Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Cre	edits	No	orm	Evalua	tion (%)
Coue			III'S/WEEK	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 1										
MA1013	Mathematics	С	3	1/1	3.0				20	80
CS1032	Programming Fundamentals	С	2	3/1	3.0				20	80
ME1032	Mechanics	C	2	3/4	2.0				20	80
MT1022	Properties of Materials	C	2	3/4	2.0				20	80
CE1022	Fluid Mechanics	C	2	3/4	2.0				20	80
EE1013	Electrical Engineering	C	2	3/4	2.0				20	80
EL1012	Language Skill Enhancement I	C	-	3/1	1.0		15.0		20	80
MN1012	Engineering in Context	С	1	-		1.0		1.0	30	70
			Total	for Semester 1			15.0	1.0		

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Cre	edits	No	orm	Evaluation (%)	
				hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 2										
MA1023	Methods of Mathematics	С	3	1/1	3.0				30	70
BM1011	Engineering in Medicine and Biology	C	1	3/1		2.0			100	-
EN1013	Electronics – I	C	3	-	3.0				30	70
EN1053	Introduction to Telecommunications	C	3	-	3.0				30	70
EN1060	Signals and Systems	C	3	-	3.0				30	70
EN1093	Laboratory Practice – I	C	-	9/1	3.0				100	-
EN1970	Communication Skills	C	1	3/1	2.0		17.0	2.0	100	-
MN1030	Entrepreneurship Skill Development (continued in S3)	0	0.5	3/2		1.0			70	30
			Total	for Semester 2			17.0	2.0		

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Cre	dits	No	orm	Evaluat	ion (%)
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 3										
MA2013	Differential Equations	C	2	-	2.0				30	70
MA2023	Calculus	С	2	-	2.0				30	70
BM2011	Human Anatomy and Physiology I	С	3	-	3.0				30	70
EN2013	Electronics – II	С	3	-	3.0				40	60
EN2040	Random Signals and Processes	С	2	-	2.0				30	70
EN2030	Fundamentals of Computer Organization and Design	С	3	-	3.0				50	50
EN2090	Laboratory Practice – II	С	-	9/1	3.0				100	-
EE2093	Theory of Electricity	С	2	-	2.0		20.0		30	70
ME1822	Basic Engineering Thermodynamics	Е	1.5	3/2	2.0				30	70
ME2122	Engineering Drawing and Computer Aided Modelling	Е	2	3/1	3.0		2.0		100	0
EN2532	Robot Design and Competition	0	1.5	3/1	2.5				60	40
MN1030	Entrepreneurship Skill Development (continued from S2)	0	0.5	3/2		1.0			70	30
			Total	for Semester 3			22.0			

Module			Lectures	Lab/	Cre	edits	No	orm	Evaluati	on (%)
Code	Module Name	Category	hrs/week	Assignments hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 4										
MA2033	Linear Algebra	С	2	-	2.0				30	70
BM2020	Human Anatomy and Physiology II	С	2	3/2	2.5				30	70
BM2101	Analysis of Physiological Systems	С	2	3/1	3.0				40	60
BM2900	Field Visit	С	_	_		1.0			100	-
EN2110	Electronics – III	С	3	3/1	4.0				40	60
EN2083	Electromagnetics	С	3	3/1	4.0				40	60
EN2570	Digital Signal Processing	С	2	3/1	3.0		18.5	1.0	40	60
EN2550	Fundamentals of Image Processing and Machine Vision	Е	2	3/1	3.0				40	60
EN2560	Internet of Things Design and Competition	E	1	<mark>3/1</mark>	<mark>2.0</mark>				<mark>70</mark>	<mark>30</mark>
CS2022	Data Structures and Algorithms	Е	2.0	3/2	2.5				40	60
CS2832	Modular Software Development	Е	2.0	3/2	2.5				50	50
MA2053	Graph Theory	Е	2.0	_	2.0		2.0		30	70
MN2010	Entrepreneurial Leadership	0	1.5	3/2	2.0				50	50
			Total	for Semester 4			20.5	1.0		

