

MYSORE UNIVERSITY SCHOOL OF ENGINEERING

Scheme of Teaching and Examination 2021-2022 (As per NEP-2020) Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2021–2022)



B.E. in Biomedical and Robotic Engineering [BR]

				III SE	MESTER								
						H	Feachin ours/we	g æk		Exami	nation		
Sl. No	Course (e & Course Code	Course Title	Teaching Dept.	Paper Setting Board	Theory/Lecture	Tutorial	Practical/ Drawing	ation in Hours	l Marks	3 Marks	al Marks	Credits
						L	Т	Р	Dui	CIE	SEF	Toti	
1	BSC	21MAT31	Engineering Mathematics-III	Basic Science	Basic Science	2	2	0	03	50	50	100	3
2	PCC	21BR32	Analog Circuit Design	BM & RE	BM & RE	3	2	0	03	50	50	100	4
3	PCC	21BR33	Digital Circuit Design	BM & RE	BM & RE	3	2	0	03	50	50	100	4
4	PCC	21BR34	Basics of Human Anatomy and Physiology	BM & RE	BM & RE	3	0	0	03	50	50	100	3
5	PCC	21BR35	Fundamentals of Robotics	BM & RE	BM & RE	3	2	0	03	50	50	100	4
6	IPCC	21BRL36	Analog and Digital Circuit Design Lab	BM & RE	BM & RE	0	0	3	03	50	50	100	2
7	CEE	21CIV37	Environmental Studies	CEE	CEE	1	0	0	NA	50	-	50	1
8	UHV	21UHV38	Universal Human Values and Professional Ethics	Basic Science	Basic Science	1	0	0	NA	50	-	50	1
			Total			16	08	03	18	400	300	700	22
NT /	Dag D			a		c ·	1.0	6	DEG D	c ·	1.51	9	
Note OEC Univ	Note: BSC: Basic Science Courses, PCC: Professional Core Courses, IPCC: Integrated Professional Core Courses, PEC: Professional Elective Course, OEC: Open Elective Course, CEE: Civil Environmental Engineering, MP: Mini Project, INT: Internship, AEC: Ability Enhancement Course. UHV: Universal Human Values, HSMC: Humanity, Social Science and Management Courses. NCMC: Non-credit mandatory course.												
	Cou	rse prescrib	ed to lateral entry Dir	oloma holde	rs admitted	to III	semes	ter of]	Engine	ering p	orograi	ns	

10	NCMC	21MATDIP31	Additional Mathematics-1	Basic Science	Basic Science	2	1	0	-	50	-	50	0
11	NCMC	21KANDIP32	Technical Kannada	Basic Science	Basic Science	0	2	0	-	50	-	50	0

(a) The mandatory non - credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE programs, shall attend the classes during the respective semesters to complete all the formalities of the course. 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 F grade. In such a case, the student has to fulfil the requirements during subsequent semester/s.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Credit Definition:

Credit

- Four-credit courses are to be designed for 50 hours of Teaching-Learning process. Three credit courses are to be designed for 40 hours of Teaching-Learning process.
- > 1-hour lecture(L) per week per semester = 1 Credit ≻ > 2-hour tutorial (T) per week per semester = 1 Credit
 - Two credit courses are to be designed for 25 hours of Teaching-Learning process.
- > > > 2-hour Practical/Drawing (P) per week per semester = 1 One credit courses is to be designed for 15 hours of Teaching-Learning process.

AICTE Activity Points to be earned by students admitted to BE/B.Tech., day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry toUoM. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.



MYSORE UNIVERSITYSCHOOLOFENGINEERING

Scheme ofTeachingandExamination2021-2022 (As per NEP-2020) Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effectivefromtheacademicyear2021–2022)



] He	Feachin ours/we	g xek		Exami	nation		
Sl. No	Course (e & Course Code	Course Title	Teaching Dept.	Paper Setting Board	Theory/Lecture	Tutorial	I utorial Practical/ Drawing ation in Hours Marks		ıl Marks	Credits		
						L	Т	Р	Dur	CIE	SEF	Image: Wight of the second s	
1	BSC	21MAT41	Engineering Mathematics- IV	Basic Science	Basic Science	2	2	0	03	50	50	100	3
2	PCC	21BR42	Signal Conditioning and Data Acquisition Circuits	BM & RE	BM & RE	3	2	0	03	50	50	100	4
3	PCC	21BR43	Biomedical Transducers and Instrumentation	BM & RE	BM & RE	3	0	0	03	50	50	100	3
4	IPCC	21BR44	Microcontroller and Embedded Systems	BM & RE	BM & RE	3	0	2	03	50	50	100	4
5	PCC	21BR45	Control Systems	BM & RE	BM & RE	3	2	0	03	50	50	100	4
6	IPCC	21BRL46	Signal Conditioning and Biomedical Transducers Lab	BM & RE	BM & RE	0	0	3	03	50	50	100	2
7	HSMC	21CPH47	Constitution of India, Professional Ethics and Cyber Law	Basic Science	Basic Science	1	0	0	NA	50	-	50	1
8	AEC	21AEC48	Ability Enhance Course-II	BM & RE	BM & RE	1	0	0	NA	50	-	50	1
9	INT	21INT49	Summer Internship-I	(To be carried out during the intervening vacations of IV and V semesters)							-	-	
			Total			16	06	05	18	400	300	700	22

