

SCHEME OF EXAMINATION AND

COURSE OF STUDY



THREE-YEAR DIPLOMA

IN

MECHANICAL ENGINEERING

(w.e.f. 2024-2025)

Department of Mechanical Engineering

**FACULTY OF ENGINEERING & TECHNOLOGY GURUKULA KANGRI (DEEMED TO BE
UNIVERSITY), HARIDWAR**

Syllabus

Diploma ME.I Year

(Semester I)

S.N O.	COUR SE COD E	COUR SE OPTE D	SUBJECT	Period per week			EVALUATION SCHEME				Cred it	Subjec t TOTA L
							SESSIONAL EXAM.			EXA M. ESE		
				L	T	P	CT	TA	TOTA L			
THEORY SUBJECTS												
1	DEM-C101	BSC	Mathematics –I	2	1	0	20	10	30	70	3	100
2	DAP-C101	BSC	Physics –I	2	1	0	20	10	30	70	3	100
3	DAC-C101	BSC	Chemistry	2	1	0	20	10	30	70	3	100
4	DEG-A101	HSM C	Communication Skill in English	2	1	0	20	10	30	70	3	100
PRACTICAL / TRAINING / PROJECT												
5	DAP-C151	BSC	Physics -I Lab	0	0	2	20	10	30	70	1	100
6	DAC-C151	BSC	Chemistry Lab	0	0	2	20	10	30	70	1	100
7	DSP-S151	BSP	Physical Training and Yoga	0	0	2	20	10	30	70	1	100
8	DEG-A151	HSM C	Communication Skill in English Lab	0	0	2	20	10	30	70	2	100
TOTAL				8	4	8	160	80	240	560	17	800

Syllabus Diploma

ME. I Year

(Semester -II)

S.N O.	COUR SE COD E	COUR SE OPTE D	SUBJECT	Period per week			EVALUATION SCHEME				Credi t	Subjec t TOTA L
							SESSIONAL EXAM.			EXA M. ESE		
				L	T	P	CT	TA	TOTAL			
THEORY SUBJECTS												
1.	DEM-C201	BSC	Mathematics – II	2	1	0	20	10	30	70	3	100
2.	DAP-C201	BSC	Physics –II	2	1	0	20	10	30	70	3	100
3.	DCE-C201	ESC	Introduction to IT system	2	1	0	20	10	30	70	3	100
4.	DEE-C201	ESC	Fundamental of Electrical Engineering and Electronics Engineering	2	1	0	20	10	30	70	3	100
5.	DEN-A201	HSM C	Environmental Science	2	1	0	20	10	30	70	3	100
PRACTICAL / TRAINING / PROJECT												
6.	DAP-C251	BSC	Physics –II Lab	0	0	2	20	10	30	70	1	100
7.	DCE-C251	ESC	IT system Lab	0	0	2	20	10	30	70	1	100
8.	DEE-C251	ESC	Electrical and Electronics Engineering Lab	0	0	2	20	10	30	70	1	100
9.	DME-C251	ESC	Workshop Practices	0	0	2	20	10	30	70	1	100
10.	DME-C252	ESC	Engineering Graphics lab	0	0	2	20	10	30	70	1	100
TOTAL				10	5	10	200	100	300	700	20	1000

Syllabus

Diploma in ME

(Semester-III)

S.NO	COURSE CODE	COURSE OPTED	SUBJECT	Period per week			EVALUATION SCHEME				Credit	Subject TOTAL
							SESSIONAL EXAM.			EXAM. ESE		
				L	T	P	CT	TA	TOTAL			
THEORY SUBJECTS												
1	DME-C301	ESC	Applied Mechanics	3	1	0	20	10	30	70	4	100
2	DME - C302	ESC	Material Science	3	1	0	20	10	30	70	4	100
3	DME - C303	ESC	Workshop Technology-I	3	1	0	20	10	30	70	4	100
4	DME - C304	ESC	Thermodynamics	3	1	0	20	10	30	70	4	100
PRACTICAL / TRAINING / PROJECT												
5	DME - C352	ESC	Material Science Lab	0	0	2	10	5	15	35	1	50
6	DME - C353	ESC	Workshop Technology-I Lab	0	0	2	10	5	15	35	1	50
7	DME - C354	ESC	Thermodynamics Lab	0	0	2	10	5	15	35	1	50
8	DME - C355	ESC	Machine Drawing Lab	0	0	2	10	5	15	35	1	50
TOTAL				12	4	8	120	60	180	420	20	600

