable of stat ed to s the fa	vledge andling s, be istical statisti ace of	e of standar g situations introduced techniques cal methods	d distrib involvin to the n useful i designe	utions wh g more th otion of s n making ed to conti	nich can nan one ampling rational ribute to
1	PROB	ABILITY AND RANDOM VARIA					Total Hrs		9+3	
	ity mas	pability - Conditional probabili s function - Probability density rties.								
2		DARD DISTRIBUTIONS & WAV	ELET TF	RANSF	ORM	S	Total Hrs		9+3	
Introduc (t)-Haa 3 Joint di	tion to v ar Wave TWO D stributio	d their properties. vavelet transforms-Definition-Di let function (t) – Orthogonality DIMENSIONAL RANDOM VARI. ons - Marginal and conditiona of random variables - Central lin	of (t) and ABLES al distribu	d (t). utions			Total Hrs		9+3	
4		NG OF HYPOTHESIS					Total Hrs		9+3	
Chi-squ	are and	butions – Testing of hypothesis F distributions - Tests for indep					Goodness o			ormal, t,
5		N OF EXPERIMENTS					Total Hrs		9+3	
-		ance-One way classification-CR	D - I WO -	way c	iassifi	cation	і - КВО - La	tin squar		
		e taught							60	
Text boo 1	Ross. 8)	S., "A first Course in Probabilit	•		-				· ·	
2		on. R. A., "Miller & Freund's F tion, Delhi, 2000. (Chapters 7, 8	-	/ and	Statis	tics fo	or Engineers	s", Sixth	Edition, I	Pearson
Referen	ce (s) :									
1	Scient	le, R. E., Myers, R. H. Myers I ists", Seventh Edition, Pearsons	s Educati	on, De	lhi , 20	002.	-		-	
2	Hill, Ne	utz. S and Schiller. J, "Schaum ew Delhi, 1998.					-			
3	New D	, S.C, and Kapur, J.N., "Fundar oelhi, 1996.								
4		Daubechies, "Lectures on Wa)-89871-274-2.	velets",	Societ	/ for I	ndust	rial and Ap	plied Ma	athematics	s, 19 <mark>92</mark> ,

K.S.I	Rangasamy College of Techr	nology -	Auton	οποι	ıs Reç	gulation		R 2	008
Department	Information Technology	Progra	amme	Code	&Nam	ne li		B.Tech. n Techno	logy
		Seme	ester I	V			-		
Course Code	Course Name		Hou	rs / W	eek	Credit	Ma	aximum N	larks
			L	Т	Р	С	CA	ES	Total
08210402C	SOFTWARE ENGINEERING	-	3	0	0	3	50	50	100
Objective(s)	To be aware of Different life and specification, architectu strategies, project planning a	ural and	detail	ed de	esign	methods, i			
1 SOFT\	WARE PROCESS					Total Hrs		9	
Component Ba Engineering Hie 2 REQU Requirement E Developing Use Scenario Base	v Of Processes – Process M sed Development. Agile Proc erarchy – Risk Management: R REMENT ANALYSIS ngineering: Tasks, Initiating T e Cases – Negotiating Required d Modeling – Data Modeling	cess – A Risk Ident The Requ ments – '	gile M ificatio uireme Validat	iodels: <u>n – Ri</u> nts E ting R	: Adap isk Pro nginee equire	otive Softwa ojection – R Total Hrs ering Proce ments – Bu	are Devel isk Refine ss, Eliciti ilding The	opment - ement. 9 ng Requi e Analysis	- System rements, Models:
Behavioral Mod 3 SOFT	el. VARE DESIGN					Total Hrs		9	
Architectural De and Design. Ch	ts – Design Models – Pattern esign and Patterns – Mapping nange Management. VARE TESTING								
Software Testir Validation Test Structure Testir	ng – Strategies – Issues – Te ing – System Testing – Tes ng – Black Box Testing – Testir	ting Tact ng GUI –	tics: V	Vhite	Box T	ional And (esting, Bas rver – Test I	sis Path	iented So Testing - tation.	
	VARE PROJECT MANAGEME					Total Hrs		9	
Techniques: So Example of FF Reverse Engine		sed Estir	mation	– Ar	n Exa	mple of LC	C Based	l Estimati – Reenç	ion – An
Total hours to b	e taught							45	
Text book :	0.0								
1 Roger 2005.	S. Pressman., Software Engi	neering:	A Pra	ctition	ier's A	opproach (S	ixth Editi	on), McG	araw Hill,
Reference (s) :									
1 I.Somm	nerville, Software Engineering,	V Editior	n: Add	lison V	Vesley	y, 1996.			
2 Pankaj	Jalote- An Integrated Approac	h to Soft				Contingent	orlog 100	7	
	Jalote- An integrated Appload		ware E	Ingine	ering,	Springer v	enay, 19	97.	
3 James	F Peters and Witold Pedryez, ns, New Delhi, 2000.			•	•		•		hn Wiley

n.:	6.Rangasamy College of Techr	ology - A	Auton	omou	s Reg	ulation		R 20	800
Department	Information Technology	Progra	amme	Code	&Nam	ne Inf		5.Tech. Technol	ogy
		Semes	ster IV	/					
Course Code	Course Name		Hou	irs / W	/eek	Credit	Max	kimum M	arks
Course Coue			L	Т	Р	С	CA	ES	Total
08210403C	INFORMATION CODING TECHNIQUES		3	0	0	3	50	50	100
Objective(s)	To have a complete under decoding of digital data streat their decoding techniques, h techniques, introduce the con	ams, intro ave a de	oduce tailed	metho know	ods fo ledge	r the genera of compres	ation of t	hese co	des and
_	MATION ENTROPY FUNDAME	-				Total Hrs		9	
	formation and Entropy – Sourc								
2 DATA	ory less channels – channel capa AND VOICE CODING	acity – ch	annei	coain	gineo	orem – Chan Total Hrs	nei capa	city i neo 9	orem.
	lse code Modulation – Adaptive	Differentia	al Puls	se Coo	de Mo		daptive s	ubband o	codina -
Delta Modulati	on – Adaptive Delta Modulation					at low bit rate			
3 ERRO	R CONTROL CODING					Total Hrs		9	
Linear Block	coaes – Synarome Decoaing –	- Minimui	m dist	ance	consid	deration – c	vclic cod	des – Ge	enerato
Polynomial – codes.	codes – Syndrome Decoding – Parity check polynomial – Enco RESSION TECHNIQUES								
Polynomial – <u>codes.</u> 4 COMF Principles – T	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr	der for c	yclic c ng –	odes Dynar	- calo	Total Hrs	yndrome	– Convo 9 hmetic c	olutiona
Polynomial – codes. 4 COMF Principles – T Image Compr	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange	der for c	yclic c ng –	odes Dynar	- calo	Total Hrs	yndrome	– Convo 9 hmetic c	olutiona
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards.	der for c	yclic c ng –	odes Dynar	- calo	Total Hrs Ifman codir File Format	yndrome	– Convo 9 hmetic c	olutiona
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING	nan Codi format –	yclic c ng – · Tagg	odes Dynar Jed Im	– calo nic Hu nage F	Total Hrs uffman codir File Format Total Hrs	ng – Arit – Digitiz	- Convo 9 hmetic c ed docur 9	olutiona oding - ments -
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predicti	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards.	der for contraction of the second sec	yclic c ng – · Tagg ual coo	Dynar Jed Im ding, N	– calo mic Hu nage F	Total Hrs uffman codir File Format Total Hrs audio coder	ng – Arit – Digitiz	- Convo 9 hmetic c ed docur 9	olutiona oding - ments -
Polynomial – <u>codes.</u> 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compresent	Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction	der for contraction of the second sec	yclic c ng – · Tagg ual coo	Dynar Jed Im ding, N	– calo mic Hu nage F	Total Hrs uffman codir File Format Total Hrs audio coder	ng – Arit – Digitiz	- Convo 9 hmetic c ed docur 9	olutiona oding - ments -
Polynomial – <u>codes.</u> 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compres Total hours to Text book (s) :	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught	nan Codi format – Perceptu to H.261	yclic c ng – Tagg ual coo & MPE	bynar Jed Im ding, N	– calo mic Hu nage F MPEG deo sta	Total Hrs uffman codir File Format Total Hrs audio coder andards.	ng – Arit – Digitiz s – Dolb	- Convo 9 hmetic c ed docur 9 y audio c	olutiona oding - ments -
Polynomial – <u>codes.</u> 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compres Total hours to Text book (s) :	Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught	nan Codi format – Perceptu to H.261	yclic c ng – Tagg ual coo & MPE	bynar Jed Im ding, N	– calo mic Hu nage F MPEG deo sta	Total Hrs uffman codir File Format Total Hrs audio coder andards.	ng – Arit – Digitiz s – Dolb	- Convo 9 hmetic c ed docur 9 y audio c	olutiona oding - ments -
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIO Linear Predicti Video compres Total hours to Text book (s) : 1 Simon 2 Fred F	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught	nan Codi format – Perceptu to H.261	yclic c ng – · Tagg Jal coo & MPE	Dynar Jed Im ding, N EG Vic	– calo mic Hu nage F MPEG deo sta	Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2	ng – Arit – Digitiz s – Dolb	- Convo 9 hmetic c ed docur 9 y audio c 45	oding - nents - coders -
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predict Video compres Total hours to Text book (s) : 1 Simon 2 Fred H Educa Reference (s)	Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught Haykin, "Communication System falsall, "Multimedia Communicat tion, Asia 2002; Chapters: 3, 4, 5	der for contract of the second	yclic c ng – Tagg Jal coo & MPE Wiley Dicatio	bynar John John Strand John Strand Strand Strand Strand Strand Strand John Strand Stra	– calo mic Hu nage F MPEG deo sta	Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2	ng – Arit – Digitiz s – Dolb	- Convo 9 hmetic c ed docur 9 y audio c 45	oding - nents - coders -
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predicti Video compres Total hours to Text book (s) : 1 Simon 2 Fred H Educa Reference (s) 1 Mark N	Parity check polynomial – Enco RESSION TECHNIQUES ext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught Haykin, "Communication System lalsall, "Multimedia Communicat tion, Asia 2002; Chapters: 3, 4, 5 Nelson, "Data Compression Book	nan Codi format – Perceptu to H.261 ns", John ions, App 5.	yclic c ng – Tagg ual coo & MPE Wiley Dicatio	Dynar Jed Im ding, N EG Vic	– calo mic Hu nage F MPEG deo sta	Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2 th s Protocols	ng – Arit – Digitiz s – Dolb	- Convo 9 hmetic c ed docur 9 y audio c 45	oding - nents - coders -
Polynomial – codes. 4 COMF Principles – T Image Compr Introduction to 5 AUDIC Linear Predicti Video compres Total hours to Text book (s) : 1 Simon 2 Fred H Educa Reference (s) 1 Mark N	Parity check polynomial – Enco RESSION TECHNIQUES fext compression – Static Huffr ession – Graphics Interchange JPEG standards. O AND VIDEO CODING ve coding – code excited LPC – ssion – Principles – Introduction be taught Haykin, "Communication System falsall, "Multimedia Communicat tion, Asia 2002; Chapters: 3, 4, 5	nan Codi format – Perceptu to H.261 ns", John ions, App 5.	yclic c ng – Tagg ual coo & MPE Wiley Dicatio	Dynar Jed Im ding, N EG Vic	– calo mic Hu nage F MPEG deo sta	Total Hrs uffman codir File Format Total Hrs audio coder andards. 4 th Edition, 2 th s Protocols	ng – Arit – Digitiz s – Dolb	- Convo 9 hmetic c ed docur 9 y audio c 45	oding - nents - coders -

	K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 2	008
Depa	artment	Information Technology	Progra	amme	Code	&Nam	ie laf		.Tech.	
•		0,7	Semes				Inf	ormation	Technol	ogy
			Semes			/ l.	One alit	Max		
Cours	se Code	Course Name			rs/W		Credit		kimum M	1
				L	T	Р	C	CA	ES	Total
0821	0404C	JAVA PROGRAMMING		3	0	0	3	50	50	100
Objeo	ctive(s)	Understand the concepts or Applications and applets, intr network programs in Java.								
1	JAVA II	NTRODUCTION					Total Hrs		9	
Metho	ds, Inheri		and arra	ays, C)perat	ors, C		ments, C		Objects,
2	JAVA C	ONCEPTS					Total Hrs		9	
Packa	ges and I	nterfaces, Exception handling, I	Multithrea	aded p	rograi	mming	, Strings.			
3	PACKA	GES					Total Hrs		9	
Lang p	backages	, Util packages – The Collection	s Frame	work, l	/O pa	ckage	s, Net work p	oackage.		
4	INTRO	DUCTION TO AWT					Total Hrs		9	
Applet	ts Packag	e, Event handling, Introducing t	he AWT:	worki	ng wit	h wind	ows, Graphi	cs and T	ext.	
5	AWT P	ACKAGE AND DATABASE CO	NECTIV	/ITY			Total Hrs		9	
Using	AWT con	trols, Layout Managers and Me	nus, Java	a Data	Base	Conn	ectivity (JDB	C).		
Total h	nours to b	e taught							45	
Text b	ook (s) :	-						I		
1		Schildt, "The complete Refeny, 2006.	rence –	Java	2", f	ifth ea	dition, Tata	McGraw	Hill Pu	blishing
2		eitel, P.J. Deitel "JAVA [™] How to	program	n", sixt	h editi	on, Pe	earson Educa	ation – 2	007. [JDE	3C only]
Refere	ence (s) :									
1	Advanc	ed programming in JAVA prenti	ce – Hall	of Ind	ia Priv	vate Li	mited NIIT –	2003.		
2	Pratik p press –	patel and Karlmoss "Java Data 2000.	base pi	rogran	nming	with	JDBC", Sec	ond Edit	ion, Drea	am tech

K.S.F	Rangasamy College of Techno	ology - A	utono	mous	Regu	lation		R	2008
Department	Information Technology	Progra	amme	Code	&Nam	e Inf	21: B ormation	.Tech. Techn	ology
	<u> </u>	Semester	IV				ormation	TCOINT	ology
				urs/We	ek	Credit	Max	kimum I	Marks
Course Code	Course Name		L	Т	Р	C	CA	ES	Total
08210405S	DIGITAL SIGNAL PROCESSI (Common to CSE & IT)	-	3	1	0	4	50	50	100
Objective(s)	To have an overview of signals design of FIR filters , the effect							of IIR filt	ters, the
	AND SYSTEMS				-	otal Hrs		12	
-Sampling theore Z transform -Conv	digital signal Processing –Cono m –Discrete time signals. Discre- volution and correlation.				alysis	of Linear t		riant sy	
	URIER TRANSFORMS T – Efficient computation of DF	C Dropert			-	otal Hrs	 Podiv (12	aimation
	tion in Frequency algorithms.	r Propent	les of	JF I -	FFI	aigoninns		2 – Dec	cimation
	R DESIGN				Т	otal Hrs		12	
	- System Design of Discrete tir e. Bilinear transformation – App					is time filte	er – IIR i	filter de	esign by
	R DESIGN			anvec		otal Hrs		12	
	isymteric FIR filters – Linear ire for FIR systems.	phase fil	ter –	Windo	owing	technique	- Recta	angular	, Kaiser
	ORD LENGTH EFFECTS IN DIC	GITAL FIL	TERS	;	Т	otal Hrs		12	
rounding, Input c Application of DSI	tation – types, Quantization No juantisation ever – steady sta P – Model of speech wave form	ite input	noise						
Total hours to be t	aught							60	
Text book (s) :									
1 John G I Applicatio	Proakis and Dimtris G Manola n", PHI/Pearson Education, 200	akis, "Di <u>ç</u> 0, 3 rd Edi	gital S tion.	ignal	Proce	ssing Prin	ciples, A	Algorith	ms and
Reference(s):									
PHI/Pears	Dppenheim, Ronald W Schafe on Education, 2000, 2 nd Edition						Ũ		.
2 2002.	ohnson, "Introduction to Digital	•		•					
3 Sanjit K.I Second E	Mitra, "Digital Signal Processing dition.	g: A Com	puter	– Bas	ed Ap	proach", T	ata McG	iraw-Hi	ll, 2001,

	K.S.	Rangasamy College of Tech	nology - A	uton	omou	s Reg	ulation		R 20	800
Depar	tment	Information Technology	Program	nme (Code 8	Nam	e Inf	21: B. ormation		ogy
			Semest	er IV						
Course	Codo	Course Nome		Ηοι	rs / W	'eek	Credit	Max	imum Ma	arks
Course	Code	Course Name		L	Т	Р	С	CA	ES	Total
08210	406C	MICROPROCESSORS AND MICROCONTROLLERS		3	0	0	3	50	50	100
Object		To study the architecture ar programs in 8085 and 808 different peripheral devices programming of 8051 micro	36, design and their	and ι	Inders	tand	multiprocess 85/8086, stu	or config	jurations rchitectu	, study
1		85 MICROPROCESSOR					Total Hrs		9	
Introduc		085-Microprocessor architect	ure-Instruct	ion se	t-Prog	Iramm	•	-Timing I	Diagram	
2	8086 S	OFTWARE ASPECTS					Total Hrs		9	
	ge Progra	processor –Architecture-Instru amming-Interrupts and interru				ler dir		essing m	odes-As	sembly
3	8086 S`	YSTEM DESIGN					Total Hrs		9	
	ations-N	and timing –MIN/MAX mo umeric Processor and Coproc		eratior	-Addr	essin		and I/O	-Multipro	cessor
4		ERFACING					Total Hrs		9	
	rd/Displa	ng and I/O interfacing-Paralle y controller-Interrupt controlle				ace-S		nication i	nterface	-Timer-
5	MICRO	CONTROLLERS					Total Hrs		9	
Applicat	tion.	8051-Signals-Operational fe	atures- Ins	structio	on se	t-Merr	nory and I/C) Addres	sing-Inte	errupts-
	ours to be	e taught							45	
	ok (s) :									
Text bo									with the	8085"
1	Penram (UNIT -	n S.Goankar, "Microprocesso International publishing priva I:-Chapters 3, 5, 6 and progra	ate limited, f amming exa	ifth ea ample:	lition, s from	2002. chap	ters 7-10)			
1	Penram (UNIT - A.K.Ray and Inte	International publishing priva	ate limited, f amming exa ed Micropro	ifth economic ample: cocess	lition, <u>s from</u> ors an	2002. <u>chap</u> d per	ters 7-10) ipherals-Arcl			
1	Penram (UNIT – A.K.Ray and Inte	International publishing priva I:-Chapters 3, 5, 6 and progra &K.M.Bhurchandi", Advance erfacing", TMH, 2002 reprint.(I	ate limited, f amming exa ed Micropro UNIT II to IV	ifth ec ample: ccesso /:-Cha	lition, <u>s from</u> ors an apters	2002. <u>chap</u> d per <u>1-6,7</u>	ters 7-10) ipherals-Arcl .1-7.3,8,16)	hitectures	s, Progra	mming
1	Penram (UNIT – A.K.Ray and Inte ice (s) : Douglas 2002.	International publishing priva I:-Chapters 3, 5, 6 and progra &K.M.Bhurchandi", Advance rfacing", TMH, 2002 reprint.(I s V.Hall, "Microprocessor and	ate limited, f amming exa ed Micropro UNIT II to IV d Interfacin	ifth ec ample: ocesso /:-Cha g" Pro	lition, <u>s from</u> ors an apters ogram	2002. <u>chap</u> d per <u>1-6,7</u> ming	ters 7-10) ipherals-Arcl 1-7.3,8,16) and Hardwa	hitectures re". TMF	s, Progra	edition,
1 2 Referen	Penram (UNIT – A.K.Ray and Inte ice (s) : Douglas 2002. Yu-cher	International publishing priva I:-Chapters 3, 5, 6 and progra &K.M.Bhurchandi", Advance erfacing", TMH, 2002 reprint.(I	ate limited, f amming exa ed Micropro UNIT II to IV d Interfacin licroprocess	ifth ec ample: ocesso /:-Cha g" Pro	lition, <u>s from</u> ors an apters ogram	2002. <u>chap</u> d per <u>1-6,7</u> ming	ters 7-10) ipherals-Arcl 1-7.3,8,16) and Hardwa	hitectures re". TMF	s, Progra	edition,

K.S.	Rangasamy College of Techr	ology - Auton	omou	ıs Regi	ulation		R 2	800
Department	Information Technology	Programme	Code	&Name	e In	21: B.Tech. Information Technology		logy
		Semester IV	/					
Course Code	Course Norse	Ηοι	ırs / W	/eek	Credit	Max	Maximum Marl	
Course Code	Course Name	L	Т	Р	С	CA	ES	Tota
08210407P	JAVA PROGRAMMING LABORATORY	0	0	3	2	50	50	100
 Program to il Program to ir Program usir Program usir Program to a Program to ir Program usir 		and overriding. ces and packag sm.		oidance				
 Program usir Program usir 	•							
•	ing Net package							

Program using Net package.
 Program using JDBC.

K.S	Rangasamy College of Techno	logy - Aut	tono	mous	Regu	llation		R 20	008
Department	Information Technology	Program	nme	Code	&Nam	ne In	21: E formatior	3.Tech. n Techno	logy
		Semester	Semester IV						
a a i			Hou	rs / W	eek	Credit	Maximum Marks		
Course Code	Course Name		L	Т	Р	С	CA	ES	Tota
08210408P	DIGITAL SIGNAL PROCESSING LABORATORY	3	0	0	3	2	50	50	100
 Program of Program of Program of Program of Z & Invers Implement IIR filter de IIR filter de Butterwort Chebyshe FIR filter de IIR filter st IIR filter st 									

* It should be done in extra lab

K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	Julation		R 20	800
Department	Information Technology	Progra	amme	Code	&Nam	ne Inf		3.Tech. 1 Technol	ogy
		Semes	ster I\	/					
Course Code	Course Norse		Ηοι	irs / W	/eek	Credit	Max	ximum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210409P	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY		0	0	3	2	50	50	100
Addition / Su				Ũ					
3. Programming 4. 8086 Micropr	g with 8085-code conversion, de g with 8085-matrix multiplication rocessor based experiments-Sir	nple asse	embly	langu	age pr				
6. Interfacing w	ith 8085/8086-8255 Parallel Cor ith 8085/8086-8253 Timer Interf ith 8085/8086-8279 Keyboard D	ace.			e.				
-	ith 8085/8086-8251Serial Com								

9. 8051 Microcontroller based experiments-Simple assembly language programs.

