					E. in MECHAN	NICAL ENGINE	ERING	-	GAVI							
			Ou	tcome Based Educa	ation(OBE) ar	g and Examin nd Choice Bas academic yea	sed Cre	edit Sy	stem	(CBCS	)					
III SE	EMESTER				-											
	Course ar				artment estion g Board	Teaching Hours /Week					Examination					
SI. No	Course Code			Conrse Litle Tutorial Conrection Tutorial Conrection Lecture Lecture Lecture Lecture CPB Conrection CPB Lecture CPB Conrection CPB Conrection CPB CPB Conrection CPB CPB CPB CPB CPB CPB CPB CPB		· · ·	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks					
			_		-	L	Т	P	S							
1	BSC 21MAT31		Fourie	form Calculus, er Series And erical Techniques	Maths	2	2	0	0	03	50	50	100	3		
2	IPCC 21ME32			casting, Forming Dining Processes	TD: ME PSB: ME	3	0	2	0	03	50	50	100	4		
3	IPCC 21ME33			rial Science and eering	TD: ME PSB ME	3	0	2	0	03	50	50	100	4		
4	PCC 21ME34	Thermodynamics			TD: ME PSB ME	2	2	0	0	03	50	50	100	3		
5	PCC 21MEL35					0	0	2	0	03	50	50	100	1		
6	UHV 21UH36			Connect and onsibility	Any Departmen	t O	0	1	0	01	50	50	100	1		
	21KSK37/47		Sams	krutika Kannada	-											
7	HSMC 21KBK37/47		Balak OF	e Kannada	TD and PSB HSMC	: 1	0	0	0	01	50 50 1		100	1		
	HSMC 21CIP37/4	17	Const	itution of India rofessional Ethics	-											
					TD:	If offered	as Theory Course			01	50	50	100	1		
					Concerned	0	2	0								
8	AEC						departmen PSB:	t If offere	ed as la	b. coui	rse	02				
	21ME38X (		cours		Concerned Board	0	0	2								
										Total	400	400	800	18		
			1DC NS83	National Service Scheme (NSS)	NSS	All students National Ser	vice Sc	heme,	Phys	ical Ed	ucatio	n (PE)	(Sports	and		
9	Scheduled activities for III to VIII semesters		1DC PE83	Physical Education (PE)(Sports and Athletics)	PE		g the fi It from r. SEE	rst we (for 5 in the	ek of seme abov	III sem sters) I e cour	ester.1 Detwee ses sh	The act en III s nall be	tivities semest condu	shall er to ucted		
	Scheduled III to VIII		1DC YO83	Yoga	Yoga	marks shall b of the regist degree. The events s	er. SEE in the above courses shall be conducted semester examinations and the accumulated C be added to the SEE marks. Successful completion stered course is mandatory for the award of the shall be appropriately scheduled by the college ne shall be reflected in the colander prepared for									

					the NSS, PE a	nd Yog	a activit	ies.					
	Course	prescri	bed to lateral entr	v Diploma h	olders admitted	d to III	semest	er B.E	./В.Те	ch pro	grams		
	NCMC		Additional								0		
1	21MATDIP31	l r	Mathematics - I	Maths	02	02				100		100	0
ot	e:BSC: Basic Sci	ience Co	ourse, IPCC: Integra	ated Profess	ional Core Cours	se, <b>PCC</b>	: Profes	siona	al Core	Cours	e, <b>INT</b> -	-Intern	shir
			al Science & Mana										
	ie Course.			0	,	-,							
		utorial.	P- Practical/ Drav	ving. <b>S –</b> Se	lf Study Compo	onent.	CIE: Co	ontinu	ious li	nternal	l Evalu	ation.	SEE
			. <b>TD-</b> Teaching Dep	-								,	-
			Kannada is for stud					and 2	21KBK	37/47	Balake	Kanna	da
			, reading, and writi				annada			.,.,	Bulance	Ranne	uu
			ore Course (IPCC):			ory Co	re Cour	so Int	ograte	ad with	Pract	icals o	f th
	-					-			-				
			CC can be 04 and it	-	-								
			PCC shall be evalu	-		-					-	-	
			from the practical										, th
			egree of Bachelor										
	-		utional Internship			-	-		-				
			ergo a mandatory								-		
beri	od of III and IV	semes	ters. The internshi	ip shall be sl	ated for CIE on	ly and	will not	: have	e SEE.	The let	tter gr	ade ea	rne
hro	ough CIE shall b	e inclu	ded in the IV seme	ester grade o	card.The interns	hip sh	all be c	onsid	ered a	is a hea	ad of I	passing	; an
hal	I be considered	d for ve	ertical progression							1.1.1.1			
				and for the	e award of degr	ee. T	hose, w	ho d	o not	таке и	р / со	mplete	
nte	rnship shall b	e decla	ared fail and sha		-						-	-	e th
	-			ll have to	complete durin	ng sub	sequen	tly a	fter sa	atisfyin	g the	interr	e th nshi
requ	uirements. The	faculty	ared fail and sha	ll have to entor shall n	complete durin	ng sub	sequen	tly a	fter sa	atisfyin	g the	interr	e th nshi
requ for t	uirements. The the successful c	faculty complet	ared fail and sha coordinator or me ion of the internsh	ll have to entor shall n	complete durin	ng sub	sequen	tly a	fter sa	atisfyin	g the	interr	e th nshi
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requ for t Non (A)A	uirements. The the successful c credit manda Additional Matl	faculty completi tory con hematic	ared fail and sha coordinator or me ion of the internsh urses (NCMC): is I and II:	ll have to entor shall n ip.	complete durin	ng sub lents' i	sequen nternsh	tly af lip pr	fter sa ogress	atisfyin and ir	g the	interr with t	e th ishi then
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he/she shall be deemed to have not completed the requirements of the course. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks.

