GOA UNIVERSITY

SECOND/THIRD YEAR OF BACHELOR'S DEGREE COURSE IN INFORMATION TECHNOLOGY ENGINEERING

SCHEME OF INSTRUCTION AND EXAMINATION

SEMISTER III

Sub Code	Subject	Scheme of Instruction Hrs/Week			Scheme Of Examination					
		L	T	P	Th.Dur (Hrs)	Marks				
						Th.	S	P	O	Total
IT 3.1	Applied Mathematics III	3	1	0	3	100	25	-	-	125
IT 3.2	Numerical Methods	3	0	2	3	100	25*	-	-	125
IT 3.3	Analog & Digital Circuits	3	1	2	3	100	25*	-	-	125
IT 3.4	Computer Organization & Architecture	3	1	2	3	100	25*	-	-	125
IT 3.5	Data Structures using C	3	1	2	3	100	25*	50	-	175
IT 3.6	System Analysis & Design	3	1	2	3	100	25*	50	-	175
TOTAL		**18**	**05**	**10**	**-**	**600**	**150**	**100**	**-**	**850**

*20 Marks for Internal Tests and 5 marks for internal practical test

SEMISTER IV

Sub Code	Subject	Scheme of Instruction Hrs/Week			Scheme Of Examination					
		L	T	P	Th.Dur (Hrs)	Marks				
						Th.	S	P	O	Total
IT 4.1	Discrete Mathematical Structures	3	1	0	3	100	25	-	-	125
IT 4.2	Signals & Systems	3	1	0	3	100	25	-	-	125
IT 4.3	Computer Hardware & Troubleshooting	3	1	2	3	100	25*	-	-	125
IT 4.4	Microprocessors & Interfacing	3	1	2	3	100	25*	50	-	175
IT 4.5	Design & Analysis of Algorithms	3	1	2	3	100	25*	-	-	125
IT 4.6	Object Oriented Programming System	3	1	2	3	100	25*	50	-	175
TOTAL		**18**	**06**	**08**	**-**	**600**	**150**	**100**	**-**	**850**

*20 Marks for Internal Tests and 5 marks for internal practical test

L-lecture, T: Tutorials, P-Practical
Th.Dur: Duration of the Paper
Th: Theory, S: Sessional, P: Practical, O: Oral

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SCHEME OF INSTRUCTION AND EXAMINATION

SEMISTER V

Sub Code	Subject	Scheme of Instruction Hrs/Week			Scheme Of Examination					
		L	T	P	Th.Dur (Hrs)	Marks				
						Th.	S	P	O	Total
IT 5.1	Introduction to Data Communication	3	1	0	3	100	25	-	-	125
IT 5.2	Digital Signal Processing	3	1	0	3	100	25	-	-	125
IT 5.3	Software Engineering	3	1	2	3	100	25*	-	-	125
IT 5.4	Intelligent Agents	3	1	2	3	100	25*	-	-	125
IT 5.5	Operating Systems	3	1	2	3	100	25*	50	-	175
IT 5.6	Database Management Systems	3	1	2	3	100	25*	50	-	175
TOTAL		**18**	**06**	**08**	**-**	**600**	**150**	**100**	**-**	**850**

*20 Marks for Internal Tests and 5 marks for internal practical test

SEMISTER VI

Sub Code	Subject	Scheme of Instruction Hrs/Week			Scheme Of Examination					
		L	T	P	Th.Dur (Hrs)	Marks				
						Th.	S	P	O	Total
IT 6.1	Entrepreneurship Development	3	0	0	3	100	25	-	-	125
IT 6.2	Theory of Computation	3	0	2	3	100	25	-	-	125
IT 6.3	Computer Networks	3	1	2	3	100	25*	-	-	125
IT 6.4	Computer Graphics	3	1	2	3	100	25*	50	-	175
IT 6.5	Web Technology	3	1	2	3	100	25*	50	-	175
IT 6.6	Software Testing & Quality Assurance	3	1	2	3	100	25*	-	-	125
TOTAL		**18**	**04**	**10**	**-**	**600**	**150**	**100**	**-**	**850**

*20 Marks for Internal Tests and 5 marks for internal practical test

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Th: Theory, S: Sessional, P: Practical, O: Oral

FINAL YEAR OF BACHELOR'S DEGREE COURSE IN INFORMATION TECHNOLOGY ENGINEERING
SCHEME OF INSTRUCTION AND EXAMINATION

SEMISTER VII

Sub Code	Subject	Scheme of Instruction Hrs/Week			Scheme Of Examination					
		L	T	P	Th.Dur (Hrs)	Marks				
						Th.	S	P	O	Total
IT 7.1	Distributed Systems	3	1	2	3	100	25*	-	25	150
IT 7.2	Principles of Compilers	3	1	2	3	100	25*	-	25	150
IT 7.3	Mobile Computing	3	1	2	3	100	25*	-	50	175
IT 7.4	Elective I	3	1	2	3	100	25*	-	50	175
IT 7.5	Elective II	3	1	0	3	100	25	-	-	125
IT 7.6	Project	-	-	4	-	-	25	-	50#	75
TOTAL		**15**	**05**	**12**	**-**	**500**	**150**	**-**	**200**	**850**

*20 marks for Internal Tests and 5 marks for internal practical test

Seminar & Oral

Electives: A student must take one Elective From each Group.

Group I: Subject for IT 7.4

a) Data Mining & warehousing
b) Genetic Algorithms
c) Bio Informatics
d) E-Commerce

Group II: Subject for IT 7.5

a) Geographical Information System
b) Cyber laws & Computer Forensic
c) Financial Engineering
d) IT Business Methodology

FINAL YEAR OF BACHELOR'S DEGREE COURSE IN INFORMATION TECHNOLOGY ENGINEERING
SCHEME OF INSTRUCTION AND EXAMINATION

SEMISTER VIII

Sub Code	Subject	Scheme of Instruction Hrs/Week			Scheme Of Examination					
		L	T	P	Th.Dur (Hrs)	Marks				
						Th.	S	P	O	Total
IT 8.1	Image processing & Pattern Recognition	3	1	2	3	100	25	-	50	175
IT 8.2	Computer Cryptography and Network Security	3	1	2	3	100	25	-	50	175
IT 8.3	Elective III	3	1	2	3	100	25	-	50	175
IT 8.4	Elective IV	3	1	2	3	100	25	-	50	175
IT 8.5	Project	-	-	8	-	-	50	-	100#	150
TOTAL		12	04	**16**	**-**	**400**	**150**	**50**	300	**850**

*20 marks for Internal Tests and 5 marks for internal practical test

#Seminar, demonstration & Oral

Electives: A student must take one Elective From each Group.

Group III: Subject for IT 8.3

a) Web Services
b) Operation Research
c) Design Patterns & Frameworks
d) Fuzzy Logic and Neural Networks

Group VI: Subject for IT 8.5

a) VLSI Design
b)Embedded System Design
c) System Performance & Evaluation
d) Advanced Computer Architecture