Scheme of Teaching and Examinations 2021

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021 - 22)

III S	EMESTER			Lincolly	e nom the academ	ine year i		/						
						Теас	hing Ho	urs /Wee	k		Exam	ination		
SI. No	Course an Course Coo			Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	. Theory Lecture	4 Tutorial	, Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	BSC	_	Transf	orm Calculus, Fourier Series		L	т	Р	S					
1	21MAT31			umerical Techniques	Maths	2	2	-	-	03	50	50	100	3
2	IPCC 21BM32		Analo	g Electronic Circuits	_	2	2	2	-	03	50	50	100	4
3	IPCC 21BM33		Digital	Design and HDL	TD: BM - PSB: EI/BM/ML	2	2	2	-	03	50	50	100	4
4	PCC 21BM34			mentation, Measurements omedical Transducers		2	2	-	-	03	50	50	100	3
5	PCC 21BML35			urement and Biomedical lucers Lab		-	-	2	-	03	50	50	100	1
6	UHV 21UH36		Social	Connect and Responsibility	Any Department	-	-	1	-	01	50	50	100	1
	HSMC 21KSK37/4	17	Samsk	rutika Kannada										
7	HSMC 21KBK37/4	17	Balake	e Kannada OR	TD and PSB: HSMC	1	-	-	-	01	50	50	100	1
	HSMC 21CIP37/4	7		tution of India and sional Ethics	-									
8	AEC	-		Enhancement Course - III	TD: BM	If offered as Theory Course 01 1 - - 50 50			50	100 1	1			
0	21BM38X		Abiiity		PSB: EI/BM/ML	If offe	ered as l	lab. cour 2	rse	02	50	50	100	1
							•	•	•	Total	400	400	800	18
	for s		MC NS83	National Service Scheme (NSS)	NSS	Nationa	l Servic	e Schei	me, P	hysical	Educati	on (PE)	ourses na (Sports of the co	and
9	heduled activities for III to VIII semesters		MC PE83	Physical Education (PE) (Sports and Athletics)	PE	out from SEE in t	n (for 5 he abov	semest e cours	ers) b es sha	etween II be co	III seme nductec	ster to during	nall be ca VIII seme VIII seme	ester. ester
	Scheduled III to VIII	21	MC YO83	Yoga	Yoga	SEE ma mandate The even same sh Yoga act	orks. Su ory for a nts shall all be re tivities.	ccessful award of be appr eflected i	comp f the d ropriat in the	oletion egree. tely sche calenda	of the eduled b r prepar	register y the co ed for th	e added to red cours Illeges and ne NSS, PE	se is d the
	NGMG	Co	urse p	prescribed to lateral entry I	Diploma holders a	dmitted	to III se	emeste	r B.E.,	/B.Tech	n progra	ams		T
1	NCMC 21MATDIP			Additional Mathematics - I	Maths	02	02				100		100	0
Socia L – L Teac	al Science & .ecture, T – ⁻ :hing Depart	Mai Futo mer	nageme rial, P - nt, PSB :	urse, IPCC: Integrated Professi ent Courses, AEC–Ability Enhar Practical/ Drawing, S – Self Stu Paper Setting Board/Departm annada is for students who spe	ncement Courses. UH Idy Component, CIE: ent	IV: Univer Continuo	rsal Hun ous Inter	nan Valu mal Eval	ie Cou uatior	rse. 1, SEE: S	emester	End Ex		ו. TD-
read Inte; IPCC both in th be re 21IN	ling, and wri grated Profe can be 04 a by CIE and e SEE quest eferred. IT49 Inter/I	ting essic nd if SEE. ion p ntra	studen onal Co ts Teacl The pr oaper. F Institu	ts. re Course (IPCC): Refers to Pro- hing–Learning hours (L : T : P) of actical part shall be evaluated for more details, the regulation itional Internship: All the stud	ofessional Theory Co can be considered as by only CIE (no SEE). n governing the Degr dents admitted to en	ore Course (3 : 0 : 2) However ee of Bach ngineering	e Integra or (2 : 2 , questi nelor of g progra	ated wit 2 : 2). Th ons fron Enginee	th Prace theo the p the p ring / ⁻ ler the	ctical's o ory part practical Fechnolo e lateral	of the sa of the IF part of ogy (BE/ entry c	me cou PCC shal IPCC sha B.Tech. ategory	rse. Credi I be evalu all be inclu) 2021-22 shall hav	it for lated uded may ve to
unde	ergo a mano	ator	y 21IN	T49 Inter/Intra Institutional Int	ernship of 03 weeks	during th	e interv	ening p	eriod	of III and	I IV sem	esters.	The interr	iship

shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the IV 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 declared fail and shall have to complete during subsequently after satisfying the internship requirements. The faculty coordinator or mentor shall monitor the students' internship progress and interact with them for the successful completion of the internship.

