

S J B Institute of Technology

SJB17 BGS Health & Education City, Dr. Vishnuvardhan Road. Kengeri, Bengaluru-560060

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

Accredited by NAAC, New Delhi with 'A' Grade. Recognized by UGC, New Delhi with 2(f) and 12(B). Certified by ISO 9001-2015

Department of Mathematics

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject:	Calcul	us and	Differe	ential I	Equation	ons	·-·	,		Subj	ect Co	de: 21	MAT	11	
	· · · · ·					Cours	e Out	comes		1					
CO1	Appl appli	y the	knowl	edge ermini	of cal	culus bentne	to sol	ve pro	oblems	relate	ed to	polar	curve	es and	d its
CO2			otion o									multiv	ariate	func	tions
CO3		first-	order 1									tically/	usin	g star	ndard
CO4			e vario ferenti			rough l	nigher	order o	lifferer	ntial eq	uation	s and s	olve	such l	inear
CO5	Test meth		isistend	y of a	syster	n of lir	near eq	uation	s and t	o solve	them	by dire	ect ar	nd iter	ative
				No.	C	0-P0-	PSO N	Aappir	ıg						
COs					ar ar ar	P	Os					× 10.0×		PSO	S
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2													
CO2	3	2		Artin Artin											
CO3	3	2	,				· · · · · · · · · · · · · · · · · · ·						<u> </u>		
CO4	3	2													
COS	3	2									T	<u> </u>	 	-	
CO5)	4						ł		1			ì	1	1

Subject	t: Advanced Calculus and Numerical Methods	Subject Code:21MAT21
-	Course Outcomes	}
CO1	Apply the concept of change of order of integration a integrals and their usage in computing the area and v	<u> </u>
CO2	Illustrate the applications of multivariate calculus to vectors and also exhibit the inter dependence of line,	
CO3	Formulate physical problems to partial differential ed practical PDE's.	quations and to obtain solution for standard
CO4	Apply the knowledge of numerical methods in mode phenomena.	ling of various physical and engineering
CO5	Solve first order ordinary differential equations arisin	ng in engineering problems.

					(CO-PC	-PSO	Mapp	ing	_ ,				المحاورة والمساور والمساور	
·	<u></u>						Os						2 83 - 8	PSO ₈	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2						ļ							
CO2	3	2					ļ							ļ	-
CO3	3	2									ļ				
CO4	3	2									ļ	ļ		1	-
CO5	3	2										<u> </u>	 -	<u> </u>	<u> </u>
Average	3	2									<u> </u>	<u> </u>	<u>}</u>	1	

HOD

Dr. Padmaja Venugopal, Ph.D

Professor and Head Department of Mathematics
S.J.B. Institute of Technology
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Uttarahalli Road, Kengeri, Bangalors-60.

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Department of Physics

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject:	Engin	eering	g Phys	sics	- * - *					Subj	ect C	ode:2	1PHY	12/22	2
						Cours							· · · · ·		
COI	Sho	ck wa	ves in	vario	us fie				2002	12-10			he rol	e of	
CO2	Den	nonstr	ate the	e quar	ntisati	on of	energ	y for r	nicros	scopic	syste	<u>m</u>		- ···	
CO3	App	ly LA	SER	and O	ptical	fibers	s in op	oto ele	ectroni	ic syst	em.				
CO4	Illus	trate	merits	of qu	antun	n free	electr	on the	eory a	nd app	olicati	ons of	Hall	effect	·
CO5	Ana	alyse 1	the im zation	porta	nce of	`XRD	and l	Electro	on Mi	crosco	py in	Nano	mate	rial ——–	
					CC)-PO-	PSO	Mapp	oing						
		AAA				P	Os	5000						PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2													ļ
CO2	2	2								78000			·		ļ
CO3	2	2													ļ
CO4	2	2								ļ					ļ
CO5	2	2						<u> </u>						-	
				•	•										