B.E. in Biomedical and Robotic Engineering[BR] IV SEMESTER

Note: BSC: Basic Science Courses, PCC: Professional Core Courses, IPCC: Integrated Professional Core Courses, PEC: Professional Elective Course, OEC: Open Elective Course, MP: Mini Project, INT: Internship, AEC: Ability Enhancement Course. UHV: Universal Human Values, HSMC: Humanity, Social Science and Management Courses. NCMC: Non-credit mandatory course,

Summer Internship-I (21INT59): shall be carried out at industrial (State and Central Government /Non-government organizations (NGOs)/Micro, Small and Medium Enterprise (MSME)/Innovation centers/ Incubation centers. The internship can also be Rural internship. All the students admitted shall have to undergo a mandatory internship of 04 weeks during the intervening vacation of IV and V semesters. A University Viva-Voce examination (Presentation followed by Question & Answer session) shall be conducted during V semester and the prescribed credit shall be included in the V semester. 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 shallbe declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements. (The faculty coordinator or mentor has to monitor the students' internship progress and interact to guide them for the successful completion of the internship.) Summer Internship-I: SEE shall be through seminar and viva-voce.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

		-	• •						0	.	0		
11	NCMC	21MATDIP41	Additional Mathematics-II	Basic Science	Basic Science	02	01	-	-	50	-	50	0
12	NCMC	21ENGDIP42	Technical English	Basic Science	Basic Science	-	2	-	-	50	-	50	0

(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE programs, shall attend the classes during the respective semesters to complete all the formalities of the course. 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 F grade. In such a case, the student has to fulfil the requirements during subsequent semester/s.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Credit Definition:

- > 1-hour lecture(L) per week per semester = 1 Credit
- > 2-hour tutorial (T) per week per semester = 1 Credit
- > 2-hour Practical/Drawing (P) per week per semester = 1 Credit
- Four-credit courses are to be designed for 50 hours of Teaching-Learning process.
 Three credit courses are to be designed for 40 hours of Teaching-Learning process
- Three credit courses are to be designed for 40 hours of Teaching-Learning process.
 Two credit courses are to be designed for 25 hours of Teaching-Learning process.
- One credit courses is to be designed for 15 hours of Teaching-Learning process.



Scheme of Teaching and Examination 2021-2022 (As per NEP-2020) Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2021–2022)



B.E. in Biomedical and Robotic Engineering [BR]

