

Sharnbasva University, Kalaburagi

Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2018-19)

III SEMESTER B. Tech (ME)

si.No	Category	Course Code	Course Title	Teaching Dept.& Paper Setting Board	Teaching Hours/week				Examination				credits
								Total contact hours	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Engineering Mathematics-III	Mathematics	3	01		04	3	50	50	100	04
2	PCC	18ME32	Basic Thermodynamics	ME	3	01		04	3	50	50	100	04
3	PCC	18ME33	Manufacturing Process	ME	3			03	3	50	50	100	03
4	PCC	18ME34	Material Science	ME	3			03	3	50	50	100	03
5	ESC	18MEL3	Computer aided machine drawing Lab	ME	01		04	05	3	50	50	100	03
6	PCC	18MEL36	Material science Lab	ME			2	02	3	50	50	100	01
7	PCC	18MEL37	Work shop practiceLab	ME			2	02	3	50	50	100	01
8	MP	18MEMP38	Project-III	ME			2	02	2	50	50	100	01
9	HSMC	18HSM39	Yoga	Humanities	1			01	2	50	50	100	01
Total					14	02	10	26	25	450	450	900	21
Category	BSC-Basic Science Course ,ESC-Engineering Science Course, PCC-Professional Core, HSMC-Humanity and Social Science Course, MP-Mini Project,												

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Sl. No	Category	Course Code	Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week				Examination				Credits
					L	T	P	Total contact hours	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT41	Engineering Mathematics-IV	Mathematics	3	01		04	3	50	50	100	04
2	PCC	18ME42	Fluid mechanics	ME	3			03	3	50	50	100	03
3	PCC	18ME43	Mechanics of Materials	ME	3	01		04	3	50	50	100	04
4	PCC	18ME44	Instrumentation and Metrology	ME	3			03	3	50	50	100	03
5	PCC	18MEL45	Fluid Mechanics Lab	ME			2	02	3	50	50	100	01
6	PCC	18MEL46	Instrumentation and Measurement Lab	ME			2	02	3	50	50	100	01
7	PCC	18MEL47	Foundry and forging Lab	ME			2	02	3	50	50	100	01
8	MP	18MEM48	Project-IV	ME			2	02	2	50	50	100	01
9	HSMC	18KK46/18MD46	Kannada Kalli-4 / Mahadasohigallu	Humanities	1			01	2	50	50	100	01
Total					13	02	8	23	25	450	450	900	19

Category	BSC-Basic Science, PCC-Professional Core, HSMC-Humanity and Social Science, MP-Mini project
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V SEMESTER B.Tech. (MECHANICAL ENGINEERING)

Sl.No	Category	Course Code	Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week				Examination				Credits
					L	T	P	Total Contact Hours	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	HSMC	18HSMC51	Management and Entrepreneurship Development	Humanities	3			03	3	50	50	100	03
2	PCC	18ME52	Applied Thermodynamics	ME	3	1		04	3	50	50	100	04
3	PEC	18ME53X	Professional Elective -1	ME	3	1		04	3	50	50	100	04
4	OEC	18XX54X	Open Elective -1	ME	3			03	3	50	50	100	03
5	PCC	18MEL55	Fluid machines Lab	ME			2	02	3	50	50	100	01
6	PCC	18MEL56	Machine shop Lab	ME			2	02	3	50	50	100	01
7	PCC	18MEL57	Design /Machine dynamics lab	ME			2	02	3	50	50	100	01
8	MP	18MEMP58	Project-V	ME			2	02	2	50	50	100	01
9	HSMC	18HSM59	Professional Ethics	Humanities			2	02	2	50	50	100	01
Total					13	02	10	25	25	450	450	900	19