S	ubjec	et: E	ngine	ering	Physi	cs Lal	orato	ry		Subj	ect C	ode: 2	1PH	YL16	²⁶
<u> </u>					. (Cours	e Out		s						
CO1	Und	erstar	nd the	meas	uring	techni	ques								
CO2	Ope	rate d	iffere	nt inst	rumei	nts and	d be c	apable	e to ar	nalyse	the ex	perim	ental	result	is.
CO3	Con	struct	the ci	rcuits	and t	heir a	nalysi	S.							
					CO)-PO-	PSO 1	Mapu	ing						
							Os							PSOs	i
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3			3			····								
CO2	3			3						-		-			├─
CO3	3			3						ļ					}
Average	3			3				<u></u>	<u> </u>	<u></u>	<u> </u>			<u> </u>	<u> </u>

HOD

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Department of Physics
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Kengeri, Bangalore-350 060



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Department of Chemistry

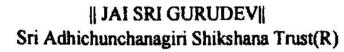
Course Outcomes and CO-PO-PSO Articulation Matrix

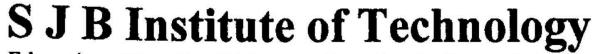
Semester-I/II

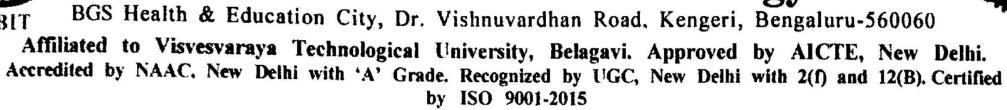
Subject:	Engine	ering (Chemis	try						Subj	ect Co	de:210	CHE12/	22	
					· · · · · · · · · · · · · · · · · · ·		the management of the same and	tcome						~==-	
CO1	Impa	rt the b ge devi	oasic k	nowled	ige of	chemis	stry and	d its pr	inciple	s invol	ved in	electro	ochemis	stry, en	ergy
CO2	Unde		the b	asic p	rincip				nd its	preve	ntion,	metal	finishi	ng and	its
CO3		er the ners &				thesis,	prope	rties a	nd util	ization	of er	ngineer	ing ma	aterials	like
CO4		y the k								r produ	iction	of che	mical	compo	unds.
CO5	Unde		the ba	sic cor	ncepts	of wate	er cher	nistry		ry, bas	ic prin	ciple a	and app	olicatio	ns of
			•			CO-PC			ing						
COs								POs							
COS	1	2	3	4	5	6	7	8	9	10	11	12			
CO1	3	1			1	1									
CO2	3	2				1						1			
CO3	3			3		1									
CO4	3					2	1					1			
CO5	3					2									
Average	3	1.5			1	1.4	1				(P. Prist) Alexandra de	1	3. 1		

Subject	:Engin	eering	Chemi	stry La	borato	ry				Subje	ect Co	de:21C	HEL	16/26	· · · · · · · · · · · · · · · · · · ·
					-	Cou	rse Ou	tcomes	5	·	•				·
CO1	using	small	quanti	ties of	materi	als invo	olved f	nalysis or quic	k and a	ccurate	e result	ts.			· · · · · · · · · · · · · · · · · · ·
CO2	Carry	ing ou	t differ	rent typ	oes of t	itration	is for e	stimati	on of c	oncern od resu	ed in n	naterial	s usi	ng	
						CO-PC)-PSO	Марр	ing						
COs				÷				POs						· · · · · · · · · · · · · · · · · · 	
COS	1	2	3	4	5	6	7	8	9	10	11	12			
CO1	3	1			*										
CO2	3	1					1	 				<u> </u>			
Average	3	1					4			 	 	 			

Head of the Department Department of Chemistry SJB Institute of Techonology **BGS Health & Education City** Kengeri, Bangalore - 560 0601







Department of Information Science and Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

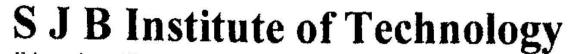
Subject: 1	Proble	m So	lving	Throug	gh Pro	gram	ming			Sub	ject (ode:	21PSI	P13/23	3
					C	Course	e Out	come	5			-			
CO1	Ach	ieve K	nowl	edge o	n con	puter	s and	basic	conce	epts of	netw	orks.			
CO2				princi									ming.		7.688e - 80
CO3				elopme										.=.	
CO4				rays a											
COF			7-20/	sic con					_ 7	~		l Prep	roces	sor	
CO5		ctives			•			,	,			•			
					CO	-PO-I	PSO I	Mapp	ing		1000 - 25				
COs			*		itar s	PO)s							PSOs	
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2	2										2		
CO2	3	3	2	3									2		
CO3	2	3	3	2	2								2		
CO4	2	3	3	2									2		
CO5	3	2	2	2									2		
Average	2.6	2.6	2.6	2.25	2								2		

