III S	SEMES	ГER										
					Teachi /Week	ng Hour	s		Exami	nation		
SI. No		Course and Course Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р				-	
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques (Common to all Branches)	Mathematics	2	2		03	40	60	100	3
2	PCC	18EE32	Electric Circuit Analysis	EEE	3	2		03	40	60	100	4
3	PCC	18EE33	Transformers and Generators	EEE	3	0		03	40	60	100	3
4	PCC	18 EE 34	Analog Electronic Circuits	EEE	2	2		03	40	60	100	3
5	PCC	18 EE 35	Digital System Design	EEE	3	0		03	40	60	100	3
6	PCC	18 EE 36	Electrical and Electronic Measurements	EEE	3	0		03	40	60	100	3
7	PCC	18 EE L37	Electrical Machines Laboratory -1	EEE		2	2	03	40	60	100	2
8	PCC	18 EE L38	Electronics Laboratory	EEE		2	2	03	40	60	100	2
		18KVK39/49	Vyavaharika Kannada (Kannada for communication)/			2			100	-		
9	HSMC	18KAK39/49	Aadalitha Kannada (Kannada for Administration)	HSMC		2			100		100	1
	щ		OR				-					
		18CPC39	Constitution of India, Professional		1			02	40	60		
			Ethics and Cyber Law		Examination is by c		<u>18 by ob</u>					
				TOTAL	16 OB	10 OP		24 OR	420 OD	480	000	24
				TOTAL	OR 17	OR 12	04	26	OR 360	OR 540	900	24
					1/	14		20	500	540		í

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10 NCMC 18MATDIP31 Additional Mathematics - I Mathematics 02 01 -- 03 40 60 100 0 (a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech. programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses

shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter

6,AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points.

IVSEMESTER

					Teachin	g Hours	/Week		Exami	ination		
51. No		Course and Course code	Course Title	T eaching Department	T Lecture	L Tutorial	H Practical Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
			Complex analysis, probability and		L	1	r					
1	BSC	18MAT41	statistical methods	Mathematics	2	2		03	40	60	100	3
2	PCC	18 EE42	Power Generation and Economics	EEE	3	0		03	40	60	100	3
3	PCC	18 EE43	Transmission and Distribution	EEE	3	2		03	40	60	100	4
4	PCC	18 EE44	Electric Motors	EEE	3	0		03	40	60	100	3
5	PCC	18 EE45	Electromagnetic Field Theory	EEE	2	2		03	40	60	100	3
6	PCC	18 EE46	Operational Amplifiers and Linear ICs	EEE	3	0		03	40	60	100	3
7	PCC	18 EEL47	Electrical Machines Laboratory -2	EEE		2	2	03	40	60	100	2
8	PCC	18 EEL48	Op- amp and Linear ICs Laboratory	EEE		2	2	03	40	60	100	2
		18KVK39/49	Vyavaharika Kannada (Kannada for communication)/			2			100			
9	HSMC	18KAK39/49	Aadalitha Kannada (Kannada for Administration)	HSMC		2			100		100	1
	Η		OR	_			. <u> </u>					
		18CPH49	Constitution of India, Professional Ethics and Cyber Law		l Evam	 ination i	 s by obi	02 ective ty	40	60	-	
			Edites and Cyber Edw	TOTAL	16	10		24	420	480		-
				101112	OR	OR	04	OR	OR	OR	900	24
					17	12		26	360	540		
Note	DC.	Dania Saiaman D	CC: Professional Core, HSMC: Humanity	and Social Science	- NCMC	Non a	adit ma	datami	01140.0			
			nnada (Kannada for communication) is fo							RAK39	0/49	
			for Administration) is for students who s					5 studen				
		Course pres	scribed to lateral entry Diploma ho	olders admitted t	to III ser	nester (of Engi	neering	progr	ams		
10	NCM			Mathematics	02	01		03	40	60	100	0
			lit courses Additional Mathematics I and				ers resp					
			ter of BE/B. Tech programs, shall attend									

