		National Institute o		nology	Raip	ur						
		Course of Study and Scheme of Examination					B. Te	ech. 5	th Seme	ster	Biomedic	al Engg.
	Subject		Perio	ds per	Week		Exa	minati	ion Sch	eme	Total	
S. No		Code Subject Name		-	ТР	TA	MSE/MTR		ESE/ESVE		Marks	Credits
	Code		-				Theory	Prac.	Theory	Prac.	Marks	i l
1	BM105111BM	Microcontrollers	3	1	0	20	30		50		100	4
2	BM105112BM	Medical Imaging	3	1	0	20	30		50		100	4
3	BM105113BM	Biomedical Equipments	3	1	0	20	30		50		100	4
4	BM10521XBM	Program Elective I	3	0	0	20	30		50		100	3
5	BM10531YBM	Open Elective I	3	0	0	20	30		50		100	3
6	BM105405BM	Microprocessor and Microcontroller Lab	0	0	2	40		20		40	100	1
7	BM105406BM	Biomedical Equipments Lab	0	0	2	40		20		40	100	1
8	BM105701BM	Summer Internship I										1
												21

		National Institute	of Tech	nology	/ Raip	ur						
		Course of Study and Scheme of Examination					B. Te	ch. 6	th Seme	ster	Biomedica	al Engg.
	Subject		Perio	is per	Week		Exa	minati	on Sche	eme	Total	
S. No	Code	Subject Name		-	Р	TA	MSE/	MTR	ESE/I	SVE	Marks	Credits
	Code		-	٠.	P		Theory	Prac.	Theory	Prac.	Marks	
1	BM106114BM	Biomaterials	3	1	0	20	30		50		100	4
2	BM106115BM	Microelectronics and Integrated Circuits	3	1	0	20	30		50		100	4
3		Telemedicine	3	1	0	20	30		50		100	4
4		Program Elective II	3	0	0	20	30		50		100	3
5	BM10632YBM	Open Elective II	3	0	0	20	30		50		100	3
6	BM106407BM	Biomaterials Lab	0	0	2	40		20		40	100	1
7	BM106408BM	Microelectronics and Integrated Circuits Lab	0	0	2	40		20		40	100	1
												20

Г			National Institute o	f Tech	nology	Raip	ur						
Г			Course of Study and Scheme of Examination					B. Te	ech. 7	th Seme	ster	Biomedica	al Engg.
Г		Subject	Subject Subject Name	Period	ls per	Week		Examinati MSE/MTR		ion Scheme		Total Marks	
S	No.			L	Т	٥	TA			ESE/ESVE			Credits
		coue						Theory	Prac.	Theory	Prac.	marks	
			Tissue Engineering	3	1	0	20	30		50		100	4
			Program Elective III	3	0	0	20	30		50		100	3
			Program Elective IV	3	0	0	20	30		50		100	3
	4	BM10733YBM	Open Elective III	3	0	0	20	30		50		100	3
	5	BM107501BM	Project Work	0	0	8	40		20		40	100	4
	6	BM107409BM	Tissue Engineering Lab	0	0	2	40		20		40	100	1
Г	7	BM107702BM	Summer Internship II										2
													20

			National Institute o	of Tech	nology	Raip	ur							
Г			Course of Study and Scheme of Examination					B. Te	ch. 8	th Seme	ster	Biomedica	al Engg.	
Г				Period	ls per	Week		Examination Scheme			eme	Total		
s.	No.	Subject Code	Subject Name		т	т	В	D	TA	MSE/MTR ESE/E		SVE	Marks	Credits
		Code		-	٠.	P		Theory	Prac.	Theory	Prac.	marks		
			Program Elective V	3	0	0	20	30		50		100	3	
	2	BM10826XBM	Program Elective VI	3	0	0	20	30		50		100	3	
			Open Elective IV	3	0	0	20	30		50		100	3	
	4	BM10835YBM	Open Elective V	3	0	0	20	30		50		100	3	
													12	

Eight Semester for Students undergoing Major Internship

		National Institute	of Tech	nology	Raip	ır						
		Course of Study and Scheme of Examination					B. Te	ch. 81	th Seme	ster	Biomedica	al Engg.
	Cubdaat		Perio	is per	Week		Exam	ninati	on Sch	eme	Total	
S. No	Subject Code	Subject Name		-	Р	TA	MSE/	MTR	ESE/I	ESVE	Marks	Credits
	code		_	٠.	P		Theory	Prac.	Theory	Prac.	Marks	
1		Open Elective IV	3	0	0	20	30		50		100	3
2	BM10835YBM	Open Elective V	3	0	0	20	30		50		100	3
3	BM108703BM	Major Internship										6
												12

	List of Programme Elective I
BM105211BM	Physiological Systems and Modeling
BM105212BM	Artificial Intelligence
BM105213BM	Flexible Elective as per Industry/Academic need
	List of Open Electives I
BM105311BM	Analytical and Diagnostic Medical Equipments
BM105312BM	Computational Biomechanics

	List of Programme Elective II
BM106221BM	Sports Biomechanics
BM106222BM	Principles of Communication
BM106223BM	Database Management System
	List of Open Electives II
BM106321BM	Advanced Biosignal Processing
BM106322BM	Biomicrofluidics

	List of Programme Elective III
BM107231BM	Rehabilitation Engineering
BM107232BM	Medical Image Processing
BM107233BM	Flexible Elective as per Industry/Academic need
	List of Program Electives IV
BM107241BM	Biochemistry
BM107242BM	Basic Clinical Science
	List of Open Electives III
BM107331BM	Lab-on-chip Devices
BM107332BM	Biophotonics
BM107333BM	Biostatics

	List of Programme Elective V
BM108251BM	Artificial Organs
BM108252BM	Embedded and Real time systems
BM108253BM	Patient and Device Safety
	List of Program Electives VI
BM108261BM	Bioinformatics
BM108262BM	BioMEMS
BM108263BM	Optical Fiber and Laser in Medicine
	List of Open Electives IV
BM108341BM	Biofluid Dynamics
BM108342BM	Drug delivery Systems
	List of Open Electives V
BM108351BM	3D Printing Technology
BM108352BM	Healthcare Management