

Scheme of Teaching and Examination
PhD Coursework in Mechanical Engineering Department(01PhD04)

SN	Subject/Course Code	Subject/Course	Scheme of Examination				Credit	
			Theory		Seminar			Total Marks
			PRE	ESE	PRE	ESE		
1	PCW 101	Research Methodology	50	50	-	-	100	5
2	SOE-PhD-ME101	Elective – I	50	50	-	-	100	5
3	SOE-PhD-ME102	Elective – II	50	50	-	-	100	5
4	SOE-PhD-ME103	Seminar Presentation	-	-	50	50	100	5
Total			150	150	50	50	400	20

Department Elective-I

SN	Board of Study	Subject/Course Code	Subject/Course	Periods per Week			Scheme of Examination		Total Marks	Credit
				L	T	P	Theory / Practical			
							ESE	PRE		
1	Mechanical	SOE-PhD-ME101(1)	Applied Ergonomics	4	1	..	50	50	100	5
2	Mechanical	SOE-PhD-ME101(2)	Advanced Heat & Mass Transfer	4	1	..	50	50	100	5
3	Mechanical	SOE-PhD-ME101(3)	Engineering Fracture Mechanics	4	1		50	50	100	5
4	Mechanical	SOE-PhD-ME101(4)	Advanced Engineering Thermodynamics	4	1	..	50	50	100	5
5	Mechanical	SOE-PhD-ME101(5)	Robotics	4	1	..	50	50	100	5
6	Mechanical	SOE-PhD-ME101(6)	Advances in welding and Joining Technology	4	1	..	50	50	100	5
7	Mechanical	SOE-PhD-ME101(7)	Plant Maintenance and Safety	4	1	..	50	50	100	5

Department Elective-II

SN	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Examination		Total Marks	Credit
				L	T	P	Theory / Practical			
							ESE	PRE		
1	Mechanical	SOE-PhD-ME102(1)	Modelling and Simulation of Dynamic Systems	4	1	..	50	50	100	5
2	Mechanical	SOE-PhD-ME102(2)	Advanced Refrigeration and Air Conditioning	4	1	..	50	50	100	5
3	Mechanical	SOE-PhD-ME102(3)	Analysis and Modeling of Welding	4	1	..	50	50	100	5
4	Mechanical	SOE-PhD-ME102(4)	Energy Management & Audit	4	1	..	50	50	100	5
5	Mechanical	SOE-PhD-ME102(5)	Solar energy utilisation	4	1	..	50	50	100	5

L: Lecture **T:** Tutorial **P:** Practical **ESE:** End Semester Examination **T. A:** Teacher's Assessment.