Non-Credit Mandatory Courses (NCMC):

(A) Additional Mathematics I and II:

(1) These courses are prescribed for III and IV semesters respectively to lateral entry Diploma holders admitted to III semester of B.E./B.Tech., programs. They shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the Continuous Internal Evaluation (CIE). In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured an F grade. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks. These courses are slated for CIE only and have no SEE.

(2) Additional Mathematics I and II 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.

(3) Successful completion of the courses Additional Mathematics I and II shall be indicated as satisfactory in the grade card. Non-completion of the courses Additional Mathematics I and II shall be indicated as Unsatisfactory.

(B) National Service Scheme/Physical Education (Sport and Athletics)/ Yoga:

(1) Securing 40 % or more in CIE, 35 % or more marks in SEE and 40 % or more in the sum total of CIE + SEE leads to successful completion of the registered course.

(2) In case, students fail to secure 35 % marks in SEE, they have to appear for SEE during the subsequent examinations conducted by the University.
 (3) In case, any student fails to register for NSS, PE or Yoga/fails to secure the minimum 40 % of the prescribed CIE marks, 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									
21BM381	Human Anatomy and Physiology	21BM383	Digital Design Lab using Pspice / MultiSIM							
21BM382	Network Analysis	21BM384	AEC Lab using Pspice / MultiSIM							

Scheme of Teaching and Examinations 2021

Outcome-Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021 - 22)

IV S	SEM	ESTE	R
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IV S	EMESTER		-									
			6	Теа	ching I	Hours /W	/eek		Exam	ination	1	
SI. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	r Theory Lecture	너 Tutorial	Drawing	v Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	BSC 21MAT41	Complex Analysis, Probability and Statistical Methods	Maths	2	2	-	-	03	50	50	100	3
2	IPCC 21BM42	Embedded Controllers		2	2	2	-	03	50	50	100	4
3	IPCC 21BM43	Java Programming	TD: BM PSB: EI/BM/ML	2	2	2	-	03	50	50	100	4
4	PCC 21BM44	Signal Conditioning and Data Acquisition Circuits		2	2	-	-	03	50	50	100	3
5	AEC 21BE45	Biology For Engineers	BT, CHE, PHY	2	-	-	-	02	50	50	100	2
6	PCC 21BML46	Signal Conditioning and Data Acquisition Circuits Lab	TD: BM PSB: EI/BM/ML	-	-	2	-	03	50	50	100	1
	HSMC 21KSK37/47	Samskrutika Kannada										
7	HSMC 21KBK37/47	Balake Kannada	HSMC	1	-	-	-	01	50	50	100	1
	HSMC 21CIP37/47	OR Constitution of India & Professional Ethics	-									
8	AEC 21BM48X	Ability Enhancement Course- IV	TD: BM PSB: EI/BM/ML	1	Co -	d as the ourse - as lab. co 2	-	01	50	50	100	1
9	UHV 21UH49	Universal Human Values	Any Department	1	-	-	-	01	50	50	100	1
10	INT 21INT49	Inter/Intra Institutional Internship	Evaluation By the appropriate authorities	Completed during the intervening period of II and III semesters by students admitted to first year of BE./B.Tech and ate during the intervening 3 100 100					2			
								Total	550	450	1000	22
	Cour	rse prescribed to lateral entry Dipl	oma holders adm	itted to	o III se	emeste	r of Eng	gineerii	ng prog	rams		
1	NCMC 21MATDIP41	Additional Mathematics - II	Maths	02	02				100		100	0
HSM L –Le 21KS read	1C: Humanity and ecture, T – Tutori SK37/47 Samskru ling, and writing	ence Course, IPCC: Integrated Profession d Social Science and Management Cours ial, P- Practical/ Drawing, S – Self Study itika Kannada is for students, who speak students. nal Core Course (IPCC): Refers to Profe	ses, UHV- Universa Component, CIE: Co , read and write Kan	l Humar ontinuou nada an	n Value <u>is Inte</u> d 21KE	e Course rnal Eva 3K37/47	es. Iuation, Balake	SEE: Se Kannada	mester E a is for no	End Exan on-Kann	nination. ada spea	king
IPCC both the :	can be 04 and it by CIE and SEE.	The practical part shall be evaluated by per. For more details the regulation gov	an be considered as / only CIE (no SEE).	(3: 0 : 2) Howeve	or (2 er, que	: 2 : 2). ⁻ stions fi	The theo rom pra	ory part ctical pa	of the IP art of IPC	CC shall CC shall b	be evalu e includ	iateo ed ir