Module	Module Name	Category	Lectures	Lab/ Assignments	Cre	edits	No	orm	Evaluat	ion (%)
Code			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	Evaluat CA 40 50 40 40 40 30 30 30 30 30 30 30 30 30 3	WE
Semester 5										
BM3121	Medical Imaging	C	3	3/1	4.0				40	60
EN3030	Circuits and Systems Design	C	3	3/1	4.0				50	50
EN3143	Electronic Control Systems	C	2	3/1	3.0		11.0		40	60
EN3023	Electronic Design Realization	E	2	3/1	3.0				40	60
CS3032	Computer Networks	Е	2	3/1	3.0		3.0		40	60
MA3013	Applied Statistics	Е	2	-	2.0				30	70
MA3023	Numerical Methods	Е	2	-	2.0		2.0		30	70
MN3042	Business Economics & Financial Accounting	Е	3	-	3.0				30	70
MN3052	Industrial Management & Marketing	Е	2.5	3/2	3.0		3.0		30	70
MN3010	Multidisciplinary Design, Innovation and	0	15	2/2	2.0				50	50
	Venture Creation	0	1.5	3/2	2.0				50	50
	•		Total	for Semester 5			19.0	-		
Industrial T	Fraining			*						
BM3990	Industrial Training	C	-	-		6.0		6.0	100	-
	-	T	otal for Indi	strial Training				6.0		
Semester 6										
BM3180	Scientific Communications for BME	C	1	3/1	2.0				100	-
BM3190	Biostatistics and Ethics for BME	С	-	3/1		1.0			100	-
EN3900	Seminar	Е	2	-		2.0	2.0	3.0	100	-
DE1XXX	Humanities Electives I	Е	2	-	2.0					
DE2XXX	Humanities Elective II	Е	2	-	2.0		4.0			
EN3110	Electronic Devices	Е	2	3/1	3.0				40	60
EN3240	Embedded Systems Engineering	Е	2	3/1	3.0				100	-
EN3532	Electronic Instrumentation	Е	2	3/1	3.0				50	50
EN3370	Traffic Engineering	Е	2	3/1	3.0		1		50	50
EN3210	Self Initiated Innovation	Е	_	-	3.0		1		100	-
EN3250	Internet of Things	E	2	3/1	3.0		3.0		<mark>50</mark>	<mark>50</mark>
		· <u> </u>	Total	for Semester 6			9.0	3.0		

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments		edits		orm	Evaluat	. ,
			III S/ WCCK	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 7	1		1		1	1		1		
BM4200	Research Project*	C	-	-	4.0				100	
BM4111	Medical Electronics & Instrumentation	C	2	3/1	3.0		7.0		50	50
BM4151	Biosignal Processing	E	2	3/1	3.0				50	50
BM4301	Medical Image Processing	E	2	3/1	3.0				50	50
BM4321	Genomic Signal Processing	E	2	3/1	3.0		3.0		50	50
<mark>EN4020</mark>	Advanced Digital Systems	E E	<mark>2</mark>	<mark>3/1</mark>	<mark>3.0</mark>				<mark>100</mark>	<mark> -</mark> '
<mark>EN3370</mark>	Traffic Engineering	<mark>E</mark>	<mark>2</mark>	<mark>3/1</mark>	<mark>3.0</mark>				<mark>50</mark>	<mark>50</mark>
EN4603	Digital IC Design	E	2	3/1	3.0				50	50
EN4213	Power Electronics	E	2	3/1	3.0				50	50
EN4553	Machine Vision	E	2	3/1	3.0				50	50
EN4563	Robotics	E	2	3/1	3.0		A^\dagger		50	50
MA4013	Linear Models and Multivariate Statistics	E	3	-	3.0				30	70
MA4033	Time Series and Stochastic Processes	E	3	-	3.0				30	70
MA4023	Operational Research	Е	3	-	3.0				30	70
MA4043	Neural Network and Fuzzy Logic	Е	3	-	3.0		3.0		30	70
MN4150	Project Management	Е	2	-	2.0				50	50
MN4062	Organizational Behaviour and Management	E	2	-	2.0				30	70
MN4132	Consumer and Industrial Marketing	E	2	-	2.0				30	70
MN4122	Human Resource Management and Industrial Relations	Е	2	_	2.0				30	70
MN4042	Technology Management	Е	2	-	2.0				30	70
MN4022	Engineering Economics	Е	2	-	2.0				30	70
MN4030	Strategic Enterprise Management	Е	1.5	3/2	2.0				40	60
MN3020	Entrepreneurship Business Basics	Е	2	3/1	3.0		2.0		50	50

