

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

TEACHING AND EXAMINATION SCHEME FOR B.Tech. PROGRAM (ELECTRONICS & COMMUNICATION ENGINEERING)

III SEMESTER							
Course Code	Course Name	Cat. Code	Teaching Scheme				Contact Hours
			L*	T*	P*	CP*	
MAT 105	Advanced Engineering Mathematics	BS	3	1	-	3.5	4
BEC 301	Electronics Devices and Circuits	PC	3	-	-	3	3
BEC 302	Electronic Materials & Processes	PC	3	-	-	3	3
	ELECTIVE - I	PE	3	-	-	3	3
	OPEN ELECTIVE- I	OE	3	1	-	3.5	4
MAT 106	Random Variables and Stochastic Processes	BS	3	0	-	3	3
BEC 306	Electronics Devices and Circuits lab	PC	-	-	2	1	2
	ELECTIVE - II	PE	-	-	2	1	2
	OPEN ELECTIVE- II	OE	-	-	2	1	2
MGT 201	Orientation Program in Entrepreneurship	HSM	-	-	2	1	2
ENG 115	Soft Skill & Professional Aptitude	BS	-	-	2	1	2
	Total		18	2	10	24	30

L*-Lecture, T*-Tutorial, P*-Practicals, I.A*- Internal Assessment, CP*-Credit Points

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IV SEMESTER							
Course Code	Course Name	Cat. Code	Teaching Scheme				Contact Hours
			L*	T*	P*	CP*	
BEE 401	Circuit Analysis and Synthesis	OE	3	1	-	3.5	4
BEE 402	Electrical & Electronics Measurement and Instrumentation	OE	3	-	-	3	3
BEC 401	Electromagnetic Field Theory	PC	3	1	-	3.5	4
	ELECTIVE - III	PE	3	-	-	3	3
BEC 405	Analog Communication	PC	3		-	3	3
BEC 406	Signals & Systems	PC	3	-	-	3	3
BEE 406	Electrical & Electronics Measurement and Instrumentation Lab	OE	-	-	2	1	2
	ELECTIVE- IV	PE	-	-	2	1	2
BEC 409	Analog Communication lab	PC	-	-	2	1	2
BEC 410	Signal processing using MATLAB –I	PC	-	-	2	1	2
MGT 202	Basic Programme in Entrepreneurship	HSM	-	-	2	1	2
MGT 110	General Aptitude	BS	-	-	2	1	2
	Total		18	2	12	25	32

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V SEMESTER							
Course Code	Course Name	Cat. Code	Teaching Scheme				Contact Hours
			L*	T*	P*	CP*	
BEC 501	Linear Integrated Circuit	PC	3	1	-	3.5	4
BEE 501	Power Electronics	OE	3	1	-	3.5	4
BEE 502	Control System Engineering	OE	3	-	-	3	3
	ELECTIVE V	PE	3	-	-	3	3
BEC 505	Telecommunication Engineering	PC	3	-	-	3	3
	OPEN ELECTIVE III	OE	3	-	-	3	3
BEC 506	Linear Integrated Circuit Lab	PC	-	-	2	1	2
BEE 506	Power Electronics Lab	OE	-	-	2	1	2
	ELECTIVE VI	PE	-	-	2	1	2
	OPEN ELECTIVE IV	OE	-	-	2	1	2
MGT 203	Foundation Program in Entrepreneurship	HSM	-	-	2	1	2
	Total		18	2	10	24	30

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VI SEMESTER							
Course Code	Course Name	Cat. Code	Teaching Scheme				Contact Hours
			L*	T*	P*	CP*	
BEC 601	Microwave Engineering	PC	3	-	-	3	3
BEC 602	Digital Communication	PC	3	1	-	3.5	4
BEC 603	Digital Signal Processing	PC	3	1	-	3.5	4
	ELECTIVE VII	PE	3	-	-	3	3
BEC 607	Computer Network and Data Communication	PC	3	-	-	3	3
BEC 608	Information Theory & Coding	PC	3	-	-	3	3
BEC 609	Microwave Engineering Lab	PC	-	-	2	1	2
BEC 610	Digital Communication Lab	PC	-	-	2	1	2
BEC 611	Signal processing lab with MAT Lab-II	PC	-	-	2	1	2
	ELECTIVE VIII	PE	-	-	2	1	2
BEC 614	Campus Recruitment Training – I (Technical)	PC	-	-	2	1	2
MGT 204	Intermediate Program in Entrepreneurship	HSM	-	-	2	1	2
	Total		18	2	12	25	32