	SEMESTER V												
						Т Но	eachii ours/w	1g eek		Exami	nation		
Sl. No	Course (& Course Code	Course Title	Teaching Dept.	Paper Setting Board	Theory lectures	Tutorial	Practical/ Drawing	umination in Jrs	8 Marks	E Marks	al Marks	Credits
						L	Т	Р	Еха Ноц	CIE	SEI	Tot	
1	HSMC	21BR51	Management and Entrepreneurship	BM & RE	BM & RE	3	0	0	03	50	50	100	3
2	IPCC	21BR52	Digital Signal Processing	BM & RE	BM & RE	3	0	2	03	50	50	100	4
3	PCC	21BR53	Biomedical Instrumentation	BM & RE	BM & RE	3	0	0	03	50	50	100	3
4	IPCC	21BR54	Robot Programming	BM & RE	BM & RE	3	0	2	03	50	50	100	4
5	5 PEC 21BR55X Professional Elective -1 BM & RE BM & RE 3 0 0 03 50 50 100										3		
6	OEC	21BR56X	Open Elective -A	BM & RE	BM & RE	3	0	0	03	50	50	100	3
7	AEC	21BRL57	Programming in Matlab	BM & RE	BM & RE	0	0	2	NA	50	-	50	1
8	PCC	21BRL58	Biomedical Instrumentation Lab	BM & RE	BM & RE	0	0	4	03	50	50	100	2
9	INT	21INT59	Summer Internship-I	Completed du	iring the vacation	n of IV aı	nd V se	mesters	NA	50	-	50	1
	Total 18 00 10 24 450 350 800 24												
Note Profe	Note: HSMC: Humanity, Social Science and Management Courses, PCC: Professional Core Courses, IPCC: Integrated Professional Core Courses, PEC: Professional Elective Course, OEC: Open Elective Course, MP: Mini Project, INT: Internship, AEC: Ability Enhancement Course.												
				Professional	Elective-1 (21B	BR55X)							
Cour	se Code	Course	Fitle										
2	1BR551	Commun	ecognition										
2	21BR553	Hospital I	Design, Planning, and Mar	nagement									
2	21BR554	Embedde	d System Design										
				Open Ele	ective-A (21BR5	6X)							
2	1BR561	Fundame	ntals of Biomedical Trans	ducers and Medi	cal Instrumentat	ion							
2	21BR562	Biosafety	and Healthcare	•									
2	21BR564	Fundame	ntals of Robotics and its P	irtual Reality									
	Ibiteot	Pulluamen	intais of Augmented and V		E			L. J!-	1 6	50 1	f T	-1-1 T	
Cred > 1-h > 2-h 2-h	it Definition nour lecture nour tutorial our Practica	<pre>Definition: (L) per week p (T) per week p al/Drawing (P)</pre>	er semester = 1 Credit per semester = 1 Credit per week per semester = 1	Credit	Four-credit c process. Three credit process. Two credit co One credit con	courses a courses urses are urses are	are to are to to be d to be d	be designed for the des	ned for gned for for 25 hou or 15 hou	40 hour 40 hour urs of Tea urs of Tea	s of Tea s of Tea aching-Le aching-Le	ching-Le ching-Le earning p earning p	earning earning rocess. rocess.
Stude Selec Regi	Students can select any one of the open electives offered by any Department. Selection of an open elective is not allowed provided, • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor.												



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B.E. in Biomedical and Robotic Engineering [BR]

	SEMESTER VI												
						T Ho	eachir ours/wo	ig eek		Exam	nination		
Sl. No	Course (& Course Code	Course Title	Teaching Dept.	Paper Setting Board	Theory lectures	Tutorial	Practical/ Drawing	mination in urs	Marks	Marks	al Marks	Credits
						L	Т	Р	Exa Hou	CIE	SEE	Tota	
1	IPCC	21BR61	Digital Image Processing	BM & RE	BM & RE	3	0	2	03	50	50	100	4
2	PCC	21BR62	Python for System Programming	BM & RE	BM & RE	3	0	0	03	50	50	100	3
3	PCC	21BR63	IoT and Smart Sensors	BM & RE	BM & RE	3	0	0	03	50	50	100	3
4	PEC	21BR64X	BM & RE	3	0	0	03	50	50	100	3		
5	OEC	21BR65X	Open Elective –B	Any Dept.	Any Dept.	3	0	0	03	50	50	100	3
6	HSMC	21BR66	Research Methodology and Intellectual Property Rights	BM & RE	BM & RE	3	0	0	03	50	50	100	3
7	PCC	21BRL67	Python for System Programming Lab	BM & RE	BM & RE	0	0	4	03	50	50	100	2
8	MP	21BRMP68	Mini Project	BM & RE	BM & RE	0	0	2	NA	50	-	50	1
	Total 18 00 06 21 400 350 750 22										22		
Note: Profe	: HSMC: H ssional Ele	Iumanity, Soci ctive Course, O	al Science and Management DEC: Open Elective Course, M	Courses, PCC IP: Mini Project	C: Professional ct, INT: Interns	l Core C ship, AE0	lourses, C: Abili	IPCC: I ity Enhan	ntegrated	d Profess Course.	ional Co	re Courses	, PEC:
				Professional I	Elective-2 (21)	BR64X)							
Cour	se Code	Course T	litle										
2	.1BR641	Rehabilita	ition Engineering										
2	1BR642	Drives and	d Control of Robots										
2	1BR045	Medical F	LSI Design										
	IDR044	Wiedical L	resign regulation and safety	Open Elec	tive-B (21BR	65X)							
2	1BR651	Fundamer	ntals of Bio-MEMS)							
2	1BR652	Wearable	Devices										
2	1BR653	Robotic N	Iotion Control and Path Plann	ing									
2	1BR654	Basics of	Embedded System Design										
Stude	ents can sele	ect any one of the	he open electives offered by a	ny Department	t.								
Seice	• The c	andidate has st	udied the same course during	the previous se	emesters of the	program	nme.						
	 The syllabus content of open elective is similar to that of Departmental core courses or professional electives. 												
Dogi	A similar course, under any category, is prescribed in the higher semesters of the programme. Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor												
Mini	Mini-project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini project												
can b	and project work. Based on the ability/abilities of the student's and recommendations of the mentor, a single discipline of a multidisciplinary with project can be assigned to an individual student or to a group having not more than 4 students.												
CIE	procedure	for Mini proje	ect:										

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be 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 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 college. 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 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 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.

