

# 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 2019-23

### Semester-I/II

							- ALL COLC	A A/AA							
Subject:	Progr	ammin	g in C	& Dat	ta Stru	ictures	}			Subi	ect Co	ıde.			
			V- C			Cou	rse Ou	tcome	S	<u>J</u>					
CO-1	Achie	eve knov	wledge,	with re	espect t					lam col	ving ck	ille		-	
CO-2	Unde	erstandi	ng and a	analyzir	ng basid	princir	oles of	nrogran	nmina	in Clan	ville 2K	1115.			
CO-3	Desig	gn and d	evelopr	ment of	fvariou	s progr	ammin	g skills	iiiiiiig	in Chang	guage				
CO-4	Effec	tive utili	ization o	of mem	orv usi	ng poin	ter tec	hniaues			-	12			
CO-5	Unde	erstand t	he basi	c conce	epts of	pointer	and da	ta struc	tures		-				
								Mapp			-		_		
COs					-	57.51	Os		_ 0					PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	T 3
CO <sub>1</sub>	3		1									1	1		
CO <sub>2</sub>	1	2								-		-	-		
CO3	1		2			-	295	-		-		-	2		-
CO4	1	2				-							1	1	-
CO5	3	1								-			-	-	-
Average	1.8	1.66	1.5									1	-		
inverage	1.0	1.00	1.3									1	1.66	1	

Subject:	Comp	uter P	rogram	ming	Labor	atory				Subj	ect Co	de:	-		
	4					Cou	rse Ou	tcome	S				() - () - () - () - () - () - () - () -		
CO-1	Gaini	ng knov	wledge o	on vario	ous par	ts of co	mputer								
CO-2			roblems						iting al	gorithm	ıs			-	
CO-3	Desig	n and c	developr	nent of	f C prob	olem so	lving sk	ills		80.161111					
						-	)-PSO		ing	-		- Hanne			
COs						P	Os			-				PSOs	·
003	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO <sub>1</sub>	3									1			2		2
CO <sub>2</sub>	1	2	1				Pile					-	1		1
CO3		2	2						1	1		2		2	
Average	2	2	1.5						1	1	10.000	. 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 ser communication.	ies to analyze circuits and systems
CO2	Explain the general linear system theory for continous - ti using the Fourier transform and z-transform.	me signals and digital signal processing
CO <sub>3</sub>	Employ appropriate numerical methods to solve algebraic	and transcedental equations.
	Apply Green's theorem. Divergence theorem and Stokes	theorem in various applications in the

	munic	tions. cation
F	PSOs	
1	2	3
332 ng and	d expre	ession
ıd und	lerstan	d file
	<b>PSOs</b>	
1	PSOs 2	3
		3
1		3
1		3
n	1 332 ng and	1 2

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		
Average	3	2	1.5	2							2		3		
Subject: /	nalog	and D	Digital I	Electro	nics				10 20 III - 10 22 -	Subj	ect Co	de: 180	CS33		

**Course Outcomes** 

				Electro	nic App	lication	Circuit	s using	Transist	tor, Tin	ner IC, P	ower S	upply a	ind
Simpli	fication	of logi	cal exp	ression	of digit	al circu	its usin	g Karna	ugh ma	p and (	Quine IV	lc Clusk	y meth	ods.
11135					and de	sign the	e differe	ent data	proces	sing cir	cuits lik	e mult	iplexers	5,
Under	stand v	/arious	gates a	nd flipf	lops wit	th addit	ional in	iputs ar	nd to wr	ite VHI	DL code	for san	ne.	
		ent data	a proce:	ssing ci	rcuits, r	egister	s and co	ounters	using a	ppropr	iate flip	flops a	ind com	npare
				(	CO-PO	-PSO	Mappi	ing						
					Pe	Os							<b>PSOs</b>	
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
	2	2										2		
2	2											2		
	2	3										2		
2	2												3	
		2	2										2	
	regular Simplif Analyz decode Under Design the type 1	regulator IC a Simplification Analyze the c decoders, tri: Understand v Design differe the types.  1 2 2 2 2 2	regulator IC and Opa Simplification of logi Analyze the combina decoders, tri state b Understand various Design different data the types.  1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	regulator IC and Opamp IC. Simplification of logical expl Analyze the combinational of decoders, tri state buffers, I Understand various gates at Design different data procest the types.  1 2 3 4 2 2 2 2 2 2 2 2 2 3 2 2	regulator IC and Opamp IC.  Simplification of logical expression Analyze the combinational circuits decoders, tri state buffers, PLD'S. Understand various gates and flipf Design different data processing ci the types.   1 2 3 4 5 2 2 2 2 2 2 2 2 3 2 2 3 2 2 3	regulator IC and Opamp IC.  Simplification of logical expression of digit Analyze the combinational circuits and de decoders, tri state buffers, PLD'S.  Understand various gates and flipflops wir Design different data processing circuits, is the types.  CO-PO  Po  1 2 3 4 5 6 2 3 2 2 2 3 2 2 3 3 4 5 6	regulator IC and Opamp IC.  Simplification of logical expression of digital circular Analyze the combinational circuits and design the decoders, tri state buffers, PLD'S.  Understand various gates and flipflops with addit Design different data processing circuits, register the types.  CO-PO-PSO POs  1 2 3 4 5 6 7 2 2 2 2 2 2 2 2 3 2 2 3 2 2 3	regulator IC and Opamp IC.  Simplification of logical expression of digital circuits usin. Analyze the combinational circuits and design the difference decoders, tri state buffers, PLD'S.  Understand various gates and flipflops with additional in Design different data processing circuits, registers and content types.  CO-PO-PSO Mappin POs  1 2 3 4 5 6 7 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	regulator IC and Opamp IC.  Simplification of logical expression of digital circuits using Karna Analyze the combinational circuits and design the different data decoders, tri state buffers, PLD'S.  Understand various gates and flipflops with additional inputs and Design different data processing circuits, registers and counters the types.  CO-PO-PSO Mapping POs  1 2 3 4 5 6 7 8 9 2 2 2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	regulator IC and Opamp IC.  Simplification of logical expression of digital circuits using Karnaugh mathematical process decoders, tri state buffers, PLD'S.  Understand various gates and flipflops with additional inputs and to with the types.  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10  2 2 2 9 9 10  2 2 2 9 9 9 10  2 2 2 9 9 9 10	regulator IC and Opamp IC.  Simplification of logical expression of digital circuits using Karnaugh map and Ganalyze the combinational circuits and design the different data processing circuits, tri state buffers, PLD'S.  Understand various gates and flipflops with additional inputs and to write VHID Design different data processing circuits, registers and counters using appropriate types.  CO-PO-PSO Mapping  POS  1 2 3 4 5 6 7 8 9 10 11  2 2 2	regulator IC and Opamp IC.  Simplification of logical expression of digital circuits using Karnaugh map and Quine IV.  Analyze the combinational circuits and design the different data processing circuits like decoders, tri state buffers, PLD'S.  Understand various gates and flipflops with additional inputs and to write VHDL code Design different data processing circuits, registers and counters using appropriate flip the types.  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10 11 12  2 2 2	regulator IC and Opamp IC.  Simplification of logical expression of digital circuits using Karnaugh map and Quine Mc Clush Analyze the combinational circuits and design the different data processing circuits like multidecoders, tri state buffers, PLD'S.  Understand various gates and flipflops with additional inputs and to write VHDL code for san Design different data processing circuits, registers and counters using appropriate flip flops at the types.  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10 11 12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Simplification of logical expression of digital circuits using Karnaugh map and Quine Mc Clusky meth Analyze the combinational circuits and design the different data processing circuits like multiplexers decoders, tri state buffers, PLD'S.  Understand various gates and flipflops with additional inputs and to write VHDL code for same.  Design different data processing circuits, registers and counters using appropriate flip flops and come the types.  CO-PO-PSO Mapping  POS PSOS 1 2 3 4 5 6 7 8 9 10 11 12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Average	2	2	2.33	2									2	2.5	
Curlo: a a4	C														
Subject:	Compu	ter Or	ganızat	.10n	en aprilan					Subj	ect Co	de:180	CS34		
CO-1	Explai	n the b	asic org	ganizati	on of a		rse Ou ter sys			re the k	nowled	ge of m	achine	instruc	tions
Constant Constant	and m	iemory	operat	ions.											
CO-2	Illustr	ate the	import	ance of	fInterr	upts, bu	ıs arbit	ration	and bus	interfa	ce in ac	cessing	the I/C	) device	es.
CO-3 CO-4	Explai	n and d	compare	e differ	ent me	mory su	ubsyste	m and	memor	y mapp	ing tech	nniques	•		
CO-4 CO-5	Illustr	ze and	evaluat	e the si	mple a	rithmet	ic and	logical	units.						-
CO 3	mustr	ate the	Haluwi	red cor	itroi an	CO-PC	progr	ammed	contro	l, Basics	of Pipe	elining.			
							0s	Mapl	nug	er Mineral Land			I	naa	
COs	1	2	3	4	5	6	7	0	9	10	11	10		PSOs	
CO1	3		J		J	- 0		8	9	10	11	12	1	2	3
CO2	2	1			_				<del> </del>		-		2		-
CO3	2	2	1					-		-			1		
CO4	3	3	1			-		-		-		-	1		
CO5	2	2	1						-	-			2		
Average	2.4	2	1			0		-							
riciase	2.1								1				1.5		
Subject: 5	Softwar	e Engi	neering	r						Subi	ect Co	<b>de:</b> 180	<b>'</b> \$35		
				,		Сош	se Ou	tcome	· · · · · ·	Loudy	cer co	uc. 10C			
CO 4	Under	rstand	softwa	re eng	ineerii					cess, n	nodels	ethica	l and	profes	sions
CO-1	issues						,		p. o		iodeio,	currea	i ana	profes	310116
CO-2	Analy	ze var	ious sy	stem n	nodels	in desi	gns im	pleme	ented				-		
CO-3										ing met	hods.				
CO-4	Create	e quali	ty proje	ect plan	n for so	oftware	devel	opmei	ıt.						
CO-5	Apply	adva opmen	nced s	oftwar	e deve	elopme	nt me	thods	like a	gile pro	ogramı	ning f	or bett	ter sof	twar
		97	practi	-	(	CO-PO	-PSO	Mapr	ning						
CO							Os	11		-				PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2													
CO2		2													
CO3		2											2		
CO4		-	2		2										
CO5					2										
Average															
Subject: 1	Discrete	Mathe	ematica	l Struct	ures					Subj	ect Co	de:180	CS36		
Subject: I							se Ou			- <del></del>					
Subject: I	Verify	the co	rrectnes	ss of an	argum	ent usir	ng prop	osition	al and p	oredicat	e logic	and tru	th table		-
	Verify Demo	the coi	rrectnes the abi	ss of an	argum	ent usir	ng prop	osition	al and p	- <del></del>	e logic	and tru	th table		ext o
CO-1	Verify Demo	the con nstrate te prob	rrectnes the abi	ss of an lity to s	argum solve pr	ent usir oblems	ng prop using	ositior countir	nal and p	oredicat niques a	e logic nd com	and tru	th table		ext o
CO-1 CO-2	Verify Demodiscret Solve   Constr	the connstrate e prob probler auct pro	rrectnes the abi ability. ns invol	ss of an lity to s lying re	argum solve pr currenc ct proof	ent usir oblems ce relati	ng prop using o	osition countir d gene	nal and page techr	oredicat	e logic nd com	and tru binator	th table	ne cont	
CO-1 CO-2 CO-3 CO-4	Verify Demoidiscret Solve i Constr	the constrate te proborobler tuct pro	rrectnes the abi ability. ns invol pofs usin	ss of an lity to s lying re- ng direc duction	argum colve pr currenc ct proof	ent using oblems ce relating f, proof	using one	countir d gene trapos	nal and properties in the prop	oredicat niques a unctions oof by c	e logic nd com	and tru binator	th table	ne cont	
CO-1 CO-2 CO-3	Verify Demoidiscret Solve i Constr	the constrate te proborobler tuct pro	rrectnes the abi ability. ns invol pofs usin	ss of an lity to s lying re- ng direc duction	argum solve pr currenc ct proof n. s and tr	ent using oblights of the control of	using ons an by const	osition countind d gene trapos	nal and progressions and progressions for the second secon	oredicat niques a unctions oof by c	e logic nd com	and tru binator	th table	ne cont	
CO-1 CO-2 CO-3 CO-4	Verify Demoidiscret Solve i Constr	the constrate te proborobler tuct pro	rrectnes the abi ability. ns invol pofs usin	ss of an lity to s lying re- ng direc duction	argum solve pr currenc ct proof n. s and tr	ent using obligations of the relation of the relation of the rees and the rees are	ons an by con	osition countind d gene trapos	nal and progressions and progressions for the second secon	oredicat niques a unctions oof by c	e logic nd com	and tru binator	th table	ne cont	
CO-2 CO-3 CO-4	Verify Demoidiscret Solve i Constr	the constrate te proborobler tuct pro	rrectnes the abi ability. ns invol pofs usin	ss of an lity to s lying re- ng direc duction	argum solve pr currenc ct proof n. s and tr	ent using oblights of the control of	ons an by con	osition countind d gene trapos	nal and progressions and progressions for the second secon	oredicat niques a unctions oof by c	e logic nd com	and tru binator	th table	ne cont	

