



MECHANICAL ENGINEERING DEPARTMENT PROGRAMS

FIRST YEAR

Semester 1											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
GEN1001	Mathematics (3)	2	2	-	4	30	-	70	3	100	3
MEC1002	Casting and Welding	4	-	3	7	40	40	120	3	200	5
POW1003	Electrical Engineering	2	1	1	4	30	30	90	3	150	2
GEN1004	Technical Reports	2	1	-	3	30	-	70	2	100	2
GEN1005	Mechanical Drawing	2	2	-	4	60	-	140	4	200	3
Total		12	6	4	22						15
Semester 2											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
GEN1006	Computer Aided Drawing	1	-	2	3	30	30	90	3	150	2
MEC1007	Theory of Machines (1)	2	2	-	4	50	-	100	3	150	3
MEC1008	Material Engineering (1)	4	1	1	6	30	30	90	3	150	4
GEN1009	Thermodynamics	2	1	-	3	30	-	70	3	100	2
MEC1010	Engineering Statistics	2	1	-	3	30	-	70	3	100	2
MEC1011	Industrial and Environmental Safety	2	1	-	3	30	-	70	3	100	2
Total		13	6	3	22						15
						Total grade				1500	



MECHANICAL ENGINEERING DEPARTMENT PROGRAMS

SECOND YEAR

Semester 1											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
MEC2001	Engineering Economy	2	2	-	4	30	-	70	3	100	3
ELC2002	Electronic Circuits	3	1	2	6	40	40	120	3	200	4
MEC2003	Fluid Mechanics	2	1	1	4	30	30	90	3	150	2
CSE2004	Computer Programming	2	1	1	4	30	30	90	3	150	2
MEC2005	Theory of Machines (2)	2	2	-	4	50	-	100	3	150	3
	Training										
Total		11	7	4	22						14
Semester 2											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
MEC2006	Numerical Analysis	2	1	-	3	30	-	70	3	100	2
MEC2007	Project Management	2	1	-	3	30	-	70	3	100	2
MEC2008	Instrumentation and Measurements	2	1	1	4	30	30	90	3	150	2
MEC2009	Quality Control	2	2	-	4	30	-	70	3	100	3
MEC2010	Automatic Control	2	2	-	4	50	-	100	3	150	3
POW2011	Electrical Machines	2	1	1	4	30	30	90	3	150	2
Total		12	8	2	22						14
						Total grade				1500	

- Summer field training at specialized sites outside the college for four weeks after the second semester exams for the second year.



PRODUCTION ENGINEERING PROGRAM

THIRD YEAR

Semester 1											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
MEC3101	Machine Elements Design	2	2	-	4	30	-	70	3	100	3
MEC3102	Operations Research	3	1	2	6	30	30	90	3	200	4
MEC 3103	Metal Machining	2	1	1	4	30	30	90	3	150	2
MEC3104	Material Engineering (2)	2	1	1	4	30	30	90	3	150	2
MEC3105	Elasticity and Plasticity	2	2	-	4	50	-	100	3	150	3
-----	Elective Course (1)	2	1	1	4	30	30	90	3	150	2
Total		11	7	4	22						13
Semester 2											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
MEC3109	Mechanical Design	2	1	-	3	80	-	120	3	200	3
MEC3110	Production Systems	2	1	-	3	30	-	70	3	100	2
MEC3111	Metal Forming	2	1	1	4	30	30	90	3	150	2
GEN 3112	Heat Transfer	2	2	-	4	30	-	70	3	100	3
MEC3113	Mechanical Vibrations	2	2	-	4	50	-	100	3	100	3
-----	Elective Course (2)	2	1	1	4	30	30	90	3	100	2
Total		12	8	2	22						14
						Total grade				1500	

Elective Course (1)	Elective Course (2)
(MEC3106) Composite Materials (MEC3107) Powder Metallurgy (3108) Selected Topics	(POW3114) New and Renewable Energy Systems (MEC3115) Mechatronics (3116) Selected Topics

- Summer field training at specialized sites outside the college for four weeks after the second semester exams for the third year.



PRODUCTION ENGINEERING PROGRAM

FOURTH YEAR

Semester 1											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
MEC4101	Maintenance Planning and Management	2	1	1	4	30	30	90	3	150	2
MEC4102	Computer Aided Design and Manufacturing CAD/CAM	2	-	2	4	30	30	90	3	150	3
MEC4103	Advanced Machining Operations	2	1	-	3	30	-	70	3	100	2
MEC4104	Machine Tools Design	2	1	1	4	30	30	90	3	150	2
----	Elective Course (3)	2	1	-	3	30	-	70	3	100	2
	Training									100	
----	Project	-	4	-	4		cont.				2
Total		10	8	4	22						13
Semester 2											
Course Code	Course Name	Contact Hours				Grade Distribution			Exam hours	Total grade	Cr. Hours
		Lec	Tut	Lab	Total	Class work	Practical	Exam			
MEC4108	Material Engineering (3)	2	1	1	4	20	20	60	3	100	2
MEC4109	Operations Management	2	1	-	3	10	-	40	3	50	2
MEC4110	Industrial Automation	2	1	-	3	30	-	70	3	100	2
MEC4111	Material Handling	2	1	1	4	20	20	60	3	100	2
MEC4112	Hydraulic and Pneumatic Control Systems	2	1	1	4	20	20	60	30	100	2
----	Elective Course (4)	2	1	-	3	30	-	70	3	100	2
MEC4116	Project	-	4	-	4	100	100			200	2
Total		12	10	3	25						14
						Total grade				1500	

Elective Course (3)	Elective Course (4)
MEC4105) Cutting Jigs and Fixtures Design) (MEC4106) Die Design (4107) Selected Topics	(MEC4113) Environmental Engineering Systems (MEC4114) Sustainable Manufacturing Systems (4115) Selected Topics

- The graduation project preparation for fourth-year students continues for 36 hours per week for four weeks after the second semester exams.