Category PCC-Professional Core Course , PEC- Professional Elective Course, OEC- Open Elective Course, HSMC-Humanity and Social Science Course, MP-Mini Project

rofessional Elective-1		Open Elective-1	
18ME531	Machine Tools Operations	18ME541	Refrigeration and air conditioning
18ME532	Computational Fluid dynamics	18ME542	Supply chain Management
18ME533	Turbo machines	18ME543	Alternative fuels for transportation
18ME534	Composite material technology	18ME544	Micro-electromechanical system

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VI SEMESTER B.Tech. (MECHANICAL ENGINEERING)													
Sl. No	Category	Course Code	Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week				Examination				Credits
					L	T	P	Total Contact Hours	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	HSMC	18ME61	Theory of Machines	ME	3			3	3	50	50	100	03
2	PCC	18ME62	Design of Machine Elements	ME	3	01		4	3	50	50	100	04
3	PEC	18ME63X	Professional Elective-2	ME	3	01		4	3	50	50	100	04
4	OEC	18XX64X	Open Elective-2	ME	3			3	3	50	50	100	03
5	PCC	18MEL65	Energy Conversion Lab	ME			2	2	3	50	50	100	01
6	PCC	18MEL66	CAMA Lab	ME			2	2	3	50	50	100	01
7	PCC	18MEL67	CIM Lab	ME			2	2	3	50	50	100	01
8	MP	18MEMP68	Project-VI	ME			2	2	2	50	50	100	01
9	HSMC	18HSM69	Placement training	Humanities			2	2	2	50	50	100	01
Total					13	02	10	25	25	450	450	900	19
Category	PCC-Professional Core Course , PEC- Professional Elective Course, OEC- Open Elective Course, HSMC-Humanity and Social Science Course, MP-Mini Project, MEI-Mechanical Internship,MES- Mechanical Seminar												

Professional Elective-2		Open Elective-2	
18ME631	Finite Element Methods	18ME641	Computer Integrated Manufacturing
18ME632	Automation & Robotics	18ME642	Financial Management
18ME633	Non Traditional Machining	18ME643	Total Quality Management
18ME634	Additive Manufacturing	18ME644	Human Resource management

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VII SEMSTER B.Tech : Mechanical Engineering

Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18ME71	Control Engineering	ME	2	2		3	50	50	100	04
2	PEC	18ME72X	Hydraulics & Pneumatics	ME	3			3	50	50	100	03
3	PEC	18ME73X	Heat & Mass Transfer	ME	3			3	50	50	100	04
4	OEC	18ME74X	Energy Engineering	ANY BRANCH	3			3	50	50	100	03
5	PCC	18MEL75	HMT Lab	ME			2	3	50	50	100	01
6	PCC	18MEL76	Hydraulics & Pneumatics Lab	ME			2	3	50	50	100	01
7	PEC	18MEL77	EE Virtual Lab	ME			2	3	50	50	100	01
8	MP	18MEMP78	Project-vii	ME			2	2	50	50	100	01
9	HSMC	18HSM79	Industrial Psychology and Organizational Behavior	ANY BRANCH	2			2	50	50	100	01
Total					13	2	8	25	450	450	900	19

PROFESSIONAL ELECTIVE-4		
SL NO	Sub Code	Sub Name
1	18ME721	Hydraulics & Pneumatics
2	18ME722	Experimental Stress Analysis
3	18ME723	Research Methodology
4	18ME724	Computational Fluid Dynamics
PROFESSIONAL ELECTIVE-5		
1	18ME731	Heat & Mass Transfer
2	18ME732	Fracture Mechanics
3	18ME733	Advanced Material Technology
4	18ME734	Continuum Mechanics
OPEN ELECTIVE-2		
1	18ME741	Energy Engineering
2	18ME742	Disaster Management
3	18ME743	Management & Entrepreneurship
4	18ME744	Operation Research

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VIII SEMSTER B.Tech : Mechanical Engineering

Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	Internship	18MEI81	Internship				-	3	50	50	100	03
2	Project	18MEP82	Project				16	3	50	50	100	08
3	Seminar	18MES83	Technical Seminar				4	3	50	50	100	02
TOTAL							20	9	150	150	300	13