Module	Module Name	Category	Lectures	Lab/ Assignments	Cr	redits	No	orm	Evaluat	ion (%)
Code	Wiodule Ivalle	Category	hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 8					•					
BM4200	Research Project*	С	_	-	6.0		6.0		100	-
BM4500	Biomechanics	E	2	3/2	2.5				50	50
BM4521	Rehabilitation Engineering	E	2	3/2	2.5				40	60
BM4600	Biomaterials	E	2	3/2	2.5				40	60
BM4620	Biotechnology	E	2	3/2	2.5		2.5		30	70
EN4233	Industrial Electronics and Automation	E	2	3/1	3.0				50	50
EN4283	Electronics Application in Renewable Energy	E	2	3/1	3.0				50	50
EN4430	Analog IC Design	E	2	3/1	3.0				50	50
EN4333	Microwave Engineering	E	2	3/1	3.0				50	50
EN4393	Information Theory	E	2	3/1	3.0				40	60
EN4403	Mobile Computing	E	2	3/1	3.0				70	30
EN4420	Advanced Signal Processing	E	2	3/1	3.0				50	50
EN4573	Pattern Recognition and Machine Intelligence	E	2	3/1	3.0				50	50
EN4583	Advances in Machine Vision	E	2	3/1	3.0				50	50
EN4593	Autonomous Systems	E	2	3/1	3.0		B^{\dagger}		40	60
MA4013	Linear Models and Multivariate Statistics	E	3.0	-	3.0				30	70
MA4033	Time Series and Stochastic Processes	E	3.0	-	3.0				30	70
MA4023	Operational Research	E	3.0	-	3.0				30	70
MA4053	Numerical Analysis for Scientific Computing	E	3.0	-	3.0		3.0		30	70

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Cro	edits	No	orm	Evalua	tion (%)
Code			III's/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 8 (Cont)									
MN4122	Human Resource Management and Industrial	Е	2.0		2.0				30	70
	Relations	E	2.0	-	2.0				50	70
MN4042	Technology Management	E	2.0	-	2.0				30	70
MN4072	Small Business Management and	Е	2.0		2.0				30	70
	Entrepreneurship	E	2.0	-	2.0				50	70
MN4022	Engineering Economics	E	2.0	-	2.0				30	70
MN4150	Project Management	E	2.0	-	2.0				50	50
MN4092	Management Skills Development	Е	2.0	-	2.0				30	70
MN4112	Production and Operations Management	Е	2.0	-	2.0				30	70
MN4010	Business Plan Development	Е	1.5	3/2	2.0				70	30
MN4170	Global Entrepreneurship	Е	1.5	3/2	2.0		2.0		40	60
		and Semester 8			34.5	-				
	Total for the Program	ne					137	13		

* - A total of 10 credits for Research Project over Semester 7 and Semester 8. † - A total of 6.0 credit over Semester 7 and Semester 8 from technical electives (A+B = 6.0)

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Module Line up for Entrepreneurship Minor

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Cr	Credits No		orm	(%)	
Cout			III 5/ WCCK	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
MN1030	Entrepreneurship Skill Development	С	1.0	3/1		2.0		2.0	70	30
MN2010	Entrepreneurial Leadership	C	1.5	3/2	2.0		2.0		50	50
MN3010	Multidisciplinary Design, Innovation and Venture Creation	C	1.5	3/2	2.0		2.0		50	50
MN3020	Entrepreneurship Business Basics	С	2.0	3/1	3.0		3.0		50	50
MN4010	Business Plan Development	С	1.5	3/2	2.0		2.0		70	30
MN4022	Engineering Economics	Е	2.0	-	2.0				30	70
MN4042	Technology Management	Е	2.0	-	2.0				30	70
MN4112	Production and Operations Management	Е	2.0	-	2.0				30	70
MN4030	Strategic Enterprise Management	Е	1.5	3/2	2.0				40	60
MN4170	Global Entrepreneurship	Е	1.5	3/2	2.0		2.0		40	60
			Total for	r all Semesters			11.0	2.0		

Modules Offered to Other Fields of Specialization

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Cr	edits	Evalu (%	
Coue			hrs/week	hrs/weeks	Credits GPA NGPA		CA	WE
Semester 4								
BM2800	Introduction to Biomedical Engineering	Е	2	-	2.0		40	60