

Syllabus Scheme
Of
Master of Technology
(Mechanical Engineering)



I.E.C. UNIVERSITY
BADDI (SOLAN) H.P.

Semester -I

Course			Periods			Evaluation Scheme					Course Total	
Sr. No	Code	Title	L	T	P	Sessional Marks				Exam Marks	Marks	Credits
						MSE	CA	P	Total	ESE		
			Theory									
1	MTME-101	Computer Integrated Manufacturing (CIM)	4	0	0	40	20	0	60	40	100	4
2	MTME-102	Operations Research	4	0	0	40	20	0	60	40	100	4
3	MTME-103	Research Process & Methodology	4	0	0	40	20	0	60	40	100	4
4		Departmental Elective-I	4	0	0	40	20	0	60	40	100	4
5		Departmental Elective-II	4	0	0	40	20	0	60	40	100	4
Practical/Training/Project												
1	MTME-151	Computer Integrated Manufacturing (CIM) Lab	0	0	2			30	30	20	50	1
2	MTME-152	Operations Research Lab	0	0	2			30	30	20	50	1
Total			20	0	2	200	100	60	360	240	600	22

Departmental Elective-I	MTME-104	Advanced Welding Technology
	MTME-105	Modern Manufacturing Process
	MTME-106	Advanced Mechanical Design
	MTME-107	Fracture Mechanics

Departmental Elective-II	MTME-108	CAD/CAM
	MTME-109	Renewable Energy System
	MTME-110	Management Information System
	MTME-112	Computational Fluid Dynamics

Semester –II

Course			Periods			Evaluation Scheme					Course Total	
Sr. No	Code	Title	L	T	P	Sessional Marks				Exam Marks	Marks	Credits
						MSE	CA	P	Total	ESE		
			Theory									
1	MTME-201	Simulation, Modelling & Analysis	4	0	0	40	20	0	60	40	100	4
2	MTME-202	Industrial Automation And Robotics	4	0	0	40	20	0	60	40	100	4
3	MTME-203	Advanced Heat & Mass Transfer	4	0	0	40	20	0	60	40	100	4
4		Departmental Elective-III	4	0	0	40	20	0	60	40	100	4
5		Departmental Elective-IV	4	0	0	40	20	0	60	40	100	4
1	MTME-251	Simulation, Modelling & Analysis Lab	0	0	2			30	30	20	50	1
2	MTME-252	Seminar-1	0	0	2			50	50		50	1
Total			20	0	4	200	100	80	380	220	600	22

Departmental Elective–III	MTME-204	Turbo Machines
	MTME-205	Reliability, Maintenance Management & Safety
	MTME-206	Micro-Machining Processes
	MTME-207	Optimization Techniques

Departmental Elective–IV	MTME-208	Advanced Mechanics Of Solids
	MTME-209	Total Quality Management
	MTME-210	Flexible Manufacturing System
	MTME-211	Advanced I.C. Engines

Semester – III

Course			Periods			Evaluation Scheme					Course Total	
Sr. No	Code	Title	L	T	P	Sessional Marks				Exam Marks	Marks	Credits
						MS E	CA	P	Total	ESE(P)		
Theory												
1	MTME-351	Seminar-II	0	0	6	0	0	100	100		100	3
2	MTME-352	Dissertation	0	0	30	0	0	200	200	300	500	15
Total			0	0	36	0	0	300	300	300	600	18

Semester – IV

Course			Periods			Evaluation Scheme					Course Total	
Sr. No	Code	Title	L	T	P	Sessional Marks				Exam Marks	Marks	Credits
						MS E	CA	P	Total	ESE(P)		
Theory												
1	MTME-353	Dissertation (Final)	0	0	36	0	0	200	200	400	600	18
Total			0	0	36	0	0	200	200	400	600	18