

(Effective from the academic session 2019-20)
GURUKULA KANGRI VISHWAVIDYALAYA, HARIDWAR
Faculty of Engineering & Technology
Electronics & Communication Engineering

B. Tech. First Year
Syllabus in accordance with AICTE Model Curriculum

SEMESTER-I

DSC/SEC/DSE/ AEC	SUBJECT	PERIODS			EVALUATION SCHEME				Subject Total	Credits
					SESSIONAL EVALUATION			EXAM ESE		
		L	T	P	CT	TA	Total			
THEORY										
BAP-C102	Engineering Physics	3	1	0	20	10	30	70	100	4
BEM-C102	Engineering. Mathematics– I	3	1	0	20	10	30	70	100	4
BET-C102	Electronic Devices	3	1	0	20	10	30	70	100	4
BEE-C102	Basic Electrical Engineering	3	1	0	20	10	30	70	100	4
TOTAL CREDITS										16
BHU-S102	Vedic Science and Engineering	2	0	0	20	10	30	70		0
	Induction Program	for first three weeks								0
PRACTICAL										
BAP-C151	Engineering Physics Lab	0	0	2	10	5	15	35	50	1
BET-C151	Electronic Devices Lab	0	0	2	10	5	15	35	50	1
BEE-C151	Basic Electrical Engineering Lab	0	0	2	10	5	15	35	50	1
BME-C152	Workshop Practice	0	0	2	10	5	15	35	50	1
TOTAL CREDITS										4
BSP-S151	Physical Training and Yoga	0	0	2	10	5	15	35		0
TOTAL		14	4	10	120	60	180	420	600	20

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SEMESTER-II

DSC/SEC/DSE /AEC	SUBJECT	PERIODS			EVALUATION SCHEME				Subject Total	Credits
					SESSIONAL EVALUATION			EXA M ESE		
		L	T	P	CT	TA	Total			
THEORY										
BAC-C202	Engineering Chemistry	3	1	0	20	10	30	70	100	4
BEM-C202	Engineering Mathematics – II	3	1	0	20	10	30	70	100	4
BCE-C202	Programming for Problem Solving	3	1	0	20	10	30	70	100	4
BME-C203	Basic Mechanical Engineering	3	0	0	20	10	30	70	100	3
TOTAL CREDITS										15
BEN-A202	Environmental Studies	2	0	0	20	10	30	70		0
PRACTICAL										
BAC-C251	Engineering Chemistry Lab	0	0	2	10	5	15	35	50	1
BCE-C251	Programming for Problem Solving Lab	0	0	2	10	5	15	35	50	1
BME-C253	Engineering Graphics and Design Lab	1	0	2	10	5	15	35	50	2
BEG-A251	Technical Communication Lab	0	0	2	10	5	15	35	50	1
TOTAL CREDITS										5
TOTAL		15	3	8	120	60	180	420	600	20

Note: The students have to undergo an industrial training/mini project/internship program during summer vacation (June –July) after II semester examination. The report and certificate of completion of training program has to be submitted in the department which will be evaluated in III semester. Also the students have to present PPT of the industrial training/mini project/internship for presentation in the department.

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SEMESTER-III

DSC/SEC/DSE/ AEC	SUBJECT	PERIODS			EVALUATION SCHEME				Subject Total	Credits	
					SESSIONAL EVALUATION			EXAM ESE			
		L	T	P	CT	TA	Total				
THEORY											
BEM-C301	Engineering Mathematics- III	3	1	0	20	10	30	70	100	4	
BET-C301	Analog Communication	3	0	0	20	10	30	70	100	3	
BCE-C301	Data Structure-I	3	0	0	20	10	30	70	100	3	
BCE-C302	Computer Architecture and Organization	3	0	0	20	10	30	70	100	3	
BET-C302	Digital System Design	3	0	0	20	10	30	70	100	3	
TOTAL CREDITS										16	
PRACTICAL											
BET-C351	Analog Communication Lab	0	0	2	10	5	15	35	50	1	
BCE-C351	Data Structure-I Lab	0	0	2	10	5	15	35	50	1	
BET-C352	Digital System Design Lab	0	0	2	10	5	15	35	50	1	
BET-S351	Summer Training and Internship Program-I/mini project (3-4 weeks)	To be pursued during summer vacation, submit a certificate of completion in the department (in summer break after II semester exam and will be assessed during III semester)									1
TOTAL CREDITS										4	
TOTAL		15	1	8	130	65	195	455	650	20	

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SEMESTER-IV

DSC/SEC/DS E/AEC	SUBJECT	PERIODS			EVALUATION SCHEME				Subject Total	Credits
					SESSIONAL EVALUATION			EXA M ESE		
		L	T	P	CT	TA	Tota l			
THEORY										
BET-C401	Digital Communication	3	0	0	20	10	30	70	100	3
BEE-C406	Electrical Circuits Analysis	3	1	0	20	10	30	70	100	4
BET-C402	Microprocessor and Interfacing	3	0	0	20	10	30	70	100	3
BET-C403	Electromagnetic waves	3	0	0	20	10	30	70	100	3
BET-C404	VLSI Design and Technology	3	0	0	20	10	30	70	100	3
TOTAL CREDITS										16
BKT-A401	BharateyaJnanaparampara	2	0	0	20	10	30	70		0
PRACTICAL										
BET-C451	Microprocessor Lab	0	0	2	10	5	15	35	50	1
BET-C452	Circuit Simulation Lab	0	0	2	10	5	15	35	50	1
BET-C453	Digital Communication Lab	0	0	2	10	5	15	35	50	1
BET-C481	Seminar	0	0	2	10	5	15	35	50	1
TOTAL CREDITS										4
TOTAL		17	1	8	140	70	210	490	700	20

Note: The students have to undergo an industrial training/mini project/internship program during summer vacation (June –July) after IV semester examination. The report and certificate of completion of training program has to be submitted in the department which will be evaluated in V semester. Also the students have to present PPT of the industrial training/mini project/internship.