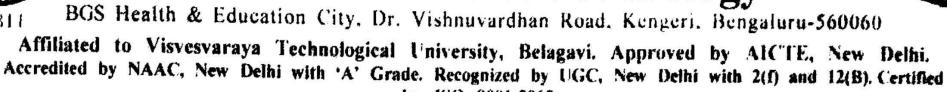
Subject:	Com	puter P	rogran	nming l	Lab					Sub	ject (Code:	21CI	PL17/	/27
					Co	urse	Outc	omes				_			
CO1	state	lerstan ements	and lo	oping	conce	pts							onal	-	
CO2		nonstra													
CO3	App	ly kno	wledge	e on fu	nction	is, rec	ursio	ns, po	inters	and s	structi	ures.	to all totton all		
-					CO-I	O-PS	SO M	appir	ng						
~			•			Pos	S							PSO s	3
Cos	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2	2	2									3		
CO2	3	3	2	2									3		
CO3	3	3	3	3	1				150				3		991 52-245
Average	3	2.67	2.33	2.33	1								3		

Head of the Department

Dept. of Information Science & Engineering S.J.B. Institute of Technology Kengeri, Bangalore-560 060







by ISO 9001-2015

Department of Computer Science and Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject: P	roble	m Sol	ving	Throug	h Pro	gram	ming			Sub	ject (Code:	21PS	P13/2	3
				a s	C	ourse	e Out	come	s						
CO1	Expl	oring	the co	oncepts	ofc	ompu	iters a	nd pr	oblem	solvi	ng sk	ills.			-
CO2				princip					- -				nming		
CO3				elopme				Commercial							
CO4				rays ar								-		-	_
CO5				sic con									proce	ssor	
		ctives													
					CO-	-PO-I	PSO N	Ларр	ing						
CO						PO)s		·					PSOs	
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	2	2										2		
CO2	3	3	2	3									2		
CO3	2	3	3	2	2								2		
CO4	2	3	3	2									2		
CO5	3	2	2	2									2		
Average	2.6	2.6	2.6	2.25	2						w		2		

Subject: (Comp	outer Pi	rogram	ming I	ab					Sub	ject (ode:	21CF	PL 17/	27
					Co		Outco								
CO1	state	lerstand ements	and lo	oping o	conce	pts			• 5	–	•	-	onal		
CO2	Den	nonstra	te and	implen	nent a	ipplic	ations	usin	g arra	ys and	d strir	igs			-
CO3	App	ly kno	wledge	on fur	ection	is, rec	ursio	ns, po	ointers	and s	tructi	ires.			, ,
					CO-P	O-P	SO M	appii	ng						
				55.55		Pos	5				<u></u>		<u> </u>	PSOs	<u> </u>
Cos	1	2	3	4	5	6	7	8	9	10	11	12	_1_	2	3
CO1	3	2	2	2				.	<u>.</u>	<u>.</u>			3		ļ
CO2	3	3	2	2					<u></u> .				3		
CO3	3	3	3	3	1					<u></u>			3		
Average	3	2.67	2.33	2.33	1			.]			3	L	L -

Affel

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|| Jai Sri Gundev || Sri Adichunchanagiri Shikshana Trust (R)

SJB Institute of Technology

(A Constituent of BGS &SJB Group of Institutions and Hospitals)
BGS Health and Education City, Dr. Vishmuvardhana Road, Kengeri, Bengaluru 560060



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Department of Electrical & Electronics Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II (Aca, Year 2021-22)