(4) Successful completion of the course shall be indicated as satisfactory in the grade card. Non-completion of the course shall be indicated as Unsatisfactory.

(5) These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.

Ability Enhancement Course – III										
21ME381	Introduction to PYTHON (0-0-2-0)	21ME383	Digital Society( 0-2-0-0)							
21ME382	Fundamentals of Virtual Reality (0-2-0-0)									

		VISVESVARAYA 1					AGAV					
			MECHANICAL				L					
Scheme of Teaching and Examinations 2021 Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)												
		(Effective	from the acade	mic yea	r 2021	L - 22)						
IV SEMESTER Teaching Hours												
			(TD) ng		/w	-			Exam	inatio	า	
SI. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting	Theory Lecture	Tutorial		Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
				L	Т	Р	S		0	<i>.</i>	μ, μ	
1	BSC 21ME41	Complex Analysis, Probability and Linear Programming.	Maths	2	2	0	0	03	50	50	100	3
2	IPCC 21ME42	Machining Science and Jigs & Fixtures	TD: ME PSB: ME	3	0	2	0	03	50	50	100	4
3	IPCC 21ME43	Fluid Mechanics	TD: ME PSB: ME	3	3 0 2 0		03	50	50	100	4	
4	PCC 21ME44	Mechanics of Materials	TD: ME PSB: ME	2	2 2 0 0		03	50	50	100	3	
5	AEC 21BE45	Biology For Engineers	BT, CHE, PHY	2	2 0 0 0		0	02	50	50	100	2
6	PCC 21MEL46	Mechanical Measurements and Metrology Lab	TD: ME PSB: ME	0	0	2	0	03	50	50	100	1
	HSMC 21KSK37/47	Samskrutika Kannada										
7	HSMC 21KBK37/47	Balake Kannada	HSMC	1	0	0	0	01	50	50	100	1
		OR										
	HSMC 21CIP37/47	Constitution of India & Professional Ethics										
				If o		as the	ory					
	AEC	Ability Enhancement	TD and PSB: Concerned	Course			01					
8	21XX48X	Course- IV	department	If offered					50	50	100	1
					Course			02				
				0	0 0 2							
9	UHV 21UH49	UniversalHumanValues	Any Department	1	0	0	<u>.</u>	01	50	50	100	1
10	INT 21INT49	Inter/Intra Institutional Internship	Evaluation By the appropriate authorities	Completed during the intervening period ofII and III semesters by students admitted to first year of BE./B.Tech and during the intervening period of III and IV semesters by Lateral entry students admitted to III		3	100		100	2		

