


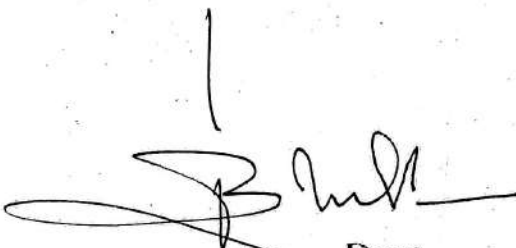
**Mandatory non-credit courses**

Program Name: B.Tech. (Electrical Engineering)  
 BoS Approval date: 28/8/2021

S.No.	Couse Name	L	T	P
1.	Environmental Sciences	3	0	0
2.	Summer internship	0	0	0
<b>Total:</b>		<b>3</b>	<b>0</b>	<b>0</b>

  
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 Bareilly-243123, UP

  
**Dean**  
 Faculty of Engineering & Technology  
 Invertis University  
 Bareilly-243123, UP

  
**Registrar**  
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**Humanities & Social science courses**

Program Name: B.Tech. (Electrical Engineering)  
 BoS Approval date: 28/08/2021

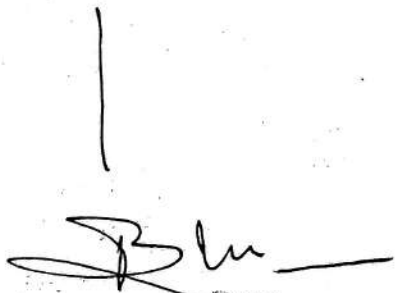
S.No.	Couse Name	L	T	P	C
1	Human values and Ethics	3	0	0	3
2	Entrepreneurship Development	3	0	0	3
	<b>Total:</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>6</b>



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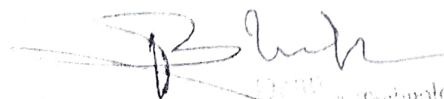
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**INVERTIS UNIVERSITY, BAREILLY**  
**Faculty of Engineering (Electrical Engineering)**  
**Curriculum Analysis (Course Category)**

**Regulation: 2021**

Category	L	T	P	C
AECC (Ability Enhancement Competency Course)	9	0	0	6
Skill Enhancement Elective (SEE)	5	2	14	17
Discipline Specific Course (DSC)	37	4	24	52
General Elective Course (GSC)	57	0	0	57
Cross Cutting Course (CCC)	8	0	2	9
Discipline Specific Electives (DSE)	51	0	0	0
<b>Total</b>	<b>167</b>	<b>6</b>	<b>40</b>	<b>141</b>

  
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**INVERTIS UNIVERSITY, BAREILLY**  
**Faculty of Engineering (Electrical Engineering)**

**AECC COURSES LIST**


**Regulation: 2021**

Course code	Course Name	L	T	P	C
BHS601	Human Values and Ethics	3	0	0	3
BMC001	Environmental Sciences	3	0	0	0
BHS701	Entrepreneurship Development	3	0	0	3
	Summer Internship Project & Viva	0	0	0	0
	<b>TOTAL</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>6</b>

  
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**Skill Specific Elective Courses List**


**Regulation: 2021**


Sr. No.	Course Code	Course Title	L	T	P	C
1	BCE 101	Engineering Graphics and Design	1	0	0	1
2	BCE 151	Engineering Graphics and Design Lab	0	0	4	2
3	BEE 101	Basic Electrical Engineering	3	1	0	4
4	BEE 151	Basic Electrical Engineering Lab	0	0	4	2
5	BCS 201	Programming for Problem Solving	2	1	0	3
6	BCS 251	Programming for Problem Solving Lab	0	0	4	2
7	BME 201	Workshop/Manufacturing Practices	1	0	0	1
8	BME 251	Workshop/Manufacturing Practices Lab	0	0	4	2
		Total	5	2	14	17



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**INVERTIS UNIVERSITY, BAREILLY**  
**Faculty of Engineering (Electrical Engineering)**

