

STUDY & EVALUATION SCHEME
B.TECH: ELECTRICAL ENGINEERING (LATERAL)
II YEAR: III SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BEE3005	Electrical Circuit Analysis	3	1	0	40	60	100	4
2	BEE3006	Electrical Machines-I	3	0	0	40	60	100	3
3	BEE3007	Engineering Material	3	0	0	40	60	100	3
4	BMA3010-EE	Mathematics-III	3	1	0	40	60	100	4
5	-	Open Elective-I	3	0	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
6	BEE3502	Networks Lab	0	0	2	80	20	100	1
7	BEE3504	Electrical Machines-I Lab	0	0	2	80	20	100	1
TOTAL			15	02	04	360	340	700	19
8	BEE3001-PS	*Power System Stability and Control	3	0	0	40	60	100	3
	BEE3001-PE	**Utilization of Electrical Energy and Traction	3	0	0	40	60	100	3
	BEE3001-RE	***Solar Energy	3	0	0	40	60	100	3

L - Lecture
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SPECIALIZATION STREAMS:

*Power System Stability and Control
**Utilization of Electrical Energy and Traction
***Solar Energy

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II YEAR: IV SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BEE4005	Electrical Machines-II	3	0	0	40	60	100	3
2	BEE4006	Signal and System	2	1	0	40	60	100	3
3	BEE4007	Analog and Digital Electronics	3	1	0	40	60	100	4
4	BEE4008	Electromagnetic Fields	3	1	0	40	60	100	4
5	BME4005	Engineering Mechanics	3	1	0	40	60	100	4
6	BBT4023	Biology	2	0	0	40	60	100	2
7	BSS4001	Soft Skills and Inter Traditional Knowledge	2	0	0	100	00	100	2
8	XHUX602	Essence of Indian Traditional Knowledge	2	0	0	Satisfactory/ Unsatisfactory			0
PRACTICAL/ TRAINING/PROJECT									
9	BEE4505	Electrical Machines-II Lab	0	0	2	80	20	100	1
10	BEE4506	Electronics Lab	0	0	2	80	20	100	1
TOTAL			20	04	04	500	400	900	24

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III YEAR: V SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BEE5009	Power System I	3	1	0	40	60	100	4
2	BEE5010	Control System	3	0	0	40	60	100	3
3	BEE5006	Micro- Processor and Micro-Controller	3	0	0	40	60	100	3
4	BEE5011	EMMI	3	0	0	40	60	100	3
5	---	Open Elective-II	3	0	0	40	60	100	3
6	---	Open Elective-III	3	0	0	40	60	100	3
7	XLAX601	Constitution of India	2	0	0	Satisfactory/ Unsatisfactory			0
PRACTICAL/ TRAINING/PROJECT									
8	BEE5506	Power System I Lab	0	0	2	80	20	100	1
9	BEE5502	Control Lab	0	0	2	80	20	100	1
10	BEE5505	Micro- Processor Lab	0	0	2	80	20	100	1
11	BAP5501	Aptitude and Reasoning and Online Test	0	0	2	100	-	100	0
TOTAL			20	01	08	580	420	1000	22
12	BEE5001-PS	*Power Distribution System and Reliability	3	0	0	40	60	100	3
	BEE5001-PE	**Special Machines	3	0	0	40	60	100	3
	BEE5001-RE	***Wind Energy, Micro Hydro and Renewable Energy Technologies	3	0	0	40	60	100	3

SPECIALIZATION STREAMS:

* Power Distribution System and Reliability

** Special Machines

*** Wind Energy, Micro Hydro and Renewable Energy Technologies

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III YEAR: VI SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BEE6006	Power System II	3	1	0	40	60	100	4
2	BEE6007	Power System Operation and Control	3	0	0	40	60	100	3
3	BEE6008	Measurement and Instrumentation	3	0	0	40	60	100	3
4	BEE6001	Power Electronics	3	1	0	40	60	100	4
5	---	Department Elective-I	3	0	0	40	60	100	3
6	---	Open Elective-IV	3	0	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
7	BEE6507	Power System II Lab	0	0	2	80	20	100	1
8	BEE6508	Measurement and Instrumentation Lab	0	0	2	80	20	100	1
9	BEE6501	Power Electronics Lab	0	0	2	80	20	100	1
10	BEE6502	Seminar	0	0	2	100	-	100	1
11	XEEX601	Industrial Visit	0	0	0	Satisfactory / Unsatisfactory			0
12	BAP6501	Aptitude and Reasoning and Online Test	0	0	2	100			-
TOTAL			18	02	10	680	420	1100	24
13	BEE6001-PS	*Power System Security	3	0	0	40	60	100	3
	BEE6001-PE	**Active Power Conditioning	3	0	0	40	60	100	3
	BEE6001-RE	***Smart Grid	3	0	0	40	60	100	3

