



SJB Institute of Technology

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)



Department of Computer Science and Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Batch 2018-22

Semester-I/II

						23 23 2		- 1/11							
Subject:	Progr	ammin	g in C	& Dat	ta Stru	ictures	3			Subi	ect Co	de:		-	
	-					Cou	rse Ou	tcome	S						-
CO-1	Achi	eve knov	wledge,	with re	espect t	to the d	eveloni	ment of	C prob	dom col	ulaa abi	911-	-		
CO-2	Und	erstandi	ng and	analyzir	ng basid	princi	ales of	nrogra	mmina	in Class	ville sk	1115.			
CO-3	Desi	gn and d	evelopi	ment of	variou	is progr	ammin	o chille	mining	in C lang	guage				
CO-4	Effec	tive utili	zation	of mem	ory usi	ng noin	ter teck	hniguo				-			
CO-5	Unde	erstand t	he basi	c conce	ents of	nointer	and da	ta stru	turos						
	Video					CO-PC									-
COs							Os		-8					PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	Ι.
CO ₁	3		1							10	_ ^ _				-
CO2	1	2								-		1	1		ļ.,
CO3	1		2										2		_
CO4	1	2			-								1	1	
CO5											_				
	3	1										1			
Average	1.8	1.66	1.5								-	1	1.66	1	

Subject:	Comp	uter P	rogran	ming	Labor	atory				Subi	ect Co	de:			
						Cou	rse Ou	tcome	S	.19				T. T.	
CO-1	Gaini	ng kno	wledge o	on vario	ous par	ts of co	mputer							-	
CO-2		Analyzing problems through Drawing flowcharts and writing algorithms													
CO-3	Desig	n and o	developr	nent o	f C prob	olem so	lving sk	ills	TELLING CIT	Borrenni	13				
						CO-PC			ing						
COs				Mark Samuel Samuel			Os		- 0					PSOs	2
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO ₁	3									1			2		2
CO2	1	2	1										1		1
CO3		2	2						1	1		2	-	2	1
Average	2	2	1.5						1	1		2	1.5	2	1.5

Semester-III

Subject:	Engineering Mathematics-III(TCSFNT) Subject Code:18MAT31
	Course Outcomes
CO1	Know the use of periodic signals and Fourier series to analyze circuits and systems communication.
CO2	Explain the general linear system theory for continous - time signals and digital signal processing using the Fourier transform and z-transform.
CO3	Employ appropriate numerical methods to solve algebraic and transcedental equations.
58 (M) (4	Apply Green's theorem. Divergence theorem and Stokes theorem in various applications in the

CO5	Utiliz	ze the	concep	ots of	function	nctional onal an esis and	nd thei	r varia	ations	in the	applica	for calc	culus o	f varia	tions.
	.ws-	m-				CO-PO				Description of the second					
COs							Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											74.0	-	
CO2	3	2													
CO3	3	2													
CO4	3	2													
CO5	3	2													
Average	3	2													
Subject: I	Data S	tructure	es and	Applic	ations					Subje	ect Co	de: 18C	S32		
						Cour	rse Ou	tcomes	S						
CO-1	Apply	the kno	owledge	e of fun	damen	itals of C	C langu	age and	l definit	tion of c	data str	ucture			
CO-2	Analy	ze and	demons	strate th	ne stacl	ks, queu	ues ope	rations	and its	applica	tions				
CO-3						sts conc						าร			
CO-4		ruct tre				ind perf							ing an	d expre	ession
CO-5		graph b		ata stru	icture a	approac	ch for s	storing,	sorting	g, searc	ching of	f data a	and un	derstan	d file

COs		,				P	Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3												3		
CO2		2									2				
CO3			3								2				
CO4			2												
CO5				2											
Average	3	2	1.5	2							2		3		

handling basics

ibject:	Analog and Digital Electronics	Subject Code: 18CS33
	Course Out	tcomes
CO-1	Design and Analyze Analog Electronic Application regulator IC and Opamp IC.	Circuits using Transistor, Timer IC, Power Supply and
CO-2	Simplification of logical expression of digital circuit	its using Karnaugh map and Quine Mc Clusky methods.
CO-3		e different data processing circuits like multiplexers,
CO-4	Understand various gates and flipflops with addit	ional inputs and to write VHDL code for same.
CO-5		s and counters using appropriate flip flops and compar
	CO-PO-PSO	Manning

	400				(CO-PC	PSO	Mapp	ing						
COs	POs													PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO ₁		2	2										2		
CO2	2	2											2		
CO3		2	3										2		
CO4	2	2												3	
CO5			2	2										2	