course and appear for the University examination .In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b)These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

						ning Ho Week	ours		Exami	nation		
SI. No		irse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
		-			L	Т	Р	-	•	•1	L	
1	PCC	18 EE51	Management and Entrepreneurship	EEE	3	0		03	40	60	100	3
2	PCC	18 EE52	Microcontroller	EEE	3	2		03	40	60	100	4
3	PCC	18 EE53	Power Electronics	EEE	3	2		03	40	60	100	4
4	PCC	18 EE54	Signals and Systems	EEE	3			03	40	60	100	3
5	PCC	18 EE55	Electrical Machine Design	EEE	3			03	40	60	100	3
6	PCC	18 EE56	High Voltage Engineering	EEE	3			03	40	60	100	3
7	PCC	18 EEL57	Microcontroller Laboratory	EEE		2	2	03	40	60	100	2
8	PCC	18 EEL58	Power Electronics Laboratory	EEE		2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1			02	40	60	100	1
-				TOTAL	18	10	4	26	360	540	900	25

VI SE	EMESTER											-
					Teachi	ng Hours	/Week		Exami	ination		1
SI. No		rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р	Ι	•	•1	L	
1	PCC	18 EE61	Control Systems	EEE	3	2		03	40	60	100	4
2	PCC	18 EE62	Power System Analysis – 1	EEE	3	2		03	40	60	100	4
3	PCC	18 EE63	Digital Signal Processing	EEE	3	2		03	40	60	100	4
4	PEC	18 EE64X	Professional Elective -1	EEE	3			03	40	60	100	3
5	OEC	18 EE65X	Open Elective -A	EEE	3			03	40	60	100	3
6	PCC	18 EEL66	Control System Laboratory	EEE		2	2	03	40	60	100	2
7	PCC	18 EEL67	Digital Signal Processing Laboratory	EEE		2	2	03	40	60	100	2
8	MP	18 EEMP68	Mini-project				2	03	40	60	100	2
9	Internship		Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.						VII		
		•	•	TOTAL	15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

	Professional Elective -1						
Course code under18XX64X	under18XX64X						
18 EE641	Introduction to Nuclear Power						
18 EE642	Electrical Engineering Materials						
18 EE643	Computer Aided Electrical Drawing						
18 EE644	Embedded System						
18 EE645	Object Oriented Programming using C++						
18EE646	Electric Vehicles Technologies						
18EE647	Sensors and Transducers						

Open Elective -A

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.

A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Mini-project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini-project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

(i) Single discipline: Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) Interdisciplinary: Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VII S	EMESTER		X		V		/					
					Teachi	ng Hour	s /Week		Exam	ination		
SI. No	Course Course		Course Title	T eaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC	18 EE71	Power System Analysis – 2	EEE	L 2	T 2	P	03	40	60	100	3
												_
2	PCC	18 EE72	Power System Protection	EEE	3			03	40	60	100	3
3	PEC	18 EE73X	Professional Elective - 2	EEE	3			03	40	60	100	3
4	PEC	18 EE74X	Professional Elective - 3	EEE	3			03	40	60	100	3
5	OEC	18 EE75X	Open Elective -B	EEE	3			03	40	60	100	3
6	PCC	18 EEL76	PSS laboratory	EEE		2	2	03	40	60	100	2
7	PCC	18 EEL77	Relay & HV lab	EEE		2	2	03	40	60	100	2
8	Project	18 EEP78	Project Work Phase - 1	EEE			2		100		100	1
9	Internship		Internship	(If not con carried out								
				TOTAL	14	06	06	21	380	420	800	20
Note:	PCC: Professior	nal core, PEC:	Professional Elective.									
			Drofossi	onal Elective	2							
Cours	e code under	Course Title			- 4							
18XX7			-									
18EE7		Solar and W	ind Energy									
18EE7			Nano Scale Sensors and Transduc	ers								
18 EE'	733	Integrated o	f Distribution Generation.									
18 EE	734	-	Control Systems									
18 EE'			wer Control in Electric Power Syst	ems								
				nal Electives	s - 3							
Cours 18 EE	e code under 74X	Course Title										
18 EE'		Industrial I	Drives and Application									
			of Electrical Power									
18 EE			ques for Electrical and hybrid Elec	tric Vehicles	5							
18 EE	744	Smart Grid										
18 EE'			eural Network With Applications to I	Power System	18							
				Elective -B								
Ctudar	ta aan aalaat	wana of the	Open oen electives offered by other Depa		at those 41	ant one -	ffored k	tha ma	nt Dar -	utmont (1	Dlassa	for t-
	of open elective			runents expe	ci mose fi	iat are 0	nered by	me pare	nt Depa	timent (r lease re	ier to

