Rao Bahadur Y Mahabaleswarappa engineering college,Ballari

Department of Computer Science & Engineering

CO-PO

2018-2019

EVEN SEM







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Academic Year 2018-19

IV sem OOC A/B Section - COURSE OUTCOMES & MAPPING

CO N	0						Des	script	tion		+ 1	705	342	
CO202	2.1	Expla	in the	obje	ct-or	iente	d con	cepts	and J	AVA.			*	
CO202	2.2	Devel	op co	mput	er pr	ograi	ns to	solve	real	world	l prob	olems	in Jav	a.
CO202	2.3	Devel with	op sir users	nple	GUI i	nterfa	aces f	or a c	ompu	iter p	rogra	m to	intera	ct
CO202	2.4	-	rstand wings		even	t-base	ed GU	II han	dling	princ	ciples	using	g Appl	ets
CO					Prog	ramn	ie Ou	tcome	a de legis			12	Outo	cific come
Basel II	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
1	3		2	1								1	NEW 1	out of the second
2	2	2	3	2								1		
4	1	3	3	2								1		
5	2		1	1								1		
AVG	2	2.5	2.25	1.5				Sept.		150/H / 1		1		
CO 1	VO.						lus	tifica	tion			d to		
1		high, and 1	The content relevance of C202.1 with the PO1, PO3, PO4 and PO12 is high, Medium, low and low so the mapping strength is given as 3, 21 and 1.										3, 21	
2		PO12	The content relevance of C202.2 with the PO1, PO2, PO3,PO4 and PO12 is Moderate, Medium, high, Medium and low so the mapping strength is given as 2, 2, 3, 2, and 1 The content relevance of C202.3 with the PO1, PO2, PO3,PO4 and PO12 is low, high, Medium and low so the mapping strength is given as 1, 3, 3, 2, and 1											
3		PO12												
4			3, 3, 2, and 1 e content relevance of C202.4 with the PO1, PO3, PO4, and PO12 is edium, low and Medium so the mapping strength is given as 2, 1, 1											







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COURSE OUTCOMES & MAPPING

Staff Name: Nagaveni Biradar/Sarvar Begum

Subject: DAA/17CS43

Sem: IV

CO N	0							escrip	tion					766 - 11
C211.	1		ase ar									vide an	A PERSON AND A STREET	ALCOHOL- PORTER
C211.	2	Able to		lyse th	e effic	iency	of vari	ous al	gorithr	ns like	search	ning, so	orting, (iraph
C211.	3	Able to			opriat	e metl	hods to	o solve	a give	en prob	olem th	rrough	algorit	hm
C211.	4	Able to	o und e	erstan	d prob	lems r	elated	to po	lynom	ial time	e algor	ithms.		
СО					Pro	gramn	ne Out	come	\$					cific
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C211.1	3													
C211.2	3	3		2										7
C211.3	3	3	3	2										
C211.4	3													
AVG	3	3	3	2				1 3 3	17 节、	100	720	SEA.	200 Table	146
CO No			0.00	aphres.	180,709,000		Ju	stificat	tion					
C211.	1						basic	conce	pts of	algorit	hms,Sc	CO1 i	is map	ed to
C211.1 Students are able to learn the basic concepts of algorithms, So CO1 is Engineering knowledge (PO1) Students are able to understand, analyse any given problem by using various design techniques. So CO2 is mapped to PO1, PO2. C211.2 Students are able to conduct investigation of given algorithms in terms their So CO2 is mapped to PO4														
C211.	3		udents Jues S ts are	are a So CO3 able to	ble to is map condu	desigr ped to	PO3	algorith	nms by	using	variou	CO3 in CO	ithmic	desig
C211.4 Students are able to understand the concepts related to algorithms which are solved polynomal time which is mapped to PO1									lved i					

NEC SE







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SUB'- MICROPROCESSORS & MAPPING MCROCONTROLLES COURSE OUTCOMES & MAPPING MCS44

CO No Description														
C212.1		Differ	entiate b	etwee	n micro	process	ors and	micro	controll	ers (L2)			
C2124.	2	Design	n and de	velop	assembl	ly langu	age co	de to so	lve pro	blems(L6,L3)			
C2124.	3	Gain t	he know	ledge	for inte	rfacing	various	device	s to x8	6 famil	y and A	RM pro	cessor(l	L1)
C2124.	4	Demo	nstrate d	lesign	of inter	rupt rou	tines fo	or interf	facing d	levices	(L3,L6)),		
co					Pro	gramı	ne Ou	ıtcom	e				1000	cific come
A Control	1	2	3	4	5	6	77	8	9	10	11	12	S1	S2
C204.1	2	2												
C204.2		2	3											15 17 S
C204.3	3													· 100 · 200
C204.4			3											
AVG											American de la companya de la compan			
CO N	0	120			100		Jus	tifica	tion					
C204.1		studen	Justification Differentiate between microprocessors and microcontrollers (L2), The topics enable students to differentiate between microprocessors where they study the different architect, addressing mode and instructions											
C204.2			Design and develop assembly language code to solve problems (L6,L3). Students are able to write assembly language programs based on the problem statements given.											
C204.3	10 TO	200	he know								and Al	RM pro	cessor(I	.1).
Demonstrate design of interrupt routines for interfacing devices(L3,L6). Students are able to identify, analyse and implement various interfacing techniques by writing suitable interfacing programmes														

(V. Shira Kuman)





Data Communication





COURSE OUTCOMES & MAPPING

CO	No -		1				Desc	ripti	on		17	CSL	+6	11 8
C214.1	, sta	Able to u		-				_	_					ore
C214.2		Able to u									T		compute	er
C214.3	•	Able to a	pply N	Aedium A	Access	s Cont	rol pr	otocol	s for r	eliable	and n	oisy cl	hannels	
C214.4		Expose v	vireless	s and wir	ed L	ANs al	ong w	ith IP	versio	n.	Ma.			
СО				Pro	gran	ıme (Outco	me					The state of the s	cific come
со	1	2	3	Prog	gran 5	ime (Outco	ome 8	9	10	11	12	The state of the s	
co 1	1 3	3	3	Sharing ery	THURST ST				9	10	11	12	Outo	ome
				4	THURST ST				9	10	11	12	Outo S1	ome
1	3	3	2	3	THURST ST				9	10	11	12	Outo S1 2	ome
1 2	3 2	3	2	3	THURST ST				9	10	11	12	Outc \$1 2	ome