SPECIALIZATION STREAMS:

*Power System Security
**Active Power Conditioning
***Smart Grid

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IV YEAR: VII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	BEE7002	Switch Gear and Protection	3	0	0	40	60	100	3
2	--	Department Elective II	3	0	0	40	60	100	3
3	---	Department Elective III	3	0	0	40	60	100	3
4	---	Open Elective - V	3	0	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
5	BEE7508	Project Stage - I	0	0	6	100	00	100	3
6	BEE7503	Summer Training (During Summer Vacation)	0	0	2	100	00	100	1
TOTAL			12	00	08	360	240	600	16
7	BEE7001-PS	*Advanced Power System Protection	3	0	0	40	60	100	3
	BEE7001-PE	**HVDC Systems	3	0	0	40	60	100	3
	BEE7001-RE	***Fuel and Combustion Technology	3	0	0	40	60	100	3
8	BEE7002-PS	*Power System Economics	4	0	0	40	60	100	4
	BEE7002-PE	**Advanced Power Electronics	4	0	0	40	60	100	4
	BEE7002-RE	***Power System for Renewable Energy Sources	4	0	0	40	60	100	4

SPECIALIZATION STREAMS:

*Power System-PS

**Power Electronics and Electric Drives-PE

***Renewable Energy-RE

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IV YEAR: VIII SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	---	Department Elective IV	3	0	0	40	60	100	3
2	---	Department Elective V	3	0	0	40	60	100	3
3	---	Open Elective ---VI	3	0	0	40	60	100	3
PRACTICAL/ TRAINING/PROJECT									
4	BEE8504	Project Stage - II	0	0	16	80	20	100	6
TOTAL			09	00	16	200	200	400	15
5	BEE8001-PS	*Power Quality	4	0	0	40	60	100	4
	BEE8001-PE	**Power Quality	4	0	0	40	60	100	4
	BEE8001-RE	***Energy Auditing and Management	4	0	0	40	60	100	4

TOTAL (III SEM – VIII SEM)	94	9	50	2680	2020	3800	119
GRAND TOTAL (INCLUDING IST YEAR)	118	15	70	3600	2700	5400	157

SPECIALIZATION STREAMS:

*Power System-PS

**Power Electronics and Electric Drives-PE

***Renewable Energy-RE

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LIST OF ELECTIVES

OPEN ELECTIVE LIST

S. NO.	SUBJECT CODE	SUBJECT NAME	DEPARTMENT TO OFFER	SEMESTER	O.E.
1.	BHU3301	Organizational Psychology	HU	III	OR-I
	BHU3302	Organization Sociology			
2.	BEC5301	Electronics Engineering	EC	V	OE-II
	BMA5301	Operational Research	MA		
	BCS5301	Computer Network	CS		
3.	BMG5301	Economics	Management	V	OE-III
	BMG5302	Principal of Management			
4.	BEC6301	Electronic Devices	EC	VI	OE-IV
	BME6301	Project Management	ME		
	BCS6301	Web Technologies	CS		
5.	BEC7303	Analog and Digital Communication	EC	VII	OE-V
	BME7304	Total Quality Management	ME		
	BCS7303	Database System	CS		
6.	BEC7304	Antenna and Propagation	EC	VII	OE-VI
	BME7305	Maintenance Engineering and Management	ME		
	BCS7304	E-Commerce	CS		
7.	BEC8303	Satellite Communication	EC	VIII	OE-VII
	BME8303	Strength of Material	ME		
	BCS8305	Cyber Security and Cyber Laws	CS		
8.	BEC8304	Mobile Communication and Network	EC	VIII	OE-VIII
	BME8304	Thermal and Fluid Engineering	ME		
	BCS8303	Enterprise Resource Planning	CS		

LIST OF DEPARTMENTAL ELECTIVES

S. NO.	SUBJECT CODE	SUBJECT NAME	DEPARTMENT TO OFFER	SEMESTER	O.E.
1.	BEE6104	Smart Grid	EE	VI	D.E.-I
	BEE6105	Electrical Drives			
	BEE6105	High Voltage Engineering			
2.	BEE7105	Line Commutated and Active Rectifiers	EE	VII	D.E.-II
	BEE7106	Electrical and Hybrid Vehicles			
	BEE7107	Electrical Machine Design			
3.	BEE8103	HVDC Transmission Systems	EE	VIII	D.E.-III
	BEE8104	Power Quality and FACTS			
	BEE8105	Industrial Electrical Systems			