Non-Credit Mandatory Course (NCMC):

Additional Mathematics - II:

(1) Lateral entry Diploma holders admitted to III semester of B.E/B.Tech., shall attend the classes during the IV semester to complete all the formalities of the course and appear for the Continuous Internal Evaluation (CIE). In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured an F grade. In such a case, the student has to fulfil the course requirements during subsequent semester/s to earn the qualifying CIE marks. These courses are slated for CIE only and have no SEE.

(2) Additional Mathematics I and II 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.

(3) Successful completion of the course Additional Mathematics II shall be indicated as satisfactory in the grade card. Non-completion of the courses Additional Mathematics II shall be indicated as Unsatisfactory.

	Ability Enhancement Course - IV										
21BM481	Programming in MATLAB	21BM483	Signal Conditioning Lab using Pspice / MultiSIM								
21BM482	Bioinstrumentation	21BM484	Bioelectric Phenomena								

Internship of 04 weeks during the intervening period of IV and V semesters; 21INT68 Innovation/ Entrepreneurship/ Societal based Internship.

(1) All the students shall have to undergo a mandatory internship of 04 weeks during the intervening period of IV and V 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 Internship shall be carried out at industry, State and Central Government / Non-government organizations (NGOs), micro, small, and medium enterprise (MSMEs), Innovation centres or Incubation centres. 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.

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Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021 - 22)

				Teachin	ng Hour	s /Week			Exami	nation		
SI. No	Course and Course Cod	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
				L	т	Р	S					
1	PCC 21BM51	Clinical Instrumentation		2	2	-	-	03	50	50	100	3
2	IPCC 21BM52	Fundamentals of Signals & DSP	TD: DM	2	2	2	-	03	50	50	100	4
3	PCC 21BM53	Rehabilitation Engineering	TD: BM PSB: EI/BM/ML	2	2	-	-	03	50	50	100	3
4	PCC 21BM54	Biomedical Equipment's		2	2	-	-	03	50	50	100	3
5	PCC 21BML55	Clinical Instrumentation Lab		-	-	2	-	03	50	50	100	1
6	AEC 21XX56	Research Methodology & Intellectual Property Rights	TD: Any Dept. PSB: As identified by University	2	-	-	-	02	50	50	100	2
7	HSMC 21CIV57	Environmental Studies	TD: CV/ENV/CHE/BT PSB: CV	1	-	-	-	1	50	50	100	1
			TD: BM	If offe	red as	Theory c	ourses	01				
8	AEC	Ability Enhancement Course-V	PSB: EI/BM/ML	1			-	01	50	50	100	1
-	21BM58X			If off	ered a	s lab. coι	urses	02			200	-
				-	-	2	-	Total	400	400	800	18
		۵	bility Enhancemen	t Course	e – V			Total	400	400	000	10
21B	M581	Arduino and Raspberry Pi Lab		3M583		ctave /	Scilab	for Sig	nal An	alysis l	Lab	
21B	M582 I	nternet of Things	21	3M584	Py	thon Pro	grammi	ng				
–Inte	ernship, HSM	icience Course, PCC: Professional Core MC: Humanity and Social Science & Mar torial, P- Practical/ Drawing, S – Self Stu	nagement Courses.									

can be 04 and its Teaching – Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). Theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by CIE only and there shall be no SEE. For more details the regulation governing the Degree of Bachelor of Engineering /Technology (BE/B.Tech.) 2021-22 may be referred.