CO No	Luctification
CO1	 Students are able to apply the knowledge of Data Communication networks, a network engineering specialization to provide solutions of the evolving business needs and data centres. Hence the CO1 is substantially correlated to PO1: Engineering Knowledge. The mapping strength is demonstrated in the above table as '3'. Students are able to identify, formulate and review the literature of the network technology using the concepts of data computing, operating system and computer networks/interfaces. Hence the CO1 is substantially correlated to PO2: Problem analysis. The mapping strength is demonstrated in the above table as '3'. CO1 is moderately correlated to PO3 & PO4 with a mapping strength 2. Students are able to apply, identify, formulate and review the literature of the storage technology using the concepts of data computing, operating system and computer networks/interfaces. CO1 is moderately correlated to PSO1: Computer Networking. The mapping strength is demonstrated in the above table as '2'.
. CO2	 Students are able to identify, formulate and review the literature of the storage technology using the concepts of data computing, operating system and computer networks/interfaces. Hence the CO2 is substantially correlated to PO2: Problem analysis. The mapping strength is demonstrated in the above table as '2'.
CO3	Students are able to identify, formulate and review the literature of the storage technology using the concepts of data computing, operating system and computer networks/interfaces. Hence the CO3 is substantially correlated to PO2: Problem analysis. The mapping strength is demonstrated in the above table as '3'.
. CO4	 Students are able to apply the knowledge of Data Communication networks, a network engineering specialization to provide solutions of the evolving business needs and data centres. Hence the CO1 is substantially correlated to PO1: Engineering Knowledge. The mapping





strength is demonstrated in the above table as '3'.

- Students are able to identify, formulate and review the literature of the storage technology using the concepts of data computing, operating system and computer networks/interfaces. Hence the CO1 is moderately correlated to PO2: Problem analysis. The mapping strength is demonstrated in the above table as '2'.
- Students are able to design the solutions for business engineering problems and design the processes that provide an effective solution for the end users. Hence the CO4 is **moderately** correlated to PO3 Design/Development of solutions. The mapping strength is demonstrated in the above table as '2'.

Students are able to analyze and interpret variety of storage technologies, backup and recovery technologies and synthesis the information to provide the solution for storage network applications. . Hence the CO4 is **moderately** correlated to PO4 Design/Development of solutions. The mapping strength is demonstrated in the above table as '3'

CO4 is **moderately** correlated to PSO1: Computer Networking. The mapping strength is demonstrated in the above table as '2'.

- RAGHU KUMAR KI -

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2. 电影响应整件

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COURSE OUTCOMES & MAPPING

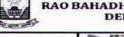
Staff Name: Nagaveni Biradar/Sarvar Begum/Roshan.D

Subject: DAA Lab /17CSL47

Sem: IV

CO No							D	escript	ion					
C217.1		Design greedy,	- C.		- E			gn tecl	nniques	s (brute	-force,	divide a	and con	quer,
C217.2		Implen high le			of algo	orithms	such a	ssortin	g, grap	h relate	ed, com	binator	ial, etc.	, in a
C217.3		Analyz	e and	compar	e the p	erform	ance of	falgori	thms u	ising lai	nguage	feature	s.	
C217.4		Apply real wo		* 5		ed algo	orithm	design	technic	ques an	d data s	tructur	es to so	lve
со					Pro	gramn	ne Outo	ome					100000000000000000000000000000000000000	cific come
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C217.1	3	3	3	2	3									
C217.2	3	3	3	2	3								h-ma	APPEND
C217.3	3	3		2	3									
C217.4	3	3	3	2	3									
Average	3	3	3	2 :	3			(ET)	Table 1	illo AUT				- Es
PO No							Ju	stificat	ion				na kero	
PO1		Studen using e			under	stand t	he bas	ics of a	lgorith	ms, bas	ics of u	sing jav	va Prog	rams
PO2			Students are able to analyse the various algorithms using the concepts of java programming language											
PO3			tudents are able to implement the various algorithms using the concepts of java rogramming language											
PO4		Studen	tudents are able to conduct investigation of given algorithms in terms their efficiencies.											
PO5		Studen	udents are able to use the modern tool like JDK, Eclipse											









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I AP COURSE OUTCOMES & MADDING

			AB	COUI	RSE (DUTCON	1ES &	MAPI	PING				
MIC	CROI	PRO	CES	SOR	AND	MICRO SEMEST		ROLI	LER I	ABO	RATO	DRY	
Subject Code			71		170	CSL48	IA M	1arks	1		40		
Number of Lec	ture H	lours/	Week		A25 700	I + 02 P	Exan	n Marks			60		
Total Number	of Lec	ture H	lours			40	Exan	n Hours			03		
CO No						D	escrip	tion					
C216.1	Lear	n 80x	86 in:	structio	n sets	and gains t	he know	ledge of	f how as	ssembly	/ langua	ige wor	ks.L1
C216.2	Desi	ign an	d imp	lement	progra	ams writter	in 80x8	6 assem	ibly lan	guage.	L5		
C216.3	Kno	w fun	ction	ing of h	nardwa	re devices	and inter	facing t	hem to	x86 far	nily.L1		
C216.4	Cho	ose pi	rocess	ors for	variou	s kinds of	application	ons.L1					
со					N THE RESERVE	gramme						Outo	1
	1	2	3	4	5	6 7	8	9	10	11	12	S1	S2
C216.1	2												
C216.2			3	3	3								
C216.3	3	3	3	3									
C216.4		2	3	3									
AVG	2.5	2. 5	3	13	3								
CO No					164 3		lustifica	ition	a jasii Sa				
1						architectur		scussed	. It also	discus	ses the	instructi	ion set
2	mic	ropro	cessor	s. Basi	c Prog	ementation rams are in the ALP.							ASM
3						devices and ing 8086 a			ircuitry	is discu	issed .P	rograms	S
4	7.5%	ferenc		impler	nentati	ion details	of Variou	is proce	essors ar	nd arch	itecture	s are	



