

SESHASAYEE INSTITUTE OF TECHNOLOGY(AUTONOMOUS),TRICHY-10																
CURRICULUM OUTLINE: TEACHING AND EXAMINATION SCHEME																
Programme : Mechanical Engineering										Course Code : 3G						
Duration of Course : 6 Terms										Pattern : Full Time						
Term : III : Page No:- 86										Duration : 15 Weeks						
Scheme : G										With Effect : 2024-2025						
S. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					Page No.
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	
1	Program Core	Theory	Theory	3G233110	Manufacturing Process	3	0	0	45	3	40	100	100	40	3	87
2	Program Core	Practicum	Theory	3G233230	Strength of Materials	3	0	2	75	4	40	100	100	40	3	95
3	Program Core	Practicum	Practical	3G233340	Metrology and Measurements	1	0	4	75	3	40	100	100	40	3	105
4	Program Core	Practicum	Practical	3G233440	Industrial drives and control	1	0	4	75	3	40	100	100	40	3	112
5	Program Core	Practicum	Practical	3G233540	Production Drawing and Modeling	1	0	4	75	3	40	100	100	40	3	121
6	Program Core	Practical/Lab	Practical	3G233620	Workshop Practices	0	0	4	60	2	40	100	100	40	3	130
7	Open Elective	Advanced Skill Certification	NA	3G233760	AdvancedSkillsCertification-3	1	0	2	60	2	-	-	-	-	-	-
8	Humanities & Social Science	Integrated Learning Experience	NA	3G233880	Growth Lab	0	0	2	30	1	-	-	-	-	-	-
9	Audit Course	Integrated Learning Experience	-	3G233881	Induction Program-II	-	-	-	16	0	-	-	-	-	-	-
10	Audit Course	Integrated Learning Experience	-	3G233882	I&E / Club Activity / Community Initiatives	-	-	-	16	0	-	-	-	-	-	-
11	Audit Course	Integrated Learning Experience	-	3G233883	Shop floor Immersion	-	-	-	8	0	-	-	-	-	-	-
12	Audit Course	Integrated Learning Experience	-	3G233884	Student – Led Initiative	-	-	-	22	0	-	-	-	-	-	-
13	Audit Course	Integrated Learning Experience	-	3G233885	Emerging Technology Seminars	-	-	-	8	0	-	-	-	-	-	-
14	Audit Course	Integrated Learning Experience	-	3G233886	Health & Wellness	0	0	2	30	1	-	-	-	-	-	-
Library									15		-					-
Test & Revisions									30		-					-
TOTAL									640	22	600					-

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TEACHING AND EXAMINATION SCHEME																
Programme : Mechanical Engineering										Course Code : 3G						
Duration of Course : 6 Terms										Pattern : Full Time						
Term : IV : Page No:- 140										Duration : 15 Weeks						
Scheme : G										With Effect : 2024-2025						
S. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					Page No.
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	
1	Program Core	Theory	Theory	3G234110	Advanced Manufacturing Technology	3	0	0	45	4	40	100	100	40	3	141
2	Program Core	Practicum	Theory	3G234230	Fluid Mechanics	2	0	2	60	3	40	100	100	40	3	149
3	Program Core	Practicum	Practical	3G234340	Heat power engineering	2	0	3	75	3	40	100	100	40	3	159
4	Program Core	Practicum	Practical	3G234440	Sensors and Actuators	1	0	4	75	3	40	100	100	40	3	166
5	Program Core	Practical	Practical	3G234520	Advanced Manufacturing Technology Practical	0	0	4	60	2	40	100	100	40	3	174
6	Program Core	Practicum	Practical	3G234640	Machine Tool Technology	1	0	4	75	3	40	100	100	40	3	183
7	Open Elective	Advanced Skill Certification	NA	3G234760	Advanced Skills Certification-4	1	0	2	60	2	-	-	-	-	-	-
8	Audit Course	Integrated Learning Experience	-	3G234882	I&E / Club Activity / Community Initiatives	-	-	-	30	0	-	-	-	-	-	-
9	Audit Course	Integrated Learning Experience	-	3G234883	Shop floor Immersion	-	-	-	8	0	-	-	-	-	-	-
10	Audit Course	Integrated Learning Experience	-	3G234884	Student – Led Initiative	-	-	-	24	0	-	-	-	-	-	-
11	Audit Course	Integrated Learning Experience	-	3G234885	Emerging Technology Seminars	-	-	-	8	0	-	-	-	-	-	-
12	Audit Course	Integrated Learning Experience	-	3G234886	Health & Wellness	-	-	-	30	0	-	-	-	-	-	-
13	Audit Course	Integrated Learning Experience	-	3G234887	Special Interest Groups (Placement Training)	-	-	-	30	0	-	-	-	-	-	-
Library									15		-					-
Test & Revisions									30		-					-
TOTAL									640	20	600					-