Average								-					2	2.5	
Subject:	Comp	iter Or	ganiza	tion						Subj	ect Co	de:180	CS34		
	1						rse Ou								
CO-1	anun	remory	opera												
CO-2	Illustr	ate the	impor	tance of	f Interr	upts, bu	ıs arbitı	ration a	nd bus	interfac	ce in ac	cessing	the I/O	device	c
CO-3	Expla	n and o	compar	e differ	ent me	mory su	ubsyste	m and	memor	/ mappi	ing tech	niques		acrice	J
CO-4	Analy	ze and	evaluat	te the si	mple a	rithmet	ic and I	ogical u	units.						
CO-5	Illustr	ate the	hardw	ired cor	ntrol ar	nd micro	o progra)-PSO	ammed Map n	contro ing	l, Basics	of Pipe	elining.			
CO							Os		8	-				PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	2
CO1	3			1				0		10	11	12		_ Z	3
CO2	2	1											2		
CO3	2	2	1										1		
CO4	3	3	1					F					1		
CO5	2	200											2		
		2	1												
Average	2.4	2	1										1.5		
Subject: 5	Softwar	e Engi	neerin	σ	-					Subia	ect Co	de:18C	C 25		
J		8-		ь		Conv	se Ou	taam a		Subje	ci Co	ie. 100	333		_
	Unde	retand	coffw	ara ana	inoori					1000 mm - cm	1.1	.1.1			
CO-1	Unde	rstand	softwa	are eng	ineeri					ess, m	odels,	ethica	l and 1	profess	iona
	issues)				ng met	hods,	softwa	re proc	cess, m	iodels,	ethica	l and p	profess	iona
CO-2	Analy	ze var	ious sy	/stem m	nodels	ng met	hods,	softwa	re prod			ethica	l and p	profess	iona
CO-2 CO-3	Analy Evalu	ze var ate sol	ious sy	stem m	nodels y and	ng met in desi validat	hods, gns im	softwa plemer	re prod nted us testin			ethica	l and p	profess	iona
CO-2 CO-3 CO-4	Analy Evalu Create	ze var ate sot e quali	ious sy ftware ty proj	stem m to verif	nodels y and n for s	in desi validat oftware	hods, gns im e using	softwa plemen varion opmen	nted us testin	ng met	hods.				
CO-2 CO-3	Analy Evalu Create Apply	ze var ate sol e quali adva	rious sy ftware ty proj nced	vstem m to verif ect plan	nodels y and n for s	in desi validat oftware	hods, gns im e using	softwa plemen varion opmen	nted us testin	ng met	hods.				
CO-2 CO-3 CO-4	Analy Evalu Create Apply	ze var ate sol e quali adva	ious sy ftware ty proj	vstem m to verif ect plan	nodels y and n for s e dev	in desi validat oftware elopme	gns im e using e devel	plements various opments thods	nted us testin t. like ag	ng met	hods.				
CO-2 CO-3 CO-4 CO-5	Analy Evalu Create Apply	ze var ate sol e quali adva	rious sy ftware ty proj nced	vstem m to verif ect plan	nodels y and n for s e dev	in desivalidat oftware	gns im e using e develont met	plements various opments thods	nted us testin t. like ag	ng met	hods.		or bett	er soft	
CO-2 CO-3 CO-4	Analy Evalu Create Apply develo	zze var ate sot e quali adva opmen	rious sy ftware ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for see deve	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	warc
CO-2 CO-3 CO-4 CO-5	Analy Evalu Create Apply develo	ze var ate sol e quali adva opmen	rious sy ftware ty proj nced	vstem m to verif ect plan	nodels y and n for s e dev	in desivalidat oftware	gns im e using e develont met	plements various opments thods	nted us testin t. like ag	ng met	hods.		or bett	er soft	
CO-2 CO-3 CO-4 CO-5	Analy Evalu Create Apply develo	ate sole quali / adva opmen	rious sy ftware ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for see deve	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	ward
CO-2 CO-3 CO-4 CO-5	Analy Evalu Create Apply develo	ate softe quality adva	rious sy ftware ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for see deve	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	ward
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3	Analy Evalu Create Apply develo	ate sole quali / adva opmen	ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for s e deve	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	ward
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Analy Evalu Create Apply develo	ate softe quality adva	rious sy ftware ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for see devel	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	ward
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Analy Evalu Create Apply develo	ate softe quality adva	ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for s e deve	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	warc
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Analy Evalu Create Apply develo	ate softe quality adva	ty proj nced s t pract	vstem m to verif ect plan softwar ices.	nodels y and n for see devel	in desivalidat oftware elopme	gns ime e using e develont men	pleme varior opmen thods	nted us testin t. like ag	ng metl	hods. ogramn	ning fo	or bett	er soft	warc
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Analy Evalu Create Apply develo	zze var ate sol e quali adva opmen	ious sy ftware ty proj nced s t pract	ystem m to verif ect plan softwardices.	nodels y and n for see devel	in desivalidat oftware elopme	gns im e using e devel ent men	pleme varior opmen thods	nted us testin t. like ag	ile pro	hods.	ning fo	or bett	er soft	warc
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Analy Evalu Create Apply develo	zze var ate sol e quali adva opmen	ious sy ftware ty proj nced s t pract	ystem m to verif ect plan softwardices.	nodels y and n for see devel	in desivalidat oftware elopme	gns im e using e develont mer p-PSO Os	plement various opment thods Mapp	nted us testint t. like ag ing	ile pro	hods.	ning fo	or bett	er soft	ward
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Analy Evalu Create Apply develo	zze var ate sof e quali adva opmen 2 2 2 2	ious sy ftware ty proj nced s t pract	ystem m to verif ect plan softwardices.	nodels y and n for see developed 5	in desivalidat oftware elopme CO-PO 6 Cour	gns im e using e devel ent men -PSO Os 7	plemer y varior opmen thods Mapp	nted us testin t. like ag ing	ile pro	hods. ogramn 11 ect Coo	ning fo	1 2 S36	PSOs 2	ward
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: I	Analy Evalu Create Apply develo	ze var ate sol e quali adva opmen	ious sy ftware ty proj nced s t pract 3	ystem m to verif ect plan software ices. 4	spand of spa	in desivalidat oftware elopme CO-PO CO-PO Cour ent usir	gns im e using e develont men p-PSO Os 7	plemer y variou opmen thods Mapp 8	nted us testin t. like ag ing 9	ile pro 10 Subjection	hods. ogramn 11 ect Code e logic a	ning fo	or bett 1 2 S36	PSOs 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Analy Evalu Create Apply development of the Create Apply development of the Create Verify Demo	zze var ate sof e quali adva opmen 2 2 2 2 2 2	ious syftware ty projunced st pract 3 2 ematical trectness the ab	ystem m to verif ect plan softwar ices. 4 All Struct ass of an ility to s	spand of spa	in desivalidat oftware elopme CO-PO CO-PO Cour ent usir	gns im e using e develont men p-PSO Os 7	plemer y variou opmen thods Mapp 8	nted us testin t. like ag ing 9	ile pro 10 Subjection	hods. ogramn 11 ect Code e logic a	ning fo	or bett 1 2 S36	PSOs 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Analy Evalu Create Apply development of the Create Apply development of the Create Verify Demodiscrete	ze var ate sof e quali adva oppmen 2 2 2 2 2 2	ious syftware ty projunced st pract 3 ematica rectnear the abability.	ystem m to verif ect plan softwar ices. 4 All Struct ass of an ility to s	spand of spa	in desivalidat oftware elopme CO-PO 6 Cour ent usir oblems	gns im e using e devel ent met -PSO Os 7	plemer y varior opmenthods Mappi 8	nted us testin t. like ag ing 9 al and p g techn	ile pro 10 Subjection redication in the subjection in the subjec	hods. pgramr 11 ect Code e logic and com	ning fo	or bett 1 2 S36	PSOs 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: t CO-1 CO-2 CO-3	Analy Evalu Create Apply develo	ze var ate sof e quali adva opmen 2 2 2 2 2 Mathe the constrate te proborobler	ious sy ftware ty proj nced s t pract 3 2 ematica the ab hability. ns invo	stem meto verificet plans softwardices. 4 All Struct al Struct ss of an ility to s	spand of spa	in desivalidat oftward elopme CO-PO 6 Cour ent usir roblems	gns im e using e develont men p-PSO Os 7	plemer y varior opmen thods Mappi 8 tcomes ositions countin	nted us testin t. like ag ing 9 galand p g techn rating fu	ile pro 10 Subjections and inctions	hods. ogramn 11 ect Code logic and com	ning for the state of the state	1 2 S36 th table ics in the	PSOs 2	3 ext of
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: I	Analy Evalu Create Apply develor 1 2 Discrete Verify Demodiscrete Solve Constr	mather the constrate problem or other problem.	ious syftware ty projunced st pract 3 2 ematical the ability. ms invo pofs usi	ystem m to verif ect plan softwar ices. 4 All Struct ass of an ility to s	spand of the span	in desivalidat oftward elopme CO-PO 6 Cour ent usir roblems	gns im e using e develont men p-PSO Os 7	plemer y varior opmen thods Mappi 8 tcomes ositions countin	nted us testin t. like ag ing 9 galand p g techn rating fu	ile pro 10 Subjections and inctions	hods. ogramn 11 ect Code logic and com	ning for the state of the state	1 2 S36 th table ics in the	PSOs 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: t CO-1 CO-2 CO-3	Analy Evalue Create Apply development of the Construction of the C	mathemathemathemathemathemathemathemathe	t pract 3 2 ematical rectnee the ab hability. ms invo pofs usi atical in	stem meto verifice to verifice plans softwardices. 4 All Struct ass of an ility to solving record direction of the condition of the conditio	spand of significant	in desivalidat oftware elopme CO-PO 6 Courrent usir roblems ce relatif, proof	gns im e using e develont men e-PSO os 7	plemer y variou opmen thods Mapp 8 tcomes ositions countin d gener	nted us testin t. like ag ing 9 galand p g techn rating fution, pro-	ile pro 10 Subjections and inctions port by continuous and inctions port by continuous and inctions and inc	hods. ogramn 11 ect Code logic and com	ning for the state of the state	1 2 S36 th table ics in the	PSOs 2	3 ext of
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: t CO-1 CO-2 CO-3 CO-4	Analy Evalue Create Apply development of the Construction of the C	mathemathemathemathemathemathemathemathe	t pract 3 2 ematical rectnee the ab hability. ms invo pofs usi atical in	stem meto verificet plans softwardices. 4 All Struct ss of an ility to sell living recong direct plans softwardices.	sand tr	in desivalidat oftward elopme CO-PO 6 Cour ent usir roblems ce relatif, proof	gns im e using e devel ent men PSO See Out ng prop e using cons and by cont d constru	plemer various opmenthods Mappi 8 tcomes ositions countined gener traposit	nted us testin t. like ag ing 9 galand p g techn rating fution, pro-	ile pro 10 Subjections and inctions port by continuous and inctions port by continuous and inctions and inc	hods. ogramn 11 ect Code logic and com	ning for the state of the state	1 2 S36 th table ics in the	PSOs 2	3 ext of
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: I CO-1 CO-2 CO-3 CO-4 CO-5	Analy Evalue Create Apply development of the Construction of the C	mathemathemathemathemathemathemathemathe	t pract 3 2 ematical rectnee the ab hability. ms invo pofs usi atical in	stem meto verifice to verifice plans softwardices. 4 All Struct ass of an ility to solving record direction of the condition of the conditio	sand tr	CO-PO Courent using the control of the courent using the control of the courent using the control of the courent using the course	gns im e using e develont men o-PSO os 7 rse Out ng prop using c ons and by cont d constr	plemer various opmenthods Mappi 8 tcomes ositions countined gener traposit	nted us testin t. like ag ing 9 galand p g techn rating fution, pro-	ile pro 10 Subjections and inctions port by continuous and inctions port by continuous and inctions and inc	hods. ogramn 11 ect Code logic and com	ning for the state of the state	1 2 S36 Th table ics in the	PSOs 2 s. ne conte	3 ext of
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: t CO-1 CO-2 CO-3 CO-4	Analy Evalue Create Apply development of the Construction of the C	mathemathemathemathemathemathemathemathe	t pract 3 2 ematical rectnee the ab hability. ms invo pofs usi atical in	stem meto verifice to verifice plans softwardices. 4 All Struct ass of an ility to solving record direction of the condition of the conditio	sand tr	in desivalidat oftward elopme CO-PO 6 Cour ent usir roblems ce relatif, proof	gns im e using e develont men o-PSO os 7 rse Out ng prop using c ons and by cont d constr	plemer various opmenthods Mappi 8 tcomes ositions countined gener traposit	nted us testin t. like ag ing 9 galand p g techn rating fution, pro-	ile pro 10 Subjections and inctions port by continuous and inctions port by continuous and inctions and inc	hods. ogramn 11 ect Code logic and com	ning for the state of the state	1 2 S36 Th table ics in the	PSOs 2	3 ext of

Average	2.25	2.25	2.4	2			1.5	1.6	1	1
CO5		2	3	2			2	2	1	1
CO4	3	3	2				1		1	1
CO3	3		3						1	
CO2	2	2	2					2	1	
CO1	1	2	2					1		

Subject:	Analog I	Digital	Electro	nics Lab)			TOO HELE		Subj	ect Co	de:18C	SL37		
						Cour	se Ou	tcomes	S						
CO-1				ypes of ectronic			instrun	nent co	onnecti	ons an	d to e	evaluate	the	perforr	nance
CO-2				l experir				n differ	ent typ	es of e	lectron	ic circui	t and	analyze	their
CO-3	Identif those			ads in pr	actical	experi	ment si	mulatio	n resul	ts and o	develop	a new	design	to ove	come
					(CO-PO	-PSO	Mappi	ing						
COs						P	Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2		2									2		
CO2	2	2		1									2		
	3	2.										3	2		1
CO3	3		1												

Subject: 1	Data St	ructure	s Labor	atory						Subje	ect Co	de:18C	SL38		
						Cou	rse Ou	tcomes	3						
CO-1	Able t	o imple	ement li	inear ar	nd nonli	near da	ata stru	ctures a	and unc	lerstand	d its app	olication	15		
CO-2	Create	Able to implement linear and nonlinear data structures and understand its applications Create and analyze searching and sorting algorithms in data structures.													
CO-3	Demo	nstrate	data st	tructure	for so	ving re	al world	proble	ems						
					(CO-PC	-PSO	Mappi	ing						
COs						P	Os						72-3-1	PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1		2												2	
CO2			2											2	
CO3		2	2											2	
Average		2	2											2	