Cryptography, network security & cyber Law



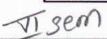
RAO BAHADHUR Y. MAHABALESHWARAPPA ENGINEERING COLLEGE,BALLARI DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING





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Academic Year 2018-19

COURSE OUTCOMES & MAPPING

The students should be able to:

CO	No				HORSEAN IN		De	scrip	tion	١٤	5 CS	61		
1		Unde	erstand	crypto	graphy	and i	ts need	l to var	rious a	pplicat	ions.			
2		Desig	n publ	ic key	cryptog	graphy	and F	RSA alg	gorithn	ns.				
3	,	Apply	y key N	Manage	ment c	ryptog	graphy	algori	thms ir	netwo	ork se	curity.		
4	Y	Anal	yze IE	EE 802	2.11 W	ireless	LAN	securit	y and	need c				
CO					Progr	amm	ie Ou	tcome	•				Side and the second second	cific
	1	2 3 4 5 6 7 8 9 10 11 12									S1	S2		
1	1	2	2	2								2	2	
2	1	2	2	2								2	2	
3	1	2	2	2								2	2	Rest
4	2	2	2	2								2	2	99
AVG	1.25	2	2	2	3.6							2	2	
СО	No			74			lus	tifica	tion	-16				
1			r sec								_		olutio 02,PO3	
2		Publ	tudents are able to learn, Analyse and design the solutions of tublic key cryptographic Techniques, so CO1 is mapped to PO1 PO2,PO3 and PO4.											
3			adents are able to learn, Analyse and design the solutions of Key anagement Techniques, so CO1 is mapped to PO1 ,PO2,PO3 and											
4	9	LAN	udents are able to learn and Analyse the IEEE 802.11 wireless IN Security and IT Act and Cyber laws,so CO1 is mapped to PO1 d PO2.											







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COURSE OUTCOMES & MAPPING

Staff Name: J NageshBabu/Kavitha J

Subject: Computer Graphics/15CS62

Sem: VI

CO No		The st	udent	s sho	uld be	able		scripti	on					
C310.1		Design	and ir	nplen	nent a	lgorit	hms fo	r 2D	graph	ics pri	mitive	es and	attrib	utes
C310.2		Illustra	ite Geo	metri	ic trar	sforn	nation	s on b	oth 2	D and	3D ob	jects.		
C310.3		Apply o			77.50 77.5	1300		le sur	face d	letecti	on in 2	2D and	1 3D	
C310.4		Decide using C			rdwar	e and	softw	are fo	r dev	elopin	g grap	hics p	ackag	es
СО					Prog	ramm	e Outc	ome						cific come
· 李默 。	1	2	3	4	-5	6	7	8	9	10	11	12	S1	52
C310.1	3	2	3	2	2									19
C310.2		3	3	2	2									
C310.3	2	3	2	2	2									100 100 100 100 100 100 100 100 100 100
C310.4	2	2	2	2	2									
Average	2.3	2.5	2.5	2	2		13				116			
PO No							Jus	tificati	on	4				THE
PO1		Student interact C310.1	ion m ,C310.	odels 3, C3	and a 10.4 is	apply mode	the cerately	oncept mapp	ts to ed to	solve PO1(I	engine Engg K	eering Inowle	probledge)	ems,s
PO2		Able to identify, formulate and analyse problems, so, C310.1-C31 moderately mapped to PO2										1-031	J. 4	
РОЗ		visible	ble to design solutions for line drawing 2D and 3D transformations clipping, sible surface detection in 2D and 3D viewing, and Illumination Modelsso 310.1-C310.4 is moderately mapped to PO3											
PO4			ole to conduct investigations of various algorithms so C310.1-C310.4 oderately mapped to P5											
PO5			C316.1-C316.4 are moderately mapped with the weightage 2 with appropriate usage of open source openGL											

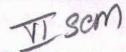






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COURSE OUTCOMES & MAPPING -Cryptography - 15CS61

The students should be able to:

CO	No			4-5		1,305 2,400	De	scrip	tion					v.i
1	L	Und	erstan	d crypt	ograph	y and i	ts need	d to var	rious a	pplicat	tions.			
2	2	Desig	gn pub	lic key	crypto	graphy	and F	RSA al	gorith	ms.				
3	3	Appl	y key	Manag	ement	cryptog	graphy	algori	thms i	n netw	ork se	curity.		
4	ŀ	Anal	lyze IE	EEE 80	2.11 W	ireless	LAN	securit	y and	need c	yber L	aw.		
co					Prog	ramm	e Ou	tcome					Spe	cific
	1	2	3	4	5	6	7	8	9	10	11	12	S1	SZ
1	1	2	2	2		To be seen						2	2	Page 1
2	1	2	2	2			2 9					2	2	
3	1	2	2	2								2	2	
4	2	2	2	2		16						2	2	
VG	1.25	2	2	2	epopul stuni							12	2	
CO	No						Just	ifica	tion	1	1		#	
. 1		cybe PO4.	r sec	urity	algori	ithms	, so (01 is	map	ped t	o PO	1 ,PC	i es	and
2	51	Publi,	ovber security algorithms, so CO1 is mapped to PO1, PO2, PO3 and O4. Tudents are able to learn, Analyse and design the solutions of ublic key cryptographic Techniques, so CO1 is mapped to PO1 O2, PO3 and PO4.											
Students are able to learn, Analyse and design the solutions of Ke management Techniques, so CO1 is mapped to PO1, PO2, PO3 and PO4.											and			
4		Stude	udents are able to learn and Analyse the IEEE 802.11 wireless AN Security and IT Act and Cyber laws, so CO1 is mapped to PO1 and PO2.											