Summer Internship-II: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. 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 subsequent University examination after satisfying the internship requirements



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B.E. in Biomedical and Robotic Engineering [BR]

	VII-SEMESTER												
						T Ho	eachii) urs/W	ng Teek		Exam	ination		
Sl No	Course (& Course Code	Course Title	Teaching Dept.	Paper Setting Board	Theory lectures	Tutorial	Practical/ Drawing	mination in Irs	. Marks	3 Marks	al Marks	Credits
						L	Т	Р	Exa Hou	CIE	SEI	Tot	
1	PCC	21BR71	Biomedical DSP	BM & RE	BM & RE	3	0	0	03	50	50	100	3
2	PCC	21BR72	Artificial Intelligence and Machine Learning for Health Care	BM & RE	BM & RE	3	0	0	03	50	50	100	3
3	PEC	21BR73X	Professional Elective – 3	BM & RE	BM & RE	3	0	0	03	50	50	100	3
4	PEC	21BR74X	Professional Elective – 4	BM & RE	BM & RE	3	0	0	03	50	50	100	3
5	PCC	21BRL75	Biomedical DSP Lab	BM & RE	BM & RE	0	0	2	03	50	50	100	1
6	Project	21BRP76	Project Work Phase - 1	BM & RE	BM & RE	0	2	2	00	100	-	100	2
7	AEC	21AEC77	Ability Enhancement Course-III	BM & RE	BM & RE	1	0	0	NA	50	-	50	1
8	INT	21INT78	Summer Internship-II	(If not completed during the vacation of VI and VII Semesters, it has to be carried out during the intervening vacations of VII and VIII Semesters)									rried
			Total			13	02	04	15	400	250	650	16
Note	PCC: Pro	fessional Core	Courses, PEC: Professional El	lective Course,	, INT: Internshi	ip, AEC:	Ability	y Enhance	ement Co	ourse.			
				Profess	ional Elective	-3							
Cour	se Code	Course '	Title										
2	21BR731	Scientific	and Analytical Instrumentation	on									
2	21BR732	Database	Management System in Healt	h Care									
2	21BR733	Medical 1	Imaging System										
2	21BR734	Biomater	ials and Artificial Organs										
				Profess	ional Elective	-4							
2	21BR741	Bio-MEN	AS										
2	21BR742	Compute	r Communication Network in	Health Care									
2	21BR743	Augment	ed and Virtual Reality Develo	pment in Healt	th Care								
2	21BR744	Medical I	Robots										
D .			1 *1*. / 1 *1*.* 0 .1	· 1	1.2	1 .			• 1•	• •		<u> </u>	
Proie	ect work:	Based on the a	ability/abilities of the student	s and recomm	aendations of t	the ment	orasi	ingle disc	inline or	· a multi	discipling	irv project	can be

Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), 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.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 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.

Internship: All the students admitted to III year of BE/B.Tech. shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. 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 subsequent University examination after satisfying the internship requirements



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B.E. in Biomedical and Robotic Engineering [BR]

				VIII-	SEMEST	ER							
						T Ho	eachir urs/W	ig eek		Exan	nination		
Sl. No	Course of Co	& Course ode	Course Title	Teaching Dept.	Paper Setting Board	Theory lectures	Tutorial	Practical/ Drawing	mination in rs	Marks	Marks	ıl Marks	Credits
						L	Т	Р	Exa Hou	CIE	SEF	Tota	
1	Project	21BRP81	Project Work Phase-2	BM & RE	BM & RE	Two contact hours/ week for interaction between the faculty and students.			-	100	100	200	8
2	Seminar	21BRS82	Technical Seminar	BM & RE	BM & RE	One c week f betwe and	contact for inter en the f d studer	Hour/ raction faculty nts.	-	100	-	100	2
3	INT	21INT83	Summer Internship-II	(Completed d VI and VII	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII - 100 - 100								4
Total seme									-	300	100	400	14

Note: INT: Internship

Project Work CIE procedure for Project Work Phase - 2:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 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.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 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.

SEE for Project Work Phase - 2:

(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).