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: A	Analog C	igital f	Electror	nics Lab						Subje	ect Co	de:18C	SL37		
						Cour	rse Out	tcomes	1		= 1,18,27				
CO-1			rent types of ele				instrum	nent co	nnecti	ons an	d to e	valuate	the	perforn	nanci
CO-2			ng and differen					differ	ent typ	es of e	ectroni	c circui	t and	analyze	thei
CO-3		y the o orobler	overhead	ds in pr	actical	experir	nent sir	mulatio	n resul	ts and d	evelop	a new o	design	to over	com
	those	Jioniei													
	those	Jiobiei			(	СО-РО	-PSO	Mappi	ng						
COa	those	<u>Jiobiei</u>			(		O-PSO I	Mappi	ng					PSOs	
COs	1	2	3	4	5			Mappi 8	ng 9	10	11	12	1	PSOs 2	3
COs	1 3			4 2		PO				10	11	12	1 2	T	
	1	2				PO				10	11	12	1 2 2	T	-
CO1	1 3	2 2		2		PO				10	11	12		T	-

Subject:	Data St	ructure	s Labor	atory						Subje	ect Co	de:18C	SL38		
						Cour	rse Ou	tcomes	3						
CO-1	Able t	o imple	ment li	inear ar	nd nonli	inear da	ata stru	ctures a	and und	derstand	d its app	plication	15		
CO-2	Creat	e and a	nalyze s	earchir	ng and s	orting	algorith	ms in c	lata str	uctures.					
CO-3	Demo	nstrate	data st	tructure	for so	lving re	al world	proble	ems						
					(	CO-PO	-PSO	Mapp	ing						
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											2	
CO3		2	2											2	
Average		2	2											2	

### Semester-IV

Subject:	Engineering Mathematics-IV(capsm)	Subject Code: 18MAT41
	Course Outcom	mes
CO-1	Solve first and second order ordinary differential equipmultistep numerical methods.	ations arising in flow problems using single step and
CO-2	Solve problems of Quantum, mechanics employing B coordinate systems and Legendre's polynomials relat	
CO-3	Understand the analyticity, potential fields, residues theory and electromagnetic theory. Describe conform theory, fluid flow visualisation and image processing.	nal and bilinear tranformation arising in aerofoil
CO-4	Solve problems on probability distributions relating t probability distributions and stochastic matrix connefeasible random events.	
CO-5	Draw the validity of the hypothesis processed for the rejecting the hypothesis. Define transition probability	and the control of th

CO-PO-PSO Mapping  POS  1 2 3 4 5 6 7 8 9 10 11 12 1  CO1 3 2	PSOs 2	
COS         1         2         3         4         5         6         7         8         9         10         11         12         1           CO1         3         2         2         3         3         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         4         3         3         3         3<		
1     2     3     4     5     6     7     8     9     10     11     12     1       CO1     3     2     2     3     3     2     3     3     2     3     3     3     2     3     3     3     3     3     3     3     3     3     3     3 <td< th=""><th>2</th><th>_</th></td<>	2	_
CO1 3 2 CO2 3 2 CO3 3 2 CO4 3 2 CO5 3 2 CO5 3 2 CO5	-	3
CO3 3 2 CO4 3 2 CO5 3 2		
CO4 3 2 CO5 3 2		1977
CO5 3 2		
		-
Average 3 2		-1-0
		-
**		
Subject: Design and Analysis of Algorithm Subject Code: 18CS42		