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Academic Year 2018-19

SS & OS LAB (15CSL67)-6 SEM - COURSE OUTCOMES & MAPPING

CO N	0				Descri	ption					
C307.	1	Design and i	mplement _l	progran	ns using L	EX & Y	ACC	tools.			
C307.	2	Design and i		lifferen	t types of (CPU sel	hedulir	ng alg	orithm	s used	in
C307.	3	Implement	Page Repla	cement	Memory N	1 anage	ment a	lgorit	hms.	3	
C307.	4	Implement I algorithm.	Bankers alg	orithm	- a resourc	e alloca	tion &	dead	llock av	voidan	ce
СО			Prog	ramm	e Outcom	e				100000000000000000000000000000000000000	ecific come
	1	2 3	4 5	6	7 8	9	10	11	12	S1	S2
1	1	3	2	2		2			2		2
2	1	3	2	2		2			2		2
3	1	3	2	2		2			2		
4	1	3	2	2		2			2		
AVG	1	3	2	2		2			2		2
CO N	0				Justific	ation				(94) ()]-	
1	0	Students are a & YACC too		G MASS - SCIVING COMMAN	and the second second	Which contracts		and the same			g LEX
Students are able to Evaluate different types of CPU scheduling algorithm Operating system so CO1 is mapped to PO1, PO2, PO5, PO6, PO9 and											
3		Students are algorithms s									gemen
4		Students are a				handli	ng alge	orithn	as CO1	is maj	pped to

COURSE OUTCOMES

-	:Engineering Mathematics III Staff-In charge: Sangameshwar/Ambika G.M. Code:15MAT31 er:III
CO1	Know the use of periodic signals and Fourier series to analyze circuits and system communications.
CO2	Explain the general linear system theory for continuous-time signals and digital signal processing using the Fourier Transform and Z Transform.
CO3	Ability to know various statistical methods, Correlation, Regression analysis and curve fitting and employ numerical methods to solve algebraic and transcendental equations, Interpolation and integration.
CO4	Gain the knowledge of Green's Theorem, Divergence Theorem and Stokes theorem in various applications in the field of electro-magnetic and gravitational fields and fluid flow problems. And determine the extremals of functions and solve the problems of calculus of variations.

CO-PO MAPPING MATRIX

Subje		gineerir e:15M		themat	ics III			Staff-	In char	ge: San	gameshv	war/Aml	oika G.N	1
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2			1.1									
CO2	2	1												
CO3	3	2											PAR	
CO4	2	1		- 4,								Nig.		



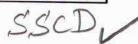






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COURSE OBJECTIVES, COURSE OUTCOMES & MAPPING

Course Objectives:

15CS63

Define System Software such as Assemblers, Loaders, Linkers and Macro processors.

Familiarize with source file, object file and executable file structures and libraries.

Describe the front-end and back-end phases of compiler and their importance to students.

COURSE OUTCOMES:

CO No	Description At the end of the course the student will be able to:
C313.1	To <i>Understand</i> the Fundamental concepts of system software such as assemblers, loaders, linkers and macro processors.
C313.2	To demonstrate the assembly of source file, object file and executable file structures, libraries and also lexical analyzers and parsers.
C313.3	To <i>analyze</i> different approaches in building lexical analyzers and various parsing techniques available for syntax analysis.
C313.4	To <i>interpret</i> various variants of syntax trees and various methods of intermediate code generation for procedures.

СО					Progr	amm	e Out	come					Spe Outo	cific come
di kesal	1	2	3	4	- 5	6	77	8	9	10	11	12	S1	S2
1	3											2	制力	
2	3	3	3									2		
3		3	3									2		
4	3	3	3									2	210 210	
AVG	3/	3	3				-	1				2		

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со	РО	Justification
C604.1	PO1	Students will be able to understand the fundamentals of system software.
	PO1	Students will be able to understand and solve object code calculations.
C604.2	PO2	Students will be able to identify various phases of compiler
	PO3	Students will be able to identify the process flow in lexical analysis
C604.3	PO2	Students will be able to identify and analyse the problem using different parsing techniques.
	PO3	Students will be able to identify and solve the problem using different parsing techniques.
	PO1	Students will be able to understand the concept of code generation.
C604.4	PO2	Students will be able to identify and analyse different coding techniques.
	PO3	Students will be able generate the code.







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COURSE OUTCOMES & MAPPING

FACULTY: APARNA.KS/SARVAR BEGUM SUBJECT:0S/15CS64 SEM:6

CO N	lo				de la co		Des	crip	tion					
C312	.1		monstr ting sy						-					em.
C312	.2		ply suit gorithn			W								9
C312	.3		scribe t npare a		100			- 5	5.0				_	
C312	.4	To Rea	alize the	e differ	ent co	oncept	s of O	S in pl	latfor	m of us	sage th	rough	case st	udies
CO				Pro	ogra	mme	Outo	ome	•			Ties	SE STATE OF THE PARTY OF THE PA	cific
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C312.1	2	2			1				2	2		2		
C312.2	2	2	2		1				2	2		2		
C312.3	1	3	2		1				2	2		2	1	1
C312.4	1	3			1				2	2		2	1	1
AVG	1.25	2.25	2		1	1 0	9032 anno		2	2		2	1	1
PO)'s					STORE AT	Ju	stifi	catio	on	E E JIE			
PO1,PO2,F	203	P	rudents rocess r ie differ	nanage	emen	t, men	ory, s	torage	e etc)	for un	dersta	nding	and ana	alyzing
P05,P09,P	O10,P0	12 al	udents gorithn kinter urecord	ns of c modul	perate) an	ting sy id der	/stem nonst	in the	e forr the sa	n of mame u	nini pr sing o	oject ther I	using p	python ls like