10. 8051 Microcontroller based experiments-Simple control applications.

K.S.Ran	gasamy College of Te	chnology	Auto	nomo	ous R	egulation			R 2008
Department	Information	Pro	gram		ode &			21: B.T	
	Technology			ame	N /		Infor	mation T	echnology
	-		Seme			-	n		
Course Code	Course Name	Ð	Но	urs/W	eek	Credit			num Marks
			L	Т	Р	С	CA	ES	Total
08210410P	COMPREHENSION -		0	0	3	0	100	00	100
Objective(s)	i) To comprehend t ii) To improve the to	echnical kr	nowlee	dge o	f the s	students.	(5	-ite - 10	
Methodology	 For each subject 2 are to be prepared These 200 keywor pages and is to be The staff who is have respective discuss The staff will explain linking the keywor In a similar way th 	I. ds are to be handed o andling the sion period ain and que ds.	pe prin ver ea subje (3 pe estion	nted in ach st act in riods/ the s	n doul udent the cu /seme tuden	ble column for all the urrent seme ster) as giv ts using 'W	(2x50 v subjects ester wil ven belc '' and 'H	vords) ar s. II handle w. I' type qu	nd in 2 the restions
	The Schedule for Con	duct of Co	mpre	hensi	on Su	biect.	o loi ui	the Rey	
	Week	Acti	-						
		First 1½ subject uni	Perio (No.)			xt 1½ perio bject (No. o units)			Hours
	W1	S1				S2 (2)			3
	W2	S3	(2)			S4 (2)			3
	W3		S5 (2)			S6 (2)			3
Execution	W4	Test-I (P	ortion	:2 uni	its in e	each subje	ct)		1
	W5	S1				S2 (3)	,		3
	W6	S3	• •			S4 (3)			3
	W7	S5	• •			S6 (3)			3
	W8		. ,	n:3 ur	nits in	each subje	ect)		1
	W9			Discu		,-			3
	W10	Test-II				all subject)			1
		163131	. (7	Tot					24
	It is a two creater	hit (2 hro h	voola)				<u> </u>		L T
	Only continuo	us Assess	ment	(CA)	and N	lo End Sen	nester e		on. respective units
	Component						ghtage		
Evaluation	Test – I						25		
	Test – II					:	25		
	Test – III						50		
	Total						00		
S1	08210401C – Probabi	lity and Sta	atistic	s					
	08210402C - Softwar								
 	08210403C - Informa	-	-	hniau	es				
	08210404C – Java Pr		-						
04									
	08210405S – Digital S			a					

	K.S.R	angasamy College of Techno	logy -	Auto	nom	ous Re	gulation			R 2008
Depai	rtment	Information Technology	Prog	gram	me C	ode & N	Name		21: B.Te	ech. echnology
			Sem	neste	er IV					ciniology
						Veek	Credit		Maximu	m Marks
Course	e Code	Course Name		L	Т	P	C	CA	ES	Total
08210	0411P	CAREER COMPETENCY DEVELOPMENT II		0	0	2	0	100	00	100
Objec	tive(s)	i. To improve the skill level of s ii. To improve the employability			s					
1	Aptitud	de Skills								Hrs
interes b. Vert test - L c. Non	t - Comp bal Reas .ogic - St verbal Re	bility: Ratio and proportion - F ound interest - Alligation or mix oning: Coding and decoding - atement – Arguments - Stateme easoning: Analytical Reasoning	ture - A Blood ents - A	Area Rela Assui	tions mptio	- Puzzl ns	e Test - D	irections	•	8
2		nming Skills								
		: Pointers - File Operations res : Linked List – Stack – Queu	ıe – So	rting						6
3		Communication Skills		. 3						4
Error c	correctior	in the usage of conjunctions	s, Tens	es, \	Voice	s & Si	ubject – v	erb Agre	ement	
(conco	ord) - Ess	ay Writing Vritten Test					-	Ũ		2
4		ommunication								
Evalua	tion II, G	roup Discussion I								2
		Group Discussion II								2
5	Technic	al Paper Presentation								
Evalua	tion IV,	Technical Paper Presentation II	(Assoc	ciatio	n Ses	ssion)				8
									Total	32
Refere	nce(s):									
1		garwal ,"Quantitative Aptitude", 2, 16, 19, 20, 21, 22 & 24 (Unit -		and a	& Co	mpany	Ltd., New	v Delhi, I	Reprint	2007 (Twice)
2	R.S.Ag Ltd., Ne & 6) (Ur	garwal,"A Modern Approach w Delhi, 2008, Part I – Section hit – I)	to Verb I (Ch	- 4,5	,6 & 8	B) Part I	- Section	II (Ch -1	,2 & 3)	Part II (Ch 4,5
3	Yashav	ant Kanetkar, "Let us 'C' ", BPI	B Publi	catio	ns, N	ew Dell	hi, 2002, C	Ch - 5, 8,	12 (Un	t – II)
4	(Unit –	len Weiss , "Data Structures an I)	-					n Educat	ion 200	2, (Ch -3,7)
5	CCD G	uide of English Department of K	SRCT	- 20	08 (U	nit III, I	V & V)			
EVALL	JATION	CRITERIA								
S.No	Particu	ar	Test	Porti	ion					Marks
1	Evaluat Written)Q - : OQ 2		t II – OQ –	- 30		50
2	Evaluat						arks, TS –	5 Marks		15
3	Evaluat		P – 1	0 Ma	arks,	C – 5 N	larks, TS -	- 5 Marks	6	15
-			1							
4	Evaluat	ion IV cal Paper Presentation	P – 1	0 Ma	arks,	C – 5 N	larks, Q –	5		20

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. HODs will display about 50 topics for oral communication.
- 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.Ra	ingasamy College of Techn	ology - Auto	nomol	us Reg	julatio	on		R 20	008
Dep	partment	Information Technology	Program		e &			21: B.		
		0,	Semest	ame			Inform	nation	Fechnolo	gy
			Semest	-	rs / We	o lí	Credit		aximum	Morko
Cou	rse Code	Course Name		L	T	Р	Credit	CA	ES	Total
082	10501G	PROFESSIONAL ETHICS		3	0	Р 0	3	50	50	100
		To create an awareness or	Ethics and		•	v				
	jectives	Students.						•		
	INTRODU						tal Hrs		9	
actio Gillig	n – Major an theory -	 Engineering as a professio ethical issues – Three type Moral dilemmas – Moral aut 	s of inquiry onomy – Val	- Kohl	berg's	stage			elopmer	
2	ENGINEEF	RING AS SOCIAL EXPERIME	ENTATION			То	tal Hrs		9	
introc 3 Safet	duction, rule ENGINEEF ty and Risk	sultants and leaders – Acc es of practice and professiona RS RESPONSIBILITY FOR S - Types of risks – Safety a three mile Island disaster ca	al obligations SAFETY AND and the engir	<u>– The s</u> D RISK neer – I	space Design	shuttle To iing fo	e challeng tal hrs r safety -	per cas - Risk	e study. 9	
		IBILITIES AND RIGHTS					tal Hrs		9	
Barga	aining – Co	vo senses of loyalty – Profess onfidentiality – Acceptance of								ollective
	GLOBAL IS					-	tal Hrs		9	
		 Cross Cultural Issues – Th Intellectual property rights (IP 		s trage	dy cas	e stu	dy – Com	nputer	ethics -	Weapons
Total	hours to b	e taught							45	
Text	book :									
	Govindaraj Delhi, 2005	an M, Natarajan S, Senthil K 5.	umar V.S, "E	ngineer	ing Et	hics",	Prentice I	Hall of	India (P)	Ltd, New
Refe	rences:									
	Limited, Ne	lartin and Roland Schinzinge ew Delhi, 2007.		Ū.	•				Ū	
	Govindan I Chennai, 2	K.R., and Sendhil Kumar S., 007.	"Professiona	I Ethics	s and I	Huma	n Values"	, Anura	adha Pul	blications,

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	Julation		R 20	008
Departr	nont	Information Technology	Pro	gramr	ne Co	de &			.Tech.	
Departi	nem	mormation recinology		-	me		Inf	ormation	Technol	ogy
			Seme							
Course	Code	Course Name		Hou	rs / W	eek	Credit		kimum M	arks
	0000			L	Т	Р	С	CA	ES	Total
082105	02C	OBJECT ORIENTED ANALYS AND DESIGN		3	0	0	3	50	50	100
Objectiv	/e(s)	To understand the Object O services and attributes throu Oriented Design process, kno	gh UML,	unde	rstand	the	use-case dia	agrams, I		
1	INTRO	DUCTION					Total Hrs		8	
An Over Developr	nent Lif			ment	- Ob	ject	Basics – O	bject Or	iented S	Systems
2	OBJE	CT ORIENTED METHODOLOG	GIES				Total Hrs		12	
Approach Collabora	n – Unif ation Di	hodology - Booch Methodolog ied Modeling Language – Use agram - State Diagram - Activit	case - Cl	ass Di			eractive Diag		ckage Di	
3		CT ORIENTED ANALYSIS					Total Hrs		9	
Identifyin Methods.		cases - Object Analysis - Cl	assificati	on —	dentif	ying		onships	- Attribu	tes and
4	OBJE	CT ORIENTED DESIGN					Total Hrs		8	
Design a	xioms -	Designing Classes – Access L	ayer - Ol	oject S	torage	e - Ob	ject Interope	rability.		
5	SOFT	WARE QUALITY AND USABIL	ITY				Total Hrs		8	
Designin	g Interf	ace Objects – Software Quality	Assuran	ce – S	ystem	Usat	oility - Measu	ring Use	r Satisfac	ction.
Total hou	irs to be	e taught							45	
Text boo	k (s) :									
1	Ali Ba	hrami, "Object Oriented System	ns Develo	pmen	ť", Tat	a McC	Graw-Hill, 20	02 (Unit I	, III, IV, \	/).
2	Martin	Fowler, "UML Distilled", Secor	d Editior	, PHI/	Pears	on Ed	ucation, 200	2. (UNIT	II).	
Reference	e (s) :									
1	Steph	en R. Schach, "Introduction to (Object Or	iented	Analy	/sis aı	nd Design", T	Fata McG	Fraw-Hill,	2003.
2		s Rumbaugh, Ivar Jacobson, al", Addison Wesley, 1999.	Grady	Booch	1 "The	e Uni	fied Modelir	ng Langi	uage Re	ference
3	Hans-	Erik Eriksson, Magnus Penke hing Inc., 2004.	r, Brain	Lyons,	Davi	d Fac	lo, "UML To	olkit", Ol	MG Pres	s Wiley

	K.S.I	Rangasamy College of Tech	nnology -	Auto	nomo	us Re	gulation		R 20	800
Departr	ment	Information Technology	Pro		me Co ame	de &	Int		B.Tech. n Technol	ogy
			Sem	nester	V					
Course	Codo	Course Code		Ηοι	urs / W	'eek	Credit	Ma	aximum Ma	arks
Course	Code	Course Code		L	Т	Р	С	CA	ES	Total
082105	03C	OPERATING SYSTEMS		3	1	0	4	50	50	100
Objectiv		To have an overview of di operating system have a knowledge of storage mana	thorough	know	ledge	of pro	ocess manag	gement,	have a t ns.	
1		C CONCEPTS					Total Hrs		9+3	
Clustered System Processe	d Syste Progra es – Inte	Aainframe systems – Desktems – ms – Real Time Systems – ms - Process Concept – F er-process Communication.	Handheld	Syste	ems- (Operat	ting System Serations on F	Services	– System es – Coo	Calls –
2		CESS MANAGEMENT					Total Hrs		9+3	
Scheduli	ng Algo onizatio	erview – Threading issues prithms – Multiple-Processor on Hardware – Semaphores - ORY MANAGEMENT - I	Schedulir	ng – R	eal Tir	ne Scl	heduling - Th			
					<u>, ,</u>					
Deadlock	k avoid	 Deadlock Characterization ance – Deadlock detection – nory allocation – Paging – See 	Recover	y from	n Dead	llocks	- Storage Ma	anageme		
4		ORY MANAGEMENT - II	0				Total Hrs		9+3	
	ncept –	– Demand Paging – Proces Access Methods – Directory								
5		'STEMS					Total Hrs		9+3	
	anager	ucture – File System Implem nent. Kernel I/O Subsystems nent.								
Total hou	urs to b	e taught							60	
Text boo	k :									
1		am Silberschatz, Peter Bae n, John Wiley & Sons (ASIA)			Greg C	Bagne	, "Operating	System	Concepts	s", Sixth
Reference	ce (s) :									
1		y M. Deitel, "Operating Syste								
2	Andre	w S. Tanenbaum, "Modern C	Dperating	Syster	ms", P	rentice	e Hall of India	Pvt. Ltd	l, 2003.	
3	Williar	n Stallings, "Operating Syste	m", Prent	ice Ha	Ill of In	dia, 4 ^t	^h Edition, 200	3.		
4	Pramo 2003.	od Chandra P. Bhatt – "An	Introduction	on to	Opera	ting S	ystems, Con	cepts a	nd Practic	e", PHI,

K.S	Rangasamy College of Tec	hnology -	Autor	nomou	us Re	gulation		R 2	008
Department	Information Technology	Pro	0	ne Coo me	de &	Inf	21: B ormation	.Tech. Techno	logy
		Sem	ester \	V					
Course Code	Course Name		Ηοι	irs / W	eek	Credit	Max	kimum M	arks
Course Coue	Course Name		L	Т	Р	С	CA	ES	Total
08210504C	COMPUTER NETWORKS		3	1	0	4	50	50	100
Objective(s)	To understand the concepts introduce IEEE standards familiarized with different Pro	employed	in C	omput	ter Ne	etworking, m			
1 DATA CO	OMMUNICATIONS					Total Hrs		8+3	
OSI model – T	omponents and Categories –L ransmission Media – Coaxial					Coding – Mod			
	NK LAYER					Total Hrs		10+3	
Stop and Wai 802.3 – IEEE 8	ion and Correction – Parity – t – go back-N ARQ – Select 802.4 - IEEE 802.5 - FDDI - Bi	ive Repea				indow – HDI		- Etherr	
	RK LAYER					Total Hrs		9+3	
Algorithms – D	 Circuit Switching – Packet S Distance Vector Routing – Link 			dressir	ng me		netting –	Routers-	Routing
_	ORT LAYER					Total Hrs		9+3	
Transmission	nsport Layer – Multiplexing - Control Protocol (TCP) – Cong								
	TION LAYER					Total Hrs		9+3	
	e Space (DNS) – SMTP – F P-Access Authorization.	TP – HTI	P - V	/WW	– Sec	urity – Cryp	tography	-Privac	y–Digital
Total hours to	be taught							60	
Text book :									
	A. Forouzan, "Data commu Hill, Fourth Edition , 2006.	unication	and N	letwor	king	(MCGraw-Hil	I Forouz	an Netv	working",
Reference (s)	:								
Fifth Editi		•		Ũ	•				
² Series in	eterson and Bruce S. Davie, " Networking, Fourth Edition,20	07.			•		ch", The∣	Morgan I	Kaufman
-	Tanenbaum, "Computer Net								
4 William S	tallings, "Data and Computer (Communic	ation"	, Eight	h Edit	ion, Pearson	Educatio	n, 2007.	

K.S.	Rangasamy College of Tech	nology - A	utono	mous	Regu	lation		R 20	008
Department			ramm	e Cod	_				
Department	information reenhology			ne		Inf	formation	n Technol	ogy
		Semes			r		1		
Course Code	Course Name	Course Name L T P C CA ASE MANAGEMENT MS 3 1 0 4 50 ASE MANAGEMENT MS 3 1 0 4 50 In the fundamentals of data models and to conceptualize and depict a data R diagram, make a study of SQL and relational database design, us storage structures using different file and indexing techniques whice I DB design, know the fundamental concepts of transaction processing techniques and recovery procedure, have an introductory knowled ing trends in the area of distributed DB- OO DB- Data mining and Data L. N AND CONCEPTUAL MODELING Total Hrs Database systems- Database system structure – Data Models – ER modora and Calculus. Total Hrs ADDEL Total Hrs Pares and Calculus. Total Hrs GDEL Total Hrs erries in SQL- Updates- Views-Integrity and Security - Relational Data schniques – Index Structure for files –Different types of Indexes- B-Tree - IMANAGEMENT - Introduction- Need for Concurrency control - Desirable properties o ability- Serializability – Concurrency Control – Types of Locks- Two F currency control – Recovery Techniques – Concepts- Immediate Upc databases - Need for Complex Data types - OO data Model- Nested relation areas of Complex Data types - OO data Model- Nested relation areas of XML- Data- XML Document- Schema- Querying and Transform using. schatz, Henry F. Korth and S	ximum Ma	1					
			L	Т	Р	С	CA	ES	Total
08210505S	DATABASE MANAGEMENT SYSTEMS		_	•	-			50	100
Objective(s)	using ER diagram, make a internal storage structures physical DB design, know th control techniques and rec	study of S using differ ne fundame covery proc	SQL a rent fi ental c cedure	ind re le and oncep , hav	lationa d inde ots of t e an	l database xing techn ransaction introductor	e design iques w process ry know	, understa hich will sing- conc ledge ab	and the help in currency out the
1 INTRO		AL MODELI	NG			Total Hrs		9+3	
Introduction to F				structu	re – D		s – ER m		elational
	IONAL MODEL					Total Hrs		9+3	
Functional depe	endencies - Normalization for F	Relational D				CNF).	ational [design-
								9+3	
4 TRANS	SACTION MANAGEMENT		ies –L	merer	n type:		<u>- D- He</u>	<u>9+3</u>	e
Schedule and	Recoverability- Serializability used concurrency control – R	 Concurre 	ency (Contro	I — Ту	pes of Lo	cks- Two	o Phase	locking-
	ENT TRENDS					Total Hrs		9+3	
Types- Inherita data Storage – Mining and Data	nce Reference Types - Distr XML – Structure of XML- Data a Warehousing.	ibuted data	bases	- Hor	nogen	ous and H	leteroge	nous- Dis	tributed
Total hours to b	e taught							60	
Text book :									
	am Silberschatz, Henry F. Kort w-Hill, 2006.	h and S. Su	udarsh	ian - "	Databa	ase System	n Conce	ots", Fifth	Edition,
Reference (s) :									
Educat	ion, 2003.					-	-		
2003.		Ū						U U	
Pearso	n Education- 2000.						-	•	
	Rob and Corlos Coronel- "I son Learning Course Technol					mplementa	ation an	d Manag	ement",

K.S	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 2	800
Department	Information Technology	Pro			de &	Inf			ogy
		Seme	ster V						
Course Code	Course Name		Hou	rs / W	eek	Credit	Ma	ximum M	arks
Semester V Course Code Course Name Hours / Week Credit Maximum Marks 08210506C TELECOMMUNICATION SYSTEMS 3 0 0 3 50 50 100 Objective(s) To gain knowledge about characteristics of Transmission and microwave devices, study about the fundamentals of satellite communication & optical communication, gain knowledge about advances in Telephone systems and TV systems, understand the essentials of cellular communication systems and wireless technologies. 1 INTRODUCTION TO MICROWAVE AND RADARS Total Hrs 9 Transmission lines – Types and Characteristics, Antenna Fundamentals – Different types of antennas & their Characteristics, Radio Frequency wave propagation- Microwave –Principles, Devices (Reflex Klystron, Magnetron, TWT)-(Principles Only) Radar - Pulsed Radar - CW Radar (Principles and Block Diagram Only). 2 2 INTRODUCTION TO ATELLITE COMMUNICATION AND Total Hrs 9 Satellite orbits- Satellite communication, bystems –Satellite Sub Systems –Earth stations- Satellite Applications: Surveillance, Navigation, Mobile Communication, Digital Satellite Radio, Satellite Telephone-Global Positioning System. 3 INTRODUCTION TO OPTICAL COMMUNICATION AND Total Hrs 9 TELEPHONE SYSTEM Total Hrs 9 Total Hrs 9 V					Total				
08210506C		-	-	•	•	-			
	the fundamentals of satellite of advances in Telephone syste communication systems and w	communic ems and ireless te	cation TV s chnolo	& opt syster	ical co	ommunicatio	n, gain l	knowledg	e about
1 INTROD	UCTION TO MICROWAVE AND	D RADAR	RS			Total Hrs	;	9	
Characteristics Magnetron, TV	, Radio Frequency wave pro VT)-(Principles Only) Radar - Pu	pagation	- Mic ar - CV	rowav	re −P	rinciples, De inciples and	evices (Block Di	Reflex k	Klystron,
System. 3 INTROD TELEPH Light wave co	OUCTION TO OPTICAL COMMU ONE SYSTEM mmunication systems – Fiber	INICATIC	ON AN	D	on typ	Total Hrs	- Optic	9 al Transi	mitter &
						Total Hrs		Q	
TV Signal – G	Generating Video Signal – Colo					/ transmitter			- Colour
							;	9	
Wireless LAN	- PAN's & blue tooth - Zigbee	& Mesh	Wirele	ess N	etworl	ks – Wi-max	& Wirel	less Metr	
Total hours to I	be taught							45	
()									
Hill, 200	4.								
		s Comm	unicati	on Sy	stem"	, 3 ^{ra} Edition,	Tata Mc	Graw-Hill	, 2008.
Reference (s) :									
	Fomasi, "Electronic Communicat								
2 Marin Co	ole, "Introduction to Telecommun	ications -	-Voice	, Data	and I	nternet", Pea	arson Ed	ucation, 2	2001.