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TEACHING AND EXAMINATION SCHEME															
Programme : Mechanical Engineering										Course Code : 3G					
Duration of Course : 6 Terms										Pattern : Full Time					
Term : V : Page No:- 193										Duration : 15 Weeks					
Scheme : G										With Effect : 2024-2025					

S. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	Page No.
1	Program Core	Theory	Theory	3G235110	Elements of Machine Design	3	0	0	45	3	40	100	100	40	3	194
2	Program Core	Practicum	Theory	3G235230	Industrial Engineering and Management	3	0	2	75	4	40	100	100	40	3	202
3	Program Elective (Elective-1)	Practicum	Theory	3G235331	Refrigeration And Air Conditioning	2	0	2	60	3	40	100	100	40	3	212
				3G235332	Green Manufacturing						40	100	100	40	3	221
				3G235333	Composite Materials						40	100	100	40	3	230
4	Program Elective (Elective-2)	Practicum	Practical	3G235441	Automobile Technology	1	0	4	75	3	40	100	100	40	3	255
				3G235442	CNC Programing						40	100	100	40	3	261
				3G235443	HVAC Systems and Components						40	100	100	40	3	271
5	Program Core	Practicum	Practical	3G235540	Maintenance, Repairs & Service	1	0	4	75	3	40	100	100	40	3	294
6	Humanities & Social Science	Practicum	Project	3G235654	Innovation & Startup	1	0	2	45	2	-	-	-	-	-	300
7	Project / Internship	Project/Internship	Project	3G235773	Industrial Training* [Summer Vacation - 90Hours]	-			-	2	-	-	-	-	-	305
8	Open Elective	Advanced Skill Certification	NA	3G235860	Advanced Skills Certification-V	1	0	2	60	2	-	-	-	-	-	-
9	Audit Course	Integrated Learning Experience	-	3G235991	Induction program III	-			40	0	-	-	-	-	-	-
10	Audit Course	Integrated Learning Experience	-	3G235984	Student – Led Initiative	-			30	0	-	-	-	-	-	-
11	Audit Course	Integrated Learning Experience	-	3G235986	Health & Wellness	-			30	0	-	-	-	-	-	-
12	Audit Course	Integrated Learning Experience	-	3G235987	Special Interest Groups (Placement Training)	-			40	0	-	-	-	-	-	-
Library									15		-					-
Test & Revisions									45		-					-
TOTAL									635	22	600					-

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TEACHING AND EXAMINATION SCHEME															
Programme		: Mechanical Engineering									Course Code		: 3G		
Duration of Course		: 6 Terms									Pattern		: Full Time		
Term		: VI : Page No:- 313									Duration		: 15 Weeks		
Scheme		: G									With Effect		: 2024-2025		

Sl. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					Page No.
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	
1	Open Elective Electives-3 (Pathway)	Theory	Theory	3G236111	Advanced Welding Technology	3	0	0	45	3	40	100	100	40	3	314
				3G236112	Electrical Vehicle Technology						40	100	100	40	3	321
				3G236113	Entrepreneurship						40	100	100	40	3	330
2	Open Elective Elective-4 (Specialization)	Practicum	Practical	3G236241	Process Automation	1	0	4	75	3	40	100	100	40	3	369
				3G236242	Maintenance of Machine Tools						40	100	100	40	3	375
				3G236243	MEP Equipment Servicing						40	100	100	40	3	382
3	Industrial Training / Project	Project/Internship	Project	3G23635X	*** In-house Project /Internship/ Fellowship/ Industrial Training (SW)	-			-	12	-	-	-	-	-	414
TOTAL									660	18	-	-	-	-	-	-
3	Industrial Training / Project	Project / Internship		3G236351	Internship	-			540	12	-	-	-	-	-	-
3	Industrial Training / Project	Project / Internship		3G236353	Fellowship	-			540	12	-	-	-	-	-	-
3	Industrial Training / Project	Project / Internship		3G236374	In-house Project	-			540	12	-	-	-	-	-	-
3	Industrial Training / Project	Project/Internship		3G234274	Industrial Training (SW)	-			540	12	-	-	-	-	-	-