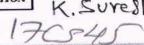






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COURSE OUTCOMES & MAPPING

CO N	lo							cript		UL K	SE		565	
												comp	onen	ts or
CS20	5.1	proce	ess to	mee	t need	ls wit	hin re	alisti	c con	strair	ıts			
CS20	5.2	Stude	ents v	vill a	ble to	asse	ss pr	ofess	ional	and	ethica	al res	ponsi	bility
					n mul									
CS20	5.3	Stude	ents	will	able	to ı	ise tl	ne te	echno	logy,	skill	s an	d mo	dern
	0.0				ols for									
CS20	E 1	Stude	ante 1	will a	hle t	o ana	lvze.	desig	n . iı	mpler	nent	verif	y, val	idate
5340	3.4	apply	and	mair	itain s	oftwa	are sy	stem	s or p	arts	of soft	ware	syste	ms
w/1892			T de	15 35		2 17 1 2		100						cific
со					Prog	ramn	ne Ou	tcome			Palent.		Out	come
	1	2	3	4	5	2	7	2	9	10	11	2	S1	3
1	2			3		Z		3	3	3		-		3
2					1			3	3	3	-			3
3					3						-	2	or Control	3
4		3	3		3	-		2.5	3	3				3
AVG	2	3	3	3	3	2		2.0	3	'				1/
CO	No					u Ve	Jus	tifica	tion	PO4		g July	westlas	tion o
		comn	lov nr	hlem	s) PO6	(engir	eering	and s	ociety') PO8(ethics)	and P	vestiga 2012 (!i	ite ion
1		learn	ing) ar	e very	much	releva	nt to u	nderst	anding	inves,	stigatio	n ,ethi	cs and	lifelon
			President Co.		nance is						1.0	010(-		igation
0	 6	CO2 i	s map	ped to	PO8 (e	thics) o unde	PO9 in	dividu ng ,inv	al and estiga	team tion ,et	work P hics ar	o Tolco	ong lear	ning s
2	i		anance									¥.		
		CO3 i	s mani	ned to	PO5 (n	nodern	tool us	sage) a	ind so	relevai	nance i	s High		
3														8
		CO4	is map	ped to	PO2 (proble	m Anal	ysis)	PO3 (I	Design	/ deve	lopme	nt of so	lution
4	L	CO4 is mapped to PO2 (problem Analysis) PO3 (Design / development of solutions PO5 (Modern Tool usage) so relevanance is High												







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COURSE OUTCOMES & MAPPING

STAFF NAME:- Dr. Veer Gangadhar Swamy / Vinutha Prashanth / Sridevi MaliPatil	SEM:- VI	SEC:- A/B
COURSE NAME:- Python Application Programming	COURSE CO	ODE:- 15CS664

CO 1	Vo		i Servici				De	scrip	tion					
C314	.1			thon sy functio		and se	emant	ics an	d be fl	uent ir	ı the u	se of I	ython	flow
C314	.2	Demo	nstrat	e profi	cienc	y of ha	ındlin	g Strir	igs an	d Files	in Pyt	hon		
C314	.3			and ma		CONTRACTOR OF					re dat	a stru	ctures l	ike
C314	.4	imple	ment e		lary a	pplica	tions						Python ng, We	
СО				P	rogra	amm	e Ou	tcon	ne					cific come
- 0 - 1	. 1	2	3	4	- 5	6	7	8	9	10	11	12	S1	S2
1	3	2			3									

со				P	rogr	amm	e Ou	tcon	1e				Outo	cific
	1	2	3	4	- 5	6	7	8	9	10	11	12	S1	S2
1	3	2			3									
2	3	2			3									
3	3	2			3									
4	3	2	2		3								Ten de	2
AVG	3	2	2		3	A Air								

Justification

- PO1: Students will be able to understand the fundamental concepts of Python Programming language like Python data types, flow control statements, functions, strings, list, tuple, dictionary, regular expressions, files, classes and objects etc.
- PO2: Students will be able to identify, solve the given problem using various concepts of Python programming knowledge.
- PO3: Students will be able to design the software solutions to various problems using object-oriented concepts, Web services, Networking and Database Programming.
- PO5: Students will be able to understand the working of the modern tool (python, Liclipse/Eclipse/PyCharm/Anaconda etc).

Data Mining & Data Walchov Ling.



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Academic Year 2018-19

COURSE OUTCOMES & MAPPING

CO	No						De	escrip	tion		5c	s 65	31	
C31	3.1			arn b P ope			ots of	data	ware			The second secon	delling	, data
C313	3.2	Able data d			nd d	ata mi	ining	tasks,	challe	enges,	Data	minir	ng type	s and
C313	3.3	1		derstar e given			ly ass	ociatio	n algo	orithm	s to g	enerat	e assoc	ciation
C313	3.4	Able t							f clusto	ering a	nd cla	ssifica	tion to	apply
СО						gram	Oute	come						cific
1	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
1	3	2							1	1		2		1
2	3								1	1		2		1
3	3	3	2	2	1				1	1		2	w2.57	1
4	3	3	2	2	1				1	1		2	0.00	1
AVG	3	2.6	2	12	1	774		= 2	1	100		2		1
CO N	Vo.					Sept.	Jus	tifica	tion	7				
		Stude	nts	have	to	app				damei	ntal	knov	vledge	e of
C313	.1	DBMS	(PO1	l), a	nd	analy	rse	wher	e da	ita v	wareł	nousir	ng, C)LAP
C313.	.2	opera	tions	(PO2) are	used.	Stud	lents	must	comn	nunic	ate ar	nd wo	rk in
C313.	.3	a tear	n to	subr	nit a	ssign	ment	whi	ch co	nsists	of o	develo	opmer	nt of
C313.	4	DMW((PO9	,10).	DMV	V sub	ject	is ne	eded	and	has	to be	e upd	ated







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SS & OS LAB (15CSL67)-6 SEM - COURSE OUTCOMES & MAPPING