Syllabus

Diploma in ME

(Semester IV)

S.N O.	COUR SE COD E	COUR SE OPTE D	SUBJECT	Period per week			EVALUATION SCHEME				Credi t	Subject TOTAL
							SESSIONAL EXAM.			EXA M. ESE		
				L	T	P	CT	TA	TOTAL			
THEORY SUBJECTS												
1	DME - C401	ESC	Measurement & Metrology	3	1	0	20	10	30	70	4	100
2	DME - C402	ESC	Hydraulic Machine	3	1	0	20	10	30	70	4	100
3	DME - C403	ESC	Fundamental of I.C. Engines and automobile	3	1	0	20	10	30	70	4	100
4	DME - C404	ESC	Strength of Materials	3	1	0	20	10	30	70	4	100
5	DME - C451	ESC	Measurement & Metrology Lab	0	0	2	10	5	15	35	1	50
6	DME - C452	ESC	Hydraulic Machine Lab	0	0	2	10	5	15	35	1	50
7	DME - C453	ESC	Fundamental of I.C. Engines and automobile Lab	0	0	2	10	5	15	35	1	50
8	DME - C454	ESC	Fundamental of Computer Applications Lab	0	0	2	10	5	15	35	1	50
TOTAL				12	4	8	120	60	180	420	20	600

Syllabus

Diploma in ME

(Semester-V)

S.NO	COURSE CODE	COURSE OPTED	SUBJECT	Period per week			EVALUATION SCHEME				Credit	Subject TOTAL
							SESSIONAL EXAM.			EXAM. ESE		
				L	T	P	CT	TA	TOTAL			
THEORY SUBJECTS												
1	DME - C501	ESC	Dynamics of Machine	3	1	0	20	10	30	70	4	100
2	DME - C502	ESC	CNC Machines and Automation	3	1	0	20	10	30	70	4	100
3	DME - C503	ESC	Workshop Technology - II	3	1	0	20	10	30	70	4	100
4	DME - C504	ESC	Industrial Engineering	3	1	0	20	10	30	70	4	100
5	DME - C551	ESC	Dynamics of Machine Lab	0	0	2	10	5	15	35	1	50
6	DME - C552	ESC	CNC Machines and Automation Lab	0	0	2	10	5	15	35	1	50
7	DME - C553	ESC	Workshop Technology – II Lab	0	0	2	10	5	15	35	1	50
8	DME - C560	ESC	Minor Project	0	0	2	10	5	15	35	1	50
TOTAL				12	4	8	160	80	240	560	20	600

Syllabus

Diploma in ME

(Semester-VI)

S.NO.	COURSE CODE	COURSE OPTED	SUBJECT	Period per week			EVALUATION SCHEME				Credit	Subject TOTAL
							SESSIONAL EXAM.			EXAM. ESSE		
				L	T	P	CT	TA	TOTAL			
THEORY SUBJECTS												
1	DME -C601	ESC	CAD (Computer Aided Design)	3	1	0	20	10	30	70	4	100
2	DME -C602	ESC	Refrigeration and Air Conditioning	3	1	0	20	10	30	70	4	100
3	DME -C603	ESC	Productions Management	3	1	0	20	10	30	70	4	100
4	DME -C604	ESC	Maintenance Management	3	1	0	20	10	30	70	4	100
PRACTICAL / TRAINING / PROJECT												
5	DME-C651	ESC	CAD (Computer Aided Design) Lab	0	0	2	10	5	15	35	1	50
6	DME--C652	ESC	Refrigeration and Air Conditioning Lab	0	0	2	10	5	15	35	1	50
7	DME--C660	ESC	Major Project	0	0	4	20	10	30	70	2	100
TOTAL				12	4	8	120	60	180	420	20	600