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VII SEMESTER							
Course Code	Course Name	Cat. Code	Teaching Scheme				Contact Hours
			L*	T*	P*	CP*	
BEC 701	Antenna & Wave Propagation	PC	3	-	-	3	3
BEC 702	RADAR Engineering & Satellite Communication	PC	3	-	-	3	3
BEC 703	Wireless Communication	PC	3	-	-	3	3
BEC 704	Optical Communication	PC	3	-	-	3	3
	ELECTIVE - IX	PE	3	-	-	3	3
	ELECTIVE - X	PE	3	-	-	3	3
BEC 711	Advance Communication Lab	PC	-	-	2	1	2
BEC 712	Antenna & Wave Propagation Lab	PC	-	-	2	1	2
BEC 713	Project Stage -I	PR	-	-	2	1	2
MGT 103	Project Formulation and Appraisal	HSM	-	-	2	1	2
BEC 714	Seminar	ST	-	-	2	1	2
BEC 715	Campus Recruitment Training – II (Technical)	PC	-	-	2	1	2
BME 512	Basic Industrial Robotics Lab	OE	-	-	2	1	2
	Total		18	-	14	25	32

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VIII SEMESTER							
Course Code	Course Name	Cat. Code	Teaching Scheme				
			L*	T*	P*	Credit	Total Hour
BEC 801	Internship (one semester)	ST	-	-	-	16	-
	Total		-	-	-	16	-

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PROGRAM ELECTIVES	
Code No	ELECTIVE- I
BEC 303	Digital Electronics
BEC 304	Analog Electronics
BEC 305	Optoelectronics
ELECTIVE- III	
BEC 402	Microprocessor and Interfacing
BEC 403	Analog Integrated Circuits
BEC 404	Digital Logic Design
ELECTIVE - V	
BEC 502	Microcontroller & Embedded System
BEC 503	Design of Digital Control System
BEC 504	Advanced Microprocessor
ELECTIVE - VII	
BEC 604	CMOS Digital Integrated Circuit
BEC 605	MEMS & Microsystems
BEC 606	Neuro Fuzzy Systems
BEC 615	Industrial Automation Systems
ELECTIVE - IX	
BEC 705	Biomedical Engineering
BEC 706	Filter Design

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BEC 707	Integrated Circuit Technology
BEC 716	Robotics & Flexible Automation System
	ELECTIVE - II
BEC 307	Digital Electronics lab
BEC 308	Analog Electronics Lab
	ELECTIVE - IV
BEC 407	Microprocessor & Interfacing Lab
BEC 408	Analog Integrated Circuit Lab
	ELECTIVE - VI
BEC 507	Advanced Microprocessor Lab
BEC 508	Microcontroller & Embedded System Lab
	ELECTIVE - VIII
BEC 612	VLSI and VHDL LAB
BEC 613	MEMS & Microsystems Lab on COMSOL
	ELECTIVE - X
BEC 708	Image Processing
BEC 709	Artificial Neural Network
BEC 710	Digital System Design Using VHDL
BEC 717	Robotics Lab

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OPEN ELECTIVE	
	OPEN ELECTIVE - I
BCS 302	Object Oriented Programming with C++
BCS 301	Data Structure And Algorithms
BCS 402	Software Engineering
	OPEN ELECTIVE - II
BCS 305	Object Oriented Programming with C++ lab
BCS 304	Data Structure lab
BCS 405	Software System Design Lab
	OPEN ELECTIVE - III
BCS 511	Programming in JAVA
BCS 401	Database Management Systems
BCS 501	Operating System
	OPEN ELECTIVE - IV
BCS 508	Programming in JAVA Lab
BCS 404	Database Management Systems Lab
BCS 506	Operating System Lab