Semester-IV

Subject:	Engineering Mathematics-IV(capsm)	Subject Code:18MAT41
	Course Outcom	ies
CO-1	Solve first and second order ordinary differential equa multistep numerical methods.	tions arising in flow problems using single step and
CO-2	Solve problems of Quantum, mechanics employing Best coordinate systems and Legendre's polynomials relating	
CO-3	Understand the analyticity, potential fields, residues at theory and electromagnetic theory. Describe conformatheory, fluid flow visualisation and image processing.	
CO-4	Solve problems on probability distributions relating to probability distributions and stochastic matrix connect feasible random events.	T. N. 그 (뉴스트리스 - T.)
CO-5	Draw the validity of the hypothesis processed for the	50 ' () 1 ' () ' () () () () () () () ()

	relate	ed to dis	crete p	paramet	ter rand	lom pro	ocess.			9090 Popular State Bessel					-
		78774			(CO-PC)-PSO	Марр	ing						
COs		1					Os					C-AVIII.		PSOs	
CO3	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2								-					
CO2	3	2													
CO3	3	2													
CO4	3	2						-							
CO5	3	2													
Average	3	2								1					
UI										L					
0.11										_					
Subject: D	esign a	and Ana	alysis o	f Algori	thm					Subje	ect Coc	le:18C	S42		

Subject:	Design	and Ana	alysis o	f Algor	ithm					Subj	ect Co	de:18C	S42		
		W 10 1-20 - 1-20				Cour	rse Ou	tcome	8						
CO-1	Under efficie	stand th ncies usi	e basics ng aym	of algo ptotic n	rithm, m otations	nethods	for anal	yzing alg	orithm	and also	express	sing the I	boumne	daries of	•
CO-2	Descri	be the m	nethod (of divide	and co	nquer ai	nd when	to use	such alg	orithms					
CO-3		be dynar									sign situ	ation ca	lls for it		-
CO-4		be Backt													
CO-5	Analyz	e differe	nt class	es of alg	gorithms	s such as	s P,NP ar	nd NP h	ard				1 11.70.00		
						-	-PSO		MILE STORY	***************************************	-				
COs							Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2			2.001.00								2		2
CO2	3	3	3		2-10-21								2		2
CO3	3	3	3										2		2
CO4	3	2	3										2		2
CO5	2												2		2
Average	2.8	2.5	3							-			2		2

Subject: (Operati	ng Sys	tems							Subje	ect Co	de:180	CS43		
						Cour	rse Ou	tcomes	S						
CO-1	Demo	nstrate	e need fo	or Opei	rating S	ysten a	nd diffe	erent ty	pes of (Operati	ng Syste	em.			
CO-2			le techr				-	-		-		-			-
CO-3	Use p	rosesso	or , mem	ory ,st	orage a	nd file	system	comma	nds.						
CO-4	Defin	e dead	locks situ	uation a	and sol	ve dead	llock sc	enariou	s in a o	peratin	g systei	m.			
CO-5	Realiz	e the	different	conce	pts of c	pertair	ng syste	m in pla	atform	of usage	e throu	gh case	studies	i.	-
		0 - 2511,001001			(CO-PO	-PSO	Mappi	ing						
COs			1847			P	Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3												2	2	
CO2	2	2	1										2	2	
CO3	1	2	1										1	1	
CO4		2	2							1				17	
CO5	2		2											-	1
Average	2	2	1.5							-			1.66	1.6	1

ubject:	MICROCONTROLLERS AND EMBEDDED SYSTEMS	Subject Code: 18CS44
	Course Outcome	S
CO-1	Describe the architectural features, fundamentals of AR	M based systems.

CO-2	Apply	the kn	owledg	e of AR	M instr	uction s	set for	progran	nming /	ARM to	develor	n differ	ent app	lication	nc
CO 3	Outlin	e the i	mporta	nce of I	Embedo	led Syst	tems ar	nd Inter	facing 1	the Hard	ware C	ompo	nents an	id I/O v	vith
CO-3			ontrolle						Ü					,	
CO-4	Interp	ret the	basic h	ardwai	re comp	onents	and th	eir sele	ction m	nethod (using de	esign a	ttributes	to de	velop
					-design										
CO-5	Demo	nstrate	the ne	ed of r						dded sys	stem ap	plicati	ons.		
					(CO-PC)-PSO	Mapp	ing						
COs						P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11 '	12	1	2	3
CO1	3	-											3		
CO2	2	2												2	
CO3	2		2												2
CO4			2												2
CO5	3											1	2		
Average	2.5	2	2									1	2.5	2	2
							Anna -								-
Subject	Obia at C		10							I G 1 *		1.10	2015		
Subject:	Object C	riente	a Conc	epts						Subje	ect Co	de:180	JS45		
	T							tcome	S						
CO-1 CO-2					nted co		0								
CO-2										elopme					
CO-3	in java		object t	meme	i conce	pts like	: Class,i	ппепца	nce,ext	eption	nandiin	ıg, pac	kages ar	nd inte	rfaces
CO-4			ention	handlin	g and d	emons	trate m	ultithre	ading i	n iava				-	
CO-5					ndling e										-
		sk 21111k	JIC 001	ana na				Mapp		183					-
		-					Os	тарр	s			-	T	PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	_	1					9		10	**	12	2	2	1
CO2	1		2		3									2	1
CO3	3	2	2		0			-				1	2	2	ļ.,
CO4	"		2										1	2	
CO5			3		2					-			2		
Average	2.33	2	2		2.5							1	7-300	2	1
Average	2.33				2.3		<u></u>			L		1	1.75	2	1
Carlia ata										0.11		1 10	2016		
Subject: 1	Data Co	mmuni	cation			-				Subje	ect Co	de:180	2846		
	T = 6:							tcomes							
CO-1			ustrate	basic c	ompute	er netw	ork tec	hnolog	y, data	transmi	ssion te	echniqu	ies and	wireles	SS
CO-2	netwo		ifforont		£ daka 1										
CO-2	-				of data i detectio		075551100000000000000000000000000000000	ecnniqu	ies						
CO-4	-			Address of the last of the las	oncepts										
CO-5					andard		rung		-					-	-
			Circ rice	WOIK SI			-PSO	Mappi	inσ			-			
	I		-			PO		тарр	mg					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2				-	U	-			10	11	12	2		3
71.0 × 100 ×	2	2								-					
CO_2		2					-		ile ssanii se	-		2	2		9
CO2	2		ET.					ľ		1		2	1		1
CO3	2	-										The state of the s			-
CO3 CO4	2	2											1		1
CO3	-	-										2 2	1 1 1.4		1 1 1

CO-1 CO-2 CO-3	Impler Impler	ment C	ams in ja Duicksor	ava to so		Com						de:180	The state of the s		
CO-2 CO-3	Impler Impler	ment C		ava to se				itcomes	S						
COs	Impler	ment B	Duicksor												
COs	Impler	ment B	Caronson	rt, Merg	ge sort ,	, and Dy	ynamic	algorith	ım						
		ack pri	Backtrac ims and	cking alg	gorithm	ns for th	ne sum	of sub	set and	d Hamilt	tonian (cycle, g	reedy a	algorith	m, fo
						CO-PO)-PSO	Mappi	ing	70.00				-	
0.0000000000000000000000000000000000000	-						Os					-		PSOs	
COL	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
	2	2			1								2	2	2
CO ₂	2	2			1					-			2	2	2
CO3	2	2			1								2	2	2
Average	2	2			1		1000000000000000000000000000000000000						2	2	2
CO-2 CO-3	Develo LPC21 ² Develo	op and 48 eval op, con	luation l iduct an	ct experi board u nd test e	iments Ising En Experim ation b	to inter nbedde nentsto i oard us	rface DA ed C and interfac sing Emb	AC, ADC d Keil u \ ce 4x4 k bedded	Vision 4 keyboar I C and	per moto 4 Tool/ (rd, LED { Keil u Vi	Compile & LCD t	er. to displa	ay mess	sage on	
					(Mappi	ng						
COs			1 _ 1			PC								PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2		2									2		
CO2	2	2		1									2		
CO3	3	2										3	2		
Average	2.66	2		1.5								3	2		
Subject: 1	Manage	ement	and En	trepren	eurshi	Service .	emeste	er-V		Subje	ect Coc	de:18C	S51		

CO-2	outlin	e the in	nportan	ce of d	irecting	g leader	ship sty	les, co	ntrollin	g and co	ommun	ication			
CO-3			quality												
CO-4	Utilize	the res	sources	availab	le effe	ctively	through	ERP.							HIII CONTRACT
CO-5			PR's an				rt in ent	repren	eurship	and Ap	praise	the imp	ortanc	e of	
	T.				(D-PSO	Марр	ing		**			DCO	
COs					(O-PSO Os	Mapp	ing	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				PSOs	
COs	1	2	3	4	5			Mapp	ing 9	10	11	12	1	PSOs 2	Ι.
COs	1 3	2	3	4		Pe				10	11 2	12	1		
	1 3 2	2	3	4		P(10		12 1	1		

Define the management, organization, entrepreneur, planning, staffing, ERP.

