

	Sharnbasva University, Kalaburagi Scheme of Teaching and Examination 2018-19 Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (With effect from the academic year 2018-19)											
	III SEMESTER B. Tech (EEE)											
Sl. No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Engineering Mathematics-III	Mathematics	4			3	50	50	100	04
2	PCC	18EE32	Electric Circuit Analysis	EEE/ECE	3	1		3	50	50	100	04
3	PCC	18EE33	Electrical Machines-I	EEE	3	1		3	50	50	100	04
4	PCC	18EE34	Measurement and digital electronics	EEE/ECE	3	1		3	50	50	100	04
5	PCC	18EEL35	Electrical Machines Lab-I	EEE			2	3	50	50	100	01
6	PCC	18EEL36	Digital electronics Lab	EEE/ECE			2	3	50	50	100	01
7	PCC	18EEL37	Electrical and Electronics Measurement Lab	EEE			2	3	50	50	100	01
8	PRJ	18PRJ38	Project-III	EEE			2	3	50	50	100	01
9	HSMC	18KANK3 10/20KAN AK310	Aaydakathgalu/ kannadakali-III	Humanities	1			2	50	50	100	01
Total					14	3	08	26	450	450	900	21
	BSC-Basic Science, PCC-Professional Core, HSMC-Humanity and Social Science, PR-Project, NCMC- Non-credit mandatory course.											
	Courses prescribed to lateral entry and B. Sc degree holders admitted to III semester of Engineering programs											
10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	3	1		3	50	50	100	00

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IV SEMESTER B.Tech (EEE)												
Sl.No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	L	Teaching Hours/week		Examination				Credits
						T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT41	Engineering Mathematics-IV	Mathematics	4			3	50	50	100	04
2	PCC	18EE42	Power Generation, Transmission and Distribution.	EEE	3	1		3	50	50	100	04
3	PCC	18EE43	Electrical Machines-II	EEE	3	1		3	50	50	100	04
4	PCC	18EE44	Control systems	EEE /ECE	3	1		3	50	50	100	04
5	PCC	18EEL45	Control systems Lab	EEE /ECE			2	3	50	50	100	01
6	PCC	18EEL46	Electrical Machines-II Lab	EEE			2	3	50	50	100	01
7	PCC	18EEL47	Op-amp and Linear Ics Lab	ECE			2	3	50	50	100	01
8	PRJ	18PRJ48	Project-IV	EEE			2	3	50	50	100	01
9	HSMC	18KANKK 410/20KA NMD410	MahaDasohigalu/ Kannadakali-IV	Humanities	1			2	50	50	100	01
Total					14	3	08	26	450	450	900	21
	BSC-Basic Science, PCC-Professional Core, HSMC-Humanity and Social Science, MP-Mini project											
	Courses prescribed to lateral entry and B. Sc degree holders admitted to III semester of Engineering programs											
10	NMC	18MATDIP41	Additional Mathematics - II	Mathematics	3	1		3	50	50	100	00
	*EVERY STUDENT SHOULD UNDERGO MOOC SUBJECT ATLEAST ONCE, DURING THE ENTIRE COUSRE WITH CREDIT 4											

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	V SEMESTER B.Tech (EEE)											
Sl.No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	HSMC	18ES51	Management & Entrepreneurship Development	MBA	3	1		3	50	50	100	04
2	PCC	18EE52	Power system analysis – 1	EEE	3	1		3	50	50	100	04
3	PCC	18EE53	Signals and Systems	EEE/ECE	3	1		3	50	50	100	04
4	PEC	18EE54X	Professional Elective-1	EEE	3			3	50	50	100	03
5	PCC	18EEL55	Electric Circuit analysis lab	EEE/ECE			2	3	50	50	100	01
6	PCC	18EEL56	Signals and Systems Lab	EEE/ECE			2	3	50	50	100	01
7	PEC	18EEL57	Power system protection and switchgear Lab	EEE			2	3	50	50	100	01
8	PRJ	18PRJ58	Project-V	EEE			2	3	50	50	100	01
9	HSMC	18HSM59	Soft Skills	Humanities			4	2	50	50	100	01
Total					12	3	12	26	450	450	900	20
	PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, HSMC-Humanity and Social Science, MP-Mini Project											

Professional Elective-1	
18EE541	Power system protection and switchgear
18EE542	Electrical Engineering Materials
18EE543	Estimating Costing
18EE544	Special Electric Machines