K.S	Rangasamy College of Techr	ology - Auto	nomol	ıs Reg	ulation			800
Department	Information Technology	Progran N	nme Co Name	ode &	In	21: E formation	5.Tech. Techno	logy
		Semester '	V					
	Course Norse	Ho	ours / W	/eek	Credit	Max	kimum M	arks
Course Code	Course Name	L	Т	Р	С	CA	ES	Tota
08210507P	CASE TOOLS LABORATORY	(0	0	3	2	50	50	100
 Define requi Record Term Design Use Identify pote Identify asso Develop class Develop dep Develop a p SUGGESTED Student Mar Quiz System Online Ticke Payroll System 	minary investigation report rements ns in Glossary Case diagrams ntial objects and classes ociations and operations to poter ss diagrams, activity diagrams, s oloyment diagrams, orototype and validate it LIST OF APPLICATIONS: ks Analyzing System t Reservation System em istration System ems		grams					

K.S	Rangasamy College of Techn.	ology - A	uton	omou	s Reg	ulation		R 2	800
Department	Information Technology	Prog		ne Co Ime	de &	Int	21: B formation	.Tech. Technol	ogy
		Semes	ster V						
<u> </u>			Hou	rs/W	eek	Credit	Max	kimum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Tota
08210508P	OPERATING SYSTEM AND C SOURCE LABORATORY	DPEN	0	0	3	2	50	50	100
Implement the	following on LINUX platform. Us	se C for hi	igh le	vel lar	iguage	e implementa	ation)	•	
1. Shell prograi									
 Shell program command state 									
- write simpl									
- basic tests									
 Shell program loops 	mming								
- patterns									
- expansior									
- substitutio	-	- 11	11/						
	ms using the following system ca etpid, exit, wait, close, stat, oper			erating	g syste	em:			
	ms using the I/O system calls of			n svste	em (or	en, read, w	rite, etc)		
	rams to simulate UNIX comman				o (op	,	,)		
	t of processes, their CPU burst t								
	JF. For each of the scheduling p	olicies, co	omput	e and	print t	he average	waitir	ng time a	and
average turn	around time t of processes, their CPU burst t	imae and	orrive	ltimo	a dian	lov/print the	Contt of	ort for	
Priority and I	Round robin. For each of the sch turnaround time							age waitir	ng time
	f Open Source – Desktop Linux	OS. confi	durati	on.					
	f Open Office, Mail client & Web				d config	guration.			
	on, Group Creation.								
•	on of DNS, DHCP.								
12 Configurati	on of device like Printer. Etherne	and TCF	P/IP						

12. Configuration of device like Printer, Ethernet and TCP /IP.

K.S.	Rangasamy College of Te	chnology - /	Auton	omou	s Reg	ulation		R 20	800
Department	Information Technology	Prog	ramm Nan		e &	Inf	21: B ormation	.Tech. Technol	ogy
		Seme	ster V						
O avera a O a da	Course Norse		Hou	rs / W	/eek	Credit	Max	kimum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210509P	DATABASE MANAGEME SYSTEMS LABORATOR		0	0	3	2	50	50	100
LIST OF EXPER									
	ion Language (DDL) comma			~					
	ulation Language (DML) cor I Language (DCL) comman			5.					
	anguage extension with Cur		0.						
	anguage extension with Trig								
6 Procedures	and Functions								

6. Procedures and Functions.

7. Embedded SQL.

8. Integrity in SQL.

9. Design and implementation of Payroll Processing System.

10. Design and implementation of Banking System.

11. Design and implementation of Library Information System.

Departm	ient	Information Technology	PIO		nme (Code &		21	: B.Tec	n.
				- N	Name			nformat	ion Tec	hnology
		reenneregy	Sem					monna		mology
						Neek	Credit	N	<i>A</i> aximu	m Marks
Course C	Code	Course Name		L	Т	Р	C	CA	ES	Total
0821051		CAREER COMPETENCY DEVELOPMENT III		0	0	2	0	100	00	100
Objective		. To improve the skill level of i. To improve the employabil			5					
1 A	Aptitude		ity of otuc		5					Hrs
Probabilit <u>y</u> b. Verbal reasoning	y - Heig I Reaso g - Data	lity : Partnership - Chain rul hts and Distance ning : Logical Venn Diagra Sufficiency - Statement – C soning : Rule detection - Cu	ams - Lo onclusior	ogica 1 - D	al Se	quence	of Words	- Arithn	netical	8
2 Pr	rogramr	ning Skills								6
Object Or Operator 3 W	iented F <u>Overloa</u> /ritten C	Tree - Graph Programming : Introduction t Iding – Inheritance – Templa ommunication Skills	tes - File	e I/O		•			-	
expressio	ons and	n the usage of degrees of co system international (SI) un					ises, numeri	cal		4
Evaluation										2
		nmunication Skills		- 1-						0
		n Demo - Listening compreh oup Discussion	ension L	ab						2 2
		Skills (Association Session)								۷.
		echnical Interview - Technica	al Intervi	ew I	(Obie	ective tv	/pe questior	s from '	V th	4
semester	subject					-				
			- Auapi	auiii	ty, Se	ii uevei	opment, or	ealivity	Total	4 32
Reference	e(s):								Total	52
		rwal, "Quantitative Aptitud 14, 27, 30, 31, 34, 36, 37, 3				mpany	Ltd., New	Delhi, F	Reprint	2007 (Twice
Ne 14	ew Delh 4) (unit -	rwal,"A Modern Approach ii, 2008, Part I – Section I (C - I)	Ch - 9,14	1,15	& 17)) Part I-	-Section II (Ch – 5	& 6) Pa	rt II (Ch 12
(u	ınit – II)	n Weiss , "Data Structures a	C C				•			
18	8, 21)	childt , "The Complete Refer						(Ch - 1	1, 12, 1	4, 15, 16,17
		de by English Department of				it – III, I	IV & V)			
6 HI	R Interv	iew Guide by Training Cell, I	KSRCT, 2	2008	3.					
EVALUAT	TION CF	RITERIA								1
	articula		Test Pc							Marks
	valuatio Vritten T		Unit I – Unit III ·			, Unit II	– OQ – 30			50
		n II - Group discussion				5 Mark	s, TS – 5 M	arks		15
3 E [,]	valuatio	n III - Technical Interview	6 quest	ions	each	2½ Ma	rks			15
4	valuatio		Creativi (Adopta marks)				Self develop	oment –	7	20
. н										

- 1. Question paper and keys will be supplied by the training cell for written test for Evaluation I
- 2. Respective Departments will conduct Evaluation I, II, III & IV, correct and submit the marks obtained by the students to the Training Cell.
- 3. HODs will display about 50 topics for oral communication.
- 4. All training & tests will be conducted on odd Saturdays, Session of 2 periods in FN & Session of 2 periods in AN & Association Session.
- 5. 66 students may be divided into 10 groups of 6 each. Each group may be evaluated in 10 Minutes for GD.
- 6. 60 objective type questions, 10 questions from each of 6 subjects 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.	Rangasamy College of Tech	nology	- Auto	onomo	ous Regu	lation		R	2008
Department	Information Technology	Progra	amme	code &	& Name	Info		.Tech. Techno	ology
		Serr	nester	VI					
Course Code	Course Name		H	ours / V	Veek	Credit	Ма	aximum	Marks
Course Code	Course Marine		L	Т	Р	С	CA	ES	Total
08210601G	PRINCIPLES OF MANAGE		3	0	0	3	50	50	100
Objective(s)	Knowledge on the principle organizations. After studyin of the managerial function Students will also gain some	g this co ns like	ourse, plann	studer ing, o	nts will be rganizing	e able to ha , staffing,	ve a cle leading	ar unde and c	erstanding controlling.
1. HISTORI	CAL DEVELOPMENT				To	tal Hrs		9	
	nagement – Science or Art – ribution of Taylor and Fayol –								
2. PLANNIN	IG				To	tal Hrs		9	
Management by	se – Types of Plans – Steps ir / Objectives – Strategies, Polic								
3. ORGANIS	SING rpose – Formal and informal				-	tal Hrs		9	
Effectiveness. 4. DIRECTII Scope – Human Theories – Mo	n Factors – Leadership – Typ tivational Techniques – Job	es of Le Enrichn	eaders	hip – ľ - Com	To Motivation municatio	al Hrs n – Hierarcl on – proce	hy of ne	9 eeds –	Motivation
	eakdown – Effective Communi	ication -	Elect	ronic m			ion.		
5. CONTRO	DELING Decess of Controlling – Require	monto f	or off	o oti vo	-	tal Hrs		9 otrol To	obniquo
Information Tec and Manageme Environment – (hnology in Controlling – Use on nt – Control of Overall Perfor Globalization and Liberalization	of compu mance -	uters ir - Dire	n handl ct and	ing the ir preventiv	nformation - ve Control -	- Produ - Repor	ctivity – ting – T	Problems he Global
Total hours to b	e taught							45	
Text book (s):									
	ooritz & Heinz Weihrich, "Esse			-					
	Massie, "Essentials of Manag	ement",	Prenti	ce Hal	l of India,	(Pearson)	Fourth	Edition,	2003.
Reference(s):									
	PC And Reddy PN, "Principles		•					Drant	
India, 199						-			
	her, Freeman R. E and Daniel			-			tion, Six	th Editi	on, 2004.
	Mazda, "Engineering Manage				-				
5. Prasad L.	M, "Principles of Management	t″, Sultar	n Char	nd & So	ons Ltd, 2	2003.			

К.	S.Rangasamy College of Techn	ology - /	Auton	omou	s Reg	Julation		R 2	800
Department	Information Technology	Pro	gramr		de &			B.Tech.	
				ame		Inf	ormation	n Technol	ogy
	I	Seme	r			1	1		
Course Code	Course Name		Hou	rs / W	eek	Credit	Ma	ximum M	arks
			L	Т	Р	С	CA	ES	Total
08210602S	NUMERICAL METHODS		3	1	0	4	50	50	100
Objective(s)	At the end of the course, the numerical methods and their us or transcendental) equations, problem of a matrix can be obt When huge amounts of experir will be useful in constructing intermediate values, numerical in the analytical form is too con- of measurements, observations	ses are s solutions tained nu nental da approxim different mplicated	umma s of la merica ita are nate p iation l or the	rized a ally wh involv olynor and in e huge	as foll ystem nere a ved, th nial to tegrat e amo	ows: The roo of linear e nalytical met ne methods o represent ion find app unts of data	ots of nor quations thods fail discussed the data lication v	nlinear (a and eig l to give s d on inter and to vhen the	Igebraic envalue solution. polation find the function
1 SOL	UTION OF EQUATIONS AND EI			Cilipii		Total Hrs		9+3	
	BLEMS								
Gauss-Jordor	lation methods (method of false p n methods- Iterative methods: Ga n method – Eigen value of a matri	auss Jac	obi an	d Gau					
	RPOLATION AND APPROXIMA					Total Hrs		9+3	
	olynomials – Divided difference erence formulas.	s – Intei	polatir	ng wit	hac	ubic spline	 Newto 	on's forw	ard and
3 NUM	IERICAL DIFFERENTIATION AN	D INTEG	RATIC	DN		Total Hrs		9+3	
trapezoidal ar	om difference tables – Divideo nd Simpson's 1/3 and 3/8 rules – puble integrals using trapezoidal a	Romberg	y's me	thod –					
	AL VALUE PROBLEMS FOR OR ERENTIAL EQUATIONS	DINARY				Total Hrs		9+3	
Single step m	ethods: Taylor series method – E olving first order equations – M								
	NDARY VALUE PROBLEMS IN (TIAL DIFFERENTIAL EQUATIO		RY AN	D		Total Hrs		9+3	
Finite differer dimensional	nce solution of second order or heat equation by explicit and i aplace and Poisson equations.	dinary di							
Total hours to								60	
Text book :							I		
	lasamy, P., Thilagavathy, K. and i, 2003.	d Gunava	athy, K	., "Nu	Imeric	al Methods"	, S.Char	nd Co. Lt	d., New
Reference (s)									
	ld, C.F, and Wheatley, P.O, "App Delhi, 2002.	lied Num	erical	Analy	sis", S	Sixth Edition,	Pearsor	Education	on Asia,
2 Burd	en, R.L and Faires, T.D., "Nu apore, 2002.	merical /	Analys	is", S	event	h Edition, T	homson	Asia P	vt. Ltd.,

	K.S.	Rangasamy College of Techn	ology - A	uton	omou	s Reg	Julation		R 2	800
Denai	rtment	Information Technology	Pro	gramr		de &			.Tech.	
Depai	linent	Information Technology		-	me		Inf	ormation	Techno	ogy
			Semes	ster VI			1			
Course	e Code	Course Name		Hou	rs / W	eek	Credit	Max	imum M	arks
Course	e coue	Course Marile		L	Т	Ρ	С	CA	ES	Total
08210)603C	TCP/IP AND SOCKET PROGRAMMING		3	0	0	3	50	50	100
Objec	tive(s)	To know about IP layer protoc and applications layer protoc programming applications.								
1	INTER	NET PROTOCOLS					Total Hrs		12+3	
delivery Protoco 2	/, forward ol – Interr TRANS	and the TCP/IP protocol suite ling and routing of IP packets - net Group Management Protoco MISSION CONTROL PROTOC	- ARP and ol. COL	d RAF	RP – Ir	nterne	t Protocol – Total Hrs	Internet (Control N 8+3	
User Da	atagram	Protocol – Transmission Contro	ol Protoco	ol – Sti	ream (Contro	ol Transmiss	ion Proto	col.	
3	ROUTI	NG AND APPLICATION LAYER	R PROTC	COLS	3		Total Hrs		9+3	
Unicast System	0	Protocols – RIP, OSPF and	BGP – F	lost C	Configu	uratior	ι – BOOTP,	DHCP -	- Domai	n Name
4	ELEME	NTARY SOCKETS					Total Hrs		8+3	
	s Introdu Options.	ction – Socket Address Struc	ture – E	lemer	tary -	TCP \$	Sockets – S	ending a	and Rec	eiving –
5	SOCKE	T PROGRAMMING APPLICA	TIONS				Total Hrs		8+3	
		t Server – UDP Echo Client S – File Transfer : FTP and TFTP		Eleme	ntary	Name	e and Addres	ss Conve	rsions.	Remote
Total ho	ours to be	e taught							60	
Text bo	ok :									
1	Behrou	z A. Forouzan, "TCP/IP Protoco	ol Suite",	Third	Editio	n, Tata	a McGraw H	ill, New D	elhi, 200)7.
Referer	nce (s) :									
1		s E.Comer, "Internetworking wi e Hall, New Delhi, 2007.	th TCP/IF	P, Prin	ciples	, Prot	ocols, and A	rchitectu	re", Fifth	Edition,
2		I Stevens.w, "Unix Network Pro	gramming	g", Thi	rd Ed	tion, F	Prentice Hall	, New De	lhi, 2003	i.

K.S.	Rangasamy College of Techn	ology - /	Autono	omou	s Reg	ulation		R 20	008
Department	Information Technology	Pro	gramn	ne Co ime	de &	Inf		3.Tech. n Technol	001/
		Seme					onnation	TECHIO	ogy
			Hou	rs / W	eek	Credit	Ma	ximum Ma	arks
Course Code	Course Name		L	Т	Р	С	CA	CA ES T	
08210604C	VISUAL PROGRAMMING		3	1	0	4	50	50	100
Objective(s)	To introduce the concepts Microsoft Foundation Class applications using Visual C++	es, enat				to develop		ims and	
	OWS PROGRAMMING					Total Hrs		9	
Displaying the \	onment – A Simple Windows Window – Message Loop – th painting – Introduction to GDI -	ne Windo	w Pro	cedur	e – N	lessage Pro	cessing	- Text C	
	L C++ PROGRAMMING – INTI		-			Total Hrs		9	
- Fonts - Modal	nework – MFC Library – Visua I and Modeless Dialog – Windo	ws Comr	non Co			0	Mapping	J Modes -	- Colors
-	OCUMENT AND VIEW ARCHI					Total Hrs		9	
View – Reading	ard Accelerators – Rich Edit Co and Writing SDI and MDI Docu	uments –	Splitte	r Wind					
4 ACTIVE (OLE)	EX AND OBJECT LINKING AN	D EMBE	DDING	3		Total Hrs		9	
	s Vs. Ordinary Windows Cont at Runtime – Component Ol								
Component and				J1V1)		L Diag and	ыор –		beuueu
5 ADVAN	ICED CONCEPTS					Total Hrs		9	
Database Applic	gement with Microsoft ODBC cations – DAO Concepts – Disp ck – WinInet – Building a Web 0	blaying D	atabas	e Řec	cords	in Scrolling \	√iew – ∖	/C++ Net	working
Total hours to be	e taught							45	
Text book (s) :							-		
1 Charles	s Petzold, "Windows Programm	ing", Mic	rosoft	oress,	2003	(Unit I)			
	J.Kruglinski, George Shephere , Microsoft press, 2004 Reprint			ngo, ʻ	'Progr	amming Mi	crosoft \	/isual C+	+" Fifth
Reference :									
1 Steve H	Holtzner, "Visual C++ 6 Progran	nmin <mark>g",</mark> V	Viley D	ream	ech Ir	ndia Pvt. Ltd	., 2003.		

K.S.	Rangasamy College of Techn	ology - /	Autono	mou	s Reg	Julation		R 20	800
Department	Information Technology	Pro	ogramn Na	ne Co me	de &	In		B.Tech. n Technol	ogy
		Seme	ster VI						
Course Code	Course Name		Hou	rs / W	'eek	Credit	Ма	iximum M	arks
Course Code	Course Marile		L	Т	Р	С	CA	ES	Total
08210605C	WEB TECHNOLOGY		3	1	0	4	50	50	100
Objective(s)	Students will get an introducti with an up-to-date survey of d techniques involved to suppor	evelopme	ents in.	Web	Tech	nologies, en pment.	able the	s will be p students	provided to know
-	DUCTION						l Hrs		9
Object Based S	nternet and World Wide Web - cripting for the web – Control S					rays – Obje	cts.		-
2 DYNA	MIC HTML					Tota	l Hrs	9	9
 Event Bubble Creating Gradie set – Sorting tal 	On check – On load – On error ers – Flip Filters – Chrome Fi ents – Creating Motion with Blu ble data – Binding of an Image a	lter – Cr r – Data	eating Bindin	Imag	jes –	Images Filt Data Bindir	ers – Ao Ig – Mov	dding sha ving with a	a record
	MEDIA						l Hrs		9
- Online Paym	o speech synthesis and recogni ents and Security – Web Serve erver side Scripting – Accessing	ers – HT	TP red	uest	types	- System /	Architect		
4 DATA	BASE- ASP – XML					Tota	l Hrs	9	9
Session trackin	ational Database model – SQL g and cookies – ADO – Acces e in Data – Name spaces – DTE	s a Data	base f	rom A	ASP -	Server side			
5 SERVI	_ETS AND JSP					Tota	l Hrs	9	9
	Servlet Overview Architecture – tier applications – JSP – Overvi								
Practical								1	0
Tutorial hours								!	5
Total hours to b	e taught							6	60
Text book :									
Asia, 2	& Deitel, Goldberg, "Internet and 2001.	d world w	ride we	b – H	low to	Program", 4	l th ed., P	earson Eo	ducation
Reference (s) :									
-	natel, "Web Programming: Desl	•	•		PHI, 20	04.			
2 Rajkar	nal, "Web Technology", Tata Mo	Graw-Hi	II, 2001						

K.S.	Rangasamy College of Techn	ology - Autor	omou	s Reg	ulation		R 20	800
Department	Information Technology	Program N	me Co ame	de &	Inf	21: B ormation	.Tech. Technol	ogy
		Semester V	I					
Course Code		Но	urs / W	/eek	Credit	Max	kimum Ma	arks
Course Code	Course Name	L	Т	Р	С	CA	ES	Total
08210607P	VISUAL PROGRAMMING LABORATORY	0	0	3	2	50	50	100
 Creating MI Creating sir Dynamic cc Mapping M Bitmaps. GDI objects Menu, Acce Tool bar, To Status bar. 	odes. elerator. pol tip. LLs and using them.							

Data access through DAO.
 Creating ActiveX control and using it.

K.S.	Rangasamy College of Techn	ology - Auto	nomo	us R	egula	tion		R 20	800
Department	Information Technology	Prograr I	nme C Name	code 8	8	Inf	21: B ormation	.Tech. Technol	ogy
		Semester	VI						
Course Code			Hour	s/W	eek	Credit	Max	kimum M	arks
Course Code	Course Name	-	L	Т	Р	С	CA	ES	Total
08210608P	NETWORK LABORATORY		0	0	3	2	50	50	100
 Simulation of Simulation of Simulation of Simulation of Develop a cli Message end 		nm. ng. SA algorithm.							

K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 20	800		
Department	Information Technology	Pro	ogramr Na	ne Co ame	de &	Inf	21: B.Tech. Information Technology				
		Semes	ster VI								
Course Code	Course Name		Hou	rs / W	/eek	Credit	Max	Maximum Marks			
Course Code	Course Name		L	Т	Р	С	CA	ES	Total		
08210609P	DESIGN PROJECT		0	0	3	2	100	00	100		
Prepare and de	velop a Design Project using the	e Softwa	re Eng	ineeri	ng Me	thodologies	given bel	low:	1		

Software Requirement Specification.
 Cost benefits analysis.