Subject:	Design	and Ana	alysis o	f Algor	ithm					Subje	ect Co	de:18C	S42		
						Cou	rse Ou	tcome	S	-1					
CO-1		stand th ncies usi					for anal	yzing alg	orithm	and also	express	sing the	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	uation ca	lls for it		
CO-4	100	be Backt								7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
CO-5	Analyz	e differe	nt class	ses of al	gorithm:	s such as	P,NP an	nd NP h	ard		-				
				-s-conoranico	(	CO-PC	-PSO	Марр	ing						
COs						P	Os						Was all the same and	PSOs	R II
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO <sub>1</sub>	3	2											2	10.00	2
CO2	3	3	3										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 Syst	tems							Subje	ect Co	de:180	CS43		
						Cour	se Ou	tcomes	3	1					
CO-1	Demo	nstrate	e need fo	or Oper	rating S	ysten a	nd diffe	erent ty	pes of (	Operatio	ng Syste	em.			
CO-2			le techr		-			-							
CO-3	Use p	rosesso	or , mem	ory ,st	orage a	nd file	system	nds.							
CO-4	Defin	e deadl	ocks situ	uation a	and sol	peratin	g systei	m.							
CO-5	Realiz	e the	different	conce	pts of c	pertain	ig syste	m in pla	atform	of usage	e throu	gh case	studies		
					(	CO-PO	-PSO	Mappi	ing						
COs						P	Os							<b>PSOs</b>	
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												
CO5	2		2												
Average	2	2	1.5							-		ici <del>r</del>	1.66	1.6	1

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

CO-2															
	Apply	the kno	owledge	e of ARI	VI instru	uction s	et for p	rogram	nming A	RM to	develop	differe	ent appl	ication	s.
CO-3	i .		mportai ontrolle		mbedd	ed Syst	ems an	d Inter	facing t	he Hard	lware C	ompon	ents an	d I/O w	vith
CO-4			basic h						ction m	ethod u	ising de	esign at	tributes	to dev	elop
CO F				11800-1-1100-1-110	•	SECULIAR OF SECULIAR	P. Charleson Color	•							
CO-5	Demo	nstrate	the ne	ea or re						lded sys	tem ap	plicatio	ons.		
	Г		_		(			Mappi	ıng						
COs							Os	r	r	7		T		<b>PSOs</b>	
	11	2	3	4	5	6	77	8	9	10	11	12	1	2	3
CO1	3												3		
CO2	2	2												2	
CO3	2		2												2
CO <sub>4</sub>			2												2
CO5	3											1	2		
Average	2.5	2	2									1	2.5	2	2
			L							1			2.0		
Subject: 0	Object (	Oriente	d Conce	epts						Subje	ect Co	de:18C	S45		
						Cour	se Ou	tcomes	3						
CO-1	Under	rstand t	he obje	ct orie	nted co	ncepts	using c	++					- Partient Smoot		
CO-2			-						ıva dev	elopme	nt kit				
CO-3		rstand (								eption		ıg, pack	ages ar	nd inte	rfaces
CO-4			eption l	handlin	g and d	emons	trate m	ultithre	ading i	n java	-				
CO-5			ole GUI												
								Mappi		<u> </u>					
							Os		b					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
		4	3	7	۵	0	I.	0	7	10	11	14	-		1
COL	2		1	D 13											
CO1	3		1		_		0						2	2	
CO2	1		2		3									2	
CO2 CO3		2	2 2		3							1	2	2	
CO2 CO3 CO4	1	2	2 2 2									1	2 1	2 2 2	
CO2 CO3	1	2	2 2		2							1	2	2	
CO2 CO3 CO4	1	2	2 2 2									1	2 1	2 2 2	1
CO2 CO3 CO4 CO5	1 3		2 2 2 3		2								2 1 2	2 2 2 2	
CO2 CO3 CO4 CO5	2.33	2	2 2 2 3 2		2					Subje	ect Co		2 1 2 1.75	2 2 2 2	
CO2 CO3 CO4 CO5 Average	2.33	2	2 2 2 3 2		2	Cour	rse Ou	tcomes		Subje	ect Co	1	2 1 2 1.75	2 2 2 2	
CO2 CO3 CO4 CO5 Average	1 3 2.33 Data Co	2 mmuni e and ill ork	2 2 2 3 2 ication		2 2.5	er netw	ork tec	hnolog	y, data	Subje		1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average	1 3 2.33 Data Co	2 mmuni e and ill ork	2 2 2 3 2 2 ication		2 2.5	er netw	ork tec	hnolog	y, data			1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average Subject: I	2.33  Data Co  Define netwo  Explai	2 ommuni e and ill ork n the d	2 2 2 3 2 ication	types	2 2.5 ompute	er netw transm	ork tec	hnolog	y, data			1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average Subject: 1	2.33 Data Co	2 mmuni e and ill ork n the d n the sv	2 2 3 2 ication ustrate	types o	2 2.5 ompute of data detection	er netw transm on tech	ork tec ission t niques	hnolog	y, data			1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average Subject: I	2.33  Data Co  Define netwo  Explai  Explai	2 e and ill ork n the d n the sy	2 2 3 2 ication ustrate	types og g error layer c	2 2.5 ompute of data detection	er netw transm on tech s, subne	ork tec ission t niques	hnolog	y, data			1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average Subject: I	2.33  Data Co  Define netwo  Explai  Explai	2 e and ill ork n the d n the sy	2 2 3 2 ication ustrate	types og g error layer c	2 2.5 ompute of data detectioncepts andard	er netw transm on tech s, subne	ork tec ission t niques etting	hnolog	y, data ues			1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average Subject: I	2.33  Data Co  Define netwo  Explai  Explai	2 e and ill ork n the d n the sy	2 2 3 2 ication ustrate	types og g error layer c	2 2.5 ompute of data detectioncepts andard	transmon tech s, subne cO-PO	ork tec ission t niques etting	hnology	y, data ues			1 de:180	2 1 2 1.75	2 2 2 2 2	1
CO2 CO3 CO4 CO5 Average Subject: I	2.33  Data Co  Define netwo  Explai  Explai  Explai  Explai	2 e and ill ork n the d n the sy n the d n differ	2 2 3 2 ication ustrate	types og g error layer c	2 2.5 ompute of data detection oncepts andard	transmon tech s, subne ls CO-PO	ork tectission to niques etting	hnology echniqu Mapp	y, data ues	transmi	ssion te	de:18C	2 1 2 1.75	2 2 2 2 2 2 wireles	1
CO2 CO3 CO4 CO5 Average Subject: I CO-1 CO-2 CO-3 CO-4 CO-5	2.33  Data Co  Define netwo Explai Explai Explai	2 e and ill ork n the d n the sy	2 2 3 2 ication lustrate ifferent witching ata link ent net	types of error layer c	2 2.5 ompute of data detectioncepts andard	transmon tech s, subne cO-PO	ission to niques etting O-PSO Os	hnology	y, data ues ing			1 de:180	2 1 2 1.75	2 2 2 2 2 wireles	1
CO2 CO3 CO4 CO5 Average Subject: I  CO-1 CO-2 CO-3 CO-4 CO-5 COs CO1	2.33  Data Co  Define netwo Explai Explai Explai Explai	2 e and ill ork n the d n the so n the d n differ	2 2 3 2 ication lustrate ifferent witching ata link ent net	types of error layer c	2 2.5 ompute of data detection oncepts andard	transmon tech s, subne ls CO-PO	ission to niques etting O-PSO Os	hnology echniqu Mapp	y, data ues ing	transmi	ssion te	de:18C	2 1 2 1.75 CS46 es and v	2 2 2 2 2 2 wireles	1
CO2 CO3 CO4 CO5 Average  Subject: I  CO-1 CO-2 CO-3 CO-4 CO-5  COs CO1 CO2	2.33  Data Co  Define netwo Explai Explai Explai 1 2 2	2 e and ill ork n the d n the s n the d n differ	2 2 3 2 ication lustrate ifferent witching ata link ent net	types of error layer c	2 2.5 ompute of data detection oncepts andard	transmon tech s, subne ls CO-PO	ission to niques etting O-PSO Os	hnology echniqu Mapp	y, data ues ing	transmi	ssion te	de:18C	2 1 2 1.75 2S46 es and v	2 2 2 2 2 2 wireles	3
CO2 CO3 CO4 CO5 Average Subject: I  CO-1 CO-2 CO-3 CO-4 CO-5  COs CO1 CO2 CO3	2.33  Data Co  Define netwo Explai Explai Explai  1 2 2 2	e and illork n the d n the s n the d n differ	2 2 3 2 ication lustrate ifferent witching ata link ent net	types of error layer c	2 2.5 ompute of data detection oncepts andard	transmon tech s, subne ls CO-PO	ission to niques etting O-PSO Os	hnology echniqu Mapp	y, data ues ing	transmi	ssion te	de:18C	2 1 2 1.75 2S46 es and v	2 2 2 2 2 2 wireles	3
CO2 CO3 CO4 CO5 Average  Subject: 1  CO-1 CO-2 CO-3 CO-4 CO-5  CO8 CO1 CO2 CO3 CO4	2.33  Data Co  Define netwo Explai Explai Explai 2 2 2 2	e and illork n the d n the sy n the d n differ	2 2 3 2 ication lustrate ifferent witching ata link ent net	types of error layer c	2 2.5 ompute of data detection oncepts andard	transmon tech s, subne ls CO-PO	ission to niques etting O-PSO Os	hnology echniqu Mapp	y, data ues ing	transmi	ssion te	1 de:18C echniqu	2 1 2 1.75 CS46 es and v	2 2 2 2 2 2 wireles	3 1 1
CO2 CO3 CO4 CO5 Average Subject: I  CO-1 CO-2 CO-3 CO-4 CO-5  CO8 CO1 CO2 CO3	2.33  Data Co  Define netwo Explai Explai Explai  1 2 2 2	e and illork n the d n the s n the d n differ	2 2 3 2 ication lustrate ifferent witching ata link ent net	types of error layer c	2 2.5 ompute of data detection oncepts andard	transmon tech s, subne ls CO-PO	ission to niques etting O-PSO Os	hnology echniqu Mapp	y, data ues ing	transmi	ssion te	de:18C	2 1 2 1.75 2S46 es and v	2 2 2 2 2 2 wireles	3