										Total	550	450	1000	22
Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs														
1	NCMC 21MA		Additional Mathematics –	Math	S	02	02				100		100	0
Not			II	l Drofossi	onal	Coro Co			Profoss	ional	Coro C	ourco		hility
	Note: BSC: Basic Science Course, IPCC: Integrated Professional Core Course, PCC: Professional Core Course, AEC – Ability												-	
	Enhancement Courses, HSMC: Humanity and Social Science and Management Courses, UHV- Universal Human Value Courses.												alue	
		T – Tuto	rial, P- Practical/ Drawing, S – S	Self Study	Com	nonent	CIE	ontin	uous In	ternal	l Evalua	ation 9	SFF	
		nd Exam	-	Sell Study	com	ponent	, CIL. (	2011011	1005 11	iterna	LValue			
			utika Kannada is for students	who spea	ık re	ad and	write	Kanna	da and	21KB	K37/47	Balak	e Kanna	da is
			eaking, reading, and writing st	•	ik, ic		write	(united)		2110	N37747	Balak		uu 15
			onal Core Course (IPCC): Refe		fessio	onal The	eorv C	ore Co	urse li	ntegra	ted wi	th Pra	cticals o	f the
	-		for IPCC can be 04 and its Tea				-			-				
			of the IPCC shall be evaluated	-		-	•					•		
-			estions from practical part of				-		-			-	-	-
			g the Degree of Bachelor of En											
Non	– credit	t manda	itory course (NCMC):								-			
Add	itional N	Mathem	atics - II:											
(1) L	ateral e	entry Dip	oloma holders admitted to III s	semester	of B.	E./B.Tec	ch., sha	all atte	end the	e class	es duri	ng the	IV sem	ester
to co	omplete	all the	formalities of the course and a	appear fo	r the	Continu	uous li	nterna	l Evalu	ation	(CIE). Ir	n case,	any stu	dent
fails	to regis	ter for t	he said course/fails to secure	the minin	num	40 % of	the p	rescrib	ed CIE	marks	s, he/sł	ne shal	l be dee	med
to h	ave sec	cured a	n F grade. In such a case, t	he studei	nt ha	as to fu	ılfill th	ne cou	rse re	quirer	nents	during	subseq	uent
sem	ester/s t	to earn t	the qualifying CIE marks. These	e courses	are s	lated fo	r CIE o	nly an	d has r	no SEE				
(2) /	Addition	al Math	ematics I and II shall not be c	onsidered	for	vertical	progr	ession	as wel	ll as fo	or the c	alcula	tion of S	GPA
and	CGPA, b	out comp	pletion of the courses shall be	mandator	y for	the awa	ard of	degre	e.					
( <b>3)</b> S	uccessfu	ıl compl	etion of the course Additional	Mathem	atics	llshall b	pe indi	cated	as satis	sfacto	ry in th	e grad	e card.	Non-
completion of the coursesAdditional Mathematics IIshall be indicated as Unsatisfactory.														
Ability Enhancement Course – IV														
21N	1E481	Spread	d Sheets for Engineers (0-0-2-0	)	21	VE483	Fund	damen	tals of	Augm	ented	Reality	(0-2-0-	))
21N	1E482	Introd	uction to AI and ML (0-2-0-0)											
Inte	rnship c	of 04 we	eeks during the intervening p	eriod of I	V an	d V sen	nester	s; 211	NT68In	novat	ion/ Er	ntrepro	eneursh	ip/
Soci	etalbase	ed Inter	nship.											
• •			shall have to undergo a mand	,		•			0		0	•		
sem	esters.	The inte	ernship shall be slated for CIE	only and	will n	ot have	SEE.	The let	tter gra	ade ea	rned th	nrough	CIE sha	ill be
inclu	ided in t	the VI se	emester grade card. The intern	ship shall	be co	onsidere	ed as a	head	of pas	sing a	nd shal	l be co	onsidere	d for

semesters. The internship shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the VI semester grade card. The internship shall be considered as a head of passing and shall be considered for vertical progression and for the award of degree. Those, who do not take up / complete the internship shall be considered under F (fail) grade and shall have to complete during subsequently after satisfying the internship requirements.

(2)Innovation/ Entrepreneurship Internshipshall be carried out at industry, State and Central Government /Nongovernment organizations (NGOs), micro, small and medium enterprise (MSME), Innovation centers or Incubation centers. Innovation need not be a single major breakthrough, it can also be a series of small or incremental changes.Innovation of any kind can also happen outside of the business world.

Entrepreneurship internships offers a chance to gain hands on experience in the world of entrepreneurship and helps to learn what it takes to run a small entrepreneurial business by performing intern duties with an established company. This experience can then be applied to future business endeavours.Start-ups and small companies are a preferred place to learn the business tack ticks for future entrepreneurs as learning how a small business operates will serve the intern well when he/she manages his/her own company. Entrepreneurship acts as a catalyst to open the minds to creativity and innovation.Entrepreneurship internship can be from several sectors, including technology, small and medium-sized, and the service sector.

(3) Societal or social internship.

Urbanization is increasing on a global scale; and yet, half the world's population still resides in rural areas and is devoid of

many things that urban population enjoy. Rural internship, is a work-based activity in which students will have a chance to solve/reduce the problems of the rural place for better living.

As proposed under the AICTE rural internship programme, activities under Societal or social internship, particularly in rural areas, shall be considered for 40 points under AICTE activity point programme.