4. Time line of activities.

5. Design Concepts.

6. Implementation (Hardware / Software / both).

7. Testing & Validation of the developed system.

	N.3.1	Rangasamy College	e of Tec	hnology - A	Autor	nome	ous Reg	Julatior	ו			R 2008
Depa	rtment	Information Technology		Programme	Coc	le & N	Name		l		1: B.Te tion Te	ch. chnology
				Seme	ester	VI						
Couro		Course	Nomo		H	ours/\	Neek	Crea	dit	Ν	/laximu	m Marks
Course	e Code	Course	name		L	Т	Р	С		CA	ES	Total
0821	0610P	CAREER COMPET DEVELOPMENT IN	J		0	0	2	0		100	00	100
Objec	ctive(s)	i. To improve the sl ii. To improve the e										1
1		any type written test										Hrs
Compr	rehensio	sed questions – n. itten Test	Questic	ons from	Aptit	ude,	Writte	n con	nmur	ication	and	6 2
2	Compa	ny type written test i	n Verbal	and Non-ve	erbal	Reas	soning S	Skills				
		d questions – Quest ritten Test	tions from	m Verbal an	d No	n-ver	bal reas	soning.				6 2
3		nming Skills										2
-	•	d questions from C	languag	e. Data struc	cture	s and	Obiect	Oriente	ed Pr	ogrami	mina.	6
		/ritten Test	guug	-,								2
4	Intervie	w Skills(Association	Sessior	ı)		-	-	_		-	-	
		view – Questions fro										
		Flexibility, Achieven		entation, Dec	cisive	eness						4.4
Evalua	ation IV -	Technical & HR Inte	erview.								Tatal	4+4 32
Defere	n n n n n n n n n n n n n n n n n n n										Total	52
	ence(s):	arwol "Quantitativ	o Aptitur	do" S Chan	4 8 0	`omp	opyltd	Now	Dolhi	Popri		
Refere 1	R.S.Ag	garwal , "Quantitativo)	e Aptitud	de", S.Chano	d & C	Compa	any Ltd	., New I	Delhi	, Reprii		
	R.S.Ag (unit – I	-	-			-		., New I	Delhi	, Reprii		
1	R.S.Ag (unit – I CCD G R.S.Ag) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II)	artment Approad	of KSRCT, 2 ch to verbal	2008 & N	(Unit on –	t – I) verbal	Reasor	ning",	S.Cha	nt 2007	(Twice)
1 2	R.S.Ag (unit – I CCD G R.S.Ag) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II)	artment Approad	of KSRCT, 2 ch to verbal	2008 & N	(Unit on –	t – I) verbal	Reasor	ning",	S.Cha	nt 2007	(Twice)
1 2 3	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let	artment Approad us 'C' ",	of KSRCT, 2 ch to verbal BPB Publica	2008 & N ation:	(Unit on – s, Ne	t – I) verbal w Delhi	Reasor , 2002 (ning",	S.Cha	nt 2007	(Twice)
1 2 3 4	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp	artment Approad us 'C' ", plete Re	of KSRCT, 2 ch to verbal BPB Publica ference C++	2008 & N ation: - ", Tl	(Unit on – s, Ne MH, 2	t – I) verbal w Delhi 2003 (ur	Reasor , 2002 (nit – III)	ning", (unit	S.Cha – III)	nt 2007 and & ((Twice) Company Lt
1 2 3 4 5	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St	artment Approad us 'C' ", blete Re ructures	of KSRCT, 2 ch to verbal BPB Publica ference C++ a and Algorit	2008 & N ation: - ", Tl	(Unit on – s, Ne MH, 2	t – I) verbal w Delhi 2003 (ur	Reasor , 2002 (nit – III)	ning", (unit	S.Cha – III)	nt 2007 and & ((Twice) Company Lt
1 2 3 4 5 6 7	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(!	artment Approad us 'C' ", olete Re ructures Unit I-III)	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit	2008 & N ation: - ", Tl	(Unit on – s, Ne MH, 2	t – I) verbal w Delhi 2003 (ur	Reasor , 2002 (nit – III)	ning", (unit	S.Cha – III)	nt 2007 and & ((Twice) Company Lt
1 2 3 4 5 6 7 6	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St	artment Approad us 'C' ", olete Re ructures Unit I-III)	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit	2008 & N ation: - ", Tl	(Unit on – s, Ne MH, 2	t – I) verbal w Delhi 2003 (ur	Reasor , 2002 (nit – III)	ning", (unit	S.Cha – III)	nt 2007 and & ((Twice) Company Lt
1 2 3 4 5 6 7 6	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA	artment Approad us 'C' ", olete Re ructures Unit I-III) ning cell	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit	2008 & N ation: - ", TI hm A	(Unit on – s, Ne MH, 2	t – I) verbal w Delhi 2003 (ur	Reasor , 2002 (nit – III)	ning", (unit	S.Cha – III)	nt 2007 and & ((Twice) Company Lt
1 2 3 4 5 6 7 6 EVALU	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar	artment Approad us 'C' ", plete Re ructures Unit I-III) ning cell	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apt & Comprehe	2008 & N ation: - ", Tl hm A titude	(Unit on – s, Ne MH, 2 analys	t – I) verbal 2003 (ui sis in C" 0 OQs, 0 OQs,	Reasor , 2002 (nit – III) , Pears Written	ing", (unit on E	S.Cha – III) ducatio	nt 2007 and & (on 2002 ation	Company Lt
1 2 3 4 5 6 7 6 EVALU S.No	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua Written) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test	artment Approad us 'C' ", plete Re ructures Unit I-III) ning cell	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apr & Comprehe Unit II – Ver Reasoning -	2008 & N ation: - ", TI hm A titude ensio bal R - 500	(Uniton -s, NeMH, 2analys $e - 50n - 5ceasoQQs$	t – I) verbal 2003 (ur sis in C" 0 OQs, 0 OQs, 0 OQs	Reasor , 2002 (nit – III) , Pears Written 50 OQs	ing", (unit : on E Con	S.Cha – III) ducatio	nt 2007 and & (on 2002 ation	Company Lt Company Lt Cunit – III) Marks
1 2 3 4 5 6 7 6 EVALU S.No 1	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test tion III	artment Approad us 'C' ", olete Re ructures Unit I-III) ning cell	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apr & Comprehe Unit II – Ver	2008 & N ation: - ", TI hm A titude ensio bal R - 500 _ angu	(Unit on – s, Ne MH, 2 analys nalys e – 50 n – 5 Reaso DQs Jage-	t – I) verbal 2003 (ur sis in C" 0 OQs, 0 OQs, 0 OQs 500Qs	Reasor , 2002 (nit – III) , Pears Written 50 OQs	ing", (unit : on E Con	S.Cha – III) ducatio	nt 2007 and & (on 2002 ation	(Twice) Company Lt (unit – III) Marks 25
1 2 3 4 5 6 7 6 EVALU S.No 1 2	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua Written) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test tion III Test	artment Approad us 'C' ", plete Re ructures Unit I-III) ning cell	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) (unit IV) Test Portion Unit 1 – Apr & Comprehe Unit II – Ver Reasoning – Unit III – C L	2008 & N ationa - ", TI hm A titude ensio bal R - 500 _ angu _ 25	(Uniton -s, NeMH, 2analys $e - 5tn - 5tReasoDQsuage-5 OQs$	t – 1) verbal 2003 (ur sis in C" 0 OQs, 0 OQs, 0 OQs 500Qs 500Qs	Reasor , 2002 (nit – III) , Pears Written 50 OQs , Data S	ing", (unit) on E Con , Nor Struc	S.Cha – III) ducatio	nt 2007 and & (on 2002 ation ation	(Twice) Company Lt (unit – III) Marks 25 25
1 2 3 4 5 6 7 6 EVALU S.No 1 2 3	R.S.Ag (unit – I CCD G R.S.Ag New De Yashav Herbert Mark A Compa HR Inte UATION Particu Evalua Written Evalua Written) uide by English Dep garwal , "A Modern elhi, 2008, (unit – II) ant Kanetkar, " Let Schildt, " The Comp len Weiss , "Data St ny question papers(I rview Guide by Train CRITERIA lar tion I, Test tion II Test tion III Test	artment Approad us 'C' ", olete Re ructures Unit I-III) ning cell	of KSRCT, 2 ch to verbal BPB Publica ference C++ and Algorit (unit IV) Test Portion Unit 1 – Apri & Comprehe Unit II – Ver Reasoning - Unit III – C L OQs, OOPs Unit IV Technical In	2008 & N ation: - ", TI hm A titude tensio bal R - 500 - 25 tervie v – F	(Unit on – s, Ne MH, 2 analys	t – I) verbal 2003 (uu sis in C" 0 OQs, 0 OQs, 0 OQs 500Qs 5 500Qs 5 6 questi lity(5 m	Reasor , 2002 (hit – III) , Pears Written 50 OQs , Data \$ ons (ea arks), <i>A</i>	ing", (unit i on E Con , Nor Struc ch q	S.Cha – III) ducatio ducation n-verba tures – uestion	nt 2007 and & (on 2002 ation ation ation 25 2.5	(Twice) Company Lt (unit – III) Marks 25 25 20

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.Ra	ngasamy College of Techno	ology - A	utono	mous	Regul	ation		R 20	
Department	Information Technology	Progra	amme	Code	& Nam	ne		1: B.Tech tion Tech	
		Sem	nester	VII					
Course Code	Course Name		Ho	urs / W	/eek	Credit	N	laximum l	Marks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210701G	TOTAL QUALITY MANAGE		3	0	0	3	50	50	100
Objective(s)	To understand the Total Q available to achieve Total and QS certification process	Quality N	lanag	ement,	, statis	tical appro			
1 INTRODU	CTION				То	tal Hrs		9	
Costs, Basic c	uality, Dimensions of Quality, oncepts of Total Quality Mar ents, Deming Philosophy, Ba VCIPLES	nagemen	t, Hist	orical	Reviev entatio	v, Principle			
Retention, Emp Benefits, Conti	sfaction – Customer Percept bloyee Involvement – Empow nuous Process Improvement ircing, Supplier Selection, Su	erment, ⁻ t, Juran 1	Teams Frilogy	s, Reco , PDS	ognitior A Cycl	n and Rew le, 5S, Kai	ard, Per izen, Su	formance	e Appraisal, irtnership –
			ung, i			Developing	, i on		
Basic Concepts 3 STATISTIC	s, Strategy. CAL PROCESS CONTROL (SPC)			To	tal Hrs		9	
Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem	s, Strategy. CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ent tools.	SPC) s – Meas	sures (of cent	To ral Ter es, Pro	tal Hrs idency and icess capa	d Dispers	9 sion, Pop	ulation and
Basic Concepts3STATISTICThe tools of quSample, NormaNew Managem4TQM TOO	s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS	SPC) s – Meas variables	sures of and a	of cent attribute	To ral Ter es, Pro To	tal Hrs idency and icess capa tal Hrs	l Disper bility, Co	9 sion, Pop oncept of 9	ulation and six sigma,
Basic Concepts3STATISTICThe tools of quSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QF	s, Strategy. CAL PROCESS CONTROL (ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch	SPC) s – Meas variables enchmarki ni Quality	ing Pro	of cent attribute ocess,	To ral Ter es, Pro To Qualit	tal Hrs idency and icess capa tal Hrs y Function	l Dispers bility, Co Deployr	9 sion, Pop oncept of 9 ment (QFI	ulation and six sigma, D) – House
Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem 4 TQM TOO Benchmarking of Quality, QFI Concept, Impro	s, Strategy. CAL PROCESS CONTROL (S cality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be	SPC) s – Meas variables enchmarki ni Quality	ing Pro	of cent attribute ocess,	To ral Ter es, Pro To Qualit tion, T	tal Hrs idency and icess capa tal Hrs y Function	l Dispers bility, Co Deployr	9 sion, Pop oncept of 9 ment (QFI	ulation and six sigma, D) – House
Basic Concepts 3 STATISTIC The tools of qu Sample, Norma New Managem 4 4 TQM TOO Benchmarking of Quality, QFI Concept, Impro 5 QUALITY Need for ISO	s, Strategy. CAL PROCESS CONTROL (S ality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag	SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200	ing Pro- Loss s.	of cent attribute ocess, Funct	To ral Ter es, Pro Qualit tion, To To 00 Qu	tal Hrs indency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst	d Dispers bility, Co Deployr ctive Ma ems –	9 sion, Pop oncept of 9 ment (QFI aintenanc 9 Elements	ulation and six sigma, D) – House ce (TPM) – Concepts,
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Basic Concepts3STATISTIOThe tools of quSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QFIConcept, Impro5QUALITYNeed for ISOImplementationTotal hours to b	s, Strategy. CAL PROCESS CONTROL (S cality, Statistical Fundamental al Curve, Control Charts for ent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch ovement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO a, Documentation, Quality Auc	SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200	ing Pro- Loss s.	of cent attribute ocess, Funct	To ral Ter es, Pro Qualit tion, To To 00 Qu	tal Hrs indency and icess capa tal Hrs y Function otal Produ tal Hrs uality Syst	d Dispers bility, Co Deployr ctive Ma ems –	9 sion, Pop oncept of 9 ment (QFl aintenanc 9 Elements formance	ulation and six sigma, D) – House ce (TPM) – Concepts,
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Basic Concepts3STATISTIOThe tools of quSample, NormaNew Managem4TQM TOOBenchmarkingof Quality, QFIConcept, Impro5QUALITYNeed for ISOImplementationTotal hours to bText book (s) :1Dale H.Be2002).Reference(s) :1James R.1Western (*2Feigenbau	s, Strategy. CAL PROCESS CONTROL (S cality, Statistical Fundamental al Curve, Control Charts for vent tools. DLS – Reasons to Benchmark, Be D Process, Benefits, Taguch vement Needs, FMEA – Stag SYSTEMS 9000 Quality Systems, ISO a, Documentation, Quality Auc be taught esterfiled, et al., "Total Qual Evans & William M.Lidsay, Thomson Learning), 2002 (ISI	SPC) s – Meas variables enchmarki ni Quality ges, Type 9000:200 diting, – F 9000:200 diting, – F 9000:200 diting, – S 9000:200 diting, – S 9000 diting, – S 90000 diting, –	ing Pro- ing Pro- Loss s. 00 ISC Requir gemer nagen -0668 IcGrav	of cent attribute occess, Funct O 1400 rement nt", Pe nent a 0-5). w Hill,	To ral Ter es, Pro Qualit tion, To 00 Qu s and E arson nd Co 1991.	tal Hrs indency and indency and indency and indency and tal Hrs y Function otal Production tal Hrs uality Syst Benefits, N Education	d Dispers bility, Co Deployr ctive Ma ems – Ion Con Asia, 1	9 sion, Pop oncept of 9 ment (QFl aintenanc 9 Elements formance 45	ulation and six sigma, D) – House e (TPM) – Concepts, report.

K.S.	Rangasamy College of Tecl	nnology -	Auto	nomou	s Reg	ulation			008
Department	Information Technology	Prog	ramme	e Code	&Nam	ie I		B.Tech. on Techn	ology
		Seme	ester \	/					
Course Code	Course Name		Ho	urs / We	eek	Credit	Ma	ximum M	arks
Course Coue			L	Т	Р	С	CA	ES	Total
08210702C	COMPONENT BASED TECHNOLOGY		3	1	0	4	50	50	100
Objective(s)	To introduces in depth JA properties of components Frameworks and Developm	technolog	y, aro						
1 INTRODU	CTION	•				Total Hrs		9	
	oonents – objects – fundame ectory services – component a							les – inte	erfaces -
2 JAVA BAS	SED COMPONENT TECHNO	LOGIES				Total Hrs		9	
serialization - E	a Beans – Events and conne Enterprise Java Beans – Distr	ibuted Ob			RMI a	and RMI-IIO			 object
	OMPONENT TECHNOLOGII BA – Interface Definition lang					Total Hrs		9	
driven architect 4 . NET BAS COM – Distribu – OLE containe	SED COMPONENT TECHNO ited COM – object reuse – inter ers and servers – Active X cor	LOGIES erfaces ar	nd vers	sioning	– disp	Total Hrs atch interfa	ces – cor	9 nnectable	objects
reflection – rem 5 COMPON	ioting. ENT FRAMEWORKS AND D				1	Total Hrs		9	
	contexts – EJB containers –			nd char					owork -
directory object	ts – cross-development envir ation tools – testing tools - as	onment –	comp						
Total hours to b			_					45	
Text book :									
1 Clemens publishers	Szyperski, "Component Softv , 2003.	vare: Bey	ond C	Object-C	Driente	ed Program	ming", P	earson E	ducation
Reference (s) :									
1 Ed Romar	n, "Mastering Enterprise Java	Beans", J	ohn W	/iley & S	Sons li	nc., 1999.			
	"Inside CORBA", Pearson Ed								
-	isual Basic Development Gui				BPB F	ublication,	2001.		
	nn, Cornell, "CORE JAVA Vol								
-	nd Raja Sekaran, "Componei							, 2007.	
6 G.Sudha	Sadasivam, "Component - Ba								

K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	Julation		R 20	008
Department	Information Technology	Progra	amme	Code	&Nam	ne Int		B.Tech. n Technol	ogy
		Semes	ster VI						
Course Code	Course Name		Hou	rs / W	'eek	Credit	Ма	ximum Ma	arks
Course Coue	Course Name		L	Т	Р	С	CA	ES	Total
08210703C	MOBILE COMPUTING		3	1	0	4	50	50	100
Objective(s)	To learn the basics of Wireless knowledge on various telepho wireless LAN and its standards To build skills in working w applications.	one and s. To buil	satelli d knov	te net vledge	tworks e on va	s. To study arious Mobile	the worl e Compເ	king princ uting algor	rithms.
1 WIREL	ESS COMMUNICATION FUND	AMENTA	LS		Т	otal Hrs		9	
Propagation – Cellular Wireles		pread sp			AC –	SDMA – FI			
	OMMUNICATION NETWORKS					otal Hrs		11	
	ation systems – GSM – GPRS								
	d Configurations – Capacity Allo SS LAN	cation – i				otal Hrs	System	<u>s – Dab</u> 9	- DVБ.
	- IEEE 802.11 - Architecture -	- service	s – M	AC –	Phys	ical laver -	IEEE 80	02.11a - 8	802.11b
standards – HI	PERLAN – Blue Tooth.					•	-		
-	E NETWORK LAYER					otal Hrs		9	
-	namic Host Configuration Protoc		ing – [DSDV			ve Metri		
	PORT AND APPLICATION LAY	-			Т	otal Hrs		7	
	P – Classical TCP improvements	s – WAP,	WAP	2.0.					
Total hours to b	be taught							45	
Text book (s) :									
1, 2 & 3-	Schiller, "Mobile Communicatio Unit II chap 4, 5 &6-Unit III Cha	ap 7.Unit	IV Cha	ap 8- I	Unit V	Chap 9&10)).		
Chapter	Stallings, "Wireless Communi r – 7&10-Unit II Chap 9)	cations a	and N	etwork	κs", Ρ	HI/Pearson	Educatio	on, 2002.	(Unit I
Reference (s) :									
2003	Pahlavan, Prasanth Krishnamoo	-	-						
Comput	ansmann, Lothar Merk, Mart ing", Springer, New York, 2003.	1						•	Mobile
3 Hazysz	tof Wesolowshi, "Mobile Commu	unication	Syster	ns", J	ohn W	/iley and Sor	ns Ltd, 2	002.	