**Discipline Specific Course List**


**Regulation: 2021**

S.No.	Course Code	Course Title	L	T	P	C
1	BEE301	Electrical Circuit Analysis	3	1	0	4
2	BEE302	Digital Electronics	3	0	0	3
3	BEE351	Digital Electronics Laboratory	0	0	2	1
4	BEE303	Electrical Machines – I	3	0	0	3
5	BEE352	Electrical Machines Laboratory - I	0	0	2	1
6	BEE304	Electromagnetic Fields	2	1	0	3
7	BEE401	Analog Electronics	3	0	0	3
8	BEE451	Analog Electronics Laboratory	0	0	2	1
9	BEE402	Electrical Machines – II	3	0	0	3
10	BEE452	Electrical Machines Laboratory - II	0	0	2	1
11	BEE403	Power Electronics	3	0	0	3
12	BEE453	Power Electronics Laboratory	0	0	2	1
13	BEE404	Signals and Systems	2	1	0	3
14	BEE501	Power Systems -I	3	1	0	3
15	BEE551	Power Systems Laboratory -I	0	0	2	1
16	BEE502	Control Systems	3	0	0	3
17	BEE552	Control Systems Laboratory	0	0	2	1
18	BEE503	Microprocessors	3	0	0	3
19	BEE553	Microprocessors Laboratory	0	0	2	1
20	BEE601	Power Systems - II	3	0	0	3
21	BEE651	Power Systems Laboratory - II	0	0	2	1
22	BEE652	Measurements and Instrumentation Lab	2	0	2	3
23	BEE653	Electronic Design Laboratory	1	0	4	3
		Total	37	4	24	52

  
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**INVERTIS UNIVERSITY, BAREILLY**  
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**Generic Elective Courses List**

**Regulation: 2021**

S. No.	Code No.	Subject	L	T	P	Credits
1	BOE001	Electronic Devices	3	0	0	0
2	BOE002	Data Structures and Algorithms	3	0	0	3
3	BOE003	Analog and Digital Communication	3	0	0	3
4	BOE004	Computer Networks	3	0	0	3
5	BOE005	Embedded Systems	3	0	0	3
6	BOE006	VLSI circuits	3	0	0	3
7	BOE007	Image Processing	3	0	0	3
8	BOE008	Wavelet Transforms	3	0	0	3
9	BOE009	Power Plant Engineering	3	0	0	3
10	BOE010	Thermal and Fluid Engineering	3	0	0	3
11	BOE011	Strength of Materials	3	0	0	3
12	BOE012	Fluid Machinery	3	0	0	3
13	BOE013	Automobile Engineering	3	0	0	3
14	BOE014	Electrical Materials	3	0	0	3
15	BOE015	Modern Manufacturing Processes	3	0	0	3

  
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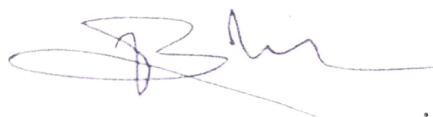
  
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16	BOE016	Internet of Things	3	0	0	3
17	BOE017	Big Data Analysis	3	0	0	3
18	BOE018	Introduction to Python	3	0	0	3
19	BOE019	Introduction to Machine Learning	3	0	0	3
		TOTAL	57	0	0	57

  
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**Cross Cutting Courses List**

**Regulation: 2021**

Sr. No.	Course Code	Course Title	L	T	P	C
1	HAS 201	English	2	0	0	2
2	HAS 251	English Lab	0	0	2	1
3	BHS 601	Human Values & Ethics	3	0	0	3
4	BHS 701	Entrepreneurship Development	3	0	0	3
		Total	8	0	2	9



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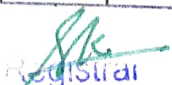
**INVERTIS UNIVERSITY, BAREILLY**  
**Faculty of Engineering (Electrical Engineering)**  
**Discipline Specific Elective List**

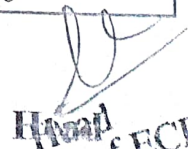
**Regulation: 2021**

Sr. No.	Course Code	Course Title	L	T	P	Credits
1	BPE501	Electrical Machine Design	3	0	0	3
2	BPE603	High Voltage Engineering	3	0	0	3
3	BPE604	Electrical Energy Conservation and Auditing	3	0	0	3
4	BPE605	Industrial Electrical Systems	3	0	0	3
5	BPE606	Digital Control Systems	3	0	0	3
6	BPE607	Digital Signal Processing	3	0	0	3
7	BPE608	Computer Architecture	3	0	0	3
8	BPE609	Electromagnetic Waves	3	0	0	3
9	BPE610	Computational Electromagnetics	3	0	0	3
10	BPE611	Control Systems Design	3	0	0	3
11	BPE701	Wind and Solar Energy Systems	3	0	0	3
12	BPE702	Electrical and Hybrid Vehicles	3	0	0	3
13	BPE703	Power System Protection	3	0	0	3
14	BPE704	HVDC Transmission Systems	3	0	0	3
15	BPE705	Power Quality and FACTS	3	0	0	3
16	BPE706	Power System Dynamics and Control	3	0	0	3
17	BPE801	Advanced Electric Drives	3	0	0	3
		<b>Total</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>

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