CO N	0				Description										
C307.	1	Design and i	mplement į	orograms	using LEX & Y	ACC 1	ools.								
C307.	2	Evaluate diff Operating sy	NAME OF TAXABLE PARTY.	of CPU	scheduling algo	rithms	used in								
C307.	3	Implement]	Page Replac	cement M	lemory Manage	ment a	lgorithms.								
C307.	4	Implement E	lankers alg	orithm - a	resource alloc	ation &	deadlock a	voidan	ce						
со			Prog	ramme	Outcome			A THE RESERVE OF THE PARTY OF	ecific come						
-	1	2 3	4 5	6	7 8 9	10	11 12	S1	S2						
1	1	3	2	2	2		2		2						
2	1	3	2	2	2		2		2						
3	1	3	2	2	2		2								
4	1	3	2	2	2		2								
AVG	1	3	2	2	2		2		2						
CO N	0				ustification	A STATE OF		Laure Control							
1		& YACC too	ls so CO1 i	s mapped	, design and imp to PO1 ,PO2,PO	05 , PO	PO9 and P	O12.							
2					erent types of C apped to PO1,P										
3		Students are able to Implement page replacement memory management algorithms so CO1 is mapped to PO1, PO2, PO5, PO6, PO9 and PO12													
4			Students are able to Implement deadlock handling algorithms CO1 is mapped to PO1, PO2, PO5, PO6, PO9 and PO12												







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Academic Year 2018-19



COURSE OUTCOMES & MAPPING

Staff Name: Dr. Anuradha S G/J NageshBabu/Kavitha J/Chidananda

Subject: CG lab/15CSL68 Sem: VI

CO No					14E		De	scripti	ion					
CO NO		The st	udent	s sho	uld b	e able	to:							
C316.	1	Illustr				7			draw	ing,	poly	gon	filling	and
C316.	2	Exper Open		t wit	h 21) and	d 3D	geo	met	ric tr	ansfo	rmat	ions	usin
C316.	3	Design					3.50		usir	ng pr	rincip	les d	of lig	nting
C316.	4	Create					er gr	aphi	cs a	pplica	ation	s for	real v	vorl
CO				**	Prog	ramm	e Outco	ome					N STATE OF THE PARTY OF THE PAR	ecific come
	1	2	3	4	5	6	7	8	9	10	11	12	51	S2
C316.1	2	2	3		2									
C316.2	2	2	3		2									0.000
C316.3	2	2	3		2									
C316.4	2	3	3		2				2	2	2	2	Son New	2
Average	2	2.25	3		2				2	2	2	2		2
PO No			i el alte				Jus	tificat	ion			生生	有推	
PO1		C316.1 through				100				522				
PO2			C316.1-C316.4aremoderately mapped with the weightage 2.25&are formulated and analysed for solving computer graphics problems.											
РОЗ	7	C316.1 design				1								ed in
PO5		Andrewson - An	esign and development of computer graphics solutions using openGL. 316.1-C316.4 are moderately mapped with the weightage 2 with appropriate sage of open source openGL.											







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Academic Year 2018-19

PO9	C316.4 are moderately mapped with the weightage 2 and are addressed by individual and group work in mini project
PO10	C316.4 are moderately mapped with the weightage 2 and are addressed by individual in report writing, presentation and viva of mini project
PO11	C316.4 are moderately mapped with the weightage 2 and are demonstrated through understanding of CG concepts & implementing in openGL with skill set to work as a member in team and also represent as a leader.
PO12	C316.4 are moderately mapped with the weightage 2 and addressing the real world problem meeting the changing needs of society
PSO2	C316.4 are moderately mapped with the weightage 2 by understanding the SDLC and demonstrating through mini project.









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15CS81

Academic Year 2018-19 INTERNET OF THINGS

SEM - VIII AGB.

COURSE OUTCOMES & MAPPING

CO No	Description													
C212.1	Interpret the impact and challenges posed by IoT networks leading to new architectural models.													
C2124.2	Con	Compare and contrast the deployment of smart objects and the technologies to connect them to network.												
C2124.3	App	praise	the	role of	IoT pro	tocols	for ef	ficient	netwo	k com	nunica	tion.		
C2124.4	sen		chno			0.50							rate diff tions o	
СО					Prog	gramı	me O	utcom	ie					cific come
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C204.1	3													
C204.2		3												
C204.3		3												
C204.4		3												
AVG	3	3	1 To				l design	12.1			Piverali			
CO No	ing Majoriti				Section 19		Just	tificat	ion			100		100
C204.1					npact of ts and co		lication	s, archite		in real w	orld. Ill	ustrate d	liverse m	ethods
C204.2	Con	pare d	liffere	nt Applio	cation pr	otocols	for IoT	•						
C204.3	Con	Compare different Application protocols for IoT.Infer the role of Data Analytics and Security in IoT.												
C204.4		Identify sensor technologies for sensing real world entities and understand the role of IoT in various domains of Industry.												

(V. Shing kuman)

(Bergi Vecrasha gowda)







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COURSE OUTCOMES & MAPPING

СО	No				Descri	otion		150	258	2.			
CO	1	Able to Ill	Able to Illustrate the concept of HDFS and MapReduce framework.										
CO	2		Able to Examine Hadoop related tools for Big Data Analytics and operate basic Hadoop Administration										
CO	3	Able to Assess the role of Business Intelligence, Data warehousing and Visualization in decision making											
co	4	Able to In data analy	fer the impor	rtance of o	core data	mining	and te	xt mii	ning te	chniqu	ies for		
co	1000		Pro	gramme	Outcom	е				Control of the Contro	cific		
	1	2	3 4	5 6	7 8	9	10	11	12	S1	S2		
1	2	2	2			·			2	2			
2	3	3	3						2				
3	2	2	2						2				
4	2	2	2						2	2	3 Br		
AVG	2.25	2.25	2.25				None Control		2	2			
CO I	Vo	才 那小学。			ustifica		TABLE						
1		for lifelon	re able to ap g learning e framework	and Illus	trate the	conce	ept &	work	ing of	HDFS			
2		need for l tools for B	re able to a ifelong learn ig Data Analy PO1,PO2,PO	ing , und tics and o	erstand, operate b	interpr	et and	d solv	e Had	loop re	elated		
3		Students are able to apply the knowledge, identify, analyse, recognise the need for lifelong learning, compare the role of Business Intelligence, Data warehousing and Visualization in decision making so CO3 is mapped to PO1, PO2, PO4 and PO12											
4		Students are able to apply the knowledge, identify, analyse, recognise the need for lifelong learning, to demonstrate the importance of core data mining and text mining techniques for data analytics so CO4 is mapped to PO1,PO2,PO4 and PO12											