Elective –I																
S. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	Page No.
1	Program Elective	Practicum	Theory	3G235331	Refrigeration And Air Conditioning	2	0	2	60	3	40	100	100	40	3	212
2	Program Elective	Practicum	Theory	3G235332	Green Manufacturing	2	0	2	60	3	40	100	100	40	3	221
3	Program Elective	Practicum	Theory	3G235333	Composite Materials	2	0	2	60	3	40	100	100	40	3	230
4	Program Elective	Practicum	Theory	3G235334	Modern QC Tools	2	0	2	60	3	40	100	100	40	3	237
5	Program Elective	Practicum	Theory	3G235335	Value Engineering	2	0	2	60	3	40	100	100	40	3	243
6	Program Elective	Practicum	Theory	3G235336	Lean Manufacturing	2	0	2	60	3	40	100	100	40	3	249
7	Program Elective	Practicum	Theory	3G235337	Inter Discipline Course #	2	0	2	60	3	40	100	100	40	3	-
# courses from other programs with same credit can be considered after proper approval from the Chairman Board of Examinations.																
Elective –II																
1	Program Elective	Practicum	Practical	3G235441	Automobile Technology	1	0	4	75	3	40	100	100	40	3	255
2	Program Elective	Practicum	Practical	3G235442	CNC Programing	1	0	4	75	3	40	100	100	40	3	261
3	Program Elective	Practicum	Practical	3G235443	HVAC Systems and Components	1	0	4	75	3	40	100	100	40	3	271
4	Program Elective	Practicum	Practical	3G235444	Industrial IoT	1	0	4	75	3	40	100	100	40	3	277
5	Program Elective	Practicum	Practical	3G235445	Systems Applications and Products	1	0	4	75	3	40	100	100	40	3	282
6	Program Elective	Practicum	Practical	3G235446	Industrial Robotics	1	0	4	75	3	40	100	100	40	3	288

Elective –III (Pathway)																
Sl. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					Page No
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	
1	Elective / Technologists	Theory	Theory	3G236111	Advanced Welding Technology	3	0	0	45	3	40	100	100	40	3	314
2	Elective / Technologists	Theory	Theory	3G236112	Electrical Vehicle Technology	3	0	0	45	3	40	100	100	40	3	321
3	Elective / Entrepreneurship	Theory	Theory	3G236113	Entrepreneurship	3	0	0	45	3	40	100	100	40	3	330
4	Elective / Technologists	Theory	Theory	3G236114	Power Plant Engineering	3	0	0	45	3	40	100	100	40	3	337
5	Elective / Technologists	Theory	Theory	3G236115	Additive Manufacturing	3	0	0	45	3	40	100	100	40	3	343
6	Elective / Technologists3	Theory	Theory	3G236116	Industry 4.0	3	0	0	45	3	40	100	100	40	3	348
7	Elective / Technologists	Theory	Theory	3G236117	Project Management	3	0	0	45	3	40	100	100	40	3	352
8	Elective / Technologists	Theory	Theory	3G236118	Finance Fundamentals	3	0	0	45	3	40	100	100	40	3	358
9	Elective / Higher Education	Theory	Theory	3G236119	Advanced Engineering Mathematics	3	0	0	45	3	40	100	100	40	3	364
10	Elective / Open Elective	Theory	Theory		Online Elective Courses \$	3	0	0	45	3	-	-	-	-	-	-
\$ Online courses with the same credit available in AICTE, SWAYAM, NPTEL and reputed Institutions with the proper evaluation system and certification can be considered after approval from the Chairman Board of Examinations.																

Elective –IV (Specialization)																
S. No.	Course Category	Course Type	End Exam	Course Code	Course Title	Teaching Scheme			Period	Credit	Scheme of Examination					Page No.
						L	T	P			Internal	Exam	Total	Min. Mark for Pass	Duration	
1	Elective	Practicum	Practical	3G236241	Process Automation	1	0	4	75	3	40	100	100	40	3	369
2	Elective	Practicum	Practical	3G236242	Maintenance of Machine Tools	1	0	4	75	3	40	100	100	40	3	375
3	Elective	Practicum	Practical	3G236243	MEP Equipment Servicing	1	0	4	75	3	40	100	100	40	3	382
4	Elective	Practicum	Practical	3G236244	Non-Destructive Testing	1	0	4	75	3	40	100	100	40	3	289
5	Elective	Practicum	Practical	3G236245	Green Energy and Engineering	1	0	4	75	3	40	100	100	40	3	295
6	Elective	Practicum	Practical	3G236246	Product Design & Development	1	0	4	75	3	40	100	100	40	3	401
7	Elective	Practicum	Practical	3G236247	Reverse Engineering	1	0	4	75	3	40	100	100	40	3	408