Subject:	Basi	c Elec	etrical	Engi	neerir	ıg	A TOTAL SECTION	NAME AND ADDRESS OF		Su	bieet	Code	1 211	CD12	193
						Cours	e Ou	teome	26	desaria di	11,120	COM	LALL	111111	1.610
CO1	Anal	yze b	asic I	C an	dAC	electr	le cire	cuits.		THE DESIGNATION	Mileterina		bellevisions	aries com	-
CO2	Expl	ain th nines,	e wor	king _j	princi	ples a	nd pe	rform	ance (of tran	sform	ers an	d ele	etrica	
CO3	Disc	uss th	e con	cepts	of ele	etrie i	ower	trans	missi	on and	distr	ibutio	n of n	Ower	en e
CO4	.Und	erstan	d the	electr fety m	icity l	oilling	, wor	king p	orincip	les of	circu	it prot	tective	e devi	ces
100						PO-	PSO	Марг	ing	Chimothe C					rAeyou.
COs						Assessment Co.	Os							PSO	,
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	3					The same of the sa	OR THE REAL PROPERTY.							
CO2	3	3		1 0											TORES
			And in concession of the last	the second second second	The second second		THE PERSON NAMED IN	and the second		-	-	orania minima di managara di m	A STATE OF THE PARTY OF THE PAR	-	-
CO3	3					1					- 2 1				
CO3 CO4	3					2		2							-
-	-					2 2		2							persidents patroline

Subject:	Basi	c Electi	rical I	Engin	eering	g Lab				Sub	ject (ode:	21EL	ELIT	7/27
					(Course	e Out	come	8			100			
CO1	circ	ilyze an uit and	short	circu	it con	dition	for s	imple	electr	ical ci	rcuit.				
CO2	loac	Evaluate Impedance, Power and Power factor of a single phase and three phase load. Determine an earth resistance and to demonstrate the controlling of lamp.													
CO3											ntrolli	ng of	lamp		
CO4	Det	ermine	effici	ency											
				-11/2	CO	-PO-l	PSO I	Mapp	ing		45.00			and the same	
-	Pos													PSO ₈	į
Cos	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	2	2				1		5/6		1	4630/4				_
CO2	2	2				1				1			and the same of th	halfe.	-
CO3	2	1				1	1	1		1					_
CO4	2	2				1			302	1	133	(man		-	
Average	2	1.75				1	1	1		1			0	-	

Co-ordinator Mr. Kubera U

HOD -Dr. Babu N V

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S J B Institute of Technology
EGS Health & Education City,
Kengeri, Bengaluru-660 060.

S J B Institute of Technology

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Department of Civil Engineering

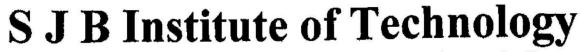
Course Outcomes and CO-PO-PSO Articulation Matrix

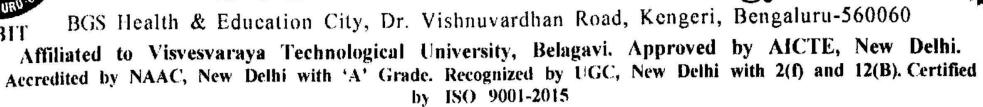
Semester-I/II

Subject:	Ele	ements	of Ci	vil En	ginee	ring a	nd M	echan	ics	Subj	ect C	ode:	21CI	V 14/2	4
		-	-		C	ourse	Out	comes	<u> </u>						
CO1		ine the		us fie	lds in	civil	Engin	eering	g and	its im	portar	ice on	infra	struct	ure
	Dev	Development. Evaluate the force system and analyzing bodies with rough surface contacts.													
CO2	Eval	Evaluate the force system and analyzing bodies with rough surface contacts.													
CO3	Ana	Analyse the different system and bodies in equilibrium.													
CO4	Dete	Determine the centroid for regular and built up areas and moment of Inertia for													
C04		composite section.													
CO5	Ana	Analyse the bodies in motion.													
	CO-PO-PSO Mapping														
CO-						PC)s							PSOs	
COs	1	2	3	4	5	6	7_	8	9	10	11	12	1	2	3
CO1	2					œ.									
CO2	3	3						320							
CO3	3	3						ļ						 	
CO4	3	3	2					<u> </u>							
CO5	2	2								<u> </u>	<u> </u>		-		
Average	2.6	2.75	2							<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>

