Electronic and Telecommunication Engineering Specialization Department of Electronic and Telecommunication Engineering

Module Code	Module Name	Category	Lectures brs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)	
			III'S/WEEK	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 3										
MA2013	Differential Equations	C	2	18	2.0	United States		-	30	70
MA2023	Calculus	C	2		2.0				30	70
EN2013	Electronics – II	С	3	72	3.0				40	60
EN2040	Random Signals and Processes	С	2 .	i e	2.0				30	70
EN2053	Communication Systems and Networks	С	3	(#.	3.0				40	60
EN2030	Fundamentals of Computer Organization and Design	С	3	12	3.0				50	50
EN2090	Laboratory Practice – II	С	L	9/1	3.0				100	20
EE2093	Theory of Electricity	С	2	189	2.0		20.0		30	70
EN2532	Robot Design and Competition	Е	1.5	3/1	2.5				60	40
ME1822	Basic Engineering Thermodynamics	Е	1.5	3/2	2.0				30	70
ME1090	Engineering Drawing and Computer Aided Modelling	Е	2.0	3/1	3.0		2.0		100	
MN1030	Entrepreneurship Skill Development (continued from S2)	0	0.5	3/1		1.0			70	30
			Total	for Semester 3			22.0			

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34 3 1	Module Name		Lectures hrs/week	Lab/ Assignments hrs/weeks	Cre	edits	Norm		Evaluation (%	
Module Code		Category			GPA	NGPA	GPA	NGPA	CA	WE
Semester 4	•									
MA2033	Linear Algebra	C	2	-	2.0				30	70
EN2110	Electronics – III	С	3	3/1	4.0				40	60
EN2073	Analog and Digital Communications	C	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		17.0		40	60
EX12550	Fundamentals of Image Processing and	Е	2	3/1	3.0				40	60
EN2550	Machine Vision	E	2	3/1	5.0				40	
EN2560	Internet of Things Design and Competition	Е	1	3/1	2.0				70	30
BM2800	Introduction to Biomedical Engineering	Е	2	28	2.0				40	60
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
EE2023	Electrical Machines and Drives I	Е	2.0	(E	2.0				30	70
MA2053	Graph Theory	Е	2.0	:4	2.0		4.0		30	70
MN2010	Entrepreneurial Leadership	0	1.5	3/2	2.0				50	50
	-		Total	for Semester 4			21.0			

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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (
			hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 5							W100 C 00			
EN3023	Electronic Design Realization	C	2	3/1	3.0	C U			40	60
EN3030	Circuits and Systems Design	С	3	3/1	4.0				50	50
EN3053	Digital Communications – I	C	3	3/1	4.0	Hillante	mina ig-	6764	40	60
EN3143	Electronic Control Systems	С	2	3/1	3.0				40	60
CS3032	Computer Networks	С	2	3/1	3.0		17.0		40	60
MA3013	Applied Statistics	Е	2	Sec. 1	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 Venture Creation	0	1.5	3/2	2.0				50	50
			Total	for Semester 5			22.0			
Industrial	Training									
EN3992	Industrial Training	C	=	=:		6.0		6.0	100	-
		T	otal for Indu	strial Training				6.0		
Semester 6										
EN3900	Seminar	С	2	+		2.0		2.0	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
EN3223	Electronic Manufacturing Systems	Е	2	3/1	3.0				50	50
EN3240	Embedded Systems Engineering	Е	2	3/1	3.0				100	-
EN3250	Internet of Things	Е	2	3/1	3.0		3.0		50	50
EN3370	Traffic Engineering	Е	2	3/1	3.0				50	50
EN3532	Electronic Instrumentation	Е	2	3/1	3.0			1	50	50
EN3210	Self Initiated Innovation	E	Te I	-	3.0				100	100
			Total	for Semester 6			7.0	2.0		

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Module	Module Name	Category	Lectures	Lab/ Assignments	Credits		Norm		Evaluation (%	
Code	Module Ivame	Category	hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 7										
EN4202	Project*	С	:+:		4.0		4.0		100	02
EN4820	Ethics and Legal Fundamentals	C	1	(-	1.0		1.0		40	60
EN4932	Technical & Scientific Writing	С	1/2	3/2	92	1.0		1.0	100	
EN3370	Traffic Engineering	Е	2	3/1	3.0				50	50
EN4020	Advanced Digital Systems	Е	2	3/1	3.0				100	· · · · ·
EN4603	Digital IC Design	Е	2	3/1	3.0				50	50
EN4213	Power Electronics	Е	2	3/1	3.0				50	50
EN4053	Digital Communications II	Е	2	3/1	3.0				50	50
EN4313	Telecommunication Core Networks	Е	2	3/1	3.0				50	50
EN4363	Microwave Communication	Е	2	3/1	3.0				50	50
EN4553	Machine Vision	Е	2	3/1	3.0				50	50
EN4563	Robotics	Е	2	3/1	3.0				50	50
EN4922	Research Project**	Е	:=:		2.5				100	-
BM4111	Medical Electronics and Instrumentation	Е	2	3/1	3.0				50	50
BM4301	Medical Image Processing	Е	2	3/1	3.0				50	50
BM4321	Genomic Signal Processing	Е	2	3/1	3.0		A^{\dagger}		50	50
MA4013	Linear Models and Multivariate Statistics	Е	3	-	3.0				30	70
MA4033	Time Series and Stochastic Processes	Е	3	-	3.0				30	70
MA4023	Operational Research	E	3	=	3.0				30	70
MA4043	Neural Network and Fuzzy Logic	Е	3	6"	3.0		3.0		30	70
MN4150	Project Management	Е	2	-	2.0				50	50
MN4062	Organizational Behaviour and Management	E	2	57	2.0				30	70
MN4132	Consumer and Industrial Marketing	Е	2		2.0				30	70
MN4122	Human Resource Management and Industrial Relations	Е	2	-	2.0				30	70
MN4042	Technology Management	Е	2	=6	2.0				30	70
MN4022	Engineering Economics	Е	2	48	2.0				30	70
MN4030	Strategic Enterprise Management	Е	1.5	3/2	2.0		2.0		40	60