Subject:	Design a	and An	ialysis (	of Algori	ithm La	ab				Subi	ect Co	de:180	201.47		
		William (					rse Or	itcomes		_ Subj.	CCI CO	uc. 100	TELIC	-	
CO-1	Write	progra	ams in j	ava to so	olve Va				,						
CO-2				rt, Merg											
CO-3	Imple	ment B	Backtrad		gorithm					d Hamilt	tonian (	cycle, gi	reedy a	algorith	m, for
						CO-PC	)-PSO	Mappi	ino						
20			-			-	Os	TATE IN	ing					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2			1			0		10	1.1	12	2	2	2
CO2	2	2			1					-			2	2	2
CO3	2	2			1					+			2	2	2
Average	2	2		-	1					-			2	2	2
				11			L			L				_ 4	
Γ~	encon)		100												
Subject: 1	Microco	ntrolle	er and E	mbedde	ed Syst					Subje	ect Coc	de:18C	SL48		
								tcomes							
CO-1	Develo ARM7	p, con TDMI/	duct an LPC214	nd test A 8 and Ke	LP on a	data tra sion 4 T	ansfers, Tool/Co	Arithm mpiler.	etic, Lo	ogical an	id Brand	ch instru	uctions	using	
CO-2										per moto 4 Tool/ (			n ARM	7TDMI/	
CO-3										rd, LED 8			av mess	sage on	
LU-3	ARM7	TDMI/	LPC214	8 evalu	ation b	oard us	sing Em	bedded	C and	Keil u Vi	ision 4	Tool/ Cr	ompile	r.	
								Mappi							
COs						P	Os							<b>PSOs</b>	
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		
CO3	3	2						-		-		3	2		
Average	2.66	2		1.5								3	2		
				•	The state of the s	<u>\$</u>	Semeste	er-V				1			
Subject: N	Manage	ment	and En	trepren	eurshi	p				Subje	ect Coc	de:18C	S51		
						•	rse Ou	tcomes	š						
CO-1	Define	the m	anagen	nent, or	ganizat					,staffing	g ,ERP.				
CO-2	1000	- DV								g and co		ication			
CO 2	D						Fontron								

	CO-4														
CO-3	Descri	be the	quality	and ch	aracte	ristics of	entre	preneur	s.						
CO-4	Utilize	the re	sources	availab	ole effe	ectively t	hroug	h ERP.							
CO-5							t in en	trepren	eurship	and A	ppraise	the imp	ortan	ce of	
	<b>Y</b>				1	СО-РО	-PSO	Марр	ing						
COs						P	Os							<b>PSOs</b>	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3					1			1		2	1			2
CO2	2							1	3	2	2	1			2
CO3	2					3	2	3	2	2	2	1			3
CO4	2					1	2	1	1	2		1			2
CO5	2					1	2	1	2	2	3	2			2
Average	2.2	1200-120-130-130-130-130-130-130-130-130-130-13				1.5	2.	1.5	1.8	2	2.25	1.5			2.2

•						C	mga A	.400			cer co				
CO-1	Dom	onstrati	on of A	nnlicati	on lave			itcome	S	-					
CO-1			on of Ap					TCD 5							_
CO-2			ansport								1 1,				
CO-3										n Netwo 02.11 sta					_
CO-4			Itimedia							J2.11 St	andara.				
CO-3	Desci	IDE IIIGI	Illineula	Hetwo											
						CO-PO	-	Mapp	ıng				1		
COs		T	T	г,	т	T	Os	1 - 1/2	The San					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	+
210,00	1.0	1.00	1					1		1		1	1.55	1	1
Subject: [							1907/03/1007	itcome:			ect Co				
CO-1										se Mana					
CO-2	relati	onal Da	tabase t	theory.									ıd gain kı		
CO-3										L on con g norma			ional dat iques	tabase	
CO-4	-								-	ontrol re					
CO-5		-	levelop a												
						СО-РО									
							Os		8					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	+								- **		1	-	-	
CO2	-	2	3												-
CO <sub>2</sub>		+	2		3			-	-						-
		1		<u> </u>	_ J			-							-
CO4	3									1					1_
CO5		2	2		3					1					3
Average	3	1.66	2.33		3										3
0.11.4.		-1								T~		7 10			
Subject: A	Automa	ata Theo	ory and	Compu	utability					Subje	ect Co	de:180	JS54		
	1							tcomes							
CO-1				edge of	basic m	nathem	iatical r	nodels	of comp	putation	and de	escribe	how the	ey relat	te to
		al langua					**								-
CO-2			e proble	ems in t	terms o	of Regul	ar expr	ession	and cor	ntext fre	e gram	mar fo	r langua	ige	
22.000	recog														
CO-3	-		strength												
CO-4			omata(A												
CO-5	Solve	a probl	lem with	respe						on					
					(	CO-PO	)-PSO	Mapp	ing						
COa						PO	Os							<b>PSOs</b>	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											1		
CO2		2	2					-					2		-
		1	3												
CO3		$\frac{1}{2}$			-								2		
CO4	1	3	1	1 V									2	1	1

Subject Code:18CS52

Subject: Computer Networks and Security

COF	T			T				· /							
CO5	-	2	2										2		
Average	3	2	2										1.8		
															1
Subject:	Applicat	ion De	evelopn	nent wi	th Pyth	on	-			Subje	ect Co	de:180	2055		-
	•		•				rse Ou	tcomes	<u> </u>	_ Duoj.		uc. ioc	- <b>0</b> 00		
CO-1	Exami	ne Pytl	hon synt	tax and	l seman					of Pytho	on flow	contro	l and fu	actions	
CO-2	Demo	nstrate	e profici	ency in	handlir	ng Strin	gs and	File Sys	tems.	OI T YELL	JII IIOw	Contro	l allu lu	nctions	
			and man							tructure	c like I	icte Die	tionari	as and i	150
CO-3	Regula	r Expr	essions	183343	, ,	11100	11115 65	116 0010	uata J.	Hucture	S IINC L	1513, DIC	Lionain	es and t	ise
CO-4	-		e concep	ots of O	bject-O	riented	Progra	ımming	as user	d in Pytl	non				-
CO-5	Impler Pythor	nent e	exemplar	ry appli	ications	related	to Net	twork P	rogram	iming, V	Veb Sei	vices a	nd Data	bases i	n
(in 1041)	Tythor				(	СО-РО	-PSO	Mappi	ing						
COs						-	Os	- 1	- 6					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3				nges.	765				1.0		14	1		
CO2	2		+	_	1								2		
CO3		2	-		2						-	-	2		
CO4	2	_	2											1	1
CO5		2			2								2	1	1
Average	2.3	2	2		1.6							2 2	2 1.7	1	1
Subject: 1	Jnix Pro	gramn	ning							Subje	ect Co	de:18C	S56		
*						Cour	se Ou	tcomes		1					
CO-1	Expla	in unix	x archit	ecture.	file sy					mands					
CO-2	Illustr	ate she	ell prog	ramm	ing to v	vrite sh	nell scr	ipts				-		-	
CO-3			compare						lls			-			
CO-4	-		plication		ACCURATION AND ADDRESS OF THE PARTY OF	100000000000000000000000000000000000000	TOTAL STREET, SALES AND STREET		100.07						
CO-5							•			-	***				
	<b>L</b>				0	O-PO	-PSO	Mappi	ng						
CO-						PO			0					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2											2		
CO2	2	ALMOS	3									1	2		
CO3	2	2											2		
CO4	3	2	2									-	2		
CO5			2							-		-			
Average	2.75	2	2.5									1	•		
Average	2.13		2.3									1	2		
Subject: 0	Compute	er Netv	works L	ab						Subje	ect Coc	le:18C	SL57		
										A CONTRACTOR OF THE PARTY OF TH					
						Cour	se Out	tcomes	Į.						
CO-1	Analyz	e and (	Compar	e variou	us netw	200000000000000000000000000000000000000				d error	checkir	ng mech	nanisms		