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Academic Year 2018-19

Staff Name: PAMPAPATH B M	Sem: VIII	Sec: B
Course Name: Network Management	Course Code:	15CS833

			CO	URSE	OU	TCO	MES a	& MA	PPI	NG	notes of the same		67.	
CO N	0		#1				Des	cript	tion		1			1.00
C4011.	.1	Analyz networ				alleng	es per	taining	g to m	anage	ment o	of eme	rging	
C411.2	2	Apply	networl	k mana	ageme	ent sta	ndards	s to ma	anage	practi	cal ne	tworks	i	
C411.	3	Infer S of the r			aging	the n	etworl	and 1	RMO	N for 1	nonito	oring tl	ne beha	vior
C411.4	4	Unders		d anal	yze B	roadb	and A	ccess	Netwo	orks, E	Broadb	and A	ccess	
C411.:	5	Identif			comp	onents	of ne	twork	and fo	ormula	ate the	schen	ne for	
CO				Pı	rogra	ımm	e Out	come	e					cific come
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C4011.1	2	3								1		2	2	
C411.2	2	2								1		2	2	
01110	-													

CO	500.000									Daniel Care			Outo	come
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C4011.1	2	3								1		2	2	
C411.2	2	2								1		2	2	- Barbara - Barb
C411.3	2	2								1		2	2	
C411.4	2	3								1		2	2	
C411.5	2	2								1		2	2	
AVG	2	2.4								1		2	2	
CO N	0			H AN			Just	ificat	tion					
1		The co	m, M											





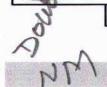
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Academic Year 2018-19

2	The content relevance of C411.2 with the PO1, PO2 and PO10 is high, high and Medium so the mapping strength is given as 2, 2, and 2.
3	The content relevance of C411.3 with the PO1, PO2, PO10 and PO11 is low, Medium, Medium and Medium so the mapping strength is given as 3, 3, 2, 2 and 2.
4	The content relevance of C411.4 with the PO2, PO3, PO4, PO5 and PO12 is Medium, Medium, high, high and Low so the mapping strength is given as 2,2,3,3 and 1.
5	The content relevance of C411.5 with the PO2, PO10, PO11is Medium, Medium, high, high and Low so the mapping strength is given as 2,2,3,3 and 1.







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Academic Year 2018-19



COURSE OUTCOMES & MAPPING

CO N	0		1.5			Descrip	tion	118	5CS	63	3 NI
C4011.	1	Assessment of the second	the isk		challeng	es pertainin	g to manag	ement o	f eme	rging	
C411.2	2	Apply	network	manage	ment sta	ndards to m	anage prac	tical net	works	17.00	
C411.3	3	G0000000000000000000000000000000000000	NMP fo		ing the n	etwork and	RMON for	monito	ring th	ne beha	vior
C411.4	1	Unders		d analyze	e Broadb	and Access	Networks,	Broadb	and A	ccess	
C411.5	5		y the va		nponents	of network	and formu	ilate the	schen	ne for	
CO				Prog	gramm	e Outcom	e				cific come
	1	2	3	4	5 6	7 8	9 10	11	12	S1	S2
C4011.1	2	2					1		2	2	
C411.2	2	2					1		2	2	
C411.3	2	2					1		2	2	
C411.4	2	2					1		2	2	- A
C411.5	2	2					1		2	2	
AVG	2	2					1		2	2	
CO N	0					Justifica	tion		318 1		
1		The property of the same of the				C411.1 v rength is g	vith the l				SO1is
2						C411.2 v rength is g					SO1is







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Academic Year 2018-19

3	The content relevance of C411.3 with the PO1, PO2 and PSO1is Medium so the mapping strength is given as 2 and PO10 as 1.
4	The content relevance of C411.4 with the PO1, PO2 and PSO1is Medium so the mapping strength is given as 2 and PO10 as 1.
5	The content relevance of C411.5 with the PO1, PO2 and PSO1is Medium so the mapping strength is given as 2 and PO10 as 1.

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Academic Year 2018-19

15CS744

COURSE OUTCOMES & MAPPING

CO No	Description	
C404.1	Able to Understand the role of systems programming and to stuprinciples of Unix / POSIX system calls.	dy the basic
C404.2	Able to grasp the basic principles of Unix file system.	
C404.3	Able to know the concepts of UNIX processes and signals.	
C404.4	Able to understand the implementation knowledge of IPC.	
со	Programme Outcome	Specific Outcome

co	Programme Outcome													cific come
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
C404.1	2	2										2	2	2
C404.2	2	2										2	2	2
C404.3	2	2	2									1	2	2
C404.4	2	2	2									1	2	2
AVG	2	2.25	2.25	2	3								2	_ 2
CO No)		Tie		147		lusti	ficat	tion	1874 1774			THE RES	
1		The co	nts wou ontent SO2are	relev	ance	of C	404.	l wit	h the	PO1	, PO	2, PC	12, P	
2		Students would be able to know about file system. The content relevance of C404.2 with the PO1, PO2,PO12, PSO1 and PSO2aremediumso the mapping strength is given as 2.									ntent and			
3	The content relevance of C404.3 with the PO1, PO2, PO3, PSO1 are PSO2aremedium, so the mapping strength is given as 2 and PO12 at 1.													
4	The content relevance of C404.4 with the PO1, PO2, PO3 and P and PSO2aremedium so its value is assigned as 2 and PO12 as 1.								SO1					



