

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

TEACHING AND EXAMINATION SCHEME FOR BACHELOR OF TECHNOLOGY (ROBOTICS 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	BEC 301	Electronics Devices and Circuits	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-I	--	--	02	1.0
10	BEC 306	Electronics Devices and Circuits Lab.	--	--	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	BEE 402	Electrical and Electronics Measurement & Instrumentation	03	01	--	3.5
2	BEC 405	Analog Communication	03	01	--	3.5
3	BME 403	Theory of Machine -I	03	01	--	3.5
4	BEC 402	Microprocessor& Interfacing	03	01	--	3.5
5	BEC 406	Signals and System	03	--	--	3.0
6	MAT 130	Numerical Methods	03	--	--	3.0
7	BEE 406	Electrical and Electronics Measurement & Instrumentation Lab	--	--	02	1.0
8	BEC 407	Microprocessor & Interfacing Lab.	--	--	02	1.0
9	BME 410	Theory of Machine -I	--	--	02	1.0
10	BEC 410	Signals Processing using MAT Lab.-I	--	--	02	1.0
11	MGT 101	Sociology and Elements Of Economics	--	--	02	1.0
12	MGT 110	General Aptitude	--	--	02	1.0
Total			18	04	12	26

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V SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BEE 501	Power Electronics	03	01	--	3.5
2	BME 502	Gas Dynamics	03	--	--	3.0
3	BME 503	Theory of Machine-II	03	--	--	3.0
4	BEE 502	Control System Engineering	03	--	--	3.0
5	BME 505	Machine Design-I	03	01	--	3.5
6	BEC 502	Microcontroller & Embedded System	03	--	--	3.0
7	BEE 506	Power Electronics Lab.	--	--	02	1.0
8	BME 508	Gas Dynamics Lab.	--	--	02	1.0
9	BEC 508	Microcontroller & Embedded System Lab.	--	--	02	1.0
10	BME 510	Machine Design Sessional-I	--	--	02	1.0
11	BME 511	Theory of MachineLab –II	--	--	02	1.0
12	BME 512	*Skill Development Course	--	--	02	1.0
Total			18	02	12	25

*Skill Development Course: AutoCAD

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VI SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BEE 612	Electromechanical Energy Conversion and D.C. Machines	03	01	--	3.5
2	BEC 602	Digital Communication	03	01	--	3.5
3	BEC 604	CMOS Digital Integrated Circuits	03	--	--	3.0
4	BEC 615	Industrial Automation System	03	--	--	3.0
5	MGT 102	Entrepreneurship Development	03	--	--	3.0
6	BME 605	Finite Element Method	03	--	--	3.0
7	BEC 610	Digital Communication Lab	--	--	02	1.0
8	BEE 613	Electromechanical Energy Conversion and D.C. Machines Lab.	--	--	02	1.0
9	BEC 612	VLSI and VHDL Lab.	--	--	02	1.0
10	BME609	Finite Element Method Lab	--	--	02	1.0
11	BME 611	Campus Recruitment Training(Technical)	--	--	02	1.0
Total			18	02	10	24

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VII SEMESTER

Sr. No.	Subject Code	Subject Title	Teaching Hours			Credit
			Lecture	Tutorial	Practical	
1	BEC 716	Robotics & Flexible Automation System	03	--	--	3.0
2	BME 702	Computer Integrated Manufacturing	03	--	--	3.0
3	BME 703	Mechanical Vibration	03	--	--	3.0
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	BEC 717	Robotics Lab.	--	--	02	1.0
9	BME 713	Computer Integrated Manufacturing Lab	--	--	02	1.0
10	MGT 103	Project Formulation and Appraisal Techniques	--	--	02	1.0
11	BME 715	Basic Industrial Robotics	--	--	02	1.0
Total			15	01	16	23

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	BME801	INDUSTRIAL TRAINING (INTERNSHIP)	--	--	--	16