ompu	er Net	works l	.ab						Subje	ect Co	de:18C	SL57		
					Cour	rse Ou	tcome	3						
Analy	ze and	Compa	re vario	us netv	vorking	protoc	ols, sec	urity ar	nd error	checki	ng mech	nanism	s.	-
Demo	nstrate	the wo	orking o	f differ	ent con	cepts o	f comp	uter ne	tworkin	g				
Analy	ze ,imp	lement	and ev	aluate r	networl	king pro	tocols	using N	S2/NS3					
				(	CO-PO	-PSO	Mapp	ing						
					P	Os							<b>PSOs</b>	
1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
	2													
			1				-							
	Analy Demo	Analyze and of Demonstrate Analyze ,imp	Analyze and Compa Demonstrate the wo Analyze ,implement	Analyze and Compare vario Demonstrate the working of Analyze ,implement and ev  1 2 3 4 2 2	Analyze and Compare various networking of different analyze, implement and evaluate of the compare various networking of different analyze implement and evaluate of the compare various networking of different analyze implement and evaluate of the compare various networking of different analyze in the compare various networking n	Analyze and Compare various networking  Demonstrate the working of different con Analyze ,implement and evaluate network  CO-PC  Polymer    1	Analyze and Compare various networking protocome Demonstrate the working of different concepts of Analyze ,implement and evaluate networking protocome CO-PO-PSO POs  1 2 3 4 5 6 7 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Analyze and Compare various networking protocols, second Demonstrate the working of different concepts of companalyze, implement and evaluate networking protocols  CO-PO-PSO Mappi POs  1 2 3 4 5 6 7 8 2 0 8	Course Outcomes  Analyze and Compare various networking protocols, security ar Demonstrate the working of different concepts of computer ne Analyze ,implement and evaluate networking protocols using N CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 2 0 9 9 9	Course Outcomes  Analyze and Compare various networking protocols, security and error Demonstrate the working of different concepts of computer networking Analyze, implement and evaluate networking protocols using NS2/NS3  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Course Outcomes  Analyze and Compare various networking protocols, security and error checking Demonstrate the working of different concepts of computer networking Analyze, implement and evaluate networking protocols using NS2/NS3  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10 11 2 0 0 0 0 11	Course Outcomes  Analyze and Compare various networking protocols, security and error checking mech Demonstrate the working of different concepts of computer networking  Analyze ,implement and evaluate networking protocols using NS2/NS3  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10 11 12 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Course Outcomes  Analyze and Compare various networking protocols, security and error checking mechanism Demonstrate the working of different concepts of computer networking  Analyze ,implement and evaluate networking protocols using NS2/NS3  CO-PO-PSO Mapping  POs  1 2 3 4 5 6 7 8 9 10 11 12 1	Course Outcomes  Analyze and Compare various networking protocols, security and error checking mechanisms.  Demonstrate the working of different concepts of computer networking  Analyze ,implement and evaluate networking protocols using NS2/NS3  CO-PO-PSO Mapping  POS  1 2 3 4 5 6 7 8 9 10 11 12 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Average		2		1									2		
								.1		1	1				
Subject:	DBA La	b with i	mini pro	oiect						Subi	ect Co	de:180	CSL58		
•			•			Сош	rse On	tcome	\$			del l'o	301130		
CO-1	Creat	e.updat	te and q	uery or	n the da		AND SECTION	- COME	-						-
CO-2			the wo		-			of DBMS	<u> </u>		-	-			
CO-3			nalyze a				TAR DEGREE STATE OF			pplicat	ion	-			-
							-	Марр							
60						-	Os		0				1	PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3				2							T-^_	3	1	3
CO2	2				2			-					3	1	2
CO3	1	2	3		3	1			2	1	2	2	2	2	3
Average	2	2	3		2.3	1			2	1	2	2	2.6	1.3	2.6
		L -=						1					2.0	1.5	4.0
						<u>S</u>	emeste	er-VI							
Subject: 9	System	Softwa	re and	Compil	ers					Subi	ect Co	de:180	CS61		
				•		Cour	rse On	tcomes	S	1					
CO-1			nd the o		ts of sy	100000000000000000000000000000000000000	Accession Services			softw	are and	d differ	ent hyp	othetic	cal
CO-2	Fami	liarize	with so	971 2011	le,sym	bol tab	ole crea	ation(pa	ass1),c	bject fi	le crea	tion(pa	ass2),lo	aders a	nd
	Fami linke	liarize rs	with so	ource fi	11 1391										nd
CO-3	Fami linke To u	liarize rs ndersta	with so	ource fi fundan	nental o	concep	ts of tr	anslate	ors and	strateg	ies for	parsin	g techr	iques	ınd
	Familinke To us Devi	liarize rs ndersta ce and the kno	with so	ource fi fundan n synta	nental o	concep	ts of tr	anslate	ors and mes fo	strateg r comp	ies for	parsin better	g techr	iques ization	ind
CO-3 CO-4	Familinke To us Devi	liarize rs ndersta ce and	with so nd the f perforn	ource fi fundan n synta	nental o ix direc thesis p	concep eted tra phase a	ts of tr inslation	ranslate on sche lyze the	mes for correlation	strateg r comp	ies for	parsin better	g techr	iques ization	and
CO-3 CO-4	Familinke To us Devi	liarize rs ndersta ce and the kno	with so nd the f perforn	ource fi fundan n synta	nental o ix direc thesis p	concep eted tra chase a	ts of tr inslation nd ana	anslate	mes for correlation	strateg r comp	ies for	parsin better	g techr	iques ization d code	and
CO-3 CO-4 CO-5	Fami linke To us Devi Apply gener	liarize rs ndersta ce and the know ration.	with so nd the f perforn owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g techr optim tree an	iques ization d code	
CO-3 CO-4 CO-5	Familinke To un Devi Apply gener	liarize rs ndersta ce and the know ration.	with so nd the f perform owledge	ource fi fundan n synta	nental o ix direc thesis p	concep eted tra chase a	ts of tr inslation nd ana	ranslate on sche lyze the	mes for correlation	strateg r comp	ies for	parsin better	g technology tree and	iques ization d code	and 3
CO-3 CO-4 CO-5	Fami linke To us Devi Apply gener	liarize rs ndersta ce and rthe knoration.	with so nd the fiperform owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g techrooptime tree and	iques ization d code	
CO-3 CO-4 CO-5	Familinke To un Devi Apply gener	liarize rs ndersta ce and the know ration.	with so nd the fiperform owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g technology tree and	iques ization d code	
CO-3 CO-4 CO-5 COs CO1 CO2 CO3	Familinke To un Devi Apply gener	liarize rs ndersta ce and rthe knoration.	with so nd the fiperform owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g techrooptime tree and	ization d code  PSOs 2	
CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4	Familinke To un Devi Apply gener	liarize rs ndersta ce and r the known that ion.	with so nd the fiperform owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g techrooptime tree and	ization d code  PSOs 2	3
CO-3 CO-4 CO-5 COs CO1 CO2 CO3	Familinke To un Devi Apply gener	liarize rs ndersta ce and rthe knoration.	with so nd the fiperform owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g techricoptimitree and	PSOs  1 1	3
CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5	Familinke To un Devi Apply gener	liarize rs ndersta ce and r the known that ion.	with so nd the fiperform owledge	fundan n synta e of syn	nental of thesis p	concep eted tra chase a CO-PO	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ies for iler for tween	parsin better syntax	g techricoptimitree and	PSOs  1 1	3
CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To un Devi Apply gener  1 3 3 3 3	liarize rs ndersta ce and the known that the known that it is a second contract of the known that is a second contract of the known tha	with so nd the fiperform owledge 3 2 2 3 2 2 .25	fundam n synta e of syn	nental dix directions of the sis p	concep eted tra chase a CO-PO	ts of trunslation and ana	anslate on sche lyze the	ors and mes for correlating	strateg r comp ation be	ics for iler for tween	parsin r better syntax	g techro optimitree and	PSOs  1 1 2	3
CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To un Devi Apply gener  1 3 3 3 3	liarize rs ndersta ce and the known that the known that it is a second contract of the known that is a second contract of the known tha	with so nd the fiperform owledge 3 2 2 3 2 2 .25	fundam n synta e of syn	nental dix directions of the sis p	concepted trabhase a	ts of tr inslation nd ana o-PSO Os	anslate on sche lyze the	ing 9	strateg r comp ation be	ies for iler for tween	parsin r better syntax	g techro optimitree and	PSOs  1 1 2	3
CO-3 CO-4 CO-5 COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To un Devi Apply gener  1 3 3 3 Compu	liarize rs ndersta ce and rthe knoration.  2 3 2 2 2.75	with so nd the fiperform owledge 3 2 2 3 2 2 .25	fundam n synta e of syn 4	nental of thesis p	COun	ts of tr inslation nd ana D-PSO Os 7	manslated on schellyze the Mapp	ing 9	strateg r comp ation be	ics for iler for tween	parsin r better syntax	g techro optimitree and	PSOs  1 1 2	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To un Devi Apply gener  1 3 3 3 Compu Expla	liarize rs ndersta ce and r the known the know	with so nd the fiperform owledge 3 2 2 3 2 2 3 2 2 2 5 2 2 5 2 2 5 2 2 5 2 5	ource fi fundam n synta e of syn 4	nental of thesis p	Cour	ts of tr inslation o-PSO Os 7	manslated on schellyze the Mapp 8	ing  9  fopen	strateg r comp ation be	ics for iler for tween	parsin r better syntax	g techro optimitree and	PSOs  1 1 2	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average	Familinke To un Devi Apply gener  1 3 3 3 Compu Expla Illustr	liarize rs ndersta ce and the known that contains.  2 3 2 2 2 2.75  ter Grap in the Corate geo	with so nd the fiperform owledge 3 2 2 3 2 2.25 ohics &	Fundamen syntate of syntae of syntate of syntae of syn	thesis p	Cour Graphic	ts of trunslation and ana P-PSO Os 7	manslated on schellyze the Mapp  8  teomesusage of function	ing  9  f open ns on 2	strategr compation be	ies for iler for tween	parsin r better syntax	g techro optimitree and tree a	PSOs  1 1 2	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average  Subject: CO-1 CO-2	Familinke To us Devi Apply genes  1 3 3 3 Compu Expla Illustri Demo	liarize rs ndersta ce and rthe known the known	mith so and the final perform owledge and a second	Fundamen syntage of syntage of Contransform cepts of	thesis p	CO-PO Po Graphic Graphic and vi	ts of trunslation and ana o-PSO Os 7	manslated on schellyze the Mapp  8  teomesusage of function ormation.	ing  9  s f open ns on 2 ns, colo	strateg r comp ation be	ies for iler for tween	parsin r better syntax	g techro optimitree and tree a	PSOs  1 1 2	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average  CO-1 CO-2 CO-3	Familinke To un Devi Apply gener  1 3 3 3 Compu Expla Illustr Demo	liarize rs ndersta ce and r the known the know	with so nd the fiperform owledge 3 2 2 3 2 2 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Visualz s of Contransfo	iation  inputer rmation of clipp tion an	Cour Graphic ing, 3D	ts of trunslation and ana open section of the control of the contr	manslated on schellyze the Mapp  8  teomesusage of function ormation iniques	ing  9  f open ns on 2 ns, cold on 3D o	strategr compation be	ies for iler for tween	parsin r better syntax	g techro optimitree and tree a	PSOs  1 1 2	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average  CO-1 CO-2 CO-3 CO-4	Familinke To un Devi Apply gener  1 3 3 3 Compu Expla Illustr Demo	liarize rs ndersta ce and r the known the know	mith so and the fine perform owledge and a second and a s	Visualz s of Contransfo	thesis process of thesis process of the sis process	CO-PO Po Graphic Graphic and viewi I for inp	o-PSO Os 7  rse Ou cs and the ewing transform technout interpretation.	manslated on sche lyze the lyz	ing  9  f open ns on 2 ns, colo on 3D of to dev	strategr compation be	ies for iler for tween	parsin r better syntax	g techro optimitree and tree a	PSOs  1 1 2	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average  CO-1 CO-2 CO-3 CO-4 CO-5	Familinke To un Devi Apply gener  1 3 3 3 Compu Expla Illustr Demo	liarize rs ndersta ce and r the known the know	with so nd the fiperform owledge 3 2 2 3 2 2 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Visualz s of Contransfo	thesis process of thesis process of the sis process	CO-PO  Cour Graphic and vi ing, 3D d viewi I for inp	rse Ouces and transforms technout inte	manslated on schellyze the Mapp  8  tcomesusage of function ormation iniques	ing  9  f open ns on 2 ns, colo on 3D of to dev	strategr compation be	ies for iler for tween	parsin r better syntax	g techro optimitree and tree a	PSOs  1  1  1  1  1  1  1  1  1  1  1  1  1	3
CO-3 CO-4 CO-5  COs CO1 CO2 CO3 CO4 CO5 Average  CO-1 CO-2 CO-3 CO-4	Familinke To un Devi Apply gener  1 3 3 3 Compu Expla Illustr Demo	liarize rs ndersta ce and r the known the know	with so nd the fiperform owledge 3 2 2 3 2 2 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Visualz s of Contransfo	thesis process of thesis process of the sis process	CO-PO  Cour Graphic and vi ing, 3D d viewi I for inp	o-PSO Os 7  rse Ou cs and the ewing transform technout interpretation.	manslated on sche lyze the lyz	ing  9  f open ns on 2 ns, colo on 3D of to dev	strategr compation be	ies for iler for tween	parsin r better syntax	g techro optimitree and tree a	PSOs  1 1 2	3

