

GOA UNIVERSITY

SECOND/THIRD YEAR OF BACHELOR'S DEGREE COURSE IN COMPUTER
ENGINEERING
(REVISED IN 2007-08)
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
CE3.1 AM3	Applied Mathematics-III	3	1	0	3	100	20+5	-	-	125
CE3.2BC++	Basics of C++	3	1	2	3	100	20+5	50	-	175
CE3.3PPL	Principles of Programming Languages	3	0	2	3	100	20+5	-		125
CE3.4CONT	Computer Oriented Numerical Techniques	3	1	2	3	100	20+5	-	-	125
CE3.5LD	Logic Design	3	1	2	3	100	20+5	50	-	175
CE3.6IE	Integrated Electronics	3	1	2	3	100	20+5	-	-	125
TOTAL		18	05	10	-	600	150	100	0	850

L-lecture, T: Tutorials, P-Practical

Th.Dur: Duration of the Paper

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

25 Sessional marks will be split as follows:

20 marks are for the Internal Test.

5 marks are for continuous evaluation of Practicals/Assignments

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SCHEME OF INSTRUCTION AND EXAMINATION

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
CE4.1 DM3	Discrete mathematical Structures	3	1	0	3	100	20+5	-	-	125
CE4.2DS	Data Structure	3	1	2	3	100	20+5	50	-	175
CE4.3CO	Computer Organization	3	1	2	3	100	20+5	-	-	125
CE4.4EM	Electronic Measurements	3	1	0	3	100	20+5	-	-	125
CE4.5SAD	System Analysis and Design	3	1	2	3	100	20+5	-	-	125
CE4.6OOPC	Object Oriented Programming And Design Using C++	3	1	2	3	100	20+5	50	-	175
TOTAL		18	06	8	-	600	150	100	0	850

L-lecture, T: Tutorials, P-Practical

Th.Dur: Duration of the Paper

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

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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
CE 5.1	Organizational Behaviour and Cyber Law	3	0	0	3	100	20+5	-	-	125
CE 5.2	Automata Language and Computation	3	0	2	3	100	20+5	-	-	125
CE 5.3	Microprocessors and Microcontrollers	3	1	2	3	100	20+5	50		175
CE 5.4	Computer Hardware Design	3	1	2	3	100	20+5	-	-	125
CE 5.5	Database Management System	3	1	2	3	100	20+5	50	-	175
CE 5.6	Operating Systems	3	1	2	3	100	20+5	-	-	125
TOTAL		18	04	10	-	600	150	100	-	850

L-lecture, T: Tutorials, P-Practical

Th.Dur: Duration of the Paper

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

25 Sessional marks will be split as follows:

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THIRD YEAR OF BACHELOR'S DEGREE COURSE IN COMPUTER
ENGINEERING
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SCHEME OF INSTRUCTION AND EXAMINATION
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
CE 6.1	Modern Algorithm Design Foundation	3	0	0	3	100	20+5	-	-	125
CE 6.2	Object Oriented Software Engineering	3	0	2	3	100	20+5	-	-	125
CE 6.3	Artificial Intelligence	3	1	2	3	100	20+5	50		175
CE 6.4	Computer Graphics	3	1	2	3	100	20+5	50	-	175
CE 6.5	Device Interface and PC Maintenance	3	1	2	3	100	20+5	-	-	125
CE 6.6	Data Communications	3	1	2	3	100	20+5	-	-	125
TOTAL		18	04	10	-	600	150	100	-	850

L-lecture, T: Tutorials, P-Practical

Th.Dur: Duration of the Paper

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

25 Sessional marks will be split as follows:

20 marks are for the Internal Test.

5 marks are for continuous evaluation of Practicals/Assignments

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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
CE 7.1LT	Language Translators	3	1	2	3	100	25	-	25	150
CE 7.2CN	Computer Networks	3	1	2	3	100	25	-	25	150
CE 7.3DSP	Digital Signal Processing	3	1	2	3	100	25	-	50	175
CE 7.4	Elective I	3	1	2	3	100	25	-	50	175
CE 7.5	Elective II	3	1	0	3	100	25	-	-	125
CE 7.6	Project	-	-	4	-	-	25	-	50*	75
TOTAL		15	05	12	-	500	150	-	200	850

*25 Sessional marks will be split as follows:

20 marks are for the Internal Test

5 marks are for continuous evaluation of Practicals/Assignments

*Seminar & Project Oral

Electives: A student must take One Elective from each Group.

Group I: Subjects for CE 7.4

- a) VLSI Design
- b) Software Development Systems.
Frameforks (J2EE/NET)
- c) Fuzzy Logic and Neural Networks
- d) Web Technologies
Quality

Group II: Subjects for CE 7.5

- a) Data Compression
- b) Geographical Information
- c) Bio Informatics
- d) Project Management and Assurance

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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
CE 8.1ADSA	Advanced Data Structures and Algorithms	3	1	2	3	100	25	-	50	175
CE 8.2CCNS	Computer Cryptography and Network Security	3	1	2	3	100	25	-	50	175
CE 8.3	Elective III	3	1	2	3	100	25	-	50	175
CE 8.4	Elective IV	3	1	2	3	100	25	-	50	175
CE 8.5	Project	-	-	8	-	-	50	-	100*	150
TOTAL		12	04	16	-	400	150	-	300	850

*25 Sessional marks will be split as follows:

20 marks are for the Internal Test

5 marks are for continuous evaluation of Practicals/Assignments

*Seminar & Project Oral

Electives: A student must take One Elective from each Group.

Group III: Subject for CE 8.3

- a) Embedded System Design
- b) Multimedia Systems
- c) Distributed Operating System
- d) Data Mining
- e) Web Services

Group VI: Subject for CE 8.4

- a) Genetic Algorithms
- b) Image Processing
- c) Mobile Computing
- d) Machine Vision and Learning