the list of open electives under 18XX75X).

Selection of an open elective shall not be allowed if,

The candidate has studied the same course during the previous semesters of the programme.

The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.

A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report(covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VIII S	EMESTER											
					Teachi	ng Hours	/Week		Exam	nation		
SI. No		irse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р				_	L
1	PCC	18EE81	Power System Operation and Control	EEE	3			03	40	60	100	3
2	PEC	18EE82X	Professional Elective - 4	EEE	3			03	40	60	100	3
3	Project	18EEP83	Project Work Phase - 2				2	03	40	60	100	8
4	Seminar	18EES84	Technical Seminar				2	03	100		100	1
5	Internship	18EEI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)				03	40	60	100	3
	TOTAL 06 04						15	260	240	500	18	

Note: PCC: Professional Core, PEC: Professional Elective.

	Professional Electives - 4
Course code	Course Title
under 18XX82X	
18EE821	FACTs and HVDC Transmission
18EE822	Electrical Estimation and Costing
18EE823	Big Data Analytics in Power Systems
18EE824	Power System Planning
18EE825	Electrical Power Quality

Project Work

CIE procedure for Project Work Phase - 2:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates. **SEE for Project Work Phase - 2:**

(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).

B.E ELECTRICAL AND ELECTRONICS ENGINEERING Outcome Based Education (OBE) and Choice Based Credit System (CBCS) SEMESTER - VI

	SEME	SIEK-V	1		
	OPEN EL	ECTIVE	- A		
Course Code		18EE6	55X	CIE Marks	40
Teaching Hours/	Week (L:T:P)	(3:0:	0)	SEE Marks	60
Credits		03		Exam Hours	03
The candidate The syllabus of A similar court	pen elective shall not be allowed if, thas studied the same course during the previous semest content of open elective is similar to that of the Departm rse, under any category, is prescribed in the higher seme ectives shall be documented under the guidance of Prog	ental core esters of th	courses or profes e programme.		
			Course	Course '	Title
Sl No	Board and the Department offering the Electives	Sl No	code under 18EE65X		
	Electrical and Electronics	1	18EE651	Industrial Servo Contro	l Systems
	Engineering	2	18EE652	PLC and SCADA	
	Engineering	3	18EE653	Renewable Energy Res	ources