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Head of Department
Department of Civil Engineering
S J B Instit- te of Technology
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Bengaluru-560 060





Department of Electronics and Communication Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject: I Engineering		Electi	onics	and	Comn	nunic	ation			Sub	ject (Code:	21EL	N14/2	24
	-6			_	(Course	e Out	come	s						
CO1	amp	lifiers	and o	oscilla	ators.							ower		,	
CO2	circu	iits an	d the	micro	ocont	roller	syste	m wit	h asso	ciated	l sens	a represors ar	id acti	uators	S
CO3	Disc	Discuss the characteristics and technological advances of embedded systems.													
CO4	Rela frequ	Relate to the fundamentals of communication engineering spanning from the frequency spectrum to the various circuits involved including antennas.													
CO5	Explain the different modes of communications from wired to wireless and the computing involved. CO-PO-PSO Mapping														
			<u>.</u>		CO			Mapp	oing			-		DCO.	
COs				Y		P	Os_	I	1 .	г				PSOs	
	1	2	3	4	5	6	7	8_	9	10	_11_	12	1	2	3
CO 1	3	_ 1						7 <u>1</u>					1	6	
CO2	3	1											1		
CO3	3	1								= +=			1		
CO4	3	1											1		
CO5	3	1						, , , ,	erv2				1		
Average	3	1											1.		

HOD

Head

Dept. of Electronics & Communication Eng.
SJB Institute of Technology
Bengaluru-560060

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Department of Mechanical Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject:	Ele	ments	of M	echan	ical E	ingine	ering			Subj	ect C	ode: 2	21EM	E15/2	5
					(course	e Out	come	S						
CO1	Unde resou	erstand irces i	d the band po	oasic (ower g	conce genera	pts of ition.	Mecl	nanica	ıl engi	neerir	ng in t	he fie	ld of e	energy	′
CO2	Unde	erstan ufactu	d the a	applie	ation	of eng	gineer	ing m	ateria	ls and	joini	ng pro	cess i	in	
CO3	Unde	Understand the fundamental concepts of engines and future mobility technology.													
CO4	Unde	Understand basic concepts of transmission system through demonstrations.													
CO5	Appl	Apply the skills in developing simple mechanical elements and process in manufacturing and machining technology.													
	CO-PO-PSO Mapping														= 3
COs						7.Nr.	Os		<u>&</u>					PSOs	,
COS	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3						1								
CO2	3						1								
CO3	3														
CO4	3														
CO5	3				1										
Average	3				1		1								

Subject:	Engi	ineerii	ng Vis	sualiza	ation					Subj	ect C	ode: 2	1EVI	N15/2	5	
		2	-0000 - 000 Fulls: 80		100	ours	e Out	come	S		•	,				
CO1	A									shape			sion			
CO2									h diff	erent v	iews.			W		
CO3	Deve	elop tl	he late	ral su	rfaces	of th	e obje	ect.		W AND ST.						
CO4	Crea	Create a 3D view using CAD software.														
CO5	Iden	dentify the inter disciplinary engineering components or systems hrough its graphical representation.														
	CO-PO-PSO Mapping															
	:					P	Os							PSOs		
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1	3	3	ar in Thomas		3							1				
CO2	3	3			3							1				
CO3	3	3			3							1				
CO4	3	3			3		L					1			ļ	
CO5	3	3			3							1				
Average	3	3			3							1				

Department of Mechanical Engineering SJB Institute of Technology Kengeri, Bengaluru-560 060



S J B Institute of Technology

BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru-560060 SJBH Affiliated to Visvesvaraya Technological University, Belagavi. Approved by AICTE, New Delhi. Accredited by NAAC, New Delhi with 'A' Grade. Recognized by UGC, New Delhi with 2(f) and 12(B). Certified by ISO 9001-2015