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CO-1

CO₄

CO₅

Average

2

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2.2

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1.5

2

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2.2

	-				AND DESCRIPTIONS	10.00 (Carlotter) (Carlotter)	Contraction of the State of the		Fig. and a process						
CO-1			on of A							W.					
CO-2			ansport												
CO-3	Ident	ify and	classify	the rou	iters ar	nd apply	y Routii	ng algor	ithms ii	n Netwo	ork laye	er.			
CO-4			the wir)2.11 st	andard				
CO-5	Descr	ibe mu	ltimedia	netwo					-						
					(Mapp	ing	77.1					
COs			T	,	,	P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	1											2		
CO2	2	1												1	
CO3	2	2				1						1		1	1
CO4	1					1						1	1		1
CO5	1					1						1	1		1
Average	1.8	1.33				1						1	1.33	1	1
															1
Subject: 1	Databa	se man	gement	systen	n		-			Subi	ect Co	de:180	7853		
			bement	. Бубсен	-	Com	rse Ou	tcome	2	Subj	cer co	uc.100			
CO-1	Inculo	ate bas	ic conce	epts. ar	pplication					se Man	agemer	nt Syste	·m		-
CO-2	Apply	design		les & re	preser								d gain kr	nowled	lge on
CO-3			ieries us le) and I										ional dat ques	abase	
CO-4	Learn	basic is	sues of	transa	ction p	rocessir	ng and	concurr	ency co	ntrol re	ecovery	1			
CO-5	Desig	n and d	evelop	any dat	-			COLUMN TO THE PARTY OF THE PART		lly.					
	,				(CO-PC)-PSO	Mapp	ing						
COs					_	P	Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3														
CO2		2	3												
CO3		1	2		3										
CO4	3					-									
CO5		2	2		3									-	3
Average	3	1.66	2.33		3										3
															1
Subject: A	Automa	ata The	ory and	Comp	utabilit	-				Subje	ect Co	de:180	CS54		
	D				1 .	Service Control		tcome							
CO-1		instrate al langu		eage or	pasic r	natnem	iaticai r	nodels	or comp	outation	and de	escribe	how the	ey rela	te to
		-		ems in	terms o	of Regul	lar ovni	ression	and con	ntovt fra	o aram	mar fo	r langua	go.	-
CO-2	recog		c hroni	C1113 III	cerriis (or negu	iai expi	C331011	and COI	iceat IIE	e graili	iiiiai 10	i ialigud	Rc	
CO-3			trength	is and v	veakne	sses of	Compu	itationa	l Mode	ls		-			
CO-4			omata(A									-			
CO-5			em with												
	•							Марр	•					-	
CO.							Os			Name of the last o				PSOs	-
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											1		
CO2		2	2										2		
CO3		1	3										2		
CO4	- United	2	1				-			-		-	2		

Course Outcomes

Subject Code:18CS52

Subject: Computer Networks and Security

CO4

CO5		2	2	T		1				T			-1		
Average	3	2	2									-	2		
22.07.08					1		1			1	1	L.,	1.8		
Subject:	Applica	tion De	evelopn	nent wi	ith Dyth	·on		3000 A 1 1 1		C.h.	+ C =	1 10/	0055		
3	, iblance	tion D.	sveiop.	Henr w	itii ryti		rse Oi	ıtcome	·c	Subj	ect Co	de:180	CS55		
CO-1	Exami	ne Pyt	hon syn	itax and	l semar					of Duth	flour		J.C.	unctions	
CO-2	Demo	nstrate	profici	iency in	handli	ng Strin	os and	File Sv	tems	OI FYLL	On HOW	contro	l and n	unctions	
CO-3	Create	e, run a	ind mar essions	nipulate	Pytho	n Progr	ams us	ing core	e data s	tructure	es like L	ists, Die	ctionar	ies and ı	ıse
CO-4	Interp	ret the	concep	ots of O	bject-C	riented	d Progra	amming	g as use	d in Pyt	hon				
CO-5	Imple: Pytho	ment e	xempla	ry appl	ications	relate	d to Ne	twork I	Program	nming, \	Veb Sei	vices a	nd Dat	abases i	n
	1				(CO-PC)-PSO	Mapp	ing					-	
COs			-311/231			P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	de III e in ee	- West										1		
CO2	2				1							-	2		
CO3		2			2								2	-	
CO4	2		2											1	1
CO5		2			2					1		2	2	1	
Average	2.3	2	2		1.6						0	2	1.7	1	1
										Subje	ect Coc	de:180	S56		
CO-1 CO-2 CO-3 CO-4	Illustr Catego	ate she orize,c	x archit ell prog compar olicatio	grammi e and r	ing to v nake u	stem an write sl se of u	nd use nell sci nix sys	ripts stem ca	ic comi		ect Coo	de:18C	CS56		
CO-2 CO-3	Illustr Catego	ate she orize,c	ell prog compar	grammi e and r	ing to v nake u ce ove	stem and write slaves of ure a unit	nd use nell sci nix sys x syste	of bas ripts stem ca	ic comi		ect Coo	de:18C	CS56		
CO-2 CO-3 CO-4	Illustr Catego	ate she orize,c	ell prog compar	grammi e and r	ing to v nake u ce ove	stem and write slase of ura unit	nd use nell scr nix sys x syste	of bas ripts stem ca	ic comi		ect Coo	de:18C	CS56	DCO.	
CO-2 CO-3 CO-4	Illustr Categ Build	ate sho orize,c an app	ell prog compar plicatio	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste p-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands				PSOs	
CO-2 CO-3 CO-4 CO-5	Illustr Catego Build	ate she orize,c an app	ell prog compar	grammi e and r	ing to v nake u ce ove	stem and write slase of ura unit	nd use nell scr nix sys x syste	of bas ripts stem ca	ic comi		11	12	1	PSOs 2	3
CO-2 CO-3 CO-4 CO-5	Illustr Categ Build	ate sho orize,c an app	ell prog compar plicatio	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste p-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands		12	1 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs	Categ Build	ate shoorize,coan app	ell prog compar plicatio	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste D-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands			1 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3	Illustr Categ Build	ate shoorize, coan app	s a second secon	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste D-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands		12	1 2 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Categ Build	ate shoorize,coan app	ell prog compar plicatio	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste D-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands		12	1 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Illustr Categ Build	ate sho orize,c an app	3 3 2	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste D-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands		12	1 2 2 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Illustr Categ Build	ate shoorize, coan app	s a second secon	grammi e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste D-PSO Os	of bas ripts stem ca m Mapp	ic comi	mands		12	1 2 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Illustr Categ Build 1 2 2 2 3 2.75	ate shoorize, coan approximate and approximate shoorize, coan approximate and	3 3 2 2.5	gramm e and r n/servi	ing to vece ove	stem and write slave of unit of a unit of the posterior o	nd use nell scr nix sys x syste D-PSO Os	of bas ripts stem ca m Mapp	ic comi	nands	11	12	1 2 2 2 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Illustr Categ Build 1 2 2 2 3 2.75	ate shoorize, coan approximate and approximate shoorize, coan approximate and	3 3 2 2.5	gramm e and r n/servi	ing to vece ove	stem and write slave of unit of the slave of unit of the slave of unit of the slave	nd use nell scr nix sys x syste 2-PSO Os	of bas ripts stem cas m Mapp	ing 9	nands		12	1 2 2 2 2 2	T 7	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Illustr Categ Build 1 2 2 2 3 2.75	ate shoorize, coan approximate and approximate shoorize, coan approximate and	3 3 2 2.5	gramming and r	ing to vinake under over	stem and write slave of unit of the slave of unit of the slave of unit of the slave	nd use nell sci nix syste P-PSO Os 7	of bas ripts stem casm Mapp 8	ing 9	nands 10 Subje	11 eect Coo	12 1 1 1e:18C	1 2 2 2 2 2 2	2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Illustr Categ Build 1 2 2 2 3 2.75	ate shoorize, coan approximate and control of the c	3 3 2 2.5 works La	gramming and read read read read read read read rea	us netw	cour	nd use nell scr nix syste 2-PSO Os 7	Mapp 8 tcome:	ing 9 urity an	nands	11 cect Coc	12 1 1 1e:18C	1 2 2 2 2 2 2	2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: C	Illustr Categ Build 1 2 2 2 3 2.75 Compute	ate shoorize, control an approximate and constrate	3 3 2 2.5 Works La	e and r n/servi	us netw	cour coverking ent con	nd use nell scr nix syste 2-PSO Os 7	Mapp 8 tcome: ols, sec f comp	ing 9 urity an uter ne	10 Subjected error	11 cect Coc	12 1 1 1e:18C	1 2 2 2 2 2 2	2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: C CO-1 CO-2	Illustr Categ Build 1 2 2 2 3 2.75 Compute	ate shoorize, control an approximate and constrate	3 3 2 2.5 Works La	e and r n/servi	us netward differential to the control of the contr	cour coverking ent con	nd use nell sci nix system 2-PSO Os 7	Mapp 8 tcomesols, second fcompotocols	ing 9 urity an uter ne using N	10 Subjected error tworkin	11 cect Coc	12 1 1 1e:18C	1 2 2 2 2 2 2	2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: C CO-1 CO-2	Illustr Categ Build 1 2 2 2 3 2.75 Compute Analyz Demor	ate shoorize, can appropriate and appropriate and constrate e, imple	3 3 2 2.5 works Lacompare the woement and a second compare the work and a second compare	e and r n/servi	us network of different control of the control of t	CO-PO Courvorking ent con network CO-PO PO P	nd use nell scrinix systems of the s	Mapp tcome: ols, sec f compotocols Mapp	ing 9 urity an uter ne using N ing	Subjected error tworkin S2/NS3	11 cect Coo	12 I le:18C	1 2 2 2 2 2 2 2 2 PSI.57	s. PSOs	
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: C CO-1 CO-2 CO-3	Illustr Categ Build 1 2 2 2 3 2.75 Compute	ate shoorize, control an approximate and constrate	3 3 2 2.5 Works La	e and r n/servi	us netward differential to the control of the contr	COur vorking ent con network CO-PO	nd use nell scrinix system of PSO Os 7	Mapp 8 tcomesols, second fcompotocols	ing 9 urity an uter ne using N	10 Subjected error tworkin	11 cect Coc	12 1 1 1e:18C	1 2 2 2 2 2 2	S	3