2

CO<sub>3</sub>

2

CO1		1	1			1		1	T						
CO1	3	1			2								1		
CO <sub>2</sub>	3	2			2							1	1	1	1
CO3	3	2			2							1	1	1	2
CO4	2	2			2				S175710			2	1	1	2
CO5	3	1			2							2	2.	1	2
Average	2.8	1.6			2							1.5	1.2	1	1.75
Subject: \	Web Te	chnolo	gy and	Applica	ition					Subj	ect Co	de:180	CS63		
						Cou	rse Ou	tcome	S						
CO-1	Under	rstand a	and Ada	apt HTM	/IL and	CSS syn	tax and	seman	tics to	build w	eb page	2			
CO-2	Const	ruct an	d visua	lly form	at table	es and f	orms u	sing HT	ML and	CSS	- 1-0				
CO-3	Devel	op Cliei	nt-Side amicall	Scripts	using Ja	avaScri	pt and S	Server-S	Side Scr	ipts usi	ng PHP	to gene	erate an	d disp	lay the
CO-4	Appra	ise the	princip	les of o	bject o	riented	develo	pment	using P	ΉΡ					
CO-5		ct JavaS								n facilita	tes dev	eloper	to focus	on co	ore
					(	CO-PC	)-PSO	Марр	ing		-			-	
COs					970-2111944		Os							PSOs	3
CO8	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											2	2	
CO2	2	2	2										2	2	
CO3	2	2	2										2	2	
COA	2	2									-	-			-

	featur	es.										100			
					(	CO-PC	-PSO	Mapp	ing				-		-
COs						P	Os				-			<b>PSOs</b>	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2											2	2	
CO <sub>2</sub>	2	2	2										2	2	
CO3	2	2	2										2	2	
CO4	2	2											2		-
CO5	2	2	2							1		2	2	2	2
Average	2.2	2	2									2	2	2	2
			· · · · · · · · · · · · · · · · · · ·						1						-
Subject: 1	Data Mi	ning ar	nd War	ehousir	ıg				2010 COOL - 20 CO	Subje	ect Co	de:18C	S641		
						Cour	rse Ou	tcome	8	-					
CO-1	Under	rstand	the bas	sic con	cepts o	f data i	mining	and da	ata war	chousi	ng				20-12-0
CO-2										chouse					
CO-3				ules fo											
CO-4				fication											
CO-5	1876						_			en prob	lem		-		

						Cou	ise Ou	tcome	3						
CO-1	Unde	rstand	the ba	sic con-	cepts c	f data	mining	and d	ata wai	rehousi	ng				140
CO-2										ehouse					
CO-3	Write	assoc	iation	rules fo	r a giv	en data	a patter	n							
CO-4	Desc	ribe the	classi	ification	n and c	lusteri	ng tech	niques	3		-				
CO-5	Choo	se bety	veen c	lassific	ation a	nd clus	stering	solutio	n a giv	en prob	lem				
							)-PSO								
COs					RESPONDED TO SOME TO S	P	Os							<b>PSOs</b>	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3												2		
CO <sub>2</sub>		2												2	
CO3			3						i					2	-
CO4		2	2			2						1		2	2
CO5	3	2										1			3
Average															
	1		-	-		1			1	-				1	1
0.1.				<u></u>						Τα		1 100	10.642		
Subject:	Cloud C	omputi	ing and	Applica	ations					Subj	ect Co	de:180	5643		