Department of Basic science

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject:	Comm	unicat	ive En	glish			-			Subj	ect Co	de: 211	EGH18		· · · · · · · · · · · · · · · · · · ·	
			* 100			Cou	rse Ou	tcome	s						· · · · ·	
CO1	Unde	rstand	and ap	ply the	funda	mental	s of co	mmun	ication	skills.						
CO2	Identi	fy the	nuance	s of ph	onetic	s. into	nation	and en	hance r	ronunc	iation	skills		80.090 X	*	
CO3	To in	part ba	asic En	glish g	ramma	ar and	essenti	als of I	anguag	e skills	as per	nresen	ıt requi	remen		
CO4	Unde	o impart basic English grammar and essentials of language skills as per present requirement. Inderstand and use all types of English vocabulary and knowledge proficiency. Idapt the techniques of information transfer through presentation.														
CO5	Adap	t the te	chniqu	es of in	nforma	tion tr	ansfer	through	nrese	ntation	o prom	Colono	·			
		· · · · · · · · · · · · · · · · · · ·						Mapp								
Cos				••			os		<u></u>				PSOs			
Cos	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1										2		2				
CO2	}							,		1	•	1				
CO3							***			2		1				
CO4										1		2				
CO5										3		3				
Average										4.5	· ·	4.5				

Subject:	Profes	ssional	Writin	g Skill	s in En	glish		-		Subje	ect Co	de: 21E	GH28	· · · · · · · · · · · · · · · · · · ·	
						Cour	rse Ou	tcome	S		. W.	•			- P
CO1	To ur	idersta	nd and	identif	fy the c	ommo	n error	s in W	riting a	nd spea	king.				
CO2									ı skills.						
CO3	To re	ad tech	nnical p	proposa	als prop	erly a	nd mak	e them	to wri	te good	techn	ical ren	orts.	d n	
CO4	Acqu	To read technical proposals properly and make them to write good technical reports. Acquire employment and Workplace communication skills. To learn about techniques of information transfer through presentation in different levels.													
CO5											tion in	differe	ent leve	els.	-
					(CO-PC	-PSO	Mapp	ing			· · · · · · · · · · · · · · · · · · ·			
Cos		Pos													
Cos	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1										2		2			
CO2										2		2			
CO3										3		3			
CO4										2		2			
CO5										2		2			
Average										5.5		5.5			

FACULTY INCHARGE
[Renuka Prolad]

Dr. Padmaja Venugopal, Ph.D Professor and Head Department of Mathematics S.J B Institute of Technology # 67, BGS Health & Education City. Uttarahalli Road, Kengeri, Bangalore-60

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Department of Mechanical Engineering

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject:	lnno	vation	and I	Design	n Thir	iking				Sub	ject (Code:	211D	T19	
					(Cours	e Ou	tcome	:5				•		
CO1	App	reciate	e vario	ous de	esign	proces	ss pro	cedur	9						
CO2	Gen	erate a	and de	velop	desig	gn ide	as thr	ough (differe	nt tec	hniqu	ie			3.00
CO3	lden	Identify the significance of reverse Engineering to Understand products Draw technical drawing for design ideas													
CO4		Draw technical drawing for design ideas													
	CO-PO-PSO Mapping														
C						P	os							PSOs	
Cos	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3														
CO2	3														
CO3	3														
CO4	3														
Average	3												0.2 12		

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Department of Chemistry

Course Outcomes and CO-PO-PSO Articulation Matrix

Semester-I/II

Subject	t: Scientific Foundations of Health Course Outcomes Course Outcomes														
	•		·												
CO1	To ur	idersta	nd Hea	lth and	i welln	ess (an	d its B	eliefs).							
CO2	To ac	To acquire Good Health & It's balance for positive mindset.													
CO3	To in	To inculcate and develop the healthy lifestyle habits for good health													
CO4		To Create of Healthy and caring relationships to meet the requirements of MNC and LPG world.													
CO5	To ad	To adopt the innovative & positive methods to avoid risks from harmful habits in their campus & outside the campus.													
CO6															
					(CO-PC	-PSO	Mapp	ing						
COs								POs							
COS	1	2	3	4	5	6	7	8	9	10	11	12			
CO1						1		1	1	1		1			
CO2						1		1	1	1		1			
CO3						1		1	1	1		1			
CO4					220. 221	1		1	1	1		1			
CO5						1		1	1	1		1			
CO6								1	1	1		1			
Average						1		1	1	1		1			

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Head of the Department
Department of Chemistry

SJB Institute of Techonology

BGS Health & Education City

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