K.S	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 20	008
Department	Information Technology	Pro	gramr	ne Co	de &N	lame		1: B.Tech tion Tech	
		Semes	ster VI						
Course Code	Course Name		Hou	rs / W	'eek	Credit	Ma	ximum Ma	arks
Course Code	Course Name		L	Т	Ρ	С	CA	ES	Total
08210704C	GRAPHICS AND MULTIMEDI		3	1	0	4	50	50	100
Objective(s)	To impart the fundamental c graphics techniques and alg technologies. To enable the st	orithms.	To st	udy t	he m	ultimedia c			
1 OUTPL	JT PRIMITIVES				Т	otal Hrs		9	
Dimensional G	raphics System – Line Drawing eometric Transformations – Two					Ellipse Ger	nerating A	Algorithms	s –Two-
2 THREE	-DIMENSIONAL CONCEPTS				Т	otal Hrs		9	
Color models -	onal Object Representations – Computer Animation	Three-Di	mensi	onal C			odeling T	ransforma	ations –
3 MULTI	MEDIA SYSTEMS DESIGN				Т	otal Hrs		9	
Multimedia – D Schemes – Co	n – Multimedia Applications – Defining objects for Multimedia S lor, Grayscale and Still-Video Im MEDIA FILE HANDLING	Systems -	– Mul	timed	ia Dat ∕ideo	abases – E	Binary Ima	ige Comp	
Technologies -	e Format Standards –TIFF, R - Digital Voice and Audio – Vi nologies – Magnetic Media Tech	deo Imag	ge and	l Anir	nation				
	MEDIA AUTHORING AND HYP					otal Hrs		9	
Object Display Components –	thoring Systems – Hypermedia //Playback Issues – Hypermed Hypermedia Linking and Embe Components of Distributed Mult	dia Mess dding – (aging Creatir	– M ng Hy	obile	Messaging	 Hyper 	rmedia M	lessage
Total hours to I	be taught		•					45	
Text book (s) :							•		
1 Donald	Hearn and M.Pauline Baker, "C	omputer	Graph	ics C	Versic	n", Pearsoi	n Educatio	on, 2003.	
2 Prabat	K Andleigh and Kiran Thakrar, "I	Multimed	ia Sys	tems a	and De	esign", PHI	2003.		
Reference (s) :	-					-			
1 Judith	Jeffcoate, "Multimedia in practice	e technolo	ogy an	d App	licatio	ns", PHI, 19	998.		
	Vandam, Feiner, Huges, "Cor edition 2003.	nputer G	Graphic	s: Pi	rinciple	es & Prac	tice", Pea	arson Ed	ucation,

	K.S.Ra	angasamy College of Tech	nnology -	Auto	nomo	us Reg	gulation		R 2	008
Dep	partment	Information Technology	Prog	gramm	ne Cod	le &Na	ame		: B.Tech. ion Techr	
			Seme	ester \	/11					
Cou	ırse Code	Course Name		Ηοι	ırs / W	'eek	Credit	Ma	ximum M	arks
Cou		Course Maine		L	Т	Р	С	CA	ES	Tota
082	210707P	SOFTWARE COMPONEN	NTS	0	0	3	2	50	50	100
LIST	OF EXPERI	MENTS								•
1.	COM CO	MPONENT: Development o	of simple c	om co	mpon	ents ir	ו VB and u	se them in	application	ons. [2
1.	COM CO example]	•	of simple c	om co	mpon	ents ir	n VB and u	se them in	applicatio	ons. [2
1. 2.	example]	•	·		·				applicatio	ons. [2
	example]. ENTERP		ying EJB f	or sim	ple ari	ithmeti	ic operator		applicatio	ons. [2
2.	example] ENTERP RMI: Dep	RISE JAVA BEANS: Deploy	ying EJB f	or sim ns. [2	, ple ari Exper	ithmeti iments	ic operator s].		applicatio	ons. [2
2. 3.	example]. ENTERP RMI: Dep Creation	RISE JAVA BEANS: Deploy loying RMI for client server	ying EJB f	or sim ns. [2	, ple ari Exper	ithmeti iments	ic operator s].		applicatio	ons. [2
2. 3. 4.	example]. ENTERP RMI: Dep Creation Naming S	RISE JAVA BEANS: Deploy loying RMI for client server Of DLL Using VB And Deplo	ying EJB f	or sim ns. [2	, ple ari Exper	ithmeti iments	ic operator s].		applicatio	ons. [2
2. 3. 4. 5.	example] ENTERP RMI: Dep Creation Naming S DSI, DII II	RISE JAVA BEANS: Deploy loying RMI for client server Of DLL Using VB And Deplo Services In CORBA	ying EJB f applicatio oy it in Jav	or sim ns. [2 /a [2 E	, ple ari Exper	ithmeti iments	ic operator s].		applicatio	ons. [2
2. 3. 4. 5. 6.	example] ENTERP RMI: Dep Creation Naming S DSI, DII II INTER O	RISE JAVA BEANS: Deploy loying RMI for client server Of DLL Using VB And Deplo Services In CORBA N CORBA.	ying EJB f applicatio oy it in Jav	or sim ns. [2 /a [2 E	, ple ari Exper	ithmeti iments	ic operator s].		applicatio	ons. [2

	K.S.Ra	angasamy College of Tech	nology -	Auto	nomoi	us Reg	gulation		R 20	800
Dep	partment	Information Technology	Progra	amme	Code	&Nam	e In		.Tech. Technol	ogy
			Sem	ester \	/11					
Cou	rse Code	Course Name		Ηοι	urs / W	eek	Credit	Ма	ximum Ma	arks
Cou		Course Marile		L	Т	Р	С	CA	ES	Tota
082	210708P	GRAPHICS AND MULTIN	1EDIA	0	0	3	2	50	50	100
LIST	OF EXPERI	MENTS								
1.				· ·						
2. 3. 4.	Mid-point 2D Trans Cohen-Se	Bresenham's line drawing a circle and ellipse generatio formations such as translati utherland 2D clipping	on algorith ion, rotatio	ms. on, sca	aling, r		on and shari	ng.		
2. 3.	Mid-point 2D Trans Cohen-Se	circle and ellipse generatio formations such as translati	on algorith ion, rotatio	ms. on, sca	aling, r		on and sharii	ng.		
2. 3. 4.	Mid-point 2D Trans Cohen-Si 3D Trans	circle and ellipse generatio formations such as translati utherland 2D clipping	on algorith ion, rotatio	ms. on, sca	aling, r		on and sharii	ng.		
2. 3. 4. 5.	Mid-point 2D Trans Cohen-Si 3D Trans Projectior	circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati	on algorith ion, rotatio	ms. on, sca	aling, r		on and sharii	ng.		
2. 3. 4. 5. 6.	Mid-point 2D Trans Cohen-Si 3D Trans Projectior	circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati ns of 3D images.	on algorith ion, rotatio	ms. on, sca	aling, r		on and sharii	ng.		
2. 3. 4. 5. 6. 7.	Mid-point 2D Trans Cohen-So 3D Trans Projection Conversio	circle and ellipse generatio formations such as translati utherland 2D clipping formations such as translati ns of 3D images. ons between color models. pression.	on algorith ion, rotatio	ms. on, sca	aling, r		on and sharii	ng.		

Dong	artment	Rangasamy College of Te	Programn					21	: B.Teo	R 2008 ch.
Depa	artment	Information Technology	, î			x manne		Informat	ion Teo	chnology
			Seme				_			
Cours	se Code	Course Name	е	Ho		Neek	Credit	_		m Marks
			-	L	Т	Р	С	CA	ES	Total
0821	0710P	CAREER COMPETENCY DEVELOPMENT V		0	0	2	0	100	00	100
Obje	ctive(s)	i. To encourage the all ro ii.To improve the employa	ability of stude	nts.				on soft s	skills.	I
1		any type written test in Apt							<u> </u>	Hrs
		Core company based que ical reasoning, Written con							alytical	6
		itten Test	ninunication, F	TUGI	amm	ing anu	recifica	SKIIIS.		2
2		Discussion								
		D – Team work – Body	Language – M	lock	GDs	s – Vide	o Samples	3		6
		Group Discussion								2
3		w Skills(Technical Intervie								
		ssions on core subjects -C	omplex proble	m so	lving	in prog	ramming a	and core		6
		CTechnical Interviews echnical Interview								2
4		w Skills(HR Interview)								<u>L</u>
	1		na Maak Inta		<u>ا ما</u>	/idea Cr				6
		erviews – Corporate cultur HR Interview.	re – wock intei	rview	's – \	/10e0 58	ampies			
Lvala	adon iv									2
Defer									Total	32
	ence(s):				0					32
1	R.S.Ag						td., New	Delhi, R		32
1 2	R.S.Ag (unit – I CCD G) uide by English Departmer	nt of KSRCT, 2	2008	(Unit	:-I)			eprint	32 2007 (Twic
1	R.S.Ag (unit – I CCD G R.S.Ag) uide by English Departmer garwal , "A Modern Appro	nt of KSRCT, 2	2008	(Unit	:-I)			eprint	32 2007 (Twic
1 2 3	R.S.Ag (unit – I CCD G R.S.Ag New De) uide by English Departmer garwal , "A Modern Appro elhi, 2008, (unit – I)	nt of KSRCT, 2	2008	(Unit	:-I)			eprint	32 2007 (Twic
1 2 3 4	R.S.Ag (unit – I CCD G R.S.Ag New De Compa) uide by English Departmer garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I)	nt of KSRCT, 2 bach to verbal	2008 & No	(Unit on –	: – I) verbal ∣	Reasoning	j", S.Cha	eprint	32 2007 (Twic
1 2 3 4 5	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav) uide by English Departmen garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, "Let us 'C'	nt of KSRCT, 2 bach to verbal ", BPB Publica	2008 & No	(Unit on –	: – I) verbal ∣ w Delhi,	Reasoning	j", S.Cha	eprint	32 2007 (Twic
1 2 3 4 5 6	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert) uide by English Departmen garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++	2008 & No	(Unit on –	: – I) verbal ∣ w Delhi,	Reasoning	j", S.Cha	eprint	32 2007 (Twic
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1 2 3 4 5 6 7 EVAL	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte) uide by English Departmen garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++	2008 & No	(Unit on –	: – I) verbal ∣ w Delhi,	Reasoning	j", S.Cha	eprint	32 2007 (Twic
1 2 3 4 5 6 7	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte) uide by English Departmen garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++	2008 & No	(Unit on – s, Ne	: – I) verbal ∣ w Delhi,	Reasoning	j", S.Cha	eprint	32 2007 (Twic
1 2 3 4 5 6 7 EVAL S.No	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua) uide by English Departmen garwal , "A Modern Appro- elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV)	2008 & No ations ", TN	(Unit on – s, Ne /IH, 2	verbal w Delhi, 2003 (ur	Reasoning , 2002 (uni hit – I)	i", S.Cha t – I)	eprint	32 2007 (Twic Company L Marks
1 2 3 4 5 6 7 EVAL S.No 1	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua Written) uide by English Departmen garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies	2008 & No attions ", TN	(Unit on – s, Ne /IH, 2	verbal w Delhi, 2003 (ur	Reasoning , 2002 (uni hit – I)	i", S.Cha t – I)	eprint	32 2007 (Twic Company L Marks 40
1 2 3 4 5 6 7 EVAL S.No 1 2	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua Evalua) uide by English Departmen garwal , "A Modern Appro elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test tion II	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies Unit II - Grou	2008 & No attions ", TN estion	(Unit on – s, Ne //H, 2	w Delhi, 2003 (ur	Reasoning , 2002 (uni hit – I)	i", S.Cha t – I)	eprint	32 2007 (Twic Company L Marks 40 20
1 2 3 4 5 6 7 EVAL S.No 1 2 3	R.S.Age (unit – I CCD G R.S.Age New De Compa Yashav Herbert HR Inte UATION Particu Evalua Evalua Evalua) uide by English Departmen garwal , "A Modern Appro- elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test tion II tion III	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies Unit II - Grou Unit III – Tec	2008 & No itions ", TN estior up Dis chnica	(Unit on – s, Ne //H, 2 //H, 2 scuss al Int	verbal w Delhi, 2003 (ur om Softv sion erview	Reasoning , 2002 (uni hit – I)	i", S.Cha t – I)	eprint	32 2007 (Twic Company L Marks 40 20 20
1 2 3 4 5 6 7 EVAL S.No	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua Evalua) uide by English Departmen garwal , "A Modern Appro- elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test tion II tion III	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies Unit II - Grou	2008 & No itions ", TN estior up Dis chnica	(Unit on – s, Ne //H, 2 //H, 2 scuss al Int	verbal w Delhi, 2003 (ur om Softv sion erview	Reasoning , 2002 (uni hit – I)	i", S.Cha t – I)	eprint	32 2007 (Twic Company L Marks 40 20
1 2 3 4 5 6 7 EVAL S.No 1 2 3	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua Evalua Evalua) uide by English Departmen garwal , "A Modern Appro- elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test tion II tion III	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies Unit II - Grou Unit III – Tec	2008 & No itions ", TN estior up Dis chnica	(Unit on – s, Ne //H, 2 //H, 2 scuss al Int	verbal w Delhi, 2003 (ur om Softv sion erview	Reasoning , 2002 (uni hit – I)	i", S.Cha t – I)	eprint	32 2007 (Twic Company L Marks 40 20 20
1 2 3 4 5 6 7 EVAL S.No 1 2 3 4 Total Note :	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua Evalua Evalua) uide by English Departmen garwal , "A Modern Appro- elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test tion II tion III tion IV	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies Unit II – Grou Unit III – Teo Unit IV – HR	estions ", TN estions up Dis chnica Inter	(Unit on – 3, Ne //H, 2 //H, 2 // scuss al Int rview	w Delhi, 2003 (ur om Softw sion erview	Reasoning , 2002 (uni hit – I) ware and c	j", S.Cha it – I) core	and & C	32 2007 (Twic Company L Marks 40 20 20 20 T = 100
1 2 3 4 5 6 7 EVAL S.No 1 2 3 4 Total Note : 1.	R.S.Ag (unit – I CCD G R.S.Ag New De Compa Yashav Herbert HR Inte UATION Particu Evalua Evalua Evalua Evalua) uide by English Departmen garwal , "A Modern Appro- elhi, 2008, (unit – I) ny question papers(unit I) ant Kanetkar, " Let us 'C' Schildt, " The Complete R rview Guide by Training co CRITERIA lar tion I Test tion II tion III	nt of KSRCT, 2 pach to verbal ", BPB Publica Reference C++ ell (unit IV) Test Portion Unit I – Que companies Unit II – Grou Unit III – Teo Unit IV – HR	estions ", TN estions up Dis chnica Inter train	(Unit on – 3, Ne AH, 2 ns fro scuss al Int rview	w Delhi, 2003 (ur om Softv sion erview	Reasoning , 2002 (uni hit – I) ware and c	i", S.Cha it – I) core	and & C	32 2007 (Twic Company L Marks 40 20 20 20 T = 100

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. Each section is divided into groups and conduct Aptitude test, mock group discussions, interviews in every alternate Saturdays.

n.3	Rangasamy College of Techn	ology - <i>I</i>	Autono	omou	s Reg	ulatior	ו		R 2	800
Department	Information Technology	Progra	amme	Code	&Nam	ne	Inf		8.Tech. Techno	logy
		Semes	ter VII	l						
Course Code	Course Name		Hou	rs / W	/eek	Cre	dit	Max	ximum N	larks
Course Coue	Course Marine		L	Т	Р	С		CA	ES	Tota
08210801C	SYSTEM SOFTWARE		3	1	0	4		50	50	100
Objective(s)	To understand the relationshi the design and implementation linkers and loaders. To have understanding of system softw	on of ass ave an	semble under	ers. T	o kno	w the	desigi	n and in	nplemen	tation c
1 INTRO	DUCTION				T	otal Hrs	5		8	
	are and machine architecture Data and instruction formats – a									
2 ASSEN	IBLERS				T	otal Hrs	5		10	
	RS AND LINKERS		in onain	nple -		otal Hrs			9	
3 LOADE Basic loader fu loader features independent lo	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra	ite Loade g – Algor ary Searc	er – A ithm ar h – Lo	Simp nd Da ader	le Boo ta Stru Optior	otal Hrs otstrap uctures is – Lo	S Load for Li ader	er – Ma nking Lo design o	chine de bader – M	Iachine
3 LOADE Basic loader fu loader features independent lo Editors – Dyna 4 MACR	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders O PROCESSORS	ite Loade g – Algor ary Searc s – Impler	er – A ithm ar h – Lo nentat	Simp nd Da ader ion e>	Te Boo ta Stru Optior cample	otal Hrs otstrap uctures ns – Lo e – MSI otal Hrs	S Load for Li ader DOS I	er – Mao Inking Lo design o inker.	chine de bader – M ptions – 9	lachine Linkag
3 LOADE Basic loader fulloader features independent lo Editors – Dyna MACR0 4 MACR0 Basic macro p structures – I Generation of Macro-Implement 5 SYSTE	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS	ite Loade g – Algori ary Searc s – Impler finition a rocessor Macro E o Proces	er – A ithm ar h – Lo mentat nd Ex featu xpansi sor – A	Simp nd Da ader ion ex pansi res - on -	Ie Boo ta Stru Optior cample ample To on – I - Con Keyw C Mac	otal Hrs otstrap uctures is – Lo > – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs	S Load for Li ader DOS I S Proce tion c acro I uage. S	er – Ma Inking Lo design o inker. ssor Alg of Macro Paramete	chine de pader – M ptions – 9 gorithm a porithm a porithm a param ers-Macr 9	Aachine Linkag and dat neters to withi
3 LOADE Basic loader fulloader features independent lo Editors – Dyna 4 MACR0 Basic macro p structures – I Generation of 5 SYSTE Text editors – Deb Criteria.	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces bugging functions and capabilitie	ite Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process ss – Use	er – A ithm ar h – Lo nentat nd Ex featu xpansi sor – A	Simp nd Da ader ion e> pansi res - on - \NSI (face	Tile Boo ta Stru Optior cample on – I - Con Keyw C Mac – Edite	otal Hrs otstrap uctures is – Lo > – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs or Stru	Load for Li ader DOS I Proce tion c acro I uage. s cture.	er – Ma inking Lo design o inker. essor Alg of Macro Paramete – Intera	chine de pader – M ptions – 9 gorithm a o Param ers-Macr 9 active de – User-l	Aachine Linkag and dat neters o withi buggin
3LOADEBasic loader fulloader featuresindependent loEditors – Dyna4MACROBasic macro pstructures – IGeneration ofMacro-Implemed5SYSTEText editors –systems – DebCriteria.Total hours to b	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces bugging functions and capabilitie	ite Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process ss – Use	er – A ithm ar h – Lo nentat nd Ex featu xpansi sor – A	Simp nd Da ader ion e> pansi res - on - \NSI (face	Tile Boo ta Stru Optior cample on – I - Con Keyw C Mac – Edite	otal Hrs otstrap uctures is – Lo > – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs or Stru	Load for Li ader DOS I Proce tion c acro I uage. s cture.	er – Ma inking Lo design o inker. essor Alg of Macro Paramete – Intera	chine de pader – M ptions – 9 gorithm a porithm a portithm a porti	Aachine Linkag and dat neters o withi buggin
3LOADEBasic loader fulloader featuresindependent loEditors – Dyna4MACR0Basic macro pstructures – IGeneration ofMacro-Impleme5SYSTEText editors –systems – DebCriteria.Total hours to IText book (s) :	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces bugging functions and capabilities pe taught	ite Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process ss – Use es – Rela	er – A ithm ar h – Lo nentat nd Ex featu xpansi sor – A r Inter tionshi	Simp nd Da ader ion ex pansi res - on - NSI (face p with	Ie Boo ta Stru Optior (ample (ample (ample Tru C Mac C Mac Tru - Editu	otal Hrs otstrap uctures is – Lo > – MSI otal Hrs otal Hrs ord Ma ro lang otal Hrs or Stru	Load for Li ader DOS I S Proce tion c acro I uage. S cture. of the	er – Ma inking Lo design o inker. essor Alg of Macro Paramete - Intera	chine de pader – M ptions – 9 gorithm a o Param ers-Macr 9 active de – User-l 45	Aachine Linkag and dat neters o withi buggin nterfac
3LOADEBasic loader featuresloader featuresindependent loEditors – Dyna4MACR0Basic macro pstructures – IGeneration ofMacro-Implement5SYSTEText editors –systems – DebCriteria.Total hours to bText book (s) :1LelandEducation	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces ougging functions and capabilitie be taught L. Beck, "System Software – A ion Asia, 2000.	ite Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process ss – Use es – Rela	er – A ithm ar h – Lo nentat nd Ex featu xpansi sor – A r Inter tionshi	Simp nd Da ader ion ex pansi res - on - NSI (face p with	Ie Boo ta Stru Optior (ample (ample (ample Tru C Mac C Mac Tru - Editu	otal Hrs otstrap uctures is – Lo > – MSI otal Hrs otal Hrs ord Ma ro lang otal Hrs or Stru	Load for Li ader DOS I S Proce tion c acro I uage. S cture. of the	er – Ma inking Lo design o inker. essor Alg of Macro Paramete - Intera	chine de pader – M ptions – 9 gorithm a o Param ers-Macr 9 active de – User-l 45	Aachine Linkag and dat neters o withi buggin nterfac
3 LOADE Basic loader fulloader features independent lo Editors – Dyna 4 MACR Basic macro p structures – I Generation of Macro-Impleme 5 SYSTE Text editors – Criteria. Total hours to I Text book (s) : 1 Leland Educat Reference (s) :	Anctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces- ugging functions and capabilities be taught L. Beck, "System Software – A ion Asia, 2000.	ite Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process ss – Use es – Rela	er – A ithm ar h – Lo <u>mentat</u> nd Ex featu xpansi sor – A r Inter tionshi	Simp nd Da ader ion e> pansi res - on - <u>NSI (</u> face p with to Sy	To le Boo ta Stru Optior cample Tri on – I Con Keyw C Mac C Mac C Mac C Mac C Mac C Mac	otal Hrs otstrap uctures as – Lo e – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs or Stru parts	Load for Li ader DOS I Proce tion c acro I uage. cture. of the	er – Ma inking Lo design o inker. essor Alg of Macro Paramete a system	chine de pader – M ptions – 9 gorithm a b Param ers-Macr 9 active de – User-l 45 Edition,	Aachine Linkag and dat neters o withi buggin nterfac Pearso
3 LOADE Basic loader features independent lo Editors – Dyna 4 MACR Basic macro p structures – I Generation of Macro-Implement 5 SYSTE Text editors – Criteria. Total hours to I 1 Leland Educat 1 D. M. 1 D. M.	unctions – Design of an Absolu – Relocation – Program Linking ader features – Automatic Libra mic Linking – Bootstrap Loaders D PROCESSORS rocessor functions – Macro De Machine-independent macro p Unique Labels – Conditional entation example – MASM Macr M SOFTWARE TOOLS Overview of the Editing Proces ougging functions and capabilitie be taught L. Beck, "System Software – A ion Asia, 2000.	ate Loade g – Algori ary Searc s – Impler efinition a rocessor Macro E o Process as – Use es – Rela	er – A ithm ar h – Lo <u>mentat</u> nd Ex featu xpansi sor – A r Inter tionshi uction	Simp nd Da ader ion e> pansi res - on - NSI (face - p with to Sy rating	Tile Boo ta Stru Optior cample Til on – I - Con Keyw C Mac C Mac C Mac C Mac C Mac C Mac Systems	otal Hrs otstrap uctures as – Lo e – MSI otal Hrs Macro catena ord Ma ro lang otal Hrs otal Hrs otal Hrs s Progr	Load for Li ader DOS I Proce tion c acro I uage. cture. of the ammi	er – Ma inking Lo design o inker. essor Alg of Macro Paramete a system	chine de pader – M ptions – 9 gorithm a b Param ers-Macr 9 active de – User-l 45 Edition,	Aachine Linkag and dat heters o withi buggin nterfac Pearso

	K.S.Rang	gasamy College of Technology -	Auton	omo	ous Regu	lation		R 20	800
Depar	tment	Information Technology	Pro	0	mme Cod Name	e &	_	1: B.Tech. tion Techno	ology
		Sen	nester	VI			-		
Course	Code	Course Name	Ho	urs /	Week	Credit	N	laximum M	
	. 0000		L	Т	Р	С	CA	ES	Total
08210)641E		3	0	0	3	50	50	100
Object	. ,	To understand, design and in implement a parser, understand of							sign and
1		DUCTION TO COMPILERS			Total			9	
Phases -	 Compile tion of Tol 	sis of the source program – Phase er construction tools - Lexical A kens. X ANALYSIS	es of a nalysis	con ; - I	npiler – C Role of L Total	exical Ar	the Cor alyzer -	npiler – Gro - Input Bu - 9	ouping of Iffering –
Role of t Parsing -	he parser Predictiv SLR Pars	- Writing Grammars –Context-Fro e Parsing – Bottom-up parsing - S ser - Canonical LR Parser - LALR F	Shift R	eduo	ars – Top ce Parsing	o Down p g – Opera		Recursive	
3		IEDIATE CODE GENERATION			Total			9	
	ching – Pr	ages – Declarations – Assignment ocedure calls.	State	nent			ssions –	Case State	ements –
4		GENERATION			Total			9	
and Flow		n of code generator – The target - Next-use Information – A simple tion.							
5	CODE C	OPTIMIZATION AND RUN TIME			Total	Hrs		9	
Flow Ana	alysis – Ru	ipal Sources of Optimization – O intime Environments – Source Lan s to non-local names – Parameter	guage	issu					
	irs to be ta	aught						45	
Text boo									
1		ho, Ravi Sethi, Jeffrey D Ullman, on Asia, 2003.	"Com	piler	s Principl	es, Techr	niques a	nd Tools",	Pearson
Referenc	.,								
1		lolub "Compiler Design in C", Pren							
2		scher and R. J. LeBlanc, "Crafting a	•			-	•		
3		net, "Introduction to Compiler Tech				-			
4		plas and Albert Nymeyer, "Practice			•	•	•		
5	Kenneth	C. Louden, "Compiler Construction	n: Prin	ciple	es and Pra	ctice", Th	ompson	Learning, 2	2003.