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 MN3020
 Entrepreneurship Business Basics
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Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%	
			III S/WEEK	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 8										
EN4202	Project*	С	<u> </u>		6.0		6.0		100	-
EN4233	Industrial Electronics and Automation	Е	2	3/1	3.0				50	50
EN4283	Electronics Application in Renewable Energy	Е	2	3/1	3.0			1	50	50
EN4430	Analog IC Design	Е	2	3/1	3.0				50	50
EN4323	Optical Fibre Communications	Е	2	3/1	3.0			1	50	50
EN4333	Microwave Engineering	Е	2	3/1	3.0				50	50
EN4353	Radar and Navigation	Е	2	3/1	3.0			-	50	50
EN4383	Wireless and Mobile Communications	Е	2	3/1	3.0			1	50	50
EN4393	Information Theory	Е	2	3/1	3.0			1	40	60
EN4403	Mobile Computing	Е	2	3/1	3.0			-	70	30
EN4420	Advanced Signal Processing	Е	2	3/1	3.0			-	50	50
EN4573	Pattern Recognition and Machine Intelligence	Е	2	3/1	3.0				50	50
EN4583	Advances in Machine Vision	Е	2	3/1	3.0			-	50	50
EN4593	Autonomous Systems	Е	2	3/1	3.0				40	60
EN4922	Research Project**	Е		371	2.5		B^{\dagger}		100	-

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Module	Module Name	Category	Lectures	Lab/ Assignments	Credits		Norm		Evaluation (%)	
Code	A Todale A tame	ouriger,	hrs/week	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
Semester 8 (Cont)									
MA4013	Linear Models and Multivariate Statistics	E	3.0	72	3.0				30	70
MA4033	Time Series and Stochastic Processes	Е	3.0		3.0				30	70
MA4023	Operational Research	Е	3.0	3.5	3.0				30	70
MA4053	Numerical Analysis for Scientific Computing	Е	3.0		3.0		3.0		30	70
MN4122	Human Resource Management and Industrial Relations	Е	2.0	~	2.0				30	70
MN4042	Technology Management	Е	2.0	.e	2.0				30	70
MN4072	Small Business Management and Entrepreneurship	Е	2.0	-2	2.0				30	70
MN4022	Engineering Economics	Е	2.0	-	2.0				30	70
MN4150	Project Management	Е	2.0	E.	2.0				50	50
MN4092	Management Skills Development	Е	2.0	12	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
		Total for	Semester 7	and Semester 8			33.0	1.0		
	Total for the Programs	me					137	13		

- A total of 10 credits for Project over Semester 7 and Semester 8.
- A total of 5 credits for Research Project over Semester 7 and Semester 8.
- A total of 12.0 credit over Semester 7 and Semester 8 from technical electives (A+B=12.0)

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Module Lineup for Entrepreneurship Minor

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments	Credits		Norm		Evaluation (%)		
Cour				III S/ WCCK	hrs/weeks	GPA	NGPA	GPA	NGPA	CA	WE
MN1030	Entrepre	neurship Skill Development	С	1.0	3/1	- A	2.0	1-1-1-	2.0	70	30
MN2010	Entrepreneurial Leadership		С	1.5	3/2	2.0	NI 0-1-24	2.0		50	50
MN3010	Multidiso Creation	ciplinary Design, Innovation and Venture	С	1.5	3/2	2.0		2.0		50	50
MN3020	Entrepre	neurship 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	Engineer	ing Economics	Е	2.0	*	2.0				30	70
MN4042	Technolo	ogy Management	Е	2.0		2.0				30	70
MN4112	Productio	on and Operations Management	Е	2.0	<u> </u>	2.0				30	70
MN4030	Strategic	Enterprise Management	Е	1.5	3/2	2.0				40	60
MN4170	Global E	ntrepreneurship	Е	1.5	3/2	2.0		2.0		40	60
				Total for	all Semesters			11.0	2.0		

Modules Offered to Other Fields of Specialization

Module Code	Module Name	Category	Lectures	Lab/ Assignments	Credits		Evaluation (%)	
Code			hrs/week	hrs/weeks	GPA	NGPA	CA	WE
Semester 2								
EN1012	Electronic Devices and Circuits		2.0	-	2.0		40	60
EN1052	Introduction to Telecommunications		2.0	=	2.0		40	60
EN1802	Basic Electronics	=	2.0	3/4	2.0		40	60
Semester 3								
EN2012	Analog Electronics		2.0	3/2	2.5		30	70
EN2022	Digital Electronics	9	2.0	3/2	2.5		30	70
EN2852	Applied Electronics	a	1.5	3/2	2.0		40	60
Semester 4		*	I.					
EN2062	Signals and Systems	- 1	2.0	3/2	2.5		30	70

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