CO3															
Average		2		1									2		
															1
Subject: 1	DBA La	b with r	nini pro	oiect						Subi	ect Co	de:180	'SI 58		
~			p. c			Com	rse On	tcome	e	Dubj	cci co	uc.100	201120		-
CO-1	Creat	e,updat	e and a	uery or	n the da			tcome,	3						
CO-2		onstrate				***************************************		of DRM9				-			-
CO-3		ment,a								nnlicat	ion				
			, , , , , , ,					Марр		ррисас	-				-
				-		-	Os		B					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3				2		-	0	-	+	**	14	3	1	3
CO2	2				2				-		-		3		
CO3	1	2	3		3	1			2	1	2	-		1	2
Average	2	2	3		2.3	1			2		+	2	2	2	3
Average			3		2.3	1	L		Z	1	2	2	2.6	1.3	2.6
Subject: 9	System	Softwa	re and	Compil	orc	<u>S</u>	emeste	er-VI		Subi	ect Co	de:180	261		
Subject	узсен	JULWA	Te anu	Compi	E13	Com	reo Ou	tcome		Subje	eci Co	ue. 1 oc	301		
	Тол	ndersta	nd tha	200000	te of ex					. ao fivo	040 000	1 4: ff	aust 1s v	41 4'	1
	10 u				us or si	Stems	sonwa	re, app.	neatioi	1 SOILW	are and	anter	ent nyp	otneti	cai
CO-1	mack	ine are	hitaatu	ro											
CO-1		ine arc			ile sym	hal tak	ala crac	ation(n	acc1) c	bioct fi	la oraș	tion(n	vaa2) lo	o dora i	and a
CO-1	Fami	liarize			ile,sym	bol tak	ole crea	ation(pa	assl),c	bject fi	le crea	tion(pa	iss2),lo	aders	and
CO-2	Fami linke	liarize rs	with so	ource fi			nige - I								and
	Familinke To u	liarize rs ndersta	with so	ource fi fundan	nental o	concep	ots of tr	anslate	ors and	strateg	ies for	parsin	g techn	iques	
CO-2 CO-3	Familinke To u Devi	liarize rs ndersta ce and the kno	with so nd the f perforn	ource fi fundan n synta	nental o	concep	ts of tr inslatio	anslate	ors and mes fo	strateg	ies for	parsin better	g techn	iques ization	
CO-2 CO-3 CO-4	Familinke To u Devi	liarize rs ndersta ce and	with so nd the f perforn	ource fi fundan n synta	nental o ax direc athesis p	concep eted tra phase a	ots of tr inslation nd ana	ranslato on sche lyze the	ors and mes for correl	strateg	ies for	parsin better	g techn	iques ization	
CO-2 CO-3 CO-4	Familinke To u Devi	liarize rs ndersta ce and the kno	with so nd the f perforn	ource fi fundan n synta	nental o ax direc athesis p	concep eted tra phase a	ots of translation and ana	anslate	ors and mes for correl	strateg	ies for	parsin better	g techn optimi tree and	niques ization d code	
CO-2 CO-3 CO-4	Familinke To u Devi Apply gene	liarize rs ndersta ce and the know ration.	with so nd the perform perform	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g techn optimi tree and	iques ization d code	
CO-2 CO-3 CO-4 CO-5	Familinke To u Devi Apply gene	liarize rs ndersta ce and the know ration.	with so nd the perform pwledge	ource fi fundan n synta	nental o ax direc athesis p	concep eted tra phase a	ots of translation and ana	ranslato on sche lyze the	ors and mes for correl	strateg	ies for	parsin better	g technoptimitree and	niques ization d code	
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CO-2 CO-3 CO-4 CO-5	Familinke To u Devi Apply gene	liarize rs ndersta ce and the know ration.	with so nd the perform owledge	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g technoptimitree and	iques ization d code	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the known that ion.	mith so and the perform owledge 3 2 2 3	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g technoptimitree and	PSOs 2	
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the know ration.	with so nd the perform owledge	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g technoptimitree and	iques ization d code	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the known the know	mith so and the perform owledge 3 2 2 3 2	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g technoptimitree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the know ration.	mith so and the perform owledge 3 2 2 3	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g technoptimitree and	PSOs 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the known the know	mith so and the perform owledge 3 2 2 3 2	ource fi fundan n synta e of syn	nental of ax direction of thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for etween	parsin better syntax	g technoptimitree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the known the know	with so nd the perform owledge 3 2 2 3 2 2 .2.25	fundan n synta e of syn	nental dax directions thesis p	concep eted tra chase a	ots of translation of ana	ranslate on sche lyze the	ors and mes for correlating	strategr compation be	iles for iller for etween	parsin better syntax	g technoptimitree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Familinke To u Devi Apply gene	liarize rs ndersta ce and r the known the know	with so nd the perform owledge 3 2 2 3 2 2 .2.25	fundan n synta e of syn	nental dax directions thesis p	concepted trabhase a	ots of translation nd ana op-PSO Os 7	manslated on schellyze the Mapp	ing 9	strategr compation be	iles for iller for etween	parsin better syntax	g technoptimitree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To u Devi Apply gene 1 3 3 3 Compu	liarize rs ndersta ce and r the know ration. 2 3 2 2 2.75	with so nd the perform owledge 3 2 2 3 2 2 .25 chics &	ource fi fundan n synta e of syn 4	nental dax directions in the sis p	Coun	ots of translation and ana op-PSO Os 7	manslated on schellyze the Mapp 8	ing 9	strateg r comp ation be	iles for iller for etween	parsin better syntax	g technoptimitree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: CO-1	Familinke To u Devi Apply gene 1 3 3 3 Compu	liarize rs ndersta ce and r the known the know	with so nd the perform owledge 3 2 2 3 2 2.25 ohics &	ource fi fundan n synta e of syn 4	nental on direction distribution distributio	Cour	orse Ou	manslated on schelyze the Mapp 8	ing 9 f open	strategr compation be	ics for iller for tween	parsin better syntax	g technoptimitree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: CO-1 CO-2	Familinke To u Devi Apply gene 1 3 3 3 Compu Expla Illustr	liarize rs ndersta ce and the known	mith so and the sperform owledge and a sperior and a speri	ource fi fundan n synta e of syn 4 Visualz s of Cor transfo	thesis p	Cour Graphic	orse Oucs and riewing	manslated on schellyze the Mapp 8 tcomesusage of function	ing 9 f open ns on 2	strateg r comp ation be 10 Subje GL D object	iles for iller for etween	parsin better syntax 12 de:180	g technoptimitree and tree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: CO-1 CO-2 CO-3	Familinke To u Devi Apply gene 1 3 3 3 Compu Expla Illustr Demo	liarize rs ndersta ce and r the known the know	metric to the content of the content	ource fi fundan n synta e of syn 4 Visualz	tiation mputer rmatior of clipp	Couragn and viing, 3D	orse Ouces and items of transfer	manslated on schellyze the Mapp 8 tcomesusage of function ormation.	ing 9 f open ns on 2 ns, color	strateg r comp ation be 10 Subja GL D objector and il	iles for iller for etween	parsin better syntax 12 de:180	g technoptimitree and tree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: CO-1 CO-2 CO-3 CO-4	Familinke To u Devi Apply gene 1 3 3 3 Compu Expla Illusti Demo	liarize rs ndersta ce and r the known the know	mith so and the sperform owledge and a sperior	visualz of Cortransfo	tiation mputer rmatior of clipp tion an	Coun Graphic in and viewi	D-PSO Os 7 rse Ou cs and tiewing transfo	manslated on schelyze the Mapp 8 tcomesusage of function ormation iniques	ing 9 f open ns on 2 ns, cold on 3D	strategr compation be	iles for iller for etween	parsin better syntax 12 de:180	g technoptimitree and tree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: 0 CO-1 CO-2 CO-3	Familinke To u Devi Apply gene 1 3 3 3 Compu Expla Illusti Demo	liarize rs ndersta ce and r the known the know	mith so and the sperform owledge and a sperior	visualz of Cortransfo	tiation mputer rmatior of clipp tion an ious AP	Cour Graphin and viewill for in	orse Ouces and iteming technology technology in the put interpretable of the put interpretable o	manslated on schelyze the Mapp 8 tcomesusage of function ormation ormatio	ing s f open ns on 2 ns, colo on 3D of to dev	strategr compation be	iles for iller for etween	parsin better syntax 12 de:180	g technoptimitree and tree and	PSOs 2 1 1 2	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: CO-1 CO-2 CO-3 CO-4	Familinke To u Devi Apply gene 1 3 3 3 Compu Expla Illusti Demo	liarize rs ndersta ce and r the known the know	mith so and the sperform owledge and a sperior	visualz of Cortransfo	tiation mputer rmatior of clipp tion an ious AP	Country Countr	orse Ouces and liewing transforing technology.	manslated on schelyze the Mapp 8 tcomesusage of function ormation iniques	ing s f open ns on 2 ns, colo on 3D of to dev	strategr compation be	iles for iller for etween	parsin better syntax 12 de:180	g technoptimitree and 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PSOs 1 1 2 1.33	3
CO-2 CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average Subject: CO-1 CO-2 CO-3 CO-4	Familinke To u Devi Apply gene 1 3 3 3 Compu Expla Illusti Demo	liarize rs ndersta ce and r the known the know	mith so and the sperform owledge and a sperior	visualz of Cortransfo	tiation mputer rmatior of clipp tion an ious AP	Country Countr	orse Ouces and iteming technology technology in the put interpretable of the put interpretable o	manslated on schelyze the Mapp 8 tcomesusage of function ormation ormatio	ing s f open ns on 2 ns, colo on 3D of to dev	strategr compation be	iles for iller for etween	parsin better syntax 12 de:180	g technoptimitree and 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PSOs 2 1 1 2	3

