

Government College of Engineering, Karad

SCHEME OF INSTRUCTION

Programme: Mechanical Engineering

Scheme of Instructions: Third Year B. Tech. in Mechanical Engineering

Semester – V

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Course Credits	EXAM SCHEME				
									CT-1	CT-2	TA/CA	ESE	TOTAL
1	OEC	ME2501	Operations Research	3	-	-	3	3	15	15	10	60	100
2	PCC	ME2502	Metrology & Quality Control	3	-	-	3	3	15	15	10	60	100
3	PCC	ME2503	Heat Transfer	3	-	-	3	3	15	15	10	60	100
4	PCC	ME2504	Machine Design-I	3	-	-	3	3	15	15	10	60	100
5	PEC	ME25*5	Elective – I	3	-	-	3	3	15	15	10	60	100
6	OEC	ME2506	Operations Research Lab	-	-	2	2	1	-	-	50	-	50
7	PCC	ME2507	Metrology & Quality Control Lab	-	-	2	2	1	-	-	25	25	50
8	PCC	ME2508	Heat Transfer Lab	-	-	2	2	1	-	-	25	25	50
9	PEC	ME25*9	Elective – I Lab	-	-	2	2	1	-	-	25	-	25
10	PCC	ME2510	Machine Design-I Lab	-	-	2	2	1	-	-	25	-	25
11	P/S/IT	ME2511	Mini Project	-	-	2	2	1	-	-	25	25	50
12	P/S/IT	ME2512	Industrial Training	-	-	-	-	1	-	-	50	-	50
			Total	15	-	12	27	22	75	75	275	375	800

L- Lecture

T-Tutorial

P-Practical

CT1- Class Test 1

TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2

ESE- End Semester Examination (For Laboratory End Semester performance)

Course Category	HSMC (Hum., Soc. Sc, Mgmt.)	BSC (Basic Sc.)	ESC (Engg. Sc.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective courses from other discipline)	MCC (Mandatory Courses)	Project / Seminar / Industrial Training
Credits	--	--	--	12	04	04	--	02
Cumulative Sum	07	21	23	33	04	08	Yes	03

PROGRESSIVE TOTAL CREDITS: 77+22= 99

Sain
Professor and Head of the
 Dept. of Mechanical Engineering
 Govt. College of Engineering, KARAD

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Programme: Mechanical Engineering

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Semester – VI

Sr. No.	Course Category	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Course Credits	EXAM SCHEME				
									CT-1	CT-2	TA/CA	ESE	TOTAL
1	PCC	ME2601	Control Engineering	3	-	-	3	3	15	15	10	60	100
2	OEC	ME2602	Internal Combustion Engines	3	-	-	3	2	15	15	10	60	100
3	PEC	ME26*3	Elective – II	3	-	-	3	3	15	15	10	60	100
4	PCC	ME2604	Dynamics of Machine	3	-	-	3	3	15	15	10	60	100
5	PCC	ME2605	Manufacturing Engineering@	3	1	-	4	3	15	15	10	60	100
6	PCC	ME2606	Control Engineering Lab	-	-	2	2	1	-	-	25	25	50
7	OEC	ME2607	Internal Combustion Engines Lab	-	-	2	2	1	-	-	25	-	25
8	PCC	ME2608	Dynamics of Machine Lab	-	-	2	2	1	-	-	25	-	25
9	PCC	ME2609	Computer Integrated Manufacturing Lab and Workshop Practice - IV	-	-	2	2	1			50	-	50
10	ESC	ME2610	CAD Lab-I	-	-	2	2	1	-	-	25	-	25
11	HSMC	ME2611	Technical Training & Technical Presentation		-		1	1	-	-	25	-	25
12	HSMC	ME2612	Industrial Psychology	3	-	-	3	3	15	15	10	60	100
			Total	18	01	10	30	23	90	90	235	385	800

L- Lecture

T-Tutorial

P-Practical

CT1- Class Test 1

TA/CA- Teacher Assessment/Continuous Assessment

CT2- Class Test 2

ESE- End Semester Examination (For Laboratory End Semester performance)

Course Category	HSMC (Hum., Soc. Sc, Mgmt.)	BSC (Basic Sc.)	ESC (Engg. Sc.)	PCC (Programme Core courses)	PEC (Programme Elective courses)	OEC (Open Elective courses from other discipline)	MCC (Mandatory Courses)	Project / Seminar / Industrial Training
Credits	04	--	01	12	03	03	--	--
Cumulative Sum	11	21	24	45	07	11	Yes	03

PROGRESSIVE TOTAL CREDITS: 99+23=122

List of PROGRAM ELECTIVE courses:

Semester V		Semester VI		Semester VII				Semester VIII	
Elective – I (Theory and Lab)		Elective – II		Elective – III (Theory and Lab)		Elective – IV		Elective – V (Theory and Lab)	
ME2515	Non- Conventional Machining	ME2613	Additive Manufacturing	ME2712	Refrigeration & Air conditioning	ME2713	Total Quality Management	ME2812	MEMS and NEMS
ME2525	Industrial Automation	ME2623	Welding Technology	ME2722	Maintenance Engineering & Condition Monitoring	ME2723	Industrial Engineering	ME2822	Tribology
ME2535	Computational Fluid Dynamics	ME2633	Energy and Power Engineering	ME2732	Industrial Fluid Power	ME2733	Advanced Casting Technology	ME2832	Automobile Engineering
ME2519	Non- Conventional Machining lab			ME2717	Refrigeration & Air conditioning lab			ME2816	MEMS and NEMS lab
ME2529	Industrial Automation lab			ME2727	Maintenance Engineering & Condition Monitoring lab			ME2826	Tribology lab
ME2539	Computational Fluid Dynamics lab			ME2737	Industrial Fluid Power lab			ME2836	Automobile Engineering lab

COMMON INSTRUCTIONS

Departments shall suggest & execute

1. Bridge courses for the Students Admitting to Direct Second year via Lateral Entry scheme in the III semester. (Diploma students)
2. Bridge courses for the students who may be Admitted in Autonomous mode from University mode.
3. MOOCs for students adapting Industry Mode to fulfil the credit requirements. Copy of certificates / grade card shall be submitted to Controller of Examinations, GCE Karad through Program Coordinator prior to ESE.

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