

Syllabus for Mechanical Engineering as per C-16 Curriculum I YEAR

Sub code	Name of the Subject	Instruction periods/week		Total periods per year	Scheme of Examination			
		Theory	Practicals		Duration (Hrs)	Sessional Marks	End Exam Marks	Total Marks
THEORY								
M-101	English	3		90	3	20	80	100
M-102	Engineering Mathematics – I	5		150	3	20	80	100
M-103	Engineering Physics	4		120	3	20	80	100
M-104	Engineering Chemistry and Environmental studies	4		120	3	20	80	100
M-105	Engineering Mechanics	4		120	3	20	80	100
M-106	Workshop Technology	4		120	3	20	80	100
PRACTICAL								
M-107	Engineering Drawing		6	180	3	40	60	100
M-108	Basic Workshop Practice		6	180	3	40	60	100
M-109	Physics Laboratory		3	90	3	20	30	50
M-110	Chemistry Laboratory				3	20	30	50
M-111	Computer Fundamentals laboratory		3	90	3	40	60	100
TOTAL		24	18	1260		280	720	1000

III SEMESTER

Sub code	C16-Subjects	No of Periods per week		PERSEMESTER Total periods	Scheme of Examination			
		Theory	Practice		Duration (Hrs)	Sessional Marks	End Exam Marks	Total Marks
THEORY								
M-301	Engineering Mathematics-II	5		75	3	20	80	100
M-302	Strength of Materials	6		90	3	20	80	100
M-303	Thermal Engineering-I	6		90	3	20	80	100
M-304	Production Technology-I	5		75	3	20	80	100
M-305	Basic Electrical Engineering & Electronics	5		75	3	20	80	100
PRACTICAL								
M-306	Machine Drawing		6	90	3	40	60	100
M-307	Fuels lab and Electrical Engineering Lab		3	45	3	20+20	30+30	100
M-308	Materials testing lab		3	45	3	40	60	100
M-309	Workshop Practice-II		3	45	3	40	60	100
	TOTAL	27	15	630		260	640	900

IV SEMESTER

Sub code	C16-Subjects	No of Periods per week		Total periods per semester	Scheme of Examination			
		Theory	Practice		Duration (Hrs)	Sessional Marks	End Exam Marks	Total Marks
THEORY								
M-401	Engineering Materials	6		90	3	20	80	100
M-402	Hydraulics and Fluid Power Control Systems	6		90	3	20	80	100
M-403	Thermal Engineering II	6		90	3	20	80	100
M-404	Production technology-II	6		90	3	20	80	100
M-405	Design of Machine Elements	6		90	3	20	80	100
PRACTICAL								
M-406	Production Drawing		3	45	3	40	60	100
M-407	Hydraulics & Fluid Power Control Systems Lab		3	45	3	40	60	100
M-408	Communication Skills		3	45	3	40	60	100
M-409	Thermal Engineering Lab		3	45	3	40	60	100
	TOTAL	30	12	630		240	560	800

V SEMESTER

Sub code	Name of the Subject	Instruction periods/week		Total periods per year	Scheme of Examination			
		Theory	Practicals		Duration (Hrs)	Sessional Marks	End Exam Marks	Total Marks
THEORY								
M-501	Industrial Management & Smart Technologies	5		75	3	20	80	100
M-502	Industrial Engineering - Estimating and Costing	6		90	3	20	80	100
M-503	Refrigeration & Air-conditioning	5		75	3	20	80	100
M-504	Energy sources & Power Plant Engineering	5		75	3	20	80	100
M-505	Computer Aided Manufacturing systems	5		75	3	20	80	100
PRACTICAL								
M-506	Computer Aided Drafting & CNC lab		6	90	3	40	60	100
M-507	Non-Conventional Energy sources and R&AC lab		3	45	3	40	60	100
M-508	Life Skills		3	45	3	40	60	100
M-509	Workshop Practice - III		4	60	3	40	60	100
	TOTAL	26	16	630	27	260	640	900

VI SEMESTER

S.No	Subject	Duration	Items	Max Marks	Remarks
1	M-601 Practical Training in the Industry	6 Months	1.First Assessment (at the end of 3rd month)	100	
			2. Second Assessment (at the end of 6th month)	100	
			3.Training report i) Log Book	30	
			ii) Report	30	
4. Seminar				40	
Total :				300	

The industrial training shall carry 300 marks and pass marks are 50%.A candidate failing to secure the minimum marks should complete it at his own expenses.

During Industrial training the candidate shall put in a minimum of 90%attendance.

OTHER EDUCATIONAL ASSIGNMENTS ALONG WITH CURRICULUM (COMMON FOR ALL BRANCHES)

S.NO	ASSIGNMENT	PER SEM
1	Skill Development program by APSSDC	15 days
2	Industrial Visits	2
3	Workshops	1

CO- CURRICULAR ACTIVITIES (COMMON FOR ALL BRANCHES)

S.NO	ASSIGNMENT	PER YEAR
1	TECH FEST	2days
2	SPORTS & GAMES	1 WEEK