SELF - ASSESSMENT REPORT FOR AUN-QA



BACHELOR OF ENGINEERING IN ELECTRONICS COMMUNICATION ENGINEERING TECHNOLOGY

A UN-QA A Touch of Quality Assessment at Programme Level November 07 - 09, 2017

Objectives:

PEO-01	Excel in their engineering careers and/or postgraduate education by utilizing the fundamental mathematical, scientific, and engineering technology principles in formulating and solving electronics and communication engineering problems
PEO-02	Communicate and work effectively in multidisciplinary teams and continue career- long professional development through engagement in lifelong learning
PEO-03	Fulfill the needs of society in solving technical problems using engineering principles, tools and practices, in an ethical and professional manner
PEO-04	Make technical contributions to design, development, and manufacturing in their practice of electronics and communication engineering technology

Expected Learning Outcomes:

ELO-01	An ability to apply knowledge of mathematics, science, computer fundamentals, and engineering
ELO-02	An ability to identify, formulate and solve engineering problems and to design a system, component, or process to meet desired needs
ELO-03	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
ELO-04	An ability to apply written, oral, and graphical communication in both technical and non-technical environments
ELO-05	An ability to communicate in English
ELO-06	An ability to work effectively as a member and leader in teams, preferably in a multi-disciplinary setting
ELO-07	A recognition of the need for continuous learning, and an ability to engage in life- long learning
ELO-08	An ability to understand the tenants of professional codes of ethics and to apply ethical considerations to realistic problems
ELO-09	Recognize the importance of the global, economic, environmental and societal context in engineering practice
ELO-10	An ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments related to electronics and communication engineering technology
ELO-11	Demonstrate the application of circuit analysis and design, computer programming, associated software, analog and digital electronics, and microcomputers, and engineering technology standards to the building, testing, operation, and maintenance of electronics/ communication systems

A3. Mapping of courses to programme outcomes

PLOs ELOs		Student Expected Learning Outcomes											
		ELO -01	ELO -02	ELO -03	ELO -04	ELO -05	ELO -06	ELO -07	ELO -08	ELO -09	ELO -10	ELO -11	
e	<i>S</i>	PEO-01	X	X	x								
amm ation	Objectives	PEO-02				x	x	x	X				
Programme Education	Dbjed	PEO-03								x	x		
P	0	PEO-04										X	X

A3.1: Mapping of ELOs to PEOs

A3.2: Skill matrix of courses

Туре	Course	Course Title	Student Expected Learning Outcomes											
- 5 P C	Prefix		1	2	3	4	5	6	7	8	9	10	11	
Genera	l knowledg	je												
Compul	sory Course	es												
LEC	LLCT150	Basic Principles of Marxist-									Η			
LEC	LLCT120	Ho Chi Minh's Theory									Η			
LEC	LLCT230	VN Communist Party Policy of									Η			
LEC	GELA220	General Law								Η	Η			
OTH	CPRL130	C Programming Language	H	M	H				Μ					
LEC	ENGL130	English 1					Η							
LEC	ENGL230	English 2					Η							
LEC	ENGL330	English 3					Н							
LEC	MATH13	Advanced Mathematics 1	H											
LEC	MATH13	Advanced Mathematics 2	H											
LEC	MATH13	Advanced Mathematics 3	H											
LEC		Applied Statistics Probability	H											
LEC	PHYS130	General Physics A1	H											
LEC	PHYS120	General Physics A2	H											
LAB	PHYS110	Physics Experiment	M									Η		
LEC	MATH12	Complex Variables and Laplace	H											
LEC	GCHE130	General Chemistry A1	H											
Free ele	ectives													
LEC	GEEC220	General Economics									Η			
LEC	PLSK320	Planning Skill							Η					
LEC		Introduction to Management									Η			
LEC	INSO321	Introduction to Sociology									Η			
LEC		Introduction to Quality									Η			
LEC		Introduction to Logic							Η					
LEC	PRSK320	Presentation Skills				H								
LEC		Systems Thinking		Η										
LEC	ULTE121	University Learning Method							Η					
LEC	IVNC320										Η			
LEC		Technical Writing				Η								
Electric	al and Ele	ctronics Core												

