

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

TEACHING AND EXAMINATION SCHEME FOR B.TECH. (ELECTRICAL ENGINEERING)

III SEMESTER

Course Code	Course Type	Course Name	L*	T*	P*	Total Hour	Credit
MAT 105	BS	Advance Engineering Mathematics	3	1	-	4	3.5
BEC 301	OE	Electronics Devices and Circuits	3	-	-	3	3
BEC 303	OE	Digital Electronics	3	-	-	3	3
BEE 301	PC	Circuit Analysis	3	-	-	3	3
BCS 302	OC	Object Oriented Programming with C++	3	1	-	4	3.5
BEE 302	PC	Electrical Machines -I	3	-	-	3	3
BEC 306	OE	Electronics Devices and Circuits Lab	-	-	2	2	1
BEC 307	OE	Digital Electronics Lab	-	-	2	2	1
BCS 305	OE	Object Oriented Programming Lab	-	-	2	2	1
BEE 303	PC	Electrical Machines Lab- I			2	2	1
ENG115	BS	Soft Skill & Professional Aptitude	-	-	2	2	1
MGT 201	HSM	Orientation Program in Entrepreneurship	-	-	2	2	1
		Total	18	2	12	32	25

L*-Lecture, T*-Tutorial, P*-Practical

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IV SEMESTER

Course Code	Course Type	Course Name	L*	T*	P*	Total Hour	Credit
BEE 401	PC	Circuit Analysis & Synthesis	3	1	-	4	3.5
BEE 402	PC	Electrical and Electronics Measurement and Instrumentation	3	-	-	3	3
BEC 402	OE	Microprocessor and Interfacing	3	-	-	3	3
MGT 101	OE	Sociology and Elements of Economics	3	-	-	3	3
BEE 403	PC	Generation of Electrical power	3	-	-	3	3
BEE 404	PC	Electrical Machines -II	3	1	-	4	3.5
BEE 405	PC	Circuit Analysis & Synthesis Lab	-	-	2	2	1
BEE 406	PC	Electrical and Electronics Measurement and Instrumentation Lab	-	-	2	2	1
BEC 407	OE	Microprocessor and Interfacing Lab	-	-	2	2	1
BEE 407	PC	Electrical Machines Lab- II	-	-	2	2	1
MGT 110	HSM	General Aptitude	-	-	2	2	1
MGT 202	HSM	Basic Program in Entrepreneurship	-	-	2	2	1
		Total	18	2	12	32	25

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V SEMESTER

Course Code	Course Type	Course Name	L*	T*	P*	Total Hour	Credit
BCS 401	OE	Data Base Management Systems	3	-	-	3	3
BEE 501	PC	Power Electronics	3	1	-	4	3.5
BEE 502	PC	Control System Engineering	3		-	3	3
BEE 503	PC	Transmission & Distribution of Electrical Power	3	1	-	4	3.5
BEE 504	PC	Smart Grid Technology	3	-	-	3	3
	PE	Program Elective Course-I	3	-	-	3	3
BEE 505	PC	Smart Grid Lab	-	-	2	2	1
BEE 506	PC	Power Electronics Lab	-	-	2	2	1
BCS 404	OE	Data Base Management Systems Lab	-	-	2	2	1
BEE 507	PC	Control Systems Lab	-	-	2	2	1
MGT 203	HSM	Foundation Program in Entrepreneurship	-	-	2	2	1
		Total	18	2	10	30	24

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Elective I

BEC 502- Microcontroller & Embedded System

BEE 508- Advance Distribution System

BEC 603- Digital Signal Processing

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VI SEMESTER

Course Code	Course Type	Course Name	L*	T*	P*	Total Hour	Credit
BEE 601	PC	Power System Analysis	3	1	-	4	3.5
BEE 602	PC	Advance Control Theory	3		-	3	3
BEE 603	PC	Advance Power Electronics	3	1	-	4	3.5
BEE 604	PC	Electric Drive & their Control	3		-	3	3
BEE 605	PC	Utilization of Electrical Energy & Electric Traction	3	-	-	3	3
	PE	Program Elective Course-II	3	-	-	3	3
BEE 606	PC	Power System Analysis Lab	-	-	2	2	1
BEE 607	PC	Advance Power Electronics Lab	-	-	2	2	1
BEE 608	PC	Electric Drive & their Control Lab	-	-	2	2	1
BEE 609	PC	Advance Simulation Laboratory	-	-	2	2	1
BEE 610	PC	Campus Recruitment Training -I (Technical)	-	-	2	2	1
MGT 204	HSM	Intermediate Program in Entrepreneurship	-	-	2	2	1
		Total	18	2	12	32	25

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Elective II

BEC 504 -Advance Microprocessors
 BEE 611- Power System Instrumentation
 BEC 608 - Information Theory and Coding

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VII SEMESTER

Course Code	Course Type	Course Name	L*	T*	P*	Total Hour	Credit
MGT 103	HSM	Project Formulation & Appraisal Techniques	3		-	3	3
BEE 701	PC	High Voltage Engineering	3	-	-	3	3
BEE 702	PC	Switchgear and Relaying	3	-	-	3	3
BEE 703	PC	EHV AC/DC Transmission	3	-	-	3	3
	PE	Elective -III	3	-	-	3	3
	PE	Elective -IV	3	-	-	3	3
BEE704	PC	Power System Modeling & Simulation Lab	-	-	2	2	1
BEE 705	PC	High Voltage Engineering Lab	-	-	2	2	1
BEE 706	PR	Project Stage -I	-	-	2	2	1
BME 715	OE	Basic Industrial Robotics	-	-	2	2	1
BEE 707	ST	Seminar	-	-	2	2	1
BEE 708	PC	Campus Recruitment Training-II (Technical)	-	-	2	2	1
		Total	18	-	12	30	24

Elective III

- BEE 709 - Renewable Energy Sources
- BEE 710 - Computer Aided Design of Electrical Machines
- BCS 717 -Artificial Neural Networks
- BEE 711- Flexible AC Transmission
- BEE 712 -Power System Planning
- BCS 718- Neuro-Fuzzy System

Elective IV

- BEE 713 - Power system Engineering
- BEE 714 - Advance Power System
- BCS 301 - Data Structure & Algorithm
- BEE 715 - Industrial Automation and PLCs
- BEE 716 - Electrical Machine Design
- BEE 717- Design Estimation & Costing

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(ELECTRICAL ENGINEERING)****VIII SEMESTER**

Course Code	Course Type	Course Name	L*	T*	P*	Total Hour	Credit
BEE 801	ST	Practical Training in Industry (one semester)	-		-	-	16