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CO2	3	2	2		1	1	1	1	1
CO3	3	2	2			$\left \begin{array}{c} 1 \\ 1 \end{array} \right $	-1	1	1
CO4	2	2	2				1 1	1	2
CO5	3	1	2			2	1	1	2
Average	2.8	1.6	2			2	2	1	2
71,11,00		1.0	4			1.5	1.2	1	1.75
Subject: \	Neb Te	echnology and A				ect Code:18C	2S63		
	Tomas ng			urse Outcome					
CO-1	Under	stand and Ada	apt HTML and CSS syr	ntax and sema	ntics to build we	b page			20.0
CO-2	Const	ruct and visual	lly format tables and	forms using H	TML and CSS				
	1 1000	10000	Scripts using JavaScri	A STATE OF THE PROPERTY OF THE PARTY OF THE	ASS SUB-CONTRACTOR ASSOCIATION				

subject:	vvebie	chnolo	gy and	Applica	ation					Subj	ect Co	de:18C	S63		
						Cou	rse Ou	tcome	S						
CO-1	Unde	rstand	and Ada	apt HTN	/IL and	CSS syn	tax and	seman	tics to	build w	eb page	,			
CO-2	Const	ruct an	d visua	lly form	at table	es and f	orms u	sing HT	ML and	LCSS	P0				
CO-3	Devel	op Clie nts dyn	nt-Side	Scripts	using J	avaScri	pt and S	Server-S	Side Scr	ipts usi	ng PHP	to gene	rate ar	nd displ	ay the
CO-4	Appra	ise the	princip	les of o	bject o	riented	develo	pment	using P	HP					
CO-5		ct JavaS									ites dev	eloper t	o focu	s on co	re
					(CO-PC	-PSO	Mapp	ing			The Property of the Park of th			
COs						P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO ₁	3	2											2	2	
CO ₂	2	2	2										2	2	
CO3	2	2	2					- COLINECTE IN COLUMN TO SERVICE IN COLUMN TO SERVI					2	2	
CO4	2	2				***************************************				 			2		-
CO5	2	2	2				AUTHOR STATE					2	2	2	2

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Average 2.2

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2

Subject:	Data M	ining ar	nd War	ehousir	ng					Subje	ect Co	de:18C	S641		
						Cou	rse Ou	tcome	S						
CO-1	Unde	rstand	the bas	sic con	cepts o	f data	mining	and da	ata war	ehousi	ng	FA \$			
CO-2							olement								
CO-3							a patter								
CO-4	Desci	ribe the	classi	fication	n and c	lusteri	ng tech	niques							
CO-5							stering			en prob	lem				
)-PSO					100000000000000000000000000000000000000			
COs						P	Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3										//		2		
CO ₂		2												2	
CO3			3						1					2	
CO4		2	2			2						1		2	2
CO5	3	2										1			3
Average															

Subject:	Cloud Computing and Applications	Subject Code: 18CS643
	Course Outco	omes
CO-1	Explain cloud computing, virtualization and classify	services of cloud computing
CO-2	Illustrate architecture and programming in cloud	
CO-3	Analyze the importance of Concurrent and High thro	oughput computing
CO-4	Illustrate the importance of Data intensive computing	ng using Map Reduce programming
CO-5	Describe the platforms for development of cloud ap	plications and List the application of cloud
	CO-PO-PSO M	apping

COs						P	Os							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2												2		
CO2		2						- Williams					2		
CO3		2							7.				2		
CO4		1			1	7							2	1	
CO5	1	1			1							1	2	1	1
Average	1.5	1.5			1							1	2	1	1

Course Outcomes

Understand and Apply enumeration and autoboxing concepts in managing the data in objects

Understand, apply and create a solution for string pattern matching, searching and extracting

Understand, apply and create a web interface using JSP concepts and learn to deploy the web

understand and Apply collection concepts to store, access, remove, sort the data

Subject Code: 18CS644

Subject: Advanced java and J2EE

CO-1

CO-3

CO-4

35-37-0 (3)	applica	ation to	o app se	rver.											
CO-5	Under	stand,	apply ar	nd crea	ite a so	lution t	o mana	ge the	back-er	nd data	base us	sing JDB	C conc	epts	
					(CO-PC	D-PSO	Mapp	ing				gyana sakan ara		
COs						P	Os			ASSESS OF THE PROPERTY OF THE				PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2												2		
CO2		2	2										2	2	
CO3	3	2	2											2	
CO4	2		2	-	2		1							1	2
CO5	2		2		2	1							2	2	1
Average	2.25	2	2		2	1	1						2	1.7	1.5
Sharin barraning			li i												
			9860							T - 100 10 100		To solve			
Subject: I	Data str	ucture	es and a	pplica	tions					Subje	ect Co	de:18C	2S652		
						9 12, 2200	rse Ou		353						
CO-1			owledge									ucture			
CO-2			demons				The part of the part of the part of			STATE STATE STATE OF STATE OF	STATE OF THE PARTY OF THE PARTY.				
CO-3			storage (**		The second second			the second second second	Appropriate the second second				
CO-4	evalua	ation.	ees data											81	
CO-5		aph ba ng basi	ised data	a struct	ture ap	proach	for stor	ring, so	rting, se	earching	g of dat	a and u	ndersta	and file	
					(CO-PC)-PSO	Mapp	ing						
COs						P	Os							PSOs	A.
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3												3		
CO2		2									2				
CO3			3	110.00							2				
CO4		-	2	8						1					
CO5				2						1				-	
Average	3	2	1.5	2			-	-		1	2		3		
		18000 V	~ ~ ~			4	448	4			And		-	A	

Subject:	System	Softw	are lab							Subj	ect Co	de:180	CSL66		
								itcome	S						
CO-1			and dem												-
CO-2	Imple	ement a	and dem	nonstra	te top o	down, b	ottom	up pars	ing and	l genera	tion of	interme	ediate	code.	
CO-3	Imple	ment c	different sed in op	t algorit	hms re	quired	for mer	mory m	anager	nent, pr	ocessso	chedulir	ig,reso	urce	
					(CO-PC)-PSO	Mapp	ing	- With					-
CO-							Os		0					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2			2		1	-		10	- 1.1	12	1	2	٦
CO2		2	2			-		-	-	+			7		
CO3	2	2	2			-				+			2		-
Average	2	2	2		2		-	-		-	-				-
riverage	4		<u>L</u>										2	2	<u> </u>
Subject: (Compu	ter Gra	nhics w	ith min	i proje					Cubi	vat Ca	Ja. 190	CI (7		
Subject.	compa	ici Gia	pines w	icii iiiiii	proje				-	Subje	ect Co	de:18C	SL0/		
	T.,,,		-					tcomes		-					
										manutar	~ - : .		nation	MANAGEMENT CONT.	
CO-1	GL	ate the	concep	ots of co	mpute	r graph	ics and	implen	ient co	mputer	grapnic	es applic	Lation	using o	pen
CO-1	GL													using o	oen
CO-2	GL Devel	op and	execute	e polygo	on fillin	g,clippi	ng,algo	rithms	and ani	mate cu	ırves us	ing ope	nGL		
	GL Devel	op and n and ii		e polygo	on fillin	g,clippi	ng,algo	rithms	and ani	mate cu	ırves us	ing ope	nGL		
CO-2	GL Devel Desig	op and n and ii	execute	e polygo	on fillin c transf	g,clippi formatio	ng,algo on and	rithms a	and ani	mate cu	ırves us	ing ope	nGL		
CO-2 CO-3	GL Devel Desig	op and n and ii	execute	e polygo	on fillin c transf	g,clippi formation	ng,algo on and	rithms	and ani	mate cu	ırves us	ing ope	nGL	or real	world
CO-2	GL Devel Desig	op and n and ii	execute	e polygo	on fillin c transf	g,clippi formation	ng,algo on and	rithms aviewing	and ani function	mate cu	ırves us bjects	sing ope	enGL pengl f	or real	world
CO-2 CO-3	GL Devel Desig proble	op and n and in ems	execute	e polygo nt basio	on fillin c transf	g,clippi formation	ng,algo on and D-PSO Os	rithms a	and ani	mate cu	ırves us	sing ope using op	enGL pengl f	or real	world
CO-2 CO-3 COs	GL Devel Desig proble	op and in and in ems	execute mpleme	e polygo nt basio	on filling transf	g,clippi formation	ng,algo on and D-PSO Os	rithms aviewing	and ani function	mate cu	ırves us bjects	sing ope using op	enGL pengl f	PSOs	world
CO-2 CO-3 COs CO1 CO2	Devel Desig proble	op and in and in ems	execute mpleme 3 2 2	e polygo nt basio	on fillince transf	g,clippi formation	ng,algo on and D-PSO Os	rithms aviewing	and ani functions	mate cu	urves us objects	using operusing of	enGL pengl f	PSOs 2	3 1 1
CO-2 CO-3 COs CO1 CO2 CO3	Devel Desig proble	op and in and in ems 2 2 2 2	execute mpleme 3 2 2 3	e polygo nt basio	on filling transf	g,clippi formation	ng,algo on and D-PSO Os	rithms aviewing	and ani functions ing	mate cuons on c	arves us objects	sing operusing of	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3	Devel Desig proble	op and in and in ems	execute mpleme 3 2 2	e polygo nt basio	on fillince transf	g,clippi formation	ng,algo on and D-PSO Os	rithms aviewing	and ani functions	mate cu	urves us objects	using operusing of	enGL pengl f	PSOs 2	3 1 1
CO-2 CO-3 COs CO1 CO2	Devel Desig proble	op and in and in ems 2 2 2 2	execute mpleme 3 2 2 3	e polygo nt basio	on filling transf	g,clippi formation	ng,algo on and D-PSO Os	rithms aviewing	and ani functions ing	mate cuons on c	arves us objects	sing operusing of	enGL pengl f	PSOs 2 1 2	3 1 1 2
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CO-2 CO-3 COs CO1 CO2 CO3 Average	GL Devel Desig proble 1 2 2 2 2	op and in and in ems 2 2 2 2 2	execute mpleme 3 2 2 3	e polygo nt basio	on filling transf	g,clippi formation CO-PC Po	ng,algo on and o-PSO Os 7	rithms aviewing	and ani functions ing	10	11 2 2	sing operusing of	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3 Average	GL Devel Desig proble 1 2 2 2 2	op and in and in ems 2 2 2 2 2	execute mpleme 3 2 2 3	e polygo nt basio	on filling transf	g,clippi formation CO-PO PO 6	ng,algo on and D-PSO Os 7	rithms aviewing	ing 9 2 2	10	11 2 2	12 1 1 1	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3 Average	In the second of	op and in and in ems 2 2 2 2 2 11L	as a secution of the secution	e polygent basic	on filling transf	g,clippi Formation CO-PC Po 6 Second	ng,algo on and D-PSO Os 7	rithms aviewing Mappi 8 r-VII tcomes ts of M	ing 2 2	10 2 2 Subje	11 2 2 2	12 1 1 1	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3 Average	In the second of	op and in and in ems 2 2 2 2 2 11L	a secutor mpleme a secu	e polygent basic	on filling transf	g,clippi Formation CO-PC Po 6 Second	ng,algo on and D-PSO Os 7	rithms aviewing Mappi 8 r-VII tcomes ts of M	ing 2 2	10 2 2 Subje	11 2 2 2	12 1 1 1	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3 Average	In the second of	op and in and in ems 2 2 2 2 2 2 2 fl. arstand fly opti	as a secution of the secution	e polygont basic	on filling transf	g,clippi formation CO-PO Po 6 So Count basic a given	ng,algo on and D-PSO Os 7 emeste cse Our concept proble	rithms aviewing Mappi 8 r-VII tcomes ts of M	ing 2 2	10 2 2 Subje	11 2 2 2	12 1 1 1	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3 Average Subject: 7	I Devel Desig problem 1 2 2 2 2 2 2 2 Unde Identi Illustri	op and in and in ems 2 2 2 2 2 2 2 and in and in ems	a secutor mpleme a secu	e polygont basic	on filling transf	g,clippii formatic CO-PO Po 6 Count basic a given gorithm	on and on an and on and on an and on and on an analysis of an analysis	rithms aviewing Mappi 8 r-VII tcomes ats of Mem	ing 2 2	10 2 2 Subje	11 2 2 2	12 1 1 1	enGL pengl f	PSOs 2 1 2	3 1 1 2
CO-2 CO-3 COs CO1 CO2 CO3 Average Subject: 7	Inde Identi Illustr	op and in and in ems 2 2 2 2 2 2 III. arstand afy optimate AI by ML t	a secuted and M	e polygont basic	on filling transforms transforms transforms transforms transforms and transforms all yards re-	g,clippii formation CO-PO Po 6 So Cour I basic a given gorithn	on and on an and on an and on and on an analysis of	rithms aviewing Mappi 8 r-VII tcomes ats of Mem	ing 2 2	10 2 2 Subje	11 2 2 2	12 1 1 1	enGL pengl f	PSOs 2 1 2	3 1 1 2