003			2				ı				
CO4		2	2		2				1	2	2
CO5	3	2							1		3
Average											
Subject:	Cloud C	Computi	ng and A	application	S			Subject	t Code:18CS6	643	
						rse Outco	mes	1			
CO-1	Expla	in cloud	comput	ing, virtual	ization ar	nd classify s	services of	cloud comp	outing		
CO-2	Illustr	ate arcl	hitecture	and progr	amming i	n cloud					
CO-3	Analy	ze the i	mportan	ce of Conc	urrent an	d High thro	oughput co	mputing			
CO-4	Illustr	ate the	importa	nce of Data	intensiv	e computir	ng using M	ap Reduce	programming		
CO-5	Descr	ibe the	platform	s for deve	opment o	of cloud ap	plications a	and List the	application of	cloud	
					CO-PC	D-PSO M	apping			H1720 - CID-O-CO.CO.CO.CO.CO.CO.CO.CO.CO.CO.CO.CO.CO.C	
					P	age <b>11</b> of <b>1</b>	8				

COs		2			4	P	Os							<b>PSOs</b>	
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		
CO4		1			1								2	1	
CO5	1	1			1							1	2	1	1
Average	1.5	1.5			1							1	2	1	1

Subject: A	Advance	ed java	and J	2EE						Subje	ect Co	de:18C	S644		
						Cour	rse Ou	tcomes	š						
CO-1	Under	stand a	and App	ly enur	neratio	n and a	utobox	ing con	cepts i	n manag	ging the	data in	objec	ts	
CO-2	unders	stand a	nd App	ly colle	ction co	ncepts	to stor	e, acce	ss, rem	iove, sor	rt the d	ata			
CO-3	Under	stand,	apply a	nd crea	te a sol	ution f	or string	g patter	rn matc	ching, se	arching	g and ex	tractin	ıg	
CO-4			apply ar o app se		te a we	b inter	face µsi	ng JSP	concep	ts and le	earn to	deploy	the we	:b	
CO-5	Under	stand,	apply a	nd crea	ite a sol	ution t	o mana	ge the l	back-er	nd data l	base us	ing JDB	C conc	epts	
					(	CO-PO	)-PSO	Mapp	ing						
COs						Pe	Os							<b>PSOs</b>	
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				1	2
CO5	2		2		2	1							2	2	1
Average	2.25	2	2		2	1	1						2	1.7	1.5

	20. 10														
Subject: 1	Data st	ructure	es and a	pplica	tions					Subj	ect Co	de:18C	S652		
						Cour	rse Ou	tcomes	3						
CO-1	Apply	the kn	owledge	e of fun	damen	tals of (	Clangua	age and	l defini	tion of d	data str	ucture			
CO-2	Analy	ze and	demons	trate tl	he stacl	ks, quei	ies ope	rations	and its	applica	tions				
CO-3	Creat	e data s	storage	using li	nked lis	ts cond	epts an	d demo	onstrat	e its app	olication	าร			
CO-4	Const evalu		es data	structu	ires and	d perfo	rm ope	rations	such as	travers	sals, sea	rching a	and exp	oressio	n
CO-5	1997	raph ba ing bas	ised dat ics	a struc	ture ap	proach	for sto	ring, so	rting, se	earching	g of dat	a and u	ndersta	nd file	The state of the s
					(	CO-PO	-PSO	Mapp	ing						
COs						P	Os							<b>PSOs</b>	
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		

		**				Cou	ırse Ou	ıtcomc	28	1 3					
CO-1	Imple	ment a	ınd den	nonstrat	te lexe	The American Assets									-
CO-2	Imple	ement a	and dem	nonstrat	te top d	down, b	bottom (	up pars	sing and	d genera	ation of	interme	ediate	code.	
CO-3	Imple	ement d	different	nt algorit perating	thms re	equired	for mer	mory m	nanagen	ment, pr	ocessso	hedulin	g,reso	urce	
					(	CO-PC	O-PSO	Mapp	ping						
COs						P	POs							PSOs	į.
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2			2									2	
CO2		2	2										2		
CO3	2	2	2												
Average	2	2	2		2								2	2	
							1	1	1	1			40		
Subject: 0	Compu	ter Gra	phics w	vith min	i proje	ct				Subj	ect Co	<b>de:</b> 18C	`SL67		
V	7.70 N		Property of the second				rse Ou	teome					DEC.		
4	Illustr	ate the	conce	ots of co	omput <i>e</i>					mputer	graphi	cs appli	cation	using o	nen
CO-1	GL	200 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(ASSASSACIONAL	FORESCO SOCIALIS	200 Tel 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 The Control of the		11.0		ρ. ~ <sub>Γ</sub> -	10 CF		U31110	)C1.
CO-2	Devel	op and	execut	e polyg	on fillir	ng,clipp	ing,algo	rithms	and an	imate cu	urves u	sing ope	enGL	-	
										ions on c	La company and the same and the			for real	world
CO-3	proble		150.6					7-22-44-00 cm		Telescon transcen	San			Armonii Stationes	1815
			1 - 1 - 1		1	CO-P(	O-PSO	Mapp	oing						
20						-	Os		, b					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2	2		2			-			-27	1	1		1
CO2	2	2	2		2							1		1	1
CO3	2	2	3		2				2	2	2	1		2	2
Average	2	2	2.3	-	2		-		2	2	2	1	1	1.5	1.3
11101-0								1		L	_ <del>-</del>			1.0	1.0
						S	amosto	X/II							
						20	emeste	r-v11		- Fallings Samuel Control	Determinent				
Subject: A	AI & N	ΛL								Subje	ect Co	<b>de:</b> 18C	S71		
						Cou	rse Ou	tcome	es						
CO1						d basic	concep	pts of N		d its type	es				
CO2	Identi	ify opti	imal te	echnique	es for a	a given	n proble								
CO3				AL learr											71
CO4			-	jues tow			and the same of th	lysis							
CO5	Desig	ın an aı	pplicat	tion usir	-		-								
	T				(		O-PSO	Mapp	ing						
COs						7	Os							PSOs	7
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3									1		2		2
CO2		2			2							2	2		
CO3	2											1			
CO4	2	2				2					2	2		1	
CO5			3	1							1	1	-	2	
				+		-	+		+	+			-	+	1

Subject Code: 18CSL66

Subject: System Software lab

Average

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

CO2	Inves	stigate	Hadoo	n fram	ework A	And H	adoon	dietrih	uted fil	o Svete	·m				
CO3	Illust	rate the	conce	ents of	NoSQI	using	Mone	oDR 2	and Cas	csandra	for Ri	aData			
CO4	Dem	onstrate	e the m	ap red	luce pro	eramı	ning m	odel to	proce	ss high	ata alo	no with	Hado	on too	le
CO5	Use i	nachin	e learn	ing alg	gorithm: ytics wi	s for re	eal wor	rld big	data ar	nd anal	yze we	b conte	nt and	social	13
					(	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	3											3		
CO <sub>2</sub>	3	2		3	2							1	3	2	
CO3	3	2	2	3	3							1	3		2
CO4	3	2	2	3	3							1	3		2
CO5	3	3	2	3	3	1				1		1	3		2
Average	3	2.4	2	3	2.75	1						1	2	2	2
Subject: 1							rse Ou			-		<b>de:</b> 18C	S734		
CO1	Unde	rstand	the sig	niticar	nce and	charac	cteristic	cs of L	ser Inte	erface l	Design				
CO2	Demo	onstrate	e the us	ser into	erface d	esign	process	s and u	ndersta	ind the	busine	ss func	tion		
CO3	Appl	y Syste	m mer	iu crea	tion, fo	rmatti	ng mer	ius and	naviga	ation so	hemes		_		
CO4					ristics,					device	based	control	S		
CO5	Desig	gn test j	plan an	a prot	otype o										
		-					PSO	Mapp	ıng			1	_		
COs			2				Os		Ι	1				<b>PSOs</b>	
CO1	1	2	3	4	5	6	7_	8	9	10	11	12	1	2	3
CO1	3	2											2		
CO2	2			11 = 22 7 - 21		1							2		
CO3	2							2					2		
CO4		2												2	
CO5	3	2											2		
Average	2.5	2				1		2					_ 2	2	
Subject: I	OIP					Cour	rse Ou	tcome	s	Subje	ect Cod	de:18C	S741		
CO1															
CO <sub>2</sub>															
CO3															
CO4															
CO5															
CO6															
				-	C	O-PC	-PSO	Mapp	ing						
COs						P	Os							<b>PSOs</b>	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1															
CO2												12900			
CO3															
CO4															
CO5												(A) 20 B - 12 C			
CO6												a saltati			
Average															
					-					1					-

