

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

TEACHING AND EXAMINATION SCHEME FOR BACHELOR OF TECHNOLOGY (MECHANICAL ENGINEERING)

III SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	MAT 104	Advanced Engineering Mathematics	03	01	--	3.5
2	BME 301	Engineering Thermodynamics	03	01	--	3.5
3	BME 302	Strength of Materials	03	01	--	3.5
4	BCE 303	Fluid Mechanics	03	01	--	3.5
5	BME 304	Production Engineering-I	03	--	--	3.0
6	BCS 302	Object Oriented Programming With C++	03	--	--	3.0
7	BME 305	Thermal Engineering Lab	--	--	02	1.0
8	BME 306	Strength of Material Lab	--	--	02	1.0
9	BCE 307	Fluid Mechanics Lab.	--	--	02	1.0
10	BME 308	Production Engineering Lab-I	--	--	02	1.0
11	BCS 305	Object Oriented Programming With C++ Lab.	--	--	02	1.0
12	ENG 115	Soft Skill & Professional Aptitude	--	--	02	1.0
Total			18	04	12	26

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IV SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BME 401	Heat Transfer	03	01	--	3.5
2	BME 402	Production Engineering-II	03	--	--	3.0
3	BME 403	Theory of Machine -I	03	01	--	3.5
4	BME 404	Materials Science	03	--	--	3.0
5	BME 405	Mechanical Measurement and Metrology	03	--	--	3.0
6	BME 406	Project management	03	--	--	3.0
7	BME 407	Production Engineering Lab-II	--	--	02	1.0
8	BME 408	Mechanical Measurement and Metrology Lab	--	--	02	1.0
9	BME 409	Machine Drawing lab	--	--	02	1.0
10	BME 410	Theory of Machine -I	--	--	02	1.0
11	BME 411	Heat Transfer Lab.	--	--	02	1.0
12	MGT 101	Sociology and Elements Of Economics	--	--	02	1.0
13	MGT 110	General Aptitude	--	--	02	1.0
Total			18	02	14	26

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V SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BME 501	Fluid Machines	03	--	--	3.0
2	BME 502	Gas Dynamics	03	--	--	3.0
3	BME 503	Theory of Machine-II	03	01	--	3.5
4	BME 504	Internal Combustion Engines	03	--	--	3.0
5	BME 505	Machine Design-I	03	--	--	3.0
6	BME 506	Mechatronics	03	--	--	3.0
7	BME 507	Fluid Machines Lab	--	--	02	1.0
8	BME 508	Gas Dynamics Lab	--	--	02	1.0
9	BME 509	Internal Combustion Engine Lab	--	--	02	1.0
10	BME 510	Machine Design Sessional-I	--	--	02	1.0
11	BME 511	Theory of Machine Lab -II	--	--	02	1.0
12	BME 512	*Skill Development Course	--	--	02	1.0
Total			18	01	12	24.5

*Skill Development Course: AutoCAD

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VI SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BME 601	Refrigeration and Air conditioning	03	--	--	3.0
2	BME 602	Automobile Engineering	03	--	--	3.0
3	BME 603	Machine Design –II	03	01	--	3.5
4	BME 604	Operation Research	03	01	--	3.5
5	BME 605	Finite Element Method	03	--	--	3.0
6	MGT 102	Entrepreneur development	03	--	--	3.0
7	BME 606	RAC Lab	--	--	02	1.0
8	BME 607	Automobile Engineering Lab.	--	--	02	1.0
9	BME 608	Machine Design Sessional-II	--	--	02	1.0
10	BME 609	Finite Element Method Sessional	--	--	02	1.0
11	BME 610	Industrial Engg. Lab	--	--	02	1.0
12	BME 611	Campus Recruitment Training(Technical)	--	--	02	1.0
Total			18	02	12	25

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VII SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BME 701	Power Plant Engineering	03	--	--	3.0
2	BME 702	Computer Integrated Manufacturing	03	--	--	3.0
3	BME 703	Mechanical Vibration	03	01	--	3.5
4		Elective-I	03	--	--	3.0
5		Open Elective	03	--	--	3.0
6	BME 710	Project	--	--	06	3.0
7	BME 712	Mechanical Vibration Lab	--	--	02	1.0
8	BME 713	Computer Integrated Manufacturing Lab	--	--	02	1.0
9	MGT 103	Project Formulation and Appraisal Techniques	--	--	02	1.0
10	BME 714	Power Plant Engineering Lab	--	--	02	1.0
11	BME 715	Basic Industrial Robotics	--	--	02	1.0
Total			15	01	16	23.5

Elective –I: - BME 704 Theory of Combustion and Emission BME 705 Tribology BME 706 Welding Technology BME 707 Introduction of Bio-Mechanics BME 708 Computational Fluid Dynamics BME 709 Product Design & Development BME 711 Production and operation Management & Optimization BME 716 Sustainable Manufacturing	Open elective CHY 201 Non-conventional energy resources BEE 305 Electrical Machine BCS 511 JAVA BCE 725 Environmental Impact Assessment
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VIII SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BME 801	INDUSTRIAL TRAINING (INTERNSHIP)	--	--	--	16