4

18EE654

Introduction to Data Analytics

	B.E ELECTRICAL AND ELECTR	RONIC	S ENGINEERI	NG Outcome	
	Based Education (OBE) and Cho	oice Bas	ed Credit Syste	m (CBCS)	
	SEMEST	TER - V	II		
	OPEN ELF	CTIV	Е-В		
Course Code		18EE7	'5X	CIE Marks	40
Feaching Hours	/Week (L:T:P)	(3:0:	0)	SEE Marks	60
Credits		03		Exam Hours	03
The candidate	ben elective shall not be allowed if, has studied the same course during the previous semeste ontent of open elective is similar to that of the Department			ional electives.	
The candidate The syllabus c A similar cour		ntal core ers of th	courses or profess e programme. ordinator/ Advisor	r/Mentor.	Title
The candidate The syllabus c A similar coun Registration to ele	has studied the same course during the previous semeste ontent of open elective is similar to that of the Department rese, under any category, is prescribed in the higher semest ectives shall be documented under the guidance of Progra	ntal core ters of the amme Co	courses or profess e programme. ordinator/ Advisor Course		e Title
The candidate The syllabus c A similar cour	has studied the same course during the previous semester ontent of open elective is similar to that of the Department rese, under any category, is prescribed in the higher semest	ntal core ers of th	courses or profess e programme. ordinator/ Advisor	r/Mentor.	e Title
The candidate The syllabus c A similar coun legistration to ele	has studied the same course during the previous semester ontent of open elective is similar to that of the Department rese, under any category, is prescribed in the higher semest ectives shall be documented under the guidance of Progra- Board and the Department offering the	ntal core ters of th mme Co	courses or profess e programme. ordinator/ Advisor Course code under	r/Mentor.	
The candidate The syllabus c A similar coun legistration to ele	has studied the same course during the previous semester ontent of open elective is similar to that of the Department rese, under any category, is prescribed in the higher semest ectives shall be documented under the guidance of Progra Board and the Department offering the Electives	ntal core ters of th mme Co	courses or profess e programme. ordinator/ Advisor Course code under 18EE75X	r/Mentor. Course	
The candidate The syllabus c A similar coun egistration to ele	has studied the same course during the previous semester ontent of open elective is similar to that of the Department rese, under any category, is prescribed in the higher semest ectives shall be documented under the guidance of Progra- Board and the Department offering the	ntal core ters of the mme Co Sl No 1	courses or profess e programme. ordinator/ Advisor Course code under 18EE75X 18EE751	/Mentor. Course Carbon Capture a	nd Storage



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)

			Teaching	Teaching	Hours /Week		Examin	ation		Credits
SI. No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EE71	Power System Analysis – 2(Core)	EEE	04		03	60	40	100	4
2	17EE72	Power System Protection(Core)	EEE	04		03	60	40	100	4
3	17EE73	High Voltage Engineering(Core)	EEE	04		03	60	40	100	4
4	17EE74X	Professional Elective – III	EEE	03		03	60	40	100	3
5	17EE75Y	Professional Elective – IV	EEE	03		03	60	40	100	3
6	17EEL76	Power system Simulation Laboratory	EEE	01-Hour In 02-Hour P		03	60	40	100	2
7	17EEL77	Rely and High Voltage Laboratory	EEE	01-Hour In 02-Hour P		03	60	40	100	2
8	17EEP78	Project Work Phase-I + Project work Seminar	EEE		03			100	100	2
		TOTAL		Theory:18 Practical a 09 hours	8 hours and Project:	21	420	380	800	24

B.E: ELECTRICAL AND ELECTRONICS ENGINEERING CHOICE BASED CREDIT SYSTEM (CBCS)

Professional	Elective-3	Professional El	ective-4
17EE741	Advanced Control Systems	17EE751	FACTs and HVDC Transmission
17EE742	Utilization of Electrical Power	17EE752	Testing and Commissioning of Power System Apparatus
17EE743	Carbon Capture and Storage	17EE753	Spacecraft Power Technologies
17EE744	Power System Planning	17EE754	Industrial Heating

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2018 Choice Based Credit System (CBCS)

B.E: ELECTRICAL AND ELECTRONICS ENGINEERING CHOICE BASED CREDIT SYSTEM (CBCS)

VIII SEMESTER

	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
SI. No				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EE81	Power System Operation and Control (Core)	EEE	4	-	3	60	40	100	4
2	17EE82	Industrial Drives and Applications(Core)	EEE	4	-	3	60	40	100	4
3	17EE83X	Professional Elective-5	EEE	3	-	3	60	40	100	3
4	17EE84	Internship/ Professional Practice (Core)	EEE	Industry Oriented		3	50	50	100	2
5	17EEP85	Project Work-II(Core)	EEE	-	6	3	100	100	200	6
6	17EES86	Seminar (Core)	EEE	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional Elective -5			
17EE831	Smart Grid		
17EE832	Operation and Maintenance of Solar Electric		
	Systems		
17EE833	Integration of Distributed Generation		
17EE834	Power System in Emergencies		

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.