

Sharnbasva University, Kalaburagi
Scheme of Teaching and Examination 2018-19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
 (Effective from the academic year 2018-19)

III SEMESTER B.Tech (E & CE)

Sl. No	Course Code		Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
1	BSC	18MAT31	Engineering Mathematics-III	Mathematics	3	1	0	3	50	50	100	04
2	PCC	18EC32	Analog Circuits	ECE	3	1	0	3	50	50	100	04
3	PCC	18EC33	Digital System Design	ECE	3	1	0	3	50	50	100	04
4	PCC	18EC34	Network Analysis	ECE	3	1	0	3	50	50	100	04
5	PCC	18ECL35	Analog Circuits Lab	ECE	0	0	2	3	50	50	100	01
6	PCC	18ECL36	Digital System Design Lab	ECE	0	0	2	3	50	50	100	01
7	PCC	18ECL37	Network Analysis Lab	ECE	0	0	2	3	50	50	100	01
8	PRJ	18PRJ38	Project-III	ECE	0	0	2	3	50	50	100	01
9	HSMC	18KANKK310 /20KANAK310/ 18HSM39	Kannada Kali-III/ Aayda Kategalu / Yoga	Humanities	1	0	0	3	50	50	100	01
Total					13	4	08	27	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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V SEMESTER B.Tech (E & CE)

Sl. No	Course Code		Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/Drawing	Duration in Hours	CIE Marks	SEE Marks	Theory Lecture	
1	HSMC	18ES51	Management and Entrepreneurship Development	Humanities	4	0	0	3	50	50	100	04
2	PCC	18EC52	Digital Signal Processing	ECE	3	1	0	3	50	50	100	04
3	PCC	18EC53	Electromagnetic waves and Antennas	ECE	3	1	0	3	50	50	100	04
4	PEC	18EC54X	Professional Elective -1	ECE	3	0	0	3	50	50	100	03
5	PCC	18ECL55	Digital Signal Processing Lab	ECE	0	0	2	3	50	50	100	01
6	PCC	18ECL56	Electromagnetic waves and Antennas Lab	ECE	0	0	2	3	50	50	100	01
7	PEC	18ECL57X	Professional Elective-1 Lab	ECE	0	0	2	3	50	50	100	01
8	PRJ	18PRJ58	Project-V	ECE	0	0	2	3	50	50	100	01
9	HSMC	18HSM59	Soft Skills	Humanities	1	0	0	3	50	50	100	01
Total					14	2	08	27	450	450	900	20
PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, HSMC-Humanity and Social Science, PRJ-Project												
SI NO	Professional Elective -1		Subject Code		Professional Elective -1 Lab			Subject Code				
1	Verilog HDL		18EC541		Verilog HDL Lab			18ECL571				
2	Microprocessor 8086		18EC542		Microprocessor 8086 Lab			18ECL572				

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Sl.No	Course Code		Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Theory Lecture	
1	PCC	18EC61	VLSI Circuits	ECE	3	1	0	3	50	50	100	04
2	PEC	18EC62X	Professional Elective-2	ECE	3	0	0	3	50	50	100	03
3	PEC	18EC63X	Professional Elective-3	ECE	3	0	0	3	50	50	100	03
4	OEC	18XX64X	Open Elective -1	ECE	3	0	0	3	50	50	100	03
5	PCC	18ECL65	VLSI Lab	ECE	0	0	2	3	50	50	100	01
6	PEC	18ECL66X	Professional Elective-2 Lab	ECE	0	0	2	3	50	50	100	01
7	PEC	18ECL67X	Professional Elective-3 Lab	ECE	0	0	2	3	50	50	100	01
8	PRJ	18PRJ68	Project-VI	ECE	0	0	2	3	50	50	100	01
9	HSMC	18HSM69	Professional Ethics	Humanities	1	0	0	3	50	50	100	01
Total					13	1	08	27	450	450	900	18
PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, HSMC-Humanity and Social Science, PR-Project												

COURSE CODE UNDER 18EC62X	COURSE TITLE	COURSE CODE UNDER 18ECL66X	COURSE TITLE
18EC621	Arm Cortex M3 & Embedded Systems	18ECL661	Embedded Systems Lab
18EC622	Machine Learning	18ECL662	Machine Learning Lab
PROFESSIONAL ELECTIVE-3			
COURSE CODE UNDER 18EC63X	COURSE TITLE	COURSE CODE UNDER 18ECL67X	COURSE TITLE
18EC631	IOT Technology	18ECL671	IOT Lab
18EC632	Wireless Sensor Networks	18ECL672	Wireless Sensor Networks Lab
OPEN ELECTIVE-1			
COURSE CODE UNDER 18XX64X	COURSE TITLE		
18EC641	Control System		
18EC642	Automotive Electronics		

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VII SEMESTER B.Tech (E & CE)	
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Sl. No.	Course Code		Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18EC71	Computer networks		3	1	0	3	50	50	100	04
2	PEC	18EC72X	Professional elective -4		3	0	0	3	50	50	100	03
3	PEC	18EC73X	Professional elective -5		3	0	0	3	50	50	100	03
4	OEC	18XX74X	Open elective -2		3	0	0	3	50	50	100	03
5	PCC	18ECL75	Computer networks Lab		0	0	2	3	50	50	100	01
6	PEC	18ECL76X	Professional elective -4 Lab		0	0	2	3	50	50	100	01
7	PEC	18ECL77X	Professional elective -5 Lab		0	0	2	3	50	50	100	01
8	PRJ	18PRJ78	Project – 7		0	0	2	3	50	50	100	01
9	HSMC	18HSM79	Industrial Psychology and Organizational Behavior	Humanities	1	0	2	3	50	50	100	01
Total					13	1	08	27	450	450	900	18

Note:- Project 7-Real life problem solving project / Research Project/ Field Project	
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	PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, PRJ- Project, HSMC-Humanity and Social Science
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PROFESSIONAL ELECTIVE-4			
COURSE CODE UNDER 18EC72X	COURSE TITLE	COURSE CODE UNDER 18ECL76X	COURSE TITLE
18EC721	Power Electronics	18ECL761	Power Electronics Lab
18EC722	Image And Video Processing	18ECL762	Image And Video Processing Lab
18EC723	Low Power VLSI Circuits	18ECL763	Low Power VLSI Circuits Lab
18EC724	Programming In Python	18ECL764	Programming In Python Lab
PROFESSIONAL ELECTIVE-5			
COURSE CODE UNDER 18EC73X	COURSE TITLE	COURSE CODE UNDER 18ECL77X	COURSE TITLE
18EC731	DSP Algorithms And Architectures	18ECL771	DSP Algorithms And Architectures Lab
18EC732	Optical Communication Network	18ECL772	Optical Communication Network Lab
18EC733	Smart Agriculture	18ECL773	Smart Agriculture Lab
18EC734	Cryptography & Network Security	18ECL774	Cryptography & Network Security Lab
OPEN ELECTIVE-2			
COURSE CODE UNDER 18XX74X	COURSE TITLE		
18EC741	Robotics		
18EC742	Embedded Systems		
18EC743	IOT & its Application		
18EC744	Signal Processing		

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VIII SEMESTER B.Tech (E & CE)	
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Sl. No.	Course Code		Course Title	Teaching Department	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	18ECI82	Internship		12	3	50	50	100	13
Total					16	6	100	100	200	21
	Note: Project 8-Manufacturable and marketable project / Research Project/ Field Project									