OTH	INMA133	Introduction to ECET	M	M	M	Μ		М	M			I.	T.
LEC		Electric Circuit	H	H	L	IVI		111	H			<u> </u>	
LEC		Basic Electronics	H	H			М		H				
LEC		Digital Systems	H	H			M		H				
LEC		Electrical measurement and	Н	M					M			М	
LEC		Microprocessor	Н	H			М		Н			1.1	
LEC		Electrical Safety	Н	M			L		Н				
LAB	ELPR320	Electronics Lab	H	H			M		H				
LAB	PMEM31	Measurement Engineering Lab	Н		Н		M		L				М
LAB		Digital Systems Lab	H	Н	Н		M		L				Н
LAB		Microprocessor Lab	M	H	Н		L		M				Н
-		ctronics Advanced Core	1.1						1.1				
LEC		Signals and Systems	Н	М	L				Μ				
LEC		Communication Electronics	H	M					M				
LEC		Data communication	H	M					M				
LEC		Digital Signal Processing	H	H	М				M				L
DES		Digital Systems Design w/HDL	H	M	1.1		М		M				
LEC		Embedded Systems	H	M	Н		111		M				Μ
LAB		Data Communication Lab	M	M	Н			Н	M	Н	L	Н	M
LAB		Digital System Design with	M	H	Н		М		M				Н
LAB		Embedded Systems Lab	M	M	Н			Н	M	Н	L	Н	M
		s and Communications Area											
- 0	lsory Course												
LEC	~	Electromagnetic Field	Н						Μ				
LEC		Microwave Engineering	Н	Μ					Μ				
LEC		Communication Systems	Н	Μ	L				Μ				
LEC		Antennas and Propagation	Н	Μ	L				Μ				М
LEC		Wireless Communication	Н	Μ	Μ				Μ				Μ
LEC	DICD436	Digital Integrated Circuits Design	Н	Μ	Μ				Μ			L	Н
LAB		Digital Signal Processing Lab	Μ	Μ	Н	Μ	М	Н	Μ	Н	L	Н	М
LAB		Communication Systems Lab	Μ	Μ	Н	Μ	М	Н	Μ	Н	L	Н	Μ
LAB		Wireless Communication	Μ	Μ	Н	Μ	М	Н	Μ	Н	L	Н	Μ
OTH	PRTE411	Project 1	Н	Н	Н	Η	М	Η	Η	Н	Μ	Н	Н
OTH		Project 2	Н	Н	Н	Н	М	Н	Н	Н	Η	Н	Н
Elective	e Courses												
LEC	MOCO43	Mobile Communication	Η	Μ	Μ				Μ			L	Н
LEC	MICI4319	Microwave Circuits	Η	Μ	Μ				Μ			L	Н
LEC	FOCO432	Optical Communication	Н	Μ	Μ				Μ			L	Н
LEC	INTH422	Information Theory	Н	Μ	Η				Μ			L	Н
LEC	DICO432	Digital Communication	Н	Μ	Μ				Μ			L	Н
LEC		Image Processing	Η	Μ	Μ				Μ			L	Н
LEC	AUVI321	Audio and Video Engineering	Н	Μ	М				Μ			L	Н
LEC		Advanced Topics in	Н	М	М				М			L	Н
	164	Communication	**	111	1,1				1,11			-	**
LEC	ITFA4360	IoTs: Foundations and	Н	M	М				Μ			L	Н
LEC		Analog Integrated Circuit Design	Н	M	М				Μ			L	Н
DES		Computer and Communication	Н	M	М				M			L	Н
		nics Area Core		111	141				141			-	11
	lsory Course												
LEC		Power Electronics	Н	Н			М		Н				
220	100000		**		I		111	l	**	l			

Legend LEC -Lecture course H- High contribution													
	Legend	LEC -Lecture course	H- 1	High	con	trib	utior	1					
	pro	gramme outcome											L
Number of courses contributing strongly to each		67	25	23	10	07	14	21	14	15	14	36	
OTH		Thesis (IEET)	Η	Η	Н	Η	Η	Η	Η	Н	Η	Η	Η
OTH		Internship (IEET)	M	L	Н	Н	Η	Η	Н	Н	Н	Н	L
OTH		Thesis (ICET)	Η	Η	Η	Η	Η	Η	Η	Η	Η	Η	Η
OTH		Internship (ICET)	М	L	Н	Н	Н	Н	Н	Н	Н	Н	L
Thesis													
LEC	SETE331	Sensor Technology	Н	М	М				Μ			L	Н
LEC	BISI3318	Bio-Signal and -Image Processing	Н	М	М				Μ			L	Н
LEC		Machine Learning	Н	М	Μ				Μ			L	Н
LEC		Audio and Video Engineering	Н	М	Μ				Μ			L	Н
LEC	-	Electric Drive and Application	Н	М	М				М			L	Н
LEC		Research in Modern Electronics	Н	Μ	Μ				Μ			L	Н
LEC		Industrial Communication	Н	M	M				M			L	Н
LEC		Nano Technology	Н	M	M				M			L	Н
LEC		Industry management	H	M	М				M			L	H
LEC		SCADA System	Н	M				Н	M				H
LEC		Intelligent control	Н	M	M				M			L	H
LEC		Advanced Microprocessor	H	M	M				M			L	H
LEC		RFID Technology	Н	М	М				M			L	Н
	e Courses	110,000 2	11	11	11	11	141	11	11	11	11	11	11
OTH	ELPR310 ELPR310	Project 2	н Н	н Н	н Н	H	M	H	H	H	H	H	H
OTH	ELPR310	Programmable Logic Controller Project 1	H	н Н	н Н	Н	M	Н	Н	Н	Μ	Н	н Н
LAB LAB	POEP320 PPLC321	Power Electronics Lab	M M	H H	H H		L M						H H
LAB	ELPR210	Electric Lab	H	H	H		т		M	L			TT
LEC		Image Processing	Н	H			Μ	Μ	H	т			
LEC	ELPS330	Electrical power supply	Н	H			L	N	M				
LEC	PLCS330	Programmable Logic Controller	H	H			M	М	H				
LEC	~	Electrical Equipment	H	H			M		H				
LEC		Automatic Control Systems	Н	Н			L		L				



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