Subject:	Crypto	graphy						_		Subj	ect Co	de:180	CS744	-	
						Cour	rse Ou	tcome	S						
CO1	Discu	ss crypt	ograph	y and it	ts need	to vario	ous app	lication	IS						
CO <sub>2</sub>	Desig	n and d	evelop	simple	crypto	graphy a	algorith	ıms.							
CO3	Analy	ze diffe	rent di	gital sig	nature	algorith	ım and	key ma	nagem	ent tecl	nniques	for sec	ure coi	mmuni	catio
CO4	Comp	are and	exami	ne diffe	erent p	rotocols	used i	n Wirel	ess LAN	1					
CO5	Unde	rstand o	yber s	ecurity	and cyl	er Law	needs.			-		-			
CO6	Discus	ss crypt	ograph	y and it	s need	to vario	ous app	lication	S						
					(	СО-РО	-PSO	Mapp	ing						
COs						P	Os							PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	1	_			1							1		
CO <sub>2</sub>	3	2				1							2	1	-
CO <sub>3</sub>	2	2				2							2		
CO <sub>4</sub>	2	2		1		2							3		
CO5								3				2			2
Average	2.5	1.7		1		1.5		3				2	2	1	2
				•										1	1
Cubicate	AT P. N.	AT Lak							-	Ta					-
Subject: 2	AI & IV	IL Lab		-						Subje	ect Co	de:18C	SL76		
	12. 1			/1 15	1 .			tcomes	5)/						
CO <sub>1</sub>	to MI	re vari Lalgori	ous py	thon li	braries	susciul	for rea	al time	applic	ations a	and app	oly app	ropriat	te data	sets
CO2				nlaman	totion	mwa aa d	fa.	. +1	1. 1	learnin	. 1	A Y 1	*.1		
CO <sub>2</sub>	Identi	ify apr	dy and	evalu	ate MI	aloorii	thme to	ne ma	rool	orld pr	g and a	AT algo	rithms	3	
COS	identi	iry, app	ny and	Cvarue		CO-PO				oria pr	obienis				
						P(		марр	ing					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2			3		.,		-		10	11	12	2	2	3
CO2	2	2											2		
CO3	1	2	2	2	2							2	2	2	
COS															

Subject:	Project	Phase	-1							Subje	ect Co	de:18C	SP77		
	Were an area and					Cou	rse Ou	tcome	S						
CO1	Gain	knowled	dge on .	societal	real tir	me prol	olems a	nd ider	tify inn	ovation	requir	ed			
CO <sub>2</sub>	Unde	rtake id	entifie	d proble	ems sta	tement	in diffe	rent do	mains						Wednesday.
CO3	Analy	se the p	roblen	n staten	nent th	rough I	iteratur	e surve	У						
CO <sub>4</sub>	Form	ulation (	of desig	gning Pr	ocess										
CO5	Know	ing the	functio	nality o	f team	work /	Individ	uals							
				POSTUBILIS CONTRACTOR	(	CO-PC	)-PSO	Марр	ing						
COs				16.000 × 10.000		P	Os							PSOs	-
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2											2	2		
CO2		2										1			
CO3		3										2	1		
CO4	-		1								2			1	
CO5									3			2			
Average	2	2.5	1						3		2	1.75	1.5	1	

Subject:	UI									Subje	ect Co	de:180	CS81		
						Cour	rse Ou	tcomes	;				Townson		
CO1	Interp	ret the i	impact	and Ch	allenge	es posed	d by IoT	netwo	rks lead	ding to i	new Ard	chitectu	iral mod	dels	
CO2	Comp	are and ork	Contra	st the c	depoloy	/ment c	of smart	object	s and th	he techi	nologie	s to cor	nect th	em to	
CO <sub>3</sub>	Appra	ise the r	role of	oT pro	tocols f	or effic	ient ne	twork c	ommui	nication					
CO4	Elabo	rate the	need c	of Data	Analyti	cs and i	ts secu	rity in lo	Tc		-				
CO5	Illustra Indust	ate diffe try	rent se	nsor te	chnolo	gies for	sensin	g real w	orl ent	tities an	d ident	ify the a	applicat	ions of	lot ir
					(	CO-PO	-PSO	Mappi	ng						
COs						P	Os							PSOs	
CUS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
	I	2													
CO1	3	2											1		
CO1	1	2							-				1 2		
	3												-		
CO2	3 2	2				2							2		
CO2 CO3	3 2	2 2				2							2	1	

						Cour	cse Ou	tcomes	S						
CO1	Identif	fy key c	halleng	ges in m	anagin	ng inform	nation :	along w	ith RAII	D imple	mentat	tions.			
CO2	Descri	be diffe	erent st	orage r	network	king tecl	hnologi	ies and	virtuali	zation.			***************************************		
CO3	Illustra	ate bac	kup, ar	chive ar	nd repli	cation.	Explain	compc	nents a	and the	implen	nentati	ons of N	AS.	
CO4	Chicken Co. of the Chicken	mining onents.		nt cloud	compi	uting de	ployme	ent mod	dels, sei	rvice m	odels ar	nd infra	astructur	re	
CO5	Illustra	ate the	storage	e infrast	tructure	e and m	ıanager	nent ac	tivities.	b					
					(	CO-PO	-PSO	Mappi	ing						
CO						P	Os			10.000				PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2				1							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

Subject Code: 18CS822

Subject: Storage Area Network

### Semester-VIII

Subject:	No SQL	Subject Code:18CS823
	Course Outcome	es
CO1	Define, compare and use the four types of NoSQL of	databases
CO2	Demonstrate and understanding of the detailed arch and performance of column oriented NoSQL databates.	
CO3	Illustrate the map reduce programming model and value stored features, consistency, multi operation tra	
CO4	Explain the detailed architecture define objects, load document oriented NoSQL databases	d data, query data and performance tune of

	NoS(	QL data	abases			0 1000	duru, q	ici y de	ata and	perior	Harree t	une or	graph	uatava.	SC 1	
					- 1	CO-PC		Mapp	oing		27.00			-		
COs		1	· · · · · ·				Os		We distributed the					<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	] 3	
CO1	3	2			3							1	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	
									1							
Subject: I	Project	Phase	-2		-	Com	rse Out	toomo	~	Subje	ect Cod	<b>le:</b> 18C	SP83			
CO1	Design		ooring :	colution	to cor					10.00 00					-	
CO2						npiex pi sor engli			ing a syst	tem ap	proach (	using m	iodern	toois		
	-		_						iety performa	ance an	- bucic III	-ing on	~inceriu			
CO3	princip		IE IIII.	Valive	Calgine	a work.	anu con	iduct b	епопп	ance an	alysis us	sing en	gineerii	ng proje	:CL	
CO4	-		the wo	ork don	e and k	nowled	ae gain	ad in c	omplete	ad work	,					
CO5									and / or							
000	<b>3 3 1 1</b>		u ***	ргезе.		CO-PO	-			Lubiice	1110115				-	
							Os	Mapp	Ing				PSOs			
COs	1	2	3	4	5	6	7	8	9	10	11	12	1			
CO1	1	2	3	-4	3	-	/	0	9	10	11	12	1	2	3	
1000011118400-000			5		3	2						2	3	3	2	
CO2								2	3	3		2		2	2	
CO3		3		3			-				3	2	3	3	2	
CO4					_		2		2	2	3	2		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	2.5	2	
					_	-										
										т = т.:						
Subject:	l'echnic	al Sen	ninar						-	Subje	ect Cod	le:18C	CSS84			
							rse Out		100							
CO1	+								ologies	-		-				
CO2	-	-					-		ge techni					ills.		
CO3								ALTONOMIC TO A STREET	effective							
CO4								-	ng and IT	-	the trade of the decision was	the state of the s		d inven	tior	
CO5	Expla	in vario	us tech	ıniques					g detaile	d repor	t along	with re	sults.			
					(	CO-PO		Mapp	ing				· · · · · ·		-	
COs	1	2	3	4	5	6 PC	Os   7	8	9	10	11	12	1	PSOs 2		
CO1	2	2			-		-			10		1	2	-		
CO2	2	2			-	-			-				1			
CO <sub>2</sub>					-				1	3					-	
and the second	2	2			-				2	3			2			
	2	2			1	-	_				-	-	2		-	
CO4	2	2				1	2						2		-	
CO5			1												6	
	2	2			11	1	2		2	3			1.8			

3	Course Outcomes
CO1	Identify and apply the problem using engineering knowledge
	Page <b>17</b> of <b>18</b>

CO <sub>2</sub>	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.													sly.			
				-			)-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 <sub>2</sub>			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		

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