K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 20	008
Department	Information Technology	Pro	gramr Na	ne Co ime	de &	Ini		B.Tech. h Technol	οαν
		Semes	-				onnation		-97
			Hou	rs / W	eek	Credit	Ma	ximum Ma	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210642E	DISCRETE MATHEMATICS		3	0	0	3	50	50	100
Objective(s)	At the end of the course, stud logic of a program, have gain base and a basic for the pro- many levels, be aware of a cla which relates to input output properties of algebraic structur	ned know log langu ass of fun function	ledge age, l ctions s in c	which nave a which compu	n has an uno n trans ter so	application derstanding form a finite ience, be e nonoids and	in expert in identif set into xposed	t system, iying patta another fi to conce	in data erns on inite set
	ITIONAL CALCULUS					Total Hrs		9	
Truth tables – DeMorgan's La	Logical connectives – Compou Tautologies and contradictions ws - Normal forms – Principal o lidity of arguments.	s – Cont	trapos	itive -	- Logi	cal equivale	ences ar	id implica	ations –
2 PREDICA	ATE CALCULUS					Total Hrs		9	
3 SET THE Basic concepts – Relations on	 Notations – Subset – Algebra sets –Types of relations and th lations –functions – Classification 	a of sets - neir prope	erties	– Rela	ational	matrix and	the grap	oh of a re	lation -
	& BOOLEAN ALGEBRA					Total Hrs		9	
	I – Poset – Hasse diagram – I and minimization of Boolean fun		and th	eir pro	opertie	es – sublatti	ces - Bo	olean Al	gebra -
5 GROUPS						Total Hrs		9	
Algebraic syste semigroups and	ms – Definitions – Examples – d Submonoids - Cosets and Lag	 Propert range's t 	ies – : heorei	Semig n – No	roups ormal	– Monoids subgroups.	– Homo	morphism	ı – Sub
Total hours to b	be taught							45	
Text book (s) :					_				
Tata McC	J.P and Manohar R, "Discrete M Sraw–Hill Pub. Co. Ltd, New Del	hi, 2003.						-	
Pearson	Grimaldi, "Discrete and Comb Education Asia, Delhi, 2002.	inatorial	Mathe	matics	s: An	Applied Intro	oduction	', Fourth	Edition,
Reference (s) :			<u> </u>			<u> </u>			
Indian rep	Kolman, Robert C. Busby, Sh print, Pearson Education Pvt Ltd	., New D	elhi, 2	003.					
	H.Rosen, "Discrete Mathematics Delhi, 2003.	s and its A	Applica	ations'	', Fifth	Edition, Tat	a McGra	w – Hill F	ub. Co.
	ohnsonbaugh, "Discrete Mather								

K.S.	Rangasamy College of Techno	ology - /	Auton	omou	s Reg	Julation		R 20	008
Department	Information Technology	Pro	gramr		de &	Inf		B.Tech.	
		Seme		me		Ini	ormalio	n Technol	ogy
		Como		rs / W	eek	Credit	Ma	aximum M	arks
Course Code	Course Name		L	Т	P	C	CA	ES	Total
08210643E	EMBEDDED SYSTEMS		3	0	0	3	50	50	100
Aim	To give sufficient background for		-				-		
Objective(s)	To introduce students to the en and buses used for embedde programming in C and C++, e and an exemplary case of MUC	ed netwo explain COS – II	orking, real tir	expla ne op	ain pr	ogramming o g systems, i	concept inter-tas	s and em sk commu	bedded
	JCTION TO EMBEDDED SYSTI					Total Hrs		9	
embedded into use of VLSI des		dded Sy	stems						
2 DEVICES	S AND BUSES FOR DEVICES N	IETWOF	RK			Total Hrs		9	
	Device I/O Types and Exam								
- Parallel Port D	s from Serial Devices - Example evices - Timer and Counting De , PCI-X, cPCI and advanced bus	vices - '							
3 PROGRA	MMING CONCEPTS AND EMB)			Total Hrs		9	
	assembly language (ALP) vs	. High	Level	Langu	lage	- C Program	n Eleme	ents, Mac	ros and
functions -Use of	of Pointers - NULL Pointers - Us	e of Fur	nction	Calls	– Mul	tiple function	calls in	a Cyclic (Order in
	on Pointers – Function Queues ss compiler – Optimization of me			Servic	e Rou	itines Queue	es Pointe	ers – 'C' F	rogram
	AE OPERATING SYSTEMS – P					Total Hrs		9	
SYSTEMS : R performance m Monotonics Co Section Service COMMUNICAT Inversion Proble or mutex as Re	rocess, tasks and threads – Int FOS Task scheduling models etrics – Co-operative Round Re- operative Scheduling) – Preer by a Preemptive Scheduler – F ION AND SYNCHRONISATION em and Deadlock Situations – In esource key – Message Queue	- Handli obin Sc mptive S ixed (Sta N – Sha nter Proc	ing of heduli Sched atic) R ared d cess C	task ng – uling eal tin ata pi commu	scheo Cyclic Mode ne sch robler unicat	Iuling and la Scheduling I strategy by neduling of ta n – Use of ions using S	atency a with Ti y a Sch asks - I Semap ignals –	and deadl ime Slicin neduler – NTER PR hore(s) – · Semapho	ines as g (Rate Critical OCESS Priority ore Flag
Procedure Calls 5 REAL TIN	AE OPERATING SYSTEMS – P.	ART - 2				Total Hrs		9	
Study of Micro Service Functio Functions – Mai – Understanding	C/OS-II or Vx Works or Any o ns – Time Delay Functions – Ibox Related Functions – Queue g Case Definition – Multiple Task rry Coding Steps.	ther po Memory Related	pular I y Alloo d Func	ation:	Relat – Cas	TOS System ted Function e Studies of	Level s – Se Prograr	Functions maphore mming with	Related
Text book :								45	
	, Embedded Systems Architectu	ure, Prog	gramm	ning a	nd De	sign, TATA	McGrav	v-Hill, Firs	t reprint
Reference (s) :									
	ath Embedded Systems Design,	Second	d Editio	on-200)3, Ne	wnes.			
2 David E.S	Simon, An Embedded Software F	Primer, F	Pearso	n Edu	catior	n Asia, First I	ndian R	eprint 200	0.
India, Mo 4 Frank Va	/olf, Computers as Components; rgan Kaufman Publishers, First I ahid and Tony Givargis, Eml on, John Wiley, 2002.	ndian R	eprint	2001.			-	-	

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R	2008
Dep	artment	Information Technology	Pro	gramr Na	ne Co Ime	de &			B.Tech. on Techn	ology
			Semes	ter – V	Ί					
Cour	se Code	Course Name		Hou	rs / W	eek	Credit	N	laximum	Marks
Coul	se coue	Course Name		L	Т	Ρ	С	CA	ES	Total
082	10644E	SOFTWARE QUALITY MANAGEMENT		3	0	0	3	50	50	100
Obje	ective(s)	To Understand the Concept process Assessment, underst software standards, understa detect Prevention in software.	stand the	softw	are c	onfigu	inciples, l	inagemei Inderstai	nt, under	stand the
1	INTROD							otal Hrs		9
– Im	plementati	ss assessment overview – Asse on consideration – Quality r Validation.								
2	CONFIG	URATION MANAGEMENT					٦	otal Hrs		9
audit. 3 Defin	SOFTWA itions – R ws – Insp	ontrol – The implementation ph ARE STANDARDS AND INSPE eason for software standards ection of objectives – Basic ir	CTION – Benef	its – I	Establ	ishing	standard	otal Hrs s – Guic	lelines –	9 Types of
4	0	AND MANAGEMENT SOFTW	ARE QU	ALITY	,		1	otal Hrs		9
Time	testing -	les – Types – Planning – Deve Quality management paradigm program – Estimating software	n – Quali							
5		PREVENTION	•				1	otal Hrs		9
consi	deration -	oftware defect prevention – - Managements role – Frame s change.								
	hours to b									45
Text I	book :								1	
1	Watts S.	Humphrey, Managing the softw	are proce	ess, A	ddisor	Wes	ley, 1999.			
Refer	ence (s) :									
1	Tsum S.0	Chow, Software Quality Assurar	nce a Pra	ctical	Appro	ach, I	EEE Com	outer Soc	iety press	s, 1985.
2	Richard E	E. Fairley, Software Engineering	g – A Pra	ctition	er's ap	proad	h, McGra	w Hill, 19	82.	

K.:	S.Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 2	008
Department	Information Technology	Pro	gramr	ne Co ame	de &	Inf	21: B ormation	Tech.	oav
		Seme					ormation	Technol	ogy
		Como		rs / W	eek	Credit	Max	kimum M	arks
Course Code	e Course Name		L	T	P	C	CA	ES	Total
08210645E	CRYPTOGRAPHY AND NET SECURITY	-	3	0	0	3	50	50	100
Aim	To understand the principl cryptography, have a detailed level security mechanisms.	knowled	lge ab	out au	thenti	cation, hash	functions	s and ap	olication
Objective(s)	To know the methods of co encryption and number theo network security tools and ap	ory, unde	erstand	d auth	entica	ation and H	ash func	tions, kr	
1 INTR	ODUCTION		,			Total Hrs		10	
Block cipher of - Placement of	architecture - Classical encryption design principles and modes of op of encryption function – Traffic con	peration -	- Evalu			a for AES –		her – Trij	
_	LIC KEY CRYPTOGRAPHY					Total Hrs		10	
	nent – Diffie - Hellman key excha eory – Confidentiality using symm								oduction
	HENTICATION AND HASH FUNC					Total Hrs		9	
Security of ha	n requirements – Authentication sh functions and MACs – MD5 M signatures – Authentication proto	lessage	Digest	algor	ithm -	Secure Has			
	NORK SECURITY		0	0		Total Hrs		8	
	n applications: Kerberos – X.50 ecurity – Web security.	9 Authei	nticatio	on sei	vice	 Electronic 	mail se	curity –	PGP –
	TEM LEVEL SECURITY					Total Hrs		8	
	ction – password management – les – Trusted systems.	Viruses a	and re	ated 7	Threat	s – Virus cou	unter mea	asures –	Firewall
Total hours to	be taught							45	
Text book :									
	am Stallings, "Cryptography And , Third Edition, 2003.	Network	Secu	rity –	Princ	ples and Pr	actices",	Prentice	Hall of
Reference (s)									
	Kahate, "Cryptography and Netwo		•						
_	e Schneier, "Applied Cryptograph	•	•						
4	les B. Pfleeger, Shari Lawrenc ation, 2003.	e Pfleeg	ger, "S	Securit	iy in	Computing",	Third E	Edition, I	Pearson

K.S	Rangasamy College of Techn	ology - Aut	onom	ous R	egula	tion		R 20	008
Department	Information Technology	Progra	mme (Name		<u>k</u>	Inf		.Tech. Technol	ogy
		Semester	· VI						
Course Coode	Course Norse		Hou	rs/We	eek	Credit	Max	kimum Ma	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210646E	ADVANCED JAVA PROGRAM	-	3	0	0	3	50	50	100
Aim	To enable the students to de applications – Using Java Tec	hnology.		·		Ū			
Objective(s)	To learn advanced Java prog etc, develop network programs tier applications; understand is	s in Java, un	dersta	nd Co	ncept	s needed	d for distr		
1 JAVA FL	INDAMENTALS					otal Hrs		9	
- Threading	ning – filter and pipe streams – I Java Native Interfaces- Swing.	Byte code int	terpret	ation -			ynamic F		Classes
2 NETWO	RK PROGRAMMING IN JAVA				Т	otal Hrs		9	
Remote metho	vices. ATIONS IN DISTRIBUTED ENV d Invocation – activation mode – CORBA – IDL technology	els – RMI ci			ts –				
	TER APPLICATION DEVELOP	MENT			Т	otal Hrs		9	
communication streaming appli	gramming – servlets – Java Se - JDBC – using BLOB and CLC cations – Java media Framewo PRISE APPLICATIONS)B objects –			media				
Server side co						-	L	Dorojeto	
beans – Transa	mponent architecture – introduc actions.	tion to J2EE	E – ses	ssion t	beans	s – entity	beans -	Persister	nt entity
	actions.	tion to J2EE	E – ses	ssion t	beans	s – entity	beans –	45	nt entity
beans – Transa	actions.	ction to J2EE	E – ses	ssion t	beans	s – entity	beans –		nt entity
beans – Transa Total hours to b Text book (s) :	actions.					-			nt entity
$\begin{array}{c c} beans - Transa \\ \hline Total \ hours to b \\ \hline Text \ book \ (s) : \\ \hline 1 & Elliotte \ R \\ \hline 2 & Ed \ Roma \end{array}$	actions. be taught tusty Harold, " Java Network Pro an, "Mastering Enterprise Java E	ogramming", Beans", John	O'Reil Wiley	ly pub	lisher	s, 2000 (., 1999. (UNIT II) UNIT III (45 and UNIT	· V)
beans – TransaTotal hours to bText book (s) :12Ed Roma3Hortsma (UNIT La)	actions. be taught custy Harold, " Java Network Pro an, "Mastering Enterprise Java E nn & Cornell, "CORE JAVA 2 and UNIT IV).	ogramming", Beans", John	O'Reil Wiley	ly pub	lisher	s, 2000 (UNIT II) UNIT III (45 and UNIT	· V)
beans – TransaTotal hours to bText book (s) :1Elliotte R2Ed Roma3Hortsma(UNIT LaReference (s) :	actions. be taught tusty Harold, " Java Network Pro an, "Mastering Enterprise Java E nn & Cornell, "CORE JAVA 2 and UNIT IV).	ogramming", Beans", John	O'Reil Wiley	ly pub	lisher	s, 2000 (UNIT II) UNIT III (45 and UNIT	· V)
beans – Transa Total hours to b Text book (s) : 1 Elliotte R 2 Ed Roma 3 Hortsma (UNIT La Reference (s) : 1 1 Web reference	actions. be taught custy Harold, " Java Network Pro an, "Mastering Enterprise Java E nn & Cornell, "CORE JAVA 2 and UNIT IV).	ogramming", Beans", John ADVANCEI	O'Reil Wiley D FEA	ly pub & Sor TURE	lisher ns Inc S, V	s, 2000 (., 1999. (OL II", P	UNIT II) UNIT III a earson E	45 and UNIT	· V)

К.	S.Rangasamy College of Te	chnology -	Autono	mou	s Regu	lation		R	2008
Department	Information Technology	Programm	ne Code	e & Na	ame	2 Informa	1: B.T		logy
		Semes	tor \/l			IIIOIIIIa		echno	iogy
		Semes			Week	Credit	Ma	vimun	n Marks
Course Code	Course Name		1	T	P	Credit	CA	ES	Total
08210647E	FUNDAMENTALS OF IT		 3	0	Р 0	3	50	⊑3 50	100
Objective(s)	To introduce the fundamer basic TDBMS concepts.	ntals of comp	-		-	-			
1 COMPUTE	ER ARCHITECTURE AND S	YSTEM SOF	TWARE			Total Hrs			9
Input/output De Loaders and lir	of Computer Architecture – evices – Measure of CPU Pe nkers – Compilers and interpr	rformance – eters.	Addres	all Co sing r	omputer nodes -	- System Sof	of the	e Instr – Asse	emblers –
	NG SYSTEMS AND COMPU tem – memory manageme					Total Hrs			9
Introduction to	ND DATABASE DESIGN DBMS – data processing – ations – Normalization – Nee								
4 SQL						Total Hrs			9
	urpose of SQL – History of /iews – DCL statements – Em					Types – DD	L stat	emen	ts – DML
5 OLTP CO						Total Hrs			9
	se – Transaction – Transacti s – Granularity of Locking – I a.								
Total hours to I									45
Text book (s) :								•	
	n Program Books Vol-1 and V	Vol-2, Infosys	5.						
Reference(s) :									
	Tanenbaum, Structured Com								
	z and Galvin, Operating Syst	•				•			
3 Henry F k editions, 19	Korth, Abraham Silberschatz 991.	z, Database	Syster	n Co	ncept,	2 nd ed McG	iraw-H	ill Inte	ernational

K.S.	Rangasamy College of Techn	ology - Aut	onom	ous R	egula	ation		R 20	800
Department	Information Technology	Programm	ne Co	de &Na	ame	Inf		.Tech. Technol	ogy
		Semester	VII						
Course Code	Course Name		Hou	rs/We	eek	Credit	Ma	kimum Ma	arks
Course Coue	Course Maine		L	Т	Р	С	CA	ES	Total
08210751E	CLIENT/SERVER COMPUTIN		3	0	0	3	50	50	100
Aim	To enable the students to de applications – Using Java Tec To learn advanced Java prog	hnology.	•			0			
Objective(s)	etc, develop network programs tier applications; understand is	s in Java, un	dersta	nd Co	ncep	ts needed	for distr		
1 INTROD						otal Hrs		9	
server, client se	omputing era, Real Client /Serverver for different models, buildir	ng blocks.	ers or	fat clie			3 Tier, Ir	•	ic client
	SERVER OPERATING SYSTE					otal Hrs		9	
MAC OS, Linux	rver Programs, Server needs OS, Win OS Server OS trends				ver, (DS/2 warp			trends,
	SERVER MIDDLEWARE					otal Hrs		9	
messaging an MOM Vs RPC,	are global directory service, d peer to peer Sockets, NetW Evolution of the NOS, DEC, The	are, NetBIO e enterprise	S, rem	note pr	oced	ure call,			
	SERVER TRANSACTION PRO					otal Hrs		9	
Management, 7	es, Transaction Models, TP IP Monitor Client / Server Inter TP Heavy - Managing Heteroge	action types	, trans	action	al RF	C, Queu	es, TP L		
5 CLIENT	SERVER AND INTERNET				٦	otal Hrs		9	
HTML 2.0 's W	rver – Web Style, HTML Tutori 'eb – Bared forms, CGI, Wed S istributed object Era – Java Me	Selurity, The	Intern	et and	l Intra	anets, The	e Jave o	bject Era	- Jave
Total hours to b	e taught							45	
Reference Boo	ks (s) :								
Wiley & S	orfail, Dan Harkey Jeri Edwards Sons, Singapore, 2003.								
² Oriented	.Goldman, Phillip T.Rawles, Ju Approach",John Wiley& Sons,	Singapore, 2	2000.				•		
³ 2001.	hnson, "A complete guide to Cl							Hall Nev	w Delhi,
4 Smith &	Guengerich," Client / Server Co	mputing ", Pi	rentice	Hall,N	iew D	elhi, 200	2		

K.S	Rangasamy College of Tec	hnology -	Auto	nomol	ıs Reg	gulation		R 2	008
Department	Information Technology	Progra	imme	Code a	&Nam	e La		.Tech.	
·		Ĵ				Inf	ormatior	Technol	ogy
	1	Seme	ester \						
Course Code	Course Name			ırs / W		Credit		ximum M	1
			L	Т	Р	С	CA	ES	Total
08210752E	DISTRIBUTED COMPUTIN		3	0	0	3	50	50	100
Objective(s)	To understand the concept of To understand the concept of					know the issu	ies of op	erating s	ystems.
1 INTRODU	JCTION					Total Hrs		9	
Communicatio	s and distributed objects n – Layered Protocols - ATM	networks	– Clie	ent ser	ver m	Total Hrs odel – remo	te proce	9 dure call	– group
communication 3 Operating	n. g System Issues - I					Total Hrs		9	
		Mutual							
	n – Clock Synchronization - hreads – System models –								
	y System Issues - II					Total Hrs		9	
Distributed file replication -mu	systems Distributed file systure of the systems of the system of the sys	tem desig	n — im	pleme	ntatio		els – fau	ılt tolerar	nce - file
5 Distribute	d Processing					Total Hrs		9	
	ared memory - consistency m red memory – Distributed prog						nemory -	- shared	variable
Total hours to	be taught							45	
Text book :									
							0001		
1 Andrew S	3.Tanenbaum,"Distributed Ope	erating Sys	tems"	, Pears	son Eo	ducation Asia	, 2001.		
1 Andrew S Reference (s)	· · · · ·	erating Sys	tems"	, Pears	son Eo	ducation Asia	, 2001.		
Reference (s)	· · · · ·	0.1		-				a McGrav	v Hill.