Subject:	Big Data Analytics	Subject Code:18CS72	
	Course O	utcomes	
CO1	Understand the fundamentals of Big Data A	nalytics	

POs

COs

CO₁

CO₂

CO₃

CO₄

CO₅

Average

PSOs

CO2	T 2000			-Come	nework /		-				2422506000				
CO3					NoSQL										
CO4	Demo	onstrate	e the m	nap rec	duce pro	gramr	ning n	nodel to	o proce	ss bigd	ata alo	ng with	1 Hade	op too	ls
CO5					gorithms lytics wi						yze wel	b conte	nt and	social	
					C	CO-PC)-PSO	Марр	oing						
COs						P	POs							PSOs	,
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3											3		
CO2	3	2		3	2							1	3	2	
CO3	3	2	2	3	3							1	3		2
CO4	3	2	2	3	3			1				1	3		2
CO5	3	3	2	3	3	1						1	3		2
Average	3	2.4	2	3	2.75	1						1	2	2	$\frac{2}{2}$
C C		Andrew Services		1000	77.702	220		1							
Subject: U	Jser In	iterface	: Desig	<u>s</u> n						Subje	ect Co	de: 18C	S734		
						100000000000000000000000000000000000000	SERVICE SERVICES	itcome	OSCIOLA CONTRACTOR OF THE PROPERTY OF THE PROP						
CO1					nce and										
CO2					erface d								tion		
CO3					ation, for										
CO4					eristics,					device	based	control	S		
CO5	Desig	gn test i	plan ar	ad prot	totype o										
	V=				C		-	Марр	ing						
COs						P	Os							PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											2		
CO2	2		-			1		1					2		
CO3	2				1			2					2		
CO4		2			1				-	-			_	2	
CO5	3	2			1								2	_	
Average	2.5	2			-	1		2		-			2	2	
1110.00			L		JI		1		1			L			
Subject: I	DIP									Subj	ect Cor	de:18C	S741		
	237/1					Cou	rse Ot	itcome	S						
CO1						375 375 36va-v									
CO2		-													
CO3	1							-							
CO4						-		-							
CO5															
CO6															
COU		-	-			O PC) DSO	Manr	-:	et aller de la company			- Villa		
		-						Mapp	ang					DCOs	
COs	1			1	1 - 1		Os	T 0	T 0	1.0	11	12	-	PSOs	
CO1	1	2	3	4	5	6	7	8	9	10	11	12	_ 1	2	3
CO1			-					-	-						
CO2			-												
CO3		1													
CO4															
CO5						Car Graphic Co.									
CO6															
1 2			-		1		1								

Average

Subject:	Crypto	graphy	,							Subi	ect Co	de:180	\$744		
		- · ·		-		Com	rse On	tcome	S	Subj	cei co	uc.100	<i>.</i> 5/77	-	
CO1	Discu	ss crypt	ograph	y and it	s need	to vario									
CO2						graphy a									
CO3									nagem	ent tecl	hniques	forsec	ura co	mmunic	ation
CO4	Comp	are and	d exami	ine diffe	erent p	rotocols	used i	n Wirel	AL 229	d	iniques		ure co	munic	atio
CO5						per Law			CJJ LAI	•					
CO6					1100	to vario			c	THE STATE OF THE S					
		/ [-	-0p.	7 01110110		CO-PO	100000		0000						110 N
							Os	Mapp	ing					DCO.	
COs	1	2	3	4	5	6	7	8	9	10	11	12		PSOs	-
CO1	3	1				1		0	9	10	11	12	1	2	3
CO2	3	2		-		1			Supplement Charles	-			1		
CO3	2	2				-	-						2	1	72. THE R. P.
CO4	2	2		1		2							2		-
CO5		2		1		2		-					3		232
	2.5			-				3		1		2			2
Average	2.5	1.7		1_1_		1.5		3		1		2	2	1	2
CO2	LL	rstand	the im	plemen	tation	proced	ure for	the ma	achine	learnin	ig and a	AI algo	rithms	3	sets
CO ₃	Ident	rstand ify, app	the important	plemen l evalua	ate MI.	proced algorit	thms to	solve	real w	learnin orld pr	g and a	AI algo	rithms	5	
CO3	Ident	rstand ify, app	the imply and	plemen I evalua	ate MI.	algorit	thms to -PSO	solve	real w	learnin orld pr	g and a	AI algo	rithms		
	Ident	rstand ify, app	the imply and	plemen l evalua	ate MI.	algorit C O-PO	thms to -PSO	solve	real w	orld pr	oblems			PSOs	
CO3	Ident	ify, app	oly and	l evalua	ite MI.	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	learning vorld pr	oblems	Al algo	1		3
COs COs	Ident 1 2	2	oly and	l evalua	ite MI.	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	orld pr	oblems		1 2	PSOs	
CO ₃	Ident	ify, app	oly and	l evalua	ite MI.	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	orld pr	oblems		1 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3	1 2 2 2	2 2	and 3	4 3	5	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	orld pr	oblems	12	1 2	PSOs	
CO3 COs CO1 CO2 CO3	1 2 2 2	2 2	and 3	4 3	5	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	orld pr	oblems	12	1 2 2	PSOs 2	
COs CO1 CO2 CO3 Average	1 2 2 1	2 2 2	3	4 3	5	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	orld pr	11	12	1 2 2 2	PSOs 2	
COs CO1 CO2 CO3 Average	1 2 2 1	2 2 2	3	4 3	5	algorit CO-PO PO	thms to -PSO Os	o solve Mapp i	real w	orld pr	11	12	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average	Ident 1 2 2 1	2 2 2 Phase	3 2	4 3	5 2	CO-PO PO 6	thms to PPSO Os 7	solve Mappi 8	real wing	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
COs CO1 CO2 CO3 Average Subject: I	Ident 1 2 2 1	2 2 2 Phase	3 2 -1	4 3 2 societal	5 2	Courme prob	rse Ou	solve Mappi 8 tcomes	real wing 9 stify inn	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I	Ident 1 2 2 1 Project Gain k	2 2 2 Phase	3 2 -1 entified	4 3 2 societal	5 2 real tirems sta	Cour me prob	rse Outlems a in diffe	solve Mappi 8 tcomes nd iden	9 stify innomains	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I CO1 CO2 CO3	Ident 1 2 2 1 Project Gain k Under	2 2 2 2 Phase chowled take idese the p	3 2 -1 -lge on sentified	4 3 2 societal	ste MI. 5 2 real tirems stanent th	Courme prob	rse Outlems a in diffe	solve Mappi 8 tcomes nd iden	9 stify innomains	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I	Ident 1 2 2 1 Project Gain k Under Analys	2 2 2 2 Phase chake idese the pulation of	3 2 -1 -lge on sentified problem of design	4 3 2 societal diproblem statem	real tirems stanent thocess	Courme prob	rse Ou olems a in differ	solve Mappi 8 tcomes nd iden erent do e surve	9 stify innomains	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I CO1 CO2 CO3	Ident 1 2 2 1 Project Gain k Under Analys	2 2 2 2 Phase chake idese the pulation of	3 2 -1 -lge on sentified problem of design	4 3 2 societal diproblem statem	real tirems stanent thocess	Cour me prob tement rough lir	rse Ou elems a in differentur	solve Mappi 8 tcomes nd iden erent do e surve	y stify innomains	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I	Ident 1 2 2 1 Project Gain k Under Analys	2 2 2 2 Phase chake idese the pulation of	3 2 -1 -lge on sentified problem of design	4 3 2 societal diproblem statem	real tirems stanent thocess	Courme probtement rough limited work / ICO-PO	rse Ou slems a in different urundindividu	solve Mappi 8 tcomes nd iden erent do e surve	y stify innomains	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I	Ident 1 2 2 1 Project Gain k Under Analyst Formu Know	2 2 2 2 Phase cnowled take idese the pulation of the control of th	3 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	4 3 2 societal d proble n statem gning Pr nality o	real tirems stanent theorets f team	Courme probtement rough liver work / CO-PO	rse Ou ollems a in different condition of the condition o	tcomes nd iden erent do e surve uals Mappi	y ing g tify inn mains y	Subjection	11 ect Coo	12 2 de:18C	1 2 2 2 2 SP77	PSOs 2 2 PSOs	3
CO3 COs CO1 CO2 CO3 Average Subject: I CO1 CO2 CO3 CO4 CO5	Ident 1 2 2 1 Project Gain k Under Analyst Formu Know	2 2 2 2 Phase chake idese the pulation of	3 2 -1 -lge on sentified problem of design	4 3 2 societal diproblem statem	real tirems stanent thocess	Courme probtement rough limited work / ICO-PO	rse Ou slems a in different urundindividu	solve Mappi 8 tcomes nd iden erent do e surve	y stify innomains	orld pr	11 ect Coo	12 2 de:18C	1 2 2 2 2 SP77	PSOs 2	
CO3 COs CO1 CO2 CO3 Average Subject: I CO1 CO2 CO3 CO4 CO5 COs COs	Ident 1 2 2 1 Project Gain k Under Analyst Formu Know	Phase cnowled take ide se the pulation of the congression of the cong	3 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	4 3 2 societal d proble n statem gning Pr nality o	real tirems stanent theorets f team	Courme probtement rough liver work / CO-PO	rse Ou ollems a in different condition of the condition o	tcomes nd iden erent do e surve uals Mappi	y ing g tify inn mains y	Subjection	11 ect Coo	12 2 de:18C	1 2 2 2 2 SP77	PSOs 2 2 PSOs	3
CO3 COs CO1 CO2 CO3 Average Subject: I CO1 CO2 CO3 CO4 CO5	Ident 1 2 2 1 Project Gain k Under Analyst Formu Know	2 2 2 2 Phase cnowled take idese the pulation of the control of th	3 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	4 3 2 societal d proble n statem gning Pr nality o	real tirems stanent theorets f team	Courme probtement rough liver work / CO-PO	rse Ou ollems a in different condition of the condition o	tcomes nd iden erent do e surve uals Mappi	y ing g tify inn mains y	Subjection	11 ect Coo	12 2 de:18C	1 2 2 2 2 SP77	PSOs 2 2 PSOs	