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	VI SEMESTER B.Tech (EEE)											
Sl.No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18EE61	Microcontroller	EEE/ECE	3	1		3	50	50	100	04
2	PEC	18EE62	Power Electronics	EEE /ECE	3			3	50	50	100	03
3	PEC	18EE63X	Professional Elective-2	EEE	3			3	50	50	100	03
4	OEC	18XX64X	Open Elective-1	EEE	3			3	50	50	100	03
5	PCC	18EEL65	Microcontroller Lab	EEE			2	3	50	50	100	01
6	PEC	18EEL66	Power Electronics Lab	ECE			2	3	50	50	100	01
7	PEC	18EEL67	Digital Signal processing Lab	ECE			2	3	50	50	100	01
8	PRJ	18PRJ68	Project-VI	EEE			2	3	50	50	100	01
9	HSMC	18HSM69	Professional Ethics	Humanities			2	2	50	50	100	01
Total					12	1	10	26	450	450	900	18
	PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, HSMC-Humanity and Social Science, MP-Mini Project											

Professional Elective-2		Open Elective-1	
18EE631	Digital Signal processing	18XX641	Electronic Communication System
18EE632	Computer Aided Electrical Drawing	18XX642	Electromagnetic Field Theory
18EE633	Advanced Power Electronics	18XX643	Programmable Logic Controller
18EE634	Solar and Wind Energy	18XX644	Business Communication

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	VII SEMESTER B.Tech (EEE)											
Sl.No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	Teaching Hours/week			Examination				Credits
					L	T	P	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18EE71	Power System Analysis-2	EEE	3	1		3	50	50	100	04
2	PEC	18EE72X	Professional elective -4	EEE	3			3	50	50	100	03
3	PEC	18EE73X	Professional elective -5	EEE	3			3	50	50	100	03
4	OEC	18XX74X	Open elective-2	EEE	3			3	50	50	100	03
5	PCC	18EEL75	Power System Analysis-2 Lab	EEE			2	3	50	50	100	01
6	PEC	18EEL76	High Voltage Engineering Lab	EEE			2	3	50	50	100	01
7	PEC	18EEL77	Computer Aided Electrical Drawing	EEE			2	3	50	50	100	01
8	PRJ	18PRJ78	Research Project/ Filed Project -7	EEE			2	3	50	50	100	01
9	HSMC	18HSM79	Industrial Psychology and Organizational Behavior	Humanities			2	2	50	50	100	01
Total					12	1	10	26	450	450	900	18
	Note:- Project 7-Real life problem solving project/ Research Project/Filed Project											
	PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, PRJ-Project,HSMC-Humanity and Social Science											

Professional Elective-4		Professional Elective-5		Open Elective-2	
18EE721	High Voltage Engineering	18EE731	Advanced Control Systems	18EE741	Renewable Energy Resources
18EE722	Sensors and Transducers	18EE732	FACTs and HVDC Transmission	18EE742	Operation and Maintenance of Solar Electric Systems
18EE723	Smart Grid	18EE733	Utilization of Electrical Power and Electrical Vehicles	18EE743	Energy Conservation and Energy Audit
18EE724	Power System Planning	18EE734	Industrial Drives and Applications		
18EE725	Research Methodology & IPR		MOOC(SWAYAM) Subject		
	MOOC(SWAYAM) Subject				

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VIII SEMESTER B.Tech (EEE)

Sl.No	Course Code		Course Title	Teaching Dept. & Paper Setting Board	No of weeks	Examination				Credits
						Training/ Learning/ Practice/ Implementation	Duration in hours	CIE Marks	SEE Marks	Total Marks
1	Project	18PRJ81	Research Project/ Field Project -8		4	3	50	50	100	08
2	Internship	18EEI82	Internship		12	3	50	50	100	13
Total					16	06	100	100	200	21

Note:- Project 8-Manufacturable and marketable project/ Research Project/ Field Project

Summary

Sl.No.	Category	AICTE Credits	SUK Credits
1	HSMC	12	05
2	BSC	25	26
3	ESC	24	20
4	PCC	48	60
5	PEC	18	13
6	POC	18	13
7	PROJECT/SEMINAR/INTERNSHIP	15	16
8	NCMC	(3)	(3)
	Total	160	156

OPEN ELECTIVE

SEMESTER/ SUBJECT	V	VI	VII	VIII
		Electronic Communication System	Energy Audit and Demand side Management	Operation and Maintenance of Solar Energy Systems
		Electromagnetic Field Theory	Artificial Neural Networks	Electric Vehicles
		Programmable Logic Controller	Batteries And Fuel Cells for commercial, Military and Space applications	Industrial Motors and Control
		Business Communication	Sensors and Transducers	Testing, Commissioning of power system apparatus

PROFESSIONAL ELECTIVE

	V	VI	VII	VIII
	Power system protection and switchgear	Digital Signal processing	Advanced Control Systems	FACTs and HVDC Transmission
	Electrical Engineering Materials	Computer Aided Electrical Drawing	Electric Machine Design	Power system planning
	Estimating Costing	Advanced Power Electronics	Carbon Capture and Storage	Reconfigurable Computing
	Special Electric Machines	Solar and Wind Energy	Utilization of Electrical Power	Robotics