APPROVED BY BOS CHAIRMAN

GOA UNIVERSITY

FOURTH YEAR OF BACHELOR'S DEGREE COURSE IN *ELECTRONICS AND COMMUNICATION ENGINEERING*
SCHEME OF INSTRUCTION AND EXAMINATION

SEMESTER VII:

Sub code	Subjects	Scheme Of Instruction Hrs/Week			Scheme Of Examination					
					Th. Dur (Hrs)	Marks				
		L	T	P		Th.	S	P	O	Total
7.1	Data Communication	4	0	2	3	100	25	-	50	175
7.2	Microwave and Radar Engineering	4	0	2	3	100	25	-	50	175
7.3	Optical Fiber Communication	4	0	2	3	100	25	-	-	125
7.4	Elective-I	4	0	2	3	100	25	-	50	175
7.5	Elective-II	4	0	0	3	100	25	-	-	125
7.6	Project Seminar	0	0	4	-	-	25	-	50*	75
	Total	20	0	12	-	500	150	-	200	850

* Seminar & orals

SEMESTER VIII:

Sub code	Subjects	Scheme Of Instruction Hrs/Week			Scheme Of Examination					
					Th. Dur (Hrs)	Marks				
		L	T	P		Th.	S	P	O	Total
8.1	Satellite & Television Engineering	4	0	2	3	100	25	-	50	175
8.2	Elective-III	4	0	2	3	100	25	-	50	175
8.3	Elective-IV	4	0	2	3	100	25	-	50	175
8.4	Project	0	0	12	-	-	75	-	125**	200
	Total	12	0	18	-	300	150	-	275	725

** Seminar, demonstration and Oral.
L – Lectures, T-Tutorials, P-Practicals.
Th. Dur. – Duration of Theory Paper
Th – Theory, S – Sessional, P– Practical, O – Orals

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Elective	Subject Code	Subject Name
I	7.4.1	Introduction to Peripheral Devices and Interfacing
	7.4.2	Operating Systems
	7.4.3	Hardware Description Language
	7.4.4	Virtual Instrumentation
	7.4.5	Wavelets and Multirate Digital Signal Processing
	7.4.6	Electronic Circuits: Design, Simulation and Testing
	7.4.7	Acoustic Engineering
	7.4.8	Optical Computing
	7.4.9	Process Control Instrumentation
II	7.5.1	Mobile Communication Systems
	7.5.2	Artificial Neural Network
	7.5.3	Secure Communication
	7.5.4	Nanoelectronics
	7.5.5	Optical Networking
	7.5.6	Adaptive Signal Processing
	7.5.7	Low Power VLSI Design Techniques
	7.5.8	Multimedia Systems
	7.5.9	Artificial Intelligence
III	8.2.1	Consumer Electronics
	8.2.2	Speech Signal Processing
	8.2.3	Mobile Computing
	8.2.4	Introduction to Robotics
	8.2.5	ASIC Design and FPGA
	8.2.6	Microwave Networks and Applications
	8.2.7	Error Control Coding
IV	8.3.1	E-Commerce
	8.3.2	Bio-medical Electronics and Instrumentation
	8.3.3	Digital Image Processing
	8.3.4	Electromagnetic Interference/Electromagnetic Compatibility
	8.35	Ad-hoc Wireless Networks
	8.3.6	Global System for Mobile Communication
	8.3.7	Mobile Phone Programming

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