K.S	Rangasamy College of Tecl	nnology -	Auto	nomol	us Re	gulation		R 2	800
Department	Information Technology	Progra	amme	Code	&Nam	e Inf		3.Tech. 1 Technol	ogy
		Seme	ester V	/11					
Course Code	Course Name		Ηοι	ırs / W	eek	Credit	Ma	ximum M	arks
Course Code	Course Name		L	Т	Ρ	С	CA	ES	Total
08210753E	GRID COMPUTING		3	0	0	3	50	50	100
Objective(s)	To understand the concept on the concept of the technology of								g.
1 GRID CO	MPUTING					Total Hrs		9	
Introduction - D	Definition - Scope of grid comp	uting							
2 GRID CO	MPUTING INITIATIVES					Total Hrs		9	
Grid Computing	g Organizations and their role	s – Grid C	omput	ing an	atomy	- Grid Com	puting ro	ad map.	
3 GRID CO	MPUTING APPLICATIONS					Total Hrs		9	
Merging the Gr	id sources – Architecture with	the Web	Device	es Arch	nitectu	re.			
4 TECHNO	LOGIES					Total Hrs		9	
	le use cases – OGSA platforn OGSI, Technical details of O							es , A higl	n-level
5 GRID CO	MPUTING TOOL KITS	•				Total Hrs		9	
Globus Toolkit	- Architecture, Programming	model, Hi	gh leve	el serv	ices				
Total hours to l	be taught							45	
Text book :							•		
1 Joshy Jos	eph & Craig Fellenstein, "Gric	l Computir	ng", Pł	HI, PTI	R-200	3.			
Reference (s) :									
1 Ahmar Ab 2003.	bas, "Grid Computing: A Prac	tical Guid	e to te	chnolc	ogy an	d Application	s", Char	les River	media –
2 D.Janakir	am, "Grid Computing": A Rese	earch Mon	ograpl	n, Tata	NcG	raw-Hill,2005			

	K.S.	Rangasamy College of Tech	nnology -	Auto	nomou	is Re	gulation		R 2	800
Dep	partment	Information Technology	Progra	imme	Code a	&Nam	e In		3.Tech. n Technol	ogy
			Seme	ester \	/11					
Cou	rse Code	Course Name		Ηοι	urs / W	eek	Credit	Ma	ximum M	arks
Cou		Course Marine		L	Т	Ρ	С	CA	ES	Total
082	10754E	HIGH PERFORMANCE NETWORKS		3	0	0	3	50	50	100
Obj	ective(s)	To understand the concept Performance Networks. To Networks								
1	INTRODU	CTION					Total Hrs		9	
		n networks, network princ n, network services, elements			ons,	QoS,	(network	and ap	olication),	Traffic
2	BROADB	AND ISDN					Total Hrs		9	
	c and cong	tecture - Main Features of AT jestion control, Flow control, e								ng, ATM
3		S NETWORK – infrastructure, ADHOC netv					Total Hrs		9	
ATM		I Access and MAC sub layers NETWORKS	s; Blue too	oth — ı	user so	enario	os, Networki Total Hrs	ng and s	ecurity - ' 9	Wireless
Optio	cal links, W	DM systems, optical cross co	nnects, o	otical I	_ANS,	optica	al paths and r	networks		
5	PERFORM	MANCE MEASURES					Total Hrs		9	
		 cell transfer delay, cell delay parameters. 	variation	, cell l	oss rat	io, bu	ffer over flow	/ probabi	lity; wirele	ess
Tota	I hours to b	be taught							45	
Text	book :									
1	Ltd., 2 nd e	and and Pravin Varaiya, "Hig dition, 2001. Chapters 1, 2, 11								
2	2001. Cha	ISDN and broadband ISDN wapters 14, 16, 17, Appendix A.								
3	First Edition	hlavan, Prashant Krishnamu on, 2002, Chapters 10, 11, 12		ciples	of Wi	reless	s Networks",	Pearsor	n Educati	on Asia,
Refe	rence (s) :									
	VA/ - 11						2001			
1		ralski, "Optical Networking an								
	Neelakant First editio	a P.S., "A textbook on ATM on; 2000.	Telecom	munica	ation F	rincip	les and Imp		ion", CR(C Press,
1	Neelakant First editic John A. V	a P.S., "A textbook on ATM	Telecomi etworks H	munica andbo	ation F ok", Ta	Princip ata Mo	les and Imp Graw- Hill, 2	2001.		C Press,

K.S	Rangasamy College of Te	chnology - Au	tonomo	ous R	egulat	tion		R 2	2008
Department	Information Technology	Programm	ne Code	&Na	me	Inf	21: B ormation	.Tech. Techn	ology
		Semester	· VII						
O a uma a O a da	Course Norse		Hour	s/We	eek	Credit	Max	imum I	Marks
Course Code	Course Name	<u>;</u>	L	Т	Р	С	CA	ES	Total
08210755E	IT ESSENTIALS		3	0	0	3	50	50	100
Objective(s)	To introduce and various e	ssential concep	ots of IT						
1 ANALYSIS	S OF ALGORITHMS						Total Hrs	3	9
 Algorithmic T sort – Insertion 	ADA – Code Tuning Techniq echniques – Linear search – sort – Intractable Problems.					uick sort -	- Merge		Selection
	ORIENTED CONCEPTS Object oriented concepts –						otal Hrs		9
Inheritance – A Technology.	Abstract classes – Polymorph DEVELOPMENT METHODO	nism – Object o				thodology			
			-	£4	- D -				-
	opment Methodology – Evolu esign – Software Constructio						wodels	– Req	uirement
4 CLIENT SE	ERVER CONCEPTS						otal Hrs		9
to Web Techno			-	ies – I	Middle	e ware teo	hnologie	s – Intr	oduction
5 WEB TEC	HNOLOGIES & USER INTER	RFACE DESIG	N			Т	otal Hrs		9
Introduction to User Interface									l Vs Bad
Total hours to b	be taught								45
Text book (s) :									
	n Program Books Vol-2 and V	vol-3, infosys.							
Reference(s) :	. Andrew I Nevehilalii Ohia		<u></u>		A			a a la A	ما ما ام م
Wesley, 1			Ū	0					
Wesley Pu	ho,John E.Hopcroft, Jeffrey ublishing Co., 1998		•		•	•	Ū.		Addison
	ssman, Software Engineering			-			ed., 200	1	
4 Wilbert O.	Galitz, Essential Guide to Us	er Interface De	sign, Jo	hn Wi	ley, 19	997			
5 Alex Berso	on, Client server Architecture .G., How to solve it by Comp	, Mc Grew Hill I	Internati		1994				

	K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 2	800
Depa	artment	Information Technology	Progra	amme	Code	&Nam	ie Inf		3.Tech. Technol	logy
			Semes	ster VI						
0				Hou	rs / W	eek	Credit	Max	ximum M	arks
Cours	se Code	Course Name		L	Т	Р	С	CA	ES	Total
0821	0761E	CLOUD COMPUTING		3	0	0	3	50	50	100
Objec	ctive(s)	To understand the concept of To understanding the technolo								uting.
1	CLOUD						otal Hrs		9	
		oud Application Architectures-Th azon Web Services.	ne Value	of Clo	ud Co	mputi	ng - Cloud I	nfrastruc	ture Mod	lels - An
2	APPLIC	ATIONS AND DESIGN ISSUES				Т	otal Hrs		9	
		ses - The Shift to a Cloud Cost ne Image Design - Privacy Desi						cations -	Web Ap	plication
3	SECURI	TY ISSUES OF CLOUD				Т	otal Hrs		9	
Data S	Security -	Network Security - Host Securit	y - Comp	oromis	e Res	ponse				
4	DISAST	ER RECOVERY				Т	otal Hrs		9	
Disast	er Recov	ery - Disaster Recovery Plannin	g - Disas	ters in	the C	loud -	Disaster Ma	anageme	nt	
5	CLOUD	INFRASTRUCTURE				Т	otal Hrs		9	
Scaling	g a Cloud	Infrastructure - Capacity Planr	ning - Clo	ud Sc	ale - T	ypes	of Clouds - C	Comparir	ig Approa	aches
Total h	nours to b	e taught							45	
Text b	ook:							•		
1.	George ,O'Reilly	Reese, "Cloud Application Arcl	nitectures	s Build	ling A	pplica	tions and In	frastructu	ure in the	e Cloud"
Refere	ence (s) :									
1.		nderson, " Programming Googl cture ",O'Reilly, 2009	e App Er	ngine	Build	and F	Run Scalable	e Web A	pps on (Google's

K	S.Rangasamy College of Tec	hnology -	Autor	nomoi	us Re	gulation		R 2	800
Departmen	Information Technology	Progra	mme	Code	&Nam	e In	21: B formation	.Tech. Technol	ogy
		Seme	ester V	/					
			Hou	irs / W	eek	Credit	Max	kimum M	arks
Course Cod	e Course Name		L	Т	Р	С	CA	ES	Total
08210762E	C# AND .NET		3	0	0	3	50	50	100
Objective(s	The student will gain know technologies that constitute in basic and advanced leve and be ready for large-scal	the frame els. By buil	work.	The st	udent	will gain prog	gramming	, skills in	C# both
1 INTRO	DUCTION TO C#					Total Hrs		8	
Branching, L	#, Understanding .NET, Overv poping, Methods, Arrays, String	gs, Structu	Litera es, Er	ls, Var numera	iables ations.		s, Operato	ors, Expr	essions,
	T ORIENTED ASPECTS OF C					Total Hrs		9	
Classes, Ob Exceptions.	ects, Inheritance, Polymorphisi	m, Interfac	es, Op	erator	Over	oading, Dele	gates, Ev	vents, Er	rors and
3 APPLI	ATION DEVELOPMENT ON .M	NET				Total Hrs		8	
Building Wir	dows Applications, Accessing E	Data with A	DO.NI	ET.					
4 WEB B	SED APPLICATION DEVELO	PMENT O	N .NE	Г		Total Hrs		8	
U U	Web Applications with Web F		Iramm	ing We	eb Ser	vices.			
5 THE C	R AND THE .NET FRAMEWO	RK				Total Hrs		12	
Marshaling,	Versioning, Attributes, Reflec Remoting, Understanding Serv ing the Client, Using SingleCall	er Object							
Total hours	be taught							45	
Text book (s	:								
1 E. Bala	gurusamy, "Programming in C#	", Tata Mc	Graw-l	Hill, Se	econd	Edition,2009	(UnitI,II)		
2 J. Liber	y, "Programming C#", 4 th ed., C	D'Reilly, 20	07. (U	nit III,	IV, V)				
Reference ():								
1 Herber	Schildt, "The Complete Refere	nce: C# 2.0	D" Tata	a McG	raw-H	ill, Second E	dition,200)5	
	on et al, "Professional C#", 3rd I								
3 Andrew	Troelsen, "Pro C# 2005 and th	e.NET 2.0	Platfo	rm" ,3 ^r	^d Editi	on, Apress,2	005		
4 "Under	tanding .NET 2/E" ,David Chap	pell, Pears	son Ed	ucatio	n, Seo	cond Edition,	2006.		

К.5	S.Rangasamy College of Tec	hnology -	Autor	nomou	ıs Re	gulation		R 2	008
Department	Information Technology	Progra	mme	Code	&Nam	e Inf	21: B ormation	.Tech. Technol	oav
		Seme	ester V	/11			onnation	TCOINIO	ogy
				irs / W	eek	Credit	Max	kimum M	arks
Course Code	Course Name		L	т	P	C	CA	ES	Total
08210763E	CYBER LAWS AND INTELLECTUAL PROPERT RIGHTS		3	0	0	3	50	50	100
Objective(s)	To enable learners to under IP Trademarks and Agreem		cyber	laws a	and in	tellectual pro	perty rigl	nts. To K	now the
-	OF ARREST WITHOUT WAR 0: A CRITIQUE	RANT UN	DER 1	'HE IT		Total Hrs		8	
cognizable of	s millennium-Section 80 of th fence. Necessity of Arrest w nst Arbitrary Arrests - Arrest bu	vithout wa	rrant f	romea					
2 CYBER	CRIME AND CRIMINAL JUST	ICE				Total Hrs		9	
Virus on the Criminality-Str	ber crime and IT ACT 2000-F Internet-Defamation-Harass ategies to tackle Cyber Crime	ment and	E-m			Cyber Porno		lature o	
	CTUAL PROPERTY RIGHTS					Total Hrs		9	
	Invention and Creativity – In rty (i. Movable Property ii. Imn							n of IPR	 Basic
4 IP TRAD	E MARKS AND APPLICATION	٧S				Total Hrs	Í	9	
Definitions – I	 Copyrights and related right ndustrial Designs and Integrat evels – Application Procedures 	ed circuits							
5 WIPO AN	ND GATT					Total Hrs		10	
	convention relating to Intellect eral Agreement on Trade and			Establi	shme	nt of WIPO -	- Mission	and Ac	tivities –
Total hours to	be taught							45	
Text book (s)	:						•		
1 Vivek So	od. "Cyber Law Simplified"-Ta	ta McGraw	/-Hill P	ublish	ing, S	econd Editior	n 2003.		
	m N.R. "Handbook of India rs) Pvt. Ltd., 1998.	n Patent	Law	and	Practi	ce ", S. Vis	wanatha	n (Printe	ers and
Reference (s)	:								
1 Susan K	Sell, "The Globalization of Int	tellectual F	roper	y Righ	nts",ł	Kindle Edition	- Jun 23	, 2003	

	Rangasamy College of Techn.	ology - A	Autone	omou	s Reg	ulation		R 20	008
Department	Information Technology	Pro	ogramn Na	ne Co me	de &	Ini		3.Tech. n Technol	oav
	L	Semes							- 57
			Hou	rs/W	eek	Credit	Ma	ximum M	arks
Course Code	Course Name		L	Т	Р	С	CA	ES	Total
08210764E	3G WIRELESS NETWORKS		3	0	0	3	50	50	100
Objective(s)	To learn the basics of 3G Wir Spreading codes used in 3G Witelephone networks. To study procedures. To study 3G Wire RELESS COMMUNICATION FU	Vireless (the worki eless Netw	Comm ing prir vork se	unicat nciple: ervice:	ion. Τ s of 30 s,3G ι	o build work G Wireless N	ing knov letwork (vledge on data trans	various
	G – Proposals for 3G Standard							•	
Radio-Channel Multiuser Detec Modulation.	Access Schemes – Spread S ction – TDD – Modulation Tech	Spectrum	– RA	KE F	Receiv Spect	er – Power rum – Sprea	Contro	I – Hand chniques	overs –
2 CHANI	NEL CODING				Т	otal Hrs		9	
Cross-Correlati Codes – Convo 3 TELEC	es – Orthogonal Codes – Pseud on – Intercell Interference – O olutional Codes. Turbo Codes – COMMUNICATION NETWORKS meral Discussion. Evolution from	Channel Channel S	Coding Coding	g – C g in U	oding TRAN	Processes.	Coding	Theory 9	– Block
Access Network Network Planr Congestion Cor	rk. GSM Radio Access Netwo ning – Network Planning Ter ntrol – Network Management –	rk. Interfa rminology	aces. [,] Net	Netwo work	ork Pr Plann	otocols. UM ing Proces	ITS Netv s – Ad	work Evo	lution –
	OCEDURES								Control.
Procedures -						otal Hrs		9	
Random Acces Packet Access Prepaging - G Service Area. S		n the UMT ast Servic	rS Net ce, Mu	r Pro work - Itimed	cedur – Loca dia Me ive M	es. Data T ations Servic essaging Se ultirate Cod	es. High rvice -	sion, Har I-Speed D Super-Ch port of Lo	ndovers. Downlink arger –
Random Access Packet Access Prepaging - G Service Area. S 5 3G SE	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES	n the UMT ast Servic timal Rou	TS Net ce, Mu uting. /	r Pro work Itimeo Adapt	Ledur – Loca dia Me ive M	es. Data T ations Servic essaging Se ultirate Cod otal Hrs	es. High ervice - ec, Sup	sion, Har Speed D Super-Ch port of Lo 9	ndovers. Downlink Darger – Docalized
Random Access Packet Access Prepaging - G Service Area. S 5 3G SE 3G Services Capabilities. Qu of 3G Applicati	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas	n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A	TS Net ce, Mu uting. / Beare ication pplicat	r Pro work - ltimeo Adapt - Ser Tech	cedure – Loca dia Me ive M vices nologi	es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimed	es. High ervice - ec, Sup tary Se dia. Traff	sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S ic Charac	adovers. Downlink Parger – Docalized Services Services
Random Access Packet Access Prepaging - G Service Area. S 3G Services Capabilities. Qu of 3G Applicati	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Juality of Service – 3G Application ons. M-Commerce. Examples Jpgrades. Downlink Bottleneck.	n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A	TS Net ce, Mu uting. / Beare ication pplicat	r Pro work - ltimeo Adapt - Ser Tech	cedure – Loca dia Me ive M vices nologi	es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimed	es. High ervice - ec, Sup tary Se dia. Traff	sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S ic Charac	adovers. Downlink Parger – Docalized Services Services
Random Access Packet Access Prepaging - G Service Area. S 3 GSE 3GSErvices Capabilities. Qu of 3G Applicati Satellites. 3G U	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Juality of Service – 3G Application ons. M-Commerce. Examples Jpgrades. Downlink Bottleneck.	n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A	TS Net ce, Mu uting. / Beare ication pplicat	r Pro work - ltimeo Adapt - Ser Tech	cedure – Loca dia Me ive M vices nologi	es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimed	es. High ervice - ec, Sup tary Se dia. Traff	sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S ic Charac - New Sp	adovers. Downlink Parger – Docalized Services Services
Random Access Packet Access Prepaging - Gi Service Area. S 3G Services Capabilities. Qu of 3G Applicati Satellites. 3G U Total hours to b Text book :	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese Juality of Service – 3G Application ons. M-Commerce. Examples Jpgrades. Downlink Bottleneck.	n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A 4G Visio	rS Net ce, Mu iting. / Beare ication pplicat n	r Pro work Itimeo Adapt Ser Tech ions.	cedure – Loca dia Me ive M ive M vices nologi Termi	es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed nals – The	es. High ervice - ec, Sup tary Se dia. Traff Future -	sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S fic Charac - New Sp 45	adovers. Downlink arger – Docalized Services deristics Dectrum.
Random Access Packet Access Prepaging - Gi Service Area. S 3G Services Capabilities. Qu of 3G Applicati Satellites. 3G U Total hours to b Text book :	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese uality of Service – 3G Applicatio ons. M-Commerce. Examples Upgrades. Downlink Bottleneck. be taught	n the UMT ast Servic timal Rou ervices. ns - Appli of 3G A 4G Visio	rS Net ce, Mu iting. / Beare ication pplicat n	r Pro work Itimeo Adapt Ser Tech ions.	cedure – Loca dia Me ive M ive M vices nologi Termi	es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemer es. Multimed nals – The	es. High ervice - ec, Sup tary Se dia. Traff Future -	sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S fic Charac - New Sp 45	adovers. Downlink arger – Docalized Services deristics Dectrum.
Random Access Packet Access Prepaging - Gas Service Area. S 5 3G SE 3G Services Capabilities. Quo of 3G Applicati Satellites. 3G U Total hours to b 1 Juha K Reference (s) :	s Procedure – New Concepts in . Multimedia Broadcast/Multica ateway Location Register. Opt Smart Antennas RVICES – Service Categories. Telese uality of Service – 3G Applicatio ons. M-Commerce. Examples Upgrades. Downlink Bottleneck. be taught	the UMT ast Servic timal Rou ervices. ns - Appli of 3G A 4G Visio	TS Net ce, Mu uting. Beare ication pplicat n	r Pro work - ltimed Adapt - Ser Tech ions.	Loca – Loca dia Me ive M vices nologi Termi	es. Data T ations Servic essaging Se ultirate Cod otal Hrs Supplemen es. Multimeo nals – The cond Edition	es. High ervice - ec, Sup tary Se dia. Traff Future -	sion, Har I-Speed D Super-Ch port of Lo 9 ervices. S fic Charac - New Sp 45	adovers. Downlink arger – Docalized Services deristics Dectrum.