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CO PO REPORT

2018 - 2019

ODD SEM

Subject	: Engineering Mathematics-III
Subject	Code:17MAT31
ACAD	EMIC YEAR : 2018-19
COUR	SE OUTCOME STATEMENT
CO1	Know the use of periodic singnals and Fourier series to analyze circuits and system communication.
COZ	Explain the general linear system theory for continuous time singnals and digital signal processing using the Fourier Transform and Z-transform.
CO3	Ability to know various statistical methods, Correlation, Regression analysis and curve fitting and employ numerical methods to solve algebraic and transcedental equations, interpolation and
CO4	Gain the knowledge of Green's theorem. Diseasement theorem and Stoke's theorem in various applications in the field of electromagnetic and gravitational fields and fluid flow problems and determine

							CO-PO/PS	O Mapping							
	POI	PO2	PO3	P04	PO5	PO6	PO7	POS	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	3	3													
CO2	2	2													
CO3	2	2									-				
CO4	2	2			- 7			3		7				8	

coordinator Head

Subject	: Engineering Mathematics-IV
Subject	Code:17MAT41
ACAD	EMIC YEAR : 2018-19
COUR	SE OUTCOME STATEMENT
CO1	Use appropriate single step and multi-step numerical methods to solve first and second order ordinary differential equations arising in flow data design problems.
COZ	Explain the idea of analyticity, potential fields residues and poles of complex potentials in field theory and electromagnetic theory.
CO3	Employ Bessel's functions and Legendre's polynomials for tacking problems arising in continuum mechanics, hydrodynamics and heat conduction.
CO4	Describe random variables and probability distributions using rigorous statistical methods to analyze problems associated with optimization and sampling distributions. Apply the knowledge of joint

							CO-PO/PS	O Mapping							
	PO1	POZ	P03	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12	P5O1	PSO2	#REF!
CO1	3	3													
CO2	2	2													
CO3	2	2						j.			12				
C04	2	2													







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Academic Year 2017-18

17CS32

COURSE OUTCOMES & MAPPING

CO No	Description At the end of the course, students will be able to
C202.1	Explain the operation of JFETs and MOSFETs, Operational Amplifier circuits and their application.
C202.2	Explain and demonstrate Combinational Logic, Simplification Techniques using Karnaugh Maps, Quine McClusky technique.
C202.3	Demonstrate Operation of Decoders, Encoders, Multiplexers, Adders and Subtractors, working of Latches, Flip-Flops.
C202.4	Design of Counters, Registers and A/D & D/A converters

СО	Programme Outcome													Specific Outcome		
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2		
1	3															
2	3	3	3		1											
3	3	3	3		1											
4	3	3	3		1											
AVG	3	3	3	A Road	1						(10)					

Justification

- PO1: Students will be able to understand the fundamental concepts of Analog and Digital Electronics.
- PO2: Students will be able to identify, formulate the problem using various concepts of POS, SOP and Quine Mclucksy.
- PO3: Students will be able to design solutions to various problems using Design concepts of ADE
- PO5: Students will be able to understand the working of the modern tool to write VHDL codes and various electronic simulators.







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Academic Year 2018-19

17CS33

DS COURSE OUTCOMES & MAPPING

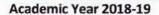
CO	No						De	escrip	otion							
C20	3.1	Able	to cla	ssify d	ata str	ucture	es and	descri	ibe str	ucture	s, arra	ays and	l string	strings.		
C20	3.2	Able to Analyze and illustrate the Linear data structures.														
C20:	Able to Analyze and illustrate the Non Linear data structures.															
C203	3.4	Able	to de tures.	esign	and d	levelop	pro	grams	on I	inear	and	Nonlii	near I)ata		
co					Prog	ramn	ie Ou	tcom	e				Specific Outcome			
	1	2	13	4	5	6	-7	8	9	10	11	12	S1	S2		
1	3												1	1		
2	3	3											2	2		
3	3	3		2									2	2		
4	3		3	2									3	3		
VG	3	3	3	2		701		0.10	F 6				2	2		
10 N	lo					100	lust	ifica	tion		are to					
1		The clow as	onten nd lov	t relev v so th	ance ne ma	of C2 pping	03.1	with t	he PC	01, PS as 3,	O1 a	nd PSo	O2 is	high,		
2		high, 3, 2,2	high I	Mediu	ım an	d Med	dium	so the	e map	ping	streng	SO1 argth is g	given	as 3,		
3		The c PSO2 given	is hi	gh, hi	gh M	lediun	203.3 n and	with Med	the H	PO1, I so the	PO2, map	PO4, pping	PSO1 streng	and th is		
4		The c	ontent is hi	relev gh, hi	ance	of Ca	203.4 n and	with Med	the F	O1, I so the	PO3,	PO4, ping s	PSO1 strengt	and th is		







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COURSE OUTCOMES & MAPPING — (13 CL3H)

CO 1	No						D	escript	ion						
C204	4.1	Able	to ex	plair	ı the	basio	orga	aniza	tion	of a c	ompu	ıter s	ysten	tem.	
C204	4.2	Able to demonstrate functioning of different sub systems such as processor, input/output and memory.													
C204.3		Able to illustrate hardwired control and microprogrammed control pipelining, embedded and other computing systems .													
C20 4	1.4	Able	to bu	ıild s	impl	e arit	hme	tic an	d log	jical u	ınits.				
со		Programme Outcome													
	1	2	3	4	5	6	7	8	9	10	11	12	S1	ome S2	
1	2													2	
2	2	3		3										2	
3	2			3	2									2	
4	2	2	2							2				2	
AVG CO N	2 No	2.5	0.5	1.5	0.5		Iu	stificat	ion	0.5		166 P		2	
C204	l.1	CO1- F		vers Er	ngineer	ring Kn	owled	ge abo	ut com	puter	organiz	zation a	and con	npute	
C204	l.2	CO2-PO1,2,4, use research-based knowledge and research methods including design of experiments, analysis and interpretation of information.													
C204.3		CO3-Po			s Prot	olem s	olving	desig	n and	devel	opmen	t of a	lgorithr	ns b <u>y</u>	
C204.4 C04-P01,23,10- ,students are able to work in team and develop communi										nmunio	cation s	kills			