2

2

1.75

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2

2

3

3

CO3

CO4

CO₅

Average

3

2.5

2

1

1

Subject:	IOT									Subje	ect Co	de:180	CS81		
						Cour	se Ou	tcomes	S						
CO1	Interp	ret the	impact	and Ch	allenge	es pose	Tol yd b	netwo	rks lead	ling to r	new Ard	hitectu	ıral mod	dels	
CO2		are and													
CO3	Appra	ise the i	role of	loT pro	tocols f	or effic	ient ne	twork c	ommur	nication			TO THE STATE OF TH		
CO4	Elabor	ate the	need o	of Data	Analyti	cs and i	ts secu	rity in lo	оТ						
CO5	Illustra Indust	ate diffe ry	erent se	ensor te	chnolo	gies for	sensin	g real v	vorl ent	ities an	d ident	ify the a	applicat	ions of	lot in
					(CO-PO	-PSO	Mappi	ing						
								11	0						
COs	The second second						Os		- O					PSOs	***************************************
COs	1	2	3	4	5			8	9	10	11	12	1	PSOs 2	3
COs CO1	1 3	2	3	4	5	Pe				10	11	12			3
1. 110		2	3	4	5	Pe				10	11	12	1		3
CO1	3		3	4	5	Pe				10	11	12	1 1		3
CO1	3 2	2	3	4	5	Pe				10	11	12	1 1 2		3
CO1 CO2 CO3	3 2	2 2	3	4	5	P(10	11	12	1 1 2 1		3

Subject: 3	Storage	Area	Netwo	rk						Subje	ect Co	de:180	CS822		
						Cour	se Ou	tcomes	S						
CO1	Identi	fy key o	halleng	es in m	anagin	g inforr	nation	along w	ith RAI	D imple	mentat	ions.			
CO2	Descri	be diffe	erent st	orage r	etworl	king tec	hnologi	ies and	virtuali	zation.		-			
CO3	Illustra	ate bac	kup, ar	chive ar	nd repli	cation.	Explain	compo	nents a	and the	implen	nentatio	ons of N	AS.	
CO4		mining onents.		nt cloud	l compi	uting de	ployme	ent mod	dels, se	rvice m	odels a	nd infra	structur	e	
CO5	Illustra	ate the	storage	e infrast	tructure	e and m	anager	nent ac	tivities.	v	-24/min in 27-		THE SPORTS		
-					(CO-PO	-PSO	Mappi	ing						
CO-						P	Os							PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											2		
CO2	1	2	2									1			
CO3	2												2		2
CO4	2		2		1	1							1	1	2
CO5	1	2										2			2
Average	1.8	2	2		1	1						1.5	1.66	1	2

Semester-VIII

Subject:	No SQL	Subject Code:18CS823
	Course Outcomes	
CO ₁	Define, compare and use the four types of NoSQL da	tabases
CO2	Demonstrate and understanding of the detailed archite and performance of column oriented NoSQL database	
CO3	Illustrate the map reduce programming model and unvalue stored features, consistency, multi operation tran	
CO4	Explain the detailed architecture define objects, load document oriented NoSQL databases	data, query data and performance tune of

CO ₅	Analy NoS(yze the QL data	detail abases	ed arch	iitectur	e load	data,qı	uery d	ata and	perfori	mance t	une o	f graph	databa	ise in
				- Control of	(CO-PC)-PSO	Mapı	oing						
COs						-	Os		0				T	PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2			3							ī	3		2
CO2	2	2	3		3							1	3		2
CO3	2	2	3		3							1	3		2
CO4	2	2	3		3		-					1	3	†	2
CO5	2	2	3		3							1	+ 3	-	2
Average	2.2	2	3		3							1	3		2
Subject: F	Project	Phase	-2							Subj	ect Cod	le:180	CSP83		
CO1	Design			1	Carrier Volley		rse Ou								
CO2	Comp	engine	erings	solution	to con	nplex pr	roblem	s utilizi	ng a sys	tem ap	proach i	using n	nodern	tools	
CO ₂		ment th		vative d					iety performa	ance an	alysis us	sing en	gineeri	ng proje	ect
CO4			the we	ark don	a and k	~ avulad	~o gain	ad in a	omplete	الموريد الج		5-15/4/15/5/4/1. Beg			
CO5									omplete and / or						
	Deme		u work	pi cacii		CO-PO		-		Publica	RIONS	-			
							Os	Mah	ung				T	DCOg	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	PSOs 2	3
CO1		_	3		3	2		- 0		10	11	2	3	3	2
CO2								2	3	3		2		2	2
CO3		3		3						J	3	2	3	3	2
CO4		o A To	=		-		2		2	2	3	2	3	2	2
CO5								2	2	3	2	2			2
Average		3	3	3	3	2	2	2	2.33	2.66	2.66	2	3	3 -	
Subject: T	rechnic								2.33		ect Cod	19405		2.5	2
						Cour	se Ou	teome	C	Duoj.		10.100			
CO1	Identi	fv and /	Analyze	inform	ation a				ologies	with re	spect to	currer	nt trend	lc.	
CO2									ge techn						
CO3									effective						-
									ng and IT					ıd inven	tion
CO4									detaile						
		n vario				со-Ро									
CO4		in vario				134	Os					-		PSOs	
CO4 CO5		in vario				P	0.5							,	1000
CO4		in vario	3	4	5	6 6	7	8	9	10	11	12	1	2	3
CO4 CO5	Explai			4	5			8	9	10	11	12	2	2	3
CO4 CO5	Explai	2		4	5			8	9	10	11	12	-	2	3
CO4 CO5 COs	Explai	2 2		4	5			8	9	3	11	12	2	2	3
CO4 CO5 COs CO1 CO2	Explai	2 2 2		4				8			11	12	2 1 2	2	3
CO4 CO5 COs CO1 CO2 CO3	1 2 2 2 2	2 2 2 2		4	5			8			11	12	2	2	3

ubject: Internship		Subject Code: 18CS185			
	Course Outcomes	•			
CO1	Identify and apply the problem using engineering knowle	edge			

CO2	Design and implement new concepts in multidisciplinary area.														
CO3	Explore career alternatives prior to graduation in different domains														
CO4	Demonstrate professional and ethical practice														
CO5	Gain more experience in accomplishing a long-term project, and managing the progress continuously.														
)-PSO								
COs	POs										PSOs				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											2	1	
CO ₂			3						2	2				1	2
CO3		1	1						2			2			3
CO4			2					2						2	
CO5											2	2			2
Average	3	1.5	2					2	2	2	2	2	2	1.33	2.33

Head of the Department

apt. of Computer Science and Englishing

18 INSTITUTE OF TECHNOLOGY

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Bengaluru-560 060.