	K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulatio	n		R 20	800
Depa	artment	Information Technology	Progra			&Nam	ne	Inf		3.Tech. n Technol	ogy
			Semes								
Cours	se Code	Course Name		Hou	rs / W	eek	Cre	edit	Ma	ximum M	arks
				L	Т	Р	0)	CA	ES	Total
0821	0871E	INFORMATION SYSTEM DES		3	0	0	3	-	50	50	100
Obje	ctive(s)	To know the basics of managemaintenance of information sy and information systems. To k	/stems. 7	o und	erstai	nd bas	sic issu	ues in	knowled	dge mana	gemen
1	MANAG	ING THE DIGITAL FIRM				Т	otal H	rs		9	
syster applic inform	ms- major ations – o nation syst	n systems – contemporary a types of systems in organiz rganizations and information sy ems and business strategy.	ations – ystems –	syste	ms fi	rom a decisio	funct on mal	ional king a	perspec	tive – er nation sy	terprise
2	DESIGN	IING INFORMATION SYSTEMS	S			Т	otal H	rs		9	
value	of Inform – Manag	stems development – alternate ation Systems - The importanc ing Implementation DPMENT AND MAINTENANCE	ce of cha			gemen	t in in	format			
0	3 DEVELOPMENT AND MAINTENANCE OF Total Hrs INFORMATION SYSTEMS						13		5		
4 Knowl syster moral	dologies. KNOWL ledge Mar ns – Unde dimensior	Users – off-the shelf soft EDGE MANAGEMENT, ETHIC magement in the organization – erstanding ethical and Social iss ns of Information Systems – Sy	S AND S Informat sues pact	ECUR tion ar	ITY Id Kno syste	T owledg ms –	otal H ge bas Ethics	rs se syst in an	tems – I Informat	9 Decision - ion societ	suppor
Ensur 5	INFORM	n Quality. IATION ARCHITECTURE				Гт	otal H	rs		9	
Defini in the	ng Inform	ation Architecture – why Inform orld – Information Ecologies				atters	– Pra	cticing		ation Arch	
Total I	hours to b	e taught								45	
Text b	ook (s) :										
1	edition, I	Kenneth & Landon Jane, "Mana PHI, 2004.	-			-		•	-	-	-
2	publicati	. Gupta, "Management Infor ons Pvt., Ltd., 1998.		-			-				-
3	Associat	osenfel and Peter Morville, ' es, 2002.	Informat	ion A	rchite	cture	tor the	e vvo	rid wide	e vveb",	O'Reilly
	ence (s) :										
1		Alter, "Information Systems – A									
2		pta, "Information Systems – Su									
3		G. Murdick, Joel E. Ross a ment", PHI, 1994.	and Jar	nes R	. Cla	ggett,	"Info	rmatio	n Syste	ems for	Moderr

K.S.	Rangasamy College of Techn	ology - A	Autono	omou	s Reg	ulation		R 2	800
Department	Information Technology	Progra	mme	Code	&Nam	e .		.Tech.	
2 0 0 0 0 0 0 0		0				Inf	ormation	Techno	ogy
	l	Semes		-					
Course Code	Course Name		Hou	rs/W		Credit		ximum Marks	
			L	Т	Р	С	CA	ES	Total
08210872E	USER INTERFACE DESIGN		3	0	0	3	50	50	100
Objective(s) To study the concept of menus, windows, interfaces. To study about business functions, study the testing methods. To study the characteristics and components of windows. To study the various controls for the windows. To study about various problems in windows design with color, text, graphics.								udy the	
1 INTRO	DUCTION				Tota	l Hrs		9	
	portance-Human-Computer inte m - web user interface-popularit						face-Dire	ect mani	pulation
2 DESIGN PROCESS					Tota	Total Hrs 9			
business functi system timings	design process- obstacles-usab ons-requirement analysis-Direc - Human consideration in scree M MENUS AND NAVIGATION	t-Indirect n design	meth			usiness fun			
	enus - functions of menus-con		-	forma				•	
	ng menus-graphical menus		inchu-	Ionna	ung -	prirasing th		30100011	y menu
4 CONTI					Tota	l Hrs	9		
systems-device	racteristics-components-presen -based controls: characteristics ation control-custom control-pres	-Screen	-based	d cont					
5 WINDO	OWS LAYOUT AND TEST				Tota	l Hrs		9	
	ages - effective feedback-guida oring Windows layout-test :proto						ccesssibi	lity-Icons	-Image-
Total hours to b	e taught							45	
Text book :									
Text DOOK .									
	t. O. Galitz ,"The Essential Guic t 2007	le to Use	r Interf	ace D	esign'	", Second Eo	dition, Jo	hn Wiley	& Sons,
1 Wilben		le to Use	r Interf	ace D	esign'	", Second Ed	dition, Jo	hn Wiley	& Sons,
1 Wilben Reprin Reference (s) :							dition, Jo	hn Wiley	& Sons,

K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 20	008		
Department	Information Technology	Progra			&Nam	ne Inf		3.Tech. n Technol	ogy		
		Semes									
Course Code	Course Name		Hou	rs / W	eek	Credit	Ma	ximum M	arks		
			ester VIII Hours / Week Credit Maximum Mill L T P C CA ES 3 0 0 3 50 50 sting. To highlight the strategies for software tes g levels. To identify the issues in testing managem controlling and monitoring testing activity Total Hrs 8 ess in Software Quality, Testing as a Process Role in a Software Development Organization, O Fest Design, Defect Examples, Developer/Tester Total Hrs 10 er Tester, Test Case Design Strategies, Using Blassoundary Value Analysis, Other Black-box Test Soundary Value Analysis, Other Black-box Test e-Box Approach to Test design, Test Adequacy C ditional White Box Test Design Approaches Content of the state					Total			
08210873E	SOFTWARE TESTING		-	-	-	-			100		
Objective(s)	stress the need and conduct o	of testing	levels.	To id	entify	the issues in	n testing management.				
1 INTRO	DUCTION										
Defects, Defect for Developing a 2 TEST 0	Classes, The Defect Repositor a Defect Repository CASE DESIGN	ry and Te	est Des	sign, E	Defect	Examples, I otal Hrs	Develope	er/Tester	Support		
Approach to Te Approaches, Bla Paths:Their Rol	est Case Design, Random Te ack-box testing and COTS, Usir	sting, Bo ng White∙	undar Box A	y Valu pproa	ue An Ich to Box T	alysis, Othe Test design, <u>est Design <i>A</i></u>	r Black- Test Ad	box Ťest equacy C	Design		
						otal Hrs		•			
Testable Unit,	Levels of Testing, Unit Test, L The Test Harness, Running the ts, Integration Test Planning, S otance Tests	e Unit te	sts an	d Rec	ording	g results, Int	egration	tests, De	esigning		
4 TEST N	MANAGEMENT				Т	otal Hrs		9			
Plan Attachmer Introducing the	ncepts, Testing and Debugging hts, Locating Test Items, The r test specialist, Skills needed by ROLLING AND MONITORING	role of th	ree gr	oups	in Tes						
	, Measurements and Milestone , Criteria for Test Completio Review Plans.										
Total hours to b								45			
Text book :							1				
1 Ilene B	urnstein, "Practical Software Te	sting", Sp	oringei	Inter	nation	al Edition, C	hennai, 2	2003			
Reference (s) :											
1 Edward Delhi, 1	d Kit, "Software Testing in the I	Real Wo	rld – lı	nprov	ing th	e Process",	Pearson	e Educatio	on, New		
	Dustin, "Effective Software Te	-									
	Rajani and Pradeep Oak, "Softv w-Hill, New Delhi, 2003	ware Tes	ting –	Effec	tive M	ethods, Too	ls and T	echnique	s", Tata		

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 20	800	
Depar	rtment	Information Technology	Progra	amme	Code	&Nam	le Inf		21: B.Tech. ormation Technology		
			Semes	ter VII	I						
Course	e Code	Course Name		Hou	rs / W	eek	Credit	Max	kimum Ma	arks	
Course	e Coue	Course Name		L	Т	Р	С	CA	ES	Total	
08210	0874E	DIGITAL IMAGE PROCESSIN		3	0	0	3	50	50	100	
Objec	tive(s)	To study the image fundau processing. To understand the To learn the procedures for re compression. To become skill L IMAGE FUNDAMENTALS A	e various storation ed at the	mathe of ima image	matica ige. To segm	al cono o deal ientatio	cepts applied with technic	d to imag jues perf	e enhand ormed fo	cement. r image	
=						-			0	Desis	
geome	tric trans hard – Di	ual perception – Image samplin formations-Introduction to Four screte Cosine Transform, Haar,	ier Trans Slant – k	form a	nd DF	T – S	eparable Im	p betwee age Tran	sforms -	– Basic Nalsh –	
2	IMAGE	ENHANCEMENT TECHNIQUE	ES			Т	otal Hrs		9		
3 Model	IMAGE of Imag	narpening filters – Homomorphic RESTORATION e Degradation/restoration proc rained least mean square filteri	ess – N	oise n		$= \ln v$				square	
4		COMPRESSION	<u> </u>		Total Hrs			9			
coding-	–.Lossy -Compre	Lossless compression: Variat Compression: Transform codir									
standa		ssion standards- Continuous		ll Ima		mpres	sion Standa		eo Comp	Binary	
5	IMAGE	SEGMENTATION AND REPR	ESENTA	II Imag	ge Co	mpres	otal Hrs	ards-Vide	eo Comp	Binary pression	
5 Edge o Polygo	IMAGE detection nal app		ESENTA ased seg nents –	II Imag TION gmenta Boun	ge Co	mpres T	otal Hrs	ards-Vide	eo Comp 9 n: chain	Binary pression codes-	
5 Edge o Polygo descrip	IMAGE detection nal app	SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des	ESENTA ased seg nents –	II Imag TION gmenta Boun	ge Co	mpres T	otal Hrs	ards-Vide	eo Comp 9 n: chain	Binary pression codes-	
5 Edge o Polygo descrip	IMAGE detection nal app otors – R ours to b	SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des	ESENTA ased seg nents –	II Imag TION gmenta Boun	ge Co	mpres T	otal Hrs	ards-Vide	eo Comp 9 n: chain riptors -	Binary pression codes-	
5 Edge o Polygo descrip Total ho Text bo	IMAGE detection nal app otors – R ours to b ook : Rafael Educat	SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des	ESENTA ased seg nents – scriptors-	II Imag TION gmenta Boun Textu	ge Co ation dary e.	mpres T – Bou descri	otal Hrs otal Hrs Indary repre ptors: Simp	ards-Vide esentation ple desc	9 9 n: chain riptors - 45	Binary pression codes- Fourier	
5 Edge o Polygo descrip Total ho Text bo	IMAGE detection nal app otors – R ours to b ook : Rafael	SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E	ESENTA ased seg nents – scriptors-	II Imag TION gmenta Boun Textu	ge Co ation dary e.	mpres T – Bou descri	otal Hrs otal Hrs Indary repre ptors: Simp	ards-Vide esentation ple desc	9 9 n: chain riptors - 45	Binary pression codes- Fourier	
5 Edge o Polygo descrip Total ho Text bo	IMAGE detection nal app otors – R ours to b ook : Rafael Educat nce (s) :	SEGMENTATION AND REPR – Thresholding - Region Ba roximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E	ESENTA ased seg nents – scriptors- Woods	II Imag TION gmenta Boun Textu	ation dary re.	mpres T- Bou descri	otal Hrs otal Hrs Indary repre ptors: Simp Processing"	ards-Vide esentatio ple desc	9 9 n: chain riptors - 45	Binary pression codes- Fourier	
5 Edge o Polygo descrip Total ho Text bo 1 Referen	IMAGE detection nal app otors – R ours to b ook : Rafael Educat nce (s) :	SEGMENTATION AND REPR – Thresholding - Region Baroximation – Boundary segn egional descriptors –Simple des e taught C Gonzalez and Richard E ion, 2007.	ESENTA ased seg nents – scriptors- Woods sing", Joh	II Imag TION gmenta Boun Textur , "Dig	ation dary re. ital In y & So	- Bou descri	otal Hrs otal Hrs indary repre ptors: Simp Processing" ew York, 20	ards–Vide esentatio ble desc , third e	9 9 n: chain riptors - 45 edition, F	Binary pression codes- Fourier	

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 20	008
Depa	artment	Information Technology	Progra	amme	Code	&Nam	ne Inf	21: B ormation	.Tech. Technol	ogy
			Semes	ter VII	I					
Cours	se Code	Course Name		Hou	rs / W	eek	Credit	Max	kimum M	arks
Cours	se coue	Course Name		L	Т	Р	С	CA	ES	Total
0821	10881E	DATA WAREHOUSING AND MINING		3	0	0 3 50 50 100				
Obje	ctive(s)	To serve as an introductory design aspects of Data Minim mining with in detail coverage classification, clustering and concept of data warehousing w	ng and I of basic associatio	Data V tasks, on rule	Vareh metri es are	ousing cs, iss e exha	g. To introdustion in the sues, and im austively dea	uce the plication.	concept Core top To introd	of data bics like
1	INTRODUCTION AND DATA WAREHOUSING Total Hrs 9									
		ata Warehouse, Multidimensior ing to Data Mining.	al Data	Model	, Data	War	ehouse Arch	nitecture,	Impleme	entation,
2	DATA PREPROCESSING, CONCEPT DESCRIPTION Total Hrs								9	
Gener Statist	ration, Co tical Meas					rizatio	ns, Class C		ons, Des	
3		ATION RULES					otal Hrs		9	
	Associatio	e Mining, Single-Dimensional E on Rules from Transaction Data		Associ	ation			ctional C	atabase	s, Multi-
4		FICATION AND CLUSTERING					otal Hrs		9	
Other	Classifica	nd Prediction, Issues, Decision tion Methods, Prediction, Class rchical Methods-BIRCH, Partitio	ifier Accu	uracy,						
5	RECEN	T TRENDS				Т	otal Hrs		9	
Spatia Mining		ses, Multimedia Databases, Tex	t Databa	ses, W	orld V	Vide V	Veb, Applica	tions and	Trends	in Data
Total	hours to b	e taught							45	
Text b										
1	J. Han, I	M. Kamber, "Data Mining: Conce	epts and	Techn	iques	", Haro	court India / I	Morgan k	Kauffman	, 2001.
Refere	ence (s) :									
1	-	t H.Dunham, "Data Mining: Intro	-							
2	Sam Ana	ahory, Dennis Murry, "Data War	ehousing	, in the	e real v	world"	, Pearson Ec	ducation 2	2003.	
3		and, Heikki Manila, Padhraic Sy		•			-	004.		
4		ion, "Building the Data Warehou				-				
5		zon, Stephen J.Smith, "Data Wa		-		-				001.
6	Paulraj F	Ponniah, "Data Warehousing Fu	ndament	als", V	Viley-I	nterso	ience Public	ation, 20	03.	

	K.S.	Rangasamy College of Techn	ology - A	Auton	omou	s Reg	ulation		R 20	008
Depa	rtment	Information Technology	Progra	mme	Code	&Nam	ne laf		.Tech.	0.011
			Semes	tor \/ll	1		Int	ormation	recnnoi	ogy
			Semes		rs/W	look	Credit	Mov	imum M	orko
Cours	e Code	Course Name		нои	T	P	Credit	CA	ES	Total
0001	0000	E-COMMERCE		L 3	•	•	3	-		
	0882E ctive(s)	To enable learners to unders	stand the	v	0 tropic	0	-	50 sinoss ar	50 od in no	100
Objec	Silve(S)	Security.		Elec	TOTIC	COMIN		silless al	iu ili pa	ymenis,
1	INTROD	UCTION TO E-COMMERCE		Total Hrs					8	
Electro	onic comr	nerce and physical commerce -	Econom	ic forc	es – a	dvant	ages – myth	s - busine	ess mode	els.
2	TECHNOLOGY INFRASTRUCTURE Total Hrs							10		
		orld Wide Web, internet proto					extranet - d	cryptogra	phy, info	rmation
		hology- basics of web server ha	rdware a	nd sof	ware.					
-		SS APPLICATIONS Total Hrs				10				
CRM;	Business	nted ecommerce – etailing and s oriented ecommerce – E-Go d Web portals								
4	ECOMM	ERCE PAYMENTS AND SECU	IRITY			Т	otal Hrs		9	
E payn	nents - C	haracteristics of payment of sys	tems, pro	otocols	s, E-ca	ash, E	- check and	Micro pay	ment sy	stems.
5	LEGAL A	AND PRIVACY ISSUES IN E- C	OMMER	CE		Т	otal Hrs		8	
		nd privacy issues – Protectior arranties. Taxation and encrypt			nethoo	lology	- consume	r protect	ion, cybe	er laws,
	nours to b								45	
Text be	ook :									
1	Hentry C	han & el , E-Commerce – funda	amentals	and A	pplica	itions,	Wiley India	Pvt Ltd, 2	007.	
2	Gary P.	Schneider, Electronic commerc	e, Thoms	on co	urse te	echno	ogy, Fourth	annual eo	dition, 20	07.
Refere	ence (s) :									
1	McGraw	Bhasker, Electronic Commerce Hill Publications, 2008				-				
2		K.Bajaj and Debjani Nag, E ons, 2008	commer	ce- th	e cutt	ing ea	dge of Busir	ness, Ta	ata McG	raw Hill
3	Efraim T	urban et al, Electronic Commer	ce –A ma	nager	ial pe	rspect	ive, Pearson	Educatio	on Asia,	2006

	K.S.	Rangasamy College of Techn	ology - /	Auton	omou	s Reg	ulation		R 2	008
Departme	nt	Information Technology	Progra	amme	Code	&Nam	ne		: B.Tech. on Techno	logy
			Semes	ter VII	I					
0	al a			Hou	rs / W	eek	Credit	N	1aximum N	larks
Course Co	ae	Course Name		L	Т	Р	С	CA	ES	Total
08210883		OPEN SOURCE ARCHITECT	-	3	0	0	3	50	50	100
Objective(s)	The main objective is to a Technologies and Practices.	allow stu	dents	to a	ddres	s issues	and ad	apt Open	Source
-		EW OF OPEN SOURCE SOFT					l Hrs		9	
Examples of Open Sour Apache,Mo	of Op ce \$ zilla,	pen Source Software: The O pen Source Software Products, Software: The Berkeley Softw Open Source Software Open S	The Ope are Disti Source: T	en Sou ribution The Go	urce S n, Tež	oftwai X, The	e Develop Free So	oment Pr oftware	ocess, A h Foundatior	istory of
		OURCE SOFTWARE QUALIFI	CATION	AND		Tota	ll Hrs		9	
in OSS dev	elop for IS	of Open Source Software, Tran oment, The OSS development S architecture, CATWOE and So SS.	life cycle	, Deri	/ing a	frame	ework for	analyzing		
3 OSS	EN	VIRONMENT				Tota	l Hrs		9	
motivations macro-level	, Te l(indi	he "where?" of OSS, the "whech whethe the second structure of the second scheme of the second second second second second second second second second second seco	macro-le al micro-	vel(ind level a	lividua	al) mo	otivation,	Economi	c micro-le	
		ATION ARCHITECTURE AND H E SOFTWARE IS DEVELOPED		EN		Tota	ll Hrs		9	
Interoperab Languages Implementa	ility, Use Ition	chitecture: Types of System Development Platform Cho d to Develop Open Source Pro Roles, Open Source Impac Documents, Migration, Interacti	oices, O ducts, C t on Tea	pen ross-P am Is	Source latforr sues,	e So n Cod Imple	ftware Do e, Managi ementation	evelopmong ng Syste Proces	ent: Methem	odology, entation:
5 OPE	N S	OURCE SERVER APPLICATIO	NS			Tota	l Hrs		9	
Systems M The Office	anag Suite	Server Applications: Infrastruct gement, Open Source Desktop e, Mail and Calendar Clients, P ng: Types of Licenses, License	Applicat ersonal S	ions: I Softwa	ntrodu re, Co	uction, ost of	Graphica OSS: Tota	I desktop I cost of	os, Web B Ownershi	rowsers, p, Types
Total hours	to b	e taught							45	
Text book :								·		
Rayr	mone	nding Open Source Softward d, Addison-Wesley Professiona	l; 1st edit	ion (D	eceml	5 oer 31	, 2001)		0,	
2004	I),20	urce Software: Implementation 04 [Chapters 3, 7, 8, 9, 10, 11,		agem	ent, by	/ Paul	Kavanagł	n, Digital	Press (July	/ 26,
Reference ((s) :									
		cess of Open Source by Steven							,	
2 Suco	ceed	ing with Open Source by Berna	rd Golde	n, Adc	ison-\	Nesle	y Professio	onal (Aug	gust 10, 20	04)

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Department	Information Technology	Progra	mme	Code	&Nam	ne		.Tech.	
Dopartmont	monnation recimelogy	Ū			antan	Inf	formation	Technol	ogy
	1	Semes		-					
Course Code	Course Name		Hou	rs / W	eek	Credit	Max	kimum M	arks
			L	Т	Р	С	CA	ES	Total
08210884E	SOFT COMPUTING		3	0	0	3	50	50	100
Objective(s)	To learn the basics concepts networks. To have knowledge of genetic algorithm. To study	e on syste	ms in	volvin	g neui	ofuzzy netw	orks. To	study the	
1 FUZZ`	Y SYSTEMS	Total Hrs						9	
	ry-fuzzy rules and fuzzy reasor zy control methods.	ning-fuzzy	infere	ence s	system	is-decompos	sition-fuzz	•	ata and
2 NEUR	NEURAL NETWORKS concepts-knowledge based processing-single layer percept							9	
organizing netv 3 NEUR Adaptive neuro	earning-feed forward and back vorks-Hopfield networks. O FUZZY MODELING: o fuzzy inference systems-classi euro fuzzy controls.				Tota	ll Hrs		9	
	TIC ALGORITHMS				Tota	l Hrs		9	
Basics of GA-	choice of encoding-selection p ate-a simplex GA Hybrid approa		-mutat	ion a			ss evalua	ation– In	proving
5 APPLI	CATIONS OF SOFT COMPUTI	NG			Tota	l Hrs		9	
	ues for inverted pendulum ca eting-Neural networks for patter								
Total hours to I	be taught							45	
Text book :									
1 Jang 2000.	I.S.R.Sun.C.T.and Mizutami.E,	"Neuro fu	izzy a	nd So	oft cor	nputing, "Pr	entice Ha	all, New	Jersey-
Reference (s) :									
1 Timith	y.J.Ross, "Fuzzy logic Engineeri	ing Applic	ations	," Mc0	Graw H	Hill, NewYork	k-1997.		
2 S N Si	vanandam, S.N.Deepa "Principl	es of Soft	Com	outing	" Wile	v India Pvt Li	td.		