Scheme of Teaching and Examinations 2021 Outcome-Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2021 - 22)

			(Teaching	Hours	/Week			Exami	nation		
SI. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
			Δ	L	т	Р	S					
1	HSMC 21BM61	Technological Innovation Management & Entrepreneurship		2	2	-	-	03	50	50	100	3
2	IPCC 21BM62	Medical Image Processing		2	2	2	-	03	50	50	100	4
3	PCC 21BM63	Biomedical Digital Signal Processing	TD: BM 2 2				-	03	50	50	100	3
4	PEC 21BM64X	Professional Elective Course-I	EI/BM/ML	2	2	-	-	03	50	50	100	3
5	OEC 21BM65X	Open Elective Course-I		2	2	-	-	03	50	50	100	3
6	PCC Biomedical DSP Lab - - 2 - 03 50 50 100 1							1				
7	MP 21BMMP67	Mini Project	Two contact hours /week for interaction between the faculty and students1001002						2			
8	INT 21INT68	Innovation/Entrepreneurship / Societal Internship	Completed duri a	ng the inte nd V seme		ng perio	d of IV		100		100	3
								Total	500	300	800	22

Professional Elective - I										
21BM641	Scientific and Analytical Instrumentation	21BM644	Medical Device Regulations and Safety							
21BM642	Analog and Digital Communication Systems	21BM645	Virtual Bio-Instrumentation							
21BM643	Hospital Design, Planning and Management									

	Open Elective – I : Offered by the Department to other Department Students											
21BM651	Biomedical Transducers and Medical Instrumentation	21BM653	Rehabilitation Engineering and Assistive Technology									
21BM652	Fundamentals of Medical Imaging Techniques											

Note: HSMC: Humanity and Social Science & Management Courses, IPCC: Integrated Professional Core Course, PCC: Professional Core Course, PEC: Professional Elective Courses, OEC–Open Elective Course, MP – Mini Project, INT – Internship.

L – Lecture, T – Tutorial, P - Practical / Drawing, S – Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination.

Integrated Professional Core Course (IPCC): Refers to Professional Theory Core Course Integrated with Practical of the same course. Credit for IPCC can be 04 and its Teaching – Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by CIE only and there shall be no SEE. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (BE/B.Tech) 2021-22 may be referred.

Professional Elective Courses (PEC):

A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course out of five courses. The minimum students' strength for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the programme is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled for the open electives offered by their parent Department. However, they can opt an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor.

Selection of an open elective shall **not be allowed** if,

(i) The candidate has studied the same course during the previous semesters of the program.(ii) The syllabus content of open electives is similar to that of the Departmental core courses or professional electives.

(iii) A similar course, under any category, is prescribed in the higher semesters of the program.

In case, any college is desirous of offering a course (not included in the Open Elective List of the University) from streams such as Law, Business (MBA), Medicine, Arts, Commerce, etc., can seek permission, at least one month before the commencement of the semester, from the University by submitting a copy of the syllabus along with the details of expertise available to teach the same in the college.

The minimum students' strength for offering open electives is 10. However, this conditional shall not be applicable to cases where the admission to the programme is less than 10.

Mini-project work: Mini Project is a laboratory-oriented course which will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications.

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project. The CIE marks awarded for the Mini-project shall be based on the evaluation of project report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

No SEE component for Mini-Project.

VII semester Class work and Research Internship /Industry Internship (21INT82)

Swapping Facility

Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate research internship/ industry internship after the VI semester.

(2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program. **Elucidation:**

At the beginning of IV year of the programme i.e., after VI semester, VII semester class work and VIII semester Research Internship /Industrial Internship shall be permitted to be operated simultaneously by the University so that students have ample opportunity for internship. In other words, a good percentage of the class shall attend VII semester class work and similar percentage of others shall attend to Research Internship or Industrial Internship.

Research/Industrial Internship shall be carried out at an Industry, NGO, MSME, Innovation centre, Incubation centre, Start-up, Centres of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations / institutes. The internship can also be rural internship.

The mandatory Research internship /Industry internship is for 24 weeks. The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the internship shall be declared fail and shall have to complete during the subsequent University examination after satisfying the internship requirements.

INT21INT82 Research Internship / Industry Internship / Rural Internship

Research internship: A research internship is intended to offer the flavour of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural internship: A long-term goal, as proposed under the AICTE rural internship programme, shall be counted as rural internship activity.

The student can take up Interdisciplinary Research Internship or Industry Internship.

The faculty coordinator or mentor has to monitor the students' internship progress and interact with them to guide for the successful completion of the internship.

The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of internship.

