

NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM
Curriculum for B. Tech Degree Programme
in
Mechanical Engineering

(Effective from 2017 Admitted Batch onwards)

Semester III							
Sl No	Code	Subject	L	T	P	Credit	Category
1	MA 13101	Mathematics III	3	1	0	4	BS
2	ME 13101	Mechanics of Fluids	3	1	0	4	DCS
3	ME 13102	Elements of Solid Mechanics	3	1	0	4	DCS
4	ME 13103	Thermodynamics	3	1	0	4	DCS
5	ME 13104	Materials Science and Metallurgy	3	0	0	3	DCS
6	ME 13105	Electrical Measurements and Machines	3	0	0	3	BES
7	ME 13201	Machine Drawing	0	0	3	2	DCS
8	EE 13202	Electrical Measurements and Machines Laboratory	0	0	3	2	BES
Total			18	4	6	26	

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Semester IV							
SI No	Code	Subject	L	T	P	Credit	Category
1	MA 14101	Mathematics IV	3	1	0	4	BS
2	ME 14101	Applied Fluid Mechanics	3	0	0	3	DCS
3	ME 14102	Mechanics of Machinery	3	0	0	3	DCS
4	ME 14103	Basic Manufacturing Processes	3	0	0	3	DCS
5	ME 14104	Principles of Heat Transfer	3	1	0	4	DCS
6	ME 14201	Fluid Mechanics & Fluid Machinery Laboratory	0	0	3	2	DCS
7	ME 14202	Strength of Materials Laboratory	0	0	3	2	DCS
8	ME 14203	Production Engineering Laboratory – I	0	0	3	2	DCS
Total			15	2	9	23	

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Semester V							
SI No	Code	Subject	L	T	P	Credit	Category
1	ME 15101	Machine Design I	3	1	0	4	DCS
2	ME 15102	Thermal Engineering I	3	0	0	3	DCS
3	ME 15103	Theory of Metal Cutting	3	0	0	3	DCS
5	ME 15104	Machine Tool Design	3	0	0	3	DCS
6	ME 15105	Dynamics of Machinery	3	0	0	3	DCS
7	ME 15201	Heat Transfer Laboratory	0	0	3	2	DCS
8	ME 15202	Production Engineering Laboratory II	0	0	3	2	DCS
Total			15	1	6	20	

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Semester VI							
SI No	Code	Subject	L	T	P	Credit	Category
1	ME 16101	Thermal Engineering II	3	0	0	3	DCS
2	ME 16102	Metrology and Instrumentation	3	0	0	3	DCS
3	ME 16103	Machine Design II	3	1	0	4	DCS
5	ME 163xx	Elective I	3	0	0	3	DE
6	HS 16101	Professional Communication	2	0	0	2	HL
7	ME 16401	Seminar	0	0	3	2	DCS
8	ME 16201	Dynamics of Machine Laboratory	0	0	3	2	DCS
9	ME 16202	Production Engineering Laboratory III	0	0	3	2	DCS
Total			14	1	8	20	

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Semester VII							
SI No	Code	Subject	L	T	P	Credit	Category
1	HS 17101	Principle of Management & Entrepreneurship	2	0	0	2	HL
2	ME 17101	Refrigeration and Air Conditioning	3	0	0	3	DCS
3	ME 17102	Operations Research	3	0	0	3	DCS
3	ME 173xx	Elective II	3	0	0	3	DE
4	ME 17201	Heat Engines Laboratory	0	0	3	2	DCS
5	ME 17202	Metrology and Instrumentation Laboratory	0	0	3	2	DCS
6	ME 17401	Minor Project	0	0	3	2	DCS
7	ME 17402	Industrial Internship	-	-	-	1	DCS
8	ME 17403	Comprehensive Viva	-	-	-	1	DCS
Total			11	0	9	19	

Semester VIII							
SI No	Code	Subject	L	T	P	Credit	Category
1	HS 18101	Engineering Economics	2	0	0	2	HL
2	ME 183xx	Elective III	3	0	0	3	DE
3	ME 183xx	Elective IV	3	0	0	3	DE
4	ME 18401	Major Project	0	0	9	6	DCS
Total			8	0	9	14	

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