

GOA UNIVERSITY

**FINAL AND/FOURTH YEAR OF BACHELORS DEGREE COURSE IN MECHANICAL
ENGINEERING**

(Revised in 2007-08)

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
7.1	CAD-CAM	3	1	2	3	100	25	25	25	175
7.2	Refrigeration & Air Conditioning	3	1	2	3	100	25	25	25	175
7.3	Manufacturing Technology III	3	1	-	3	100	25	-	-	125
7.4	Elective I	3	1	2*	3	100	25	-	25	150
7.5	Elective II	3	1	2*	3	100	25	-	25	150
7.6	Project	-	-	4	-	-	25**	-	50	75
TOTAL		15	05	12	-	500	150	50	150	850

L-lecture, T: Tutorials, P-Practical

Th.Dur: Duration of the Paper

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

*Practical slots for Elective Subjects are to be decided based on nature of subjects offered and explicitly specified in the Elective list.

A journal containing assignments such as design exercises/or experiments conducted and results obtained to be submitted for assessment.

** Progress Seminar of PROJECT

Elective 4- major groups (thermal, design, manufacturing and industrial) and I-non departmental like Computer, IT and management.

Revised Course (Revised in 2007-08) sem VII (Mech) Elective to be introduced from I term of 2010-2011

Subject Code	Title
7.4.1	Advanced Mechanic of Solids
7.4.2	Tool Engg. Design
7.4.3	Cryogenics
7.4.4	Engineering Tribology
7.4.5	Management Information System
7.4.6	6-Sigma Management
7.4.7	Analysis & Synthesis of Mechanisms
7.4.8	Artificial Intelligence
7.5.1	Random Vibrations
7.5.2	Advanced material Technology
7.5.3	Rapid Prorotyping
7.5.4	Design of Thermal System
7.5.5	Stochastic Process
7.5.6	Applied O.R.
7.5.7	Automobile Engg.
7.5.8	MEMS

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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
8.1	Reliability based Design	3	1	-	3	100	25	-	50	175
8.2	Power Plant Engineering	3	1	-	3	100	25	-	50	175
8.3	Elective III	3	1	2*	3	100	25	-	50	175
8.4	Elective IV	3	1	2*	3	100	25	-	50	175
8.5	Project	-	-	8	-	-	50	-	100**	150
TOTAL		12	04	12*	-	400	150	-	300	850

L-lecture, T: Tutorials, P-Practical

Th.Dur: Duration of the Paper

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

*Practical slots for Elective Subjects are to be decided based on nature of subjects offered and explicitly specified in the Elective list.

A journal containing assignments such as design exercises/or experiments conducted and results obtained to be submitted for assessment during oral examination.

** Semester, demonstration & Oral

Elective 4- major groups (thermal, design, manufacturing and industrial) and I-non departmental like Computer, IT and management.

BE (M)-Semister VIII

Elective III	
Code	Title
8.3.1	Finite element methods
8.3.2	Industrial Robotics
8.3.3	Computational Fluid Mechanics
8.3.4	Maintenance Engineering and Management
8.3.5	System Simulation
8.3.6	Control System Engineering
8.3.7	Energy Management

BE (M)-Semister VIII

Elective IV	
Code	Title
8.4.1	Precision Engineering
8.4.2	Advanced metal forming
8.4.3	Supply chain management
8.4.4	Low cost automation
8.4.5	Fluid power control
8.4.6	Nano Technology