Scheme of Teaching and Examinations 2021 Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

			(Effectiv	ve from the ac			•		5057				
Swa	ppable	VII and	VIII SEMESTER										
VIIS	SEMEST	ER	1	1					1				
SI. No		se and se Code	Course Title	Teaching Department (TD) and Question Paper Setting		ng Hours Trtorial T	Drawing	v Self -Study	Duration in hours	CIE Marks	ination SEE Warks SEE Marks	Total Marks	Credits
1	PCC 21BM	71	Medical Imaging Systems		2	2	-	-	3	50	50	100	3
2	PCC 21BM	72	Biomaterials and Artificial Organs	TD: BM	1	2	-	-	3	50	50	100	2
3	PEC 21BM	73X	Professional Elective Course-II	DCB.						100	3		
4	PEC 21BM	74X	Professional Elective Course-III	2 2 3 50					50	100	3		
5	OEC 21BM	75X	Open Elective Course-II		2	2	-	-	3	50	50	100	3
6	21BMP76 between the faculty and students.								10				
									Total	350	350	700	24
VIII	SEMES	TER		-									-
					Teachi	ng Hours	s /Week			Exam	ination	Т	
SI. No		se and se Code	Course Title	Teaching Department	. Theory Lecture	I Tutorial	, Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	Semin	ar		One cont	L act hour /w	T eek for	P	S					
1	21EI81		Technical Seminar		en the facul					100		100	01
2	INT 21INT	32	Research Internship/ Industry Internship		act hours /v en the facul				03 (Batch wise)	100	100	200	15
3	NCMC	21NS83 21PE83 21YO83	National Service Scheme (NSS) Physical Education (PE) (Sports and Athletics) Yoga	NSS Completed during the PE intervening period of III Yoga					0				
			-	-					Tota	l 250	150	400	16
				Professiona	l Elective -								
21BI	M731	Databa	ase Management System in Healthca		21BM734	1	MEMS						
	M732		Processor		21BM735	Ergo	onomics						
21BI	M733	Biome	chanics and Biodynamics										
				Professiona									
	M741	Biosta			21BM744				Instrume				
	M742 M743		al Informatics and Expert Systems and Optical Fibers in Medicine		21BM745	Art	iticial In	telligen	ce and N	lachine	Learning	5	
	vi/43	Lasers											

Description Display Transmission Display Transmission Medical Informatics 218M732 Biomedical Image Processing 0.00000000000000000000000000000000000		Open Elective - II : Offered by the Dep	partment to o	ther Department Students
 Note: PCC: Professional Core Course, PEC: Professional Elective Course, OEC-Open Elective Course, AEC-Ability Enhancement Courses. L-tecture, T - Tutorial, P. Practical / Drawing, S - Self Study Component, CIE: Continuous Internal Evoluation, SEE: Semester End Examination. Note: VII and VIII Semesters of Vy and VIII Semester Scheme of Teaching and Examinations to accommodate research Internship (industry internship for the VI semester). Cell Carlotts earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII covil semester is completed during the beginning of V year of larger of the programme. PROLEC WORK (IZUKYPS): The objective of the Project work is (I) To develop interactive attitude, communication skills, organization, time management, and presentation skills. (II) To inspire team working. (V) To objective of the project work is (II) To inspire team working. (V) To objective of the project work is a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and acchange ideas. (WII) To inspire team working. (WII) To inspire team working. (WII) To inspire team working. (WIII) To inspire the CR mark awarded by a committee consisting of the Head of the concerned Department and two senior faculty of Singe discipation in the Guide. Cerporadium for Project Work. (B) Jange discipation: The GR mark awarded for the project work, hall be based on the evaluation of project work, hall be based on the evaluation of project work is and the contang judice; if any, is destrable the Guide. (D) Interdictionary, Continuous Internal Silvation, shall be evaluation of project work, hall be based on the evaluation of project work is and the paraticipation of	21BM751	Biomedical Signal Processing	21BM753	Medical Informatics
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 Seminar Report:50 marks Presentation skill:25 marks Question and Answer: 25 marks. No SEE component for Technical Seminar Non - credit mandatory courses (NCMC): National Service Scheme/Physical Education (Sport and Athletics)/ Yoga: (1) Securing 40 % or more in CIE,35 % or more marks in SEE and 40 % or more in the sum total of CIE + SEE leads to successful completion of the registered course. (2) In case, students fail to secure 35 % marks in SEE, they have to appear for SEE during the subsequent examinations conducted by the University. (3) In case, any student fails to register for NSS, PE or Yoga/fails to secure the minimum 40 % of the prescribed CIE marks, 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 subsequently to earn the qualifying CIE marks subject to the maximum programme period. (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 			11d11.	
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