# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

## Scheme of Teaching and Examination 2018 – 19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2018 – 19)

VII SEMESTER												
					Teaching Hours /Week			Examination				
Sl. No	Course Course		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	P			52		
1	PCC	18 EE71	Power System Analysis – 2	EEE	2	2		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 completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)						Э		
				TOTAL	14	06	06	21	380	420	800	20

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

Professiona	l Elective - 2
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Course code under 18XX73X	Course Title				
18EE731	Solar and Wind Energy				
18EE732	Micro and Nano Scale Sensors and Transducers				
18 EE733	Integrated of Distribution Generation.				
18 EE734	Advanced Control Systems				
18 EE735	Reactive Power Control in Electric Power Systems				
Professional Electives - 3					
Commen and a madem	Common Titalo				

ı	Frotessional Electives - 5					
ı	Course code under	Course Title				
ı	18 EE74X					
	18 EE741	Industrial Drives and Application				
	18 EE742	Utilization of Electrical Power				
	18 EE743	AI Techniques for Electrical and hybrid Electric Vehicles				
ı	18 EE744	Smart Grid				
	18 EE745	Artificial Neural Network With Applications to Power Systems				

# Open Elective -B

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 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.

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## Scheme of Teaching and Examination 2018 – 19

### Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

VIII	SEMESTER	

					Teaching Hours /Week			Examination			
Sl. No	Course and Course code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/	Duration in hours	CIE Marks	SEE Marks	T. 4.13.E. 1
1	PCC	18EE81	Power System Operation and Control	EEE	3			03	40	60	10
2	PEC	18EE82X	Professional Elective - 4	EEE	3			03	40	60	10
3	Project	18EEP83	Project Work Phase - 2				2	03	40	60	10
4	Seminar	18EES84	Technical Seminar				2	03	100		10
5	Internship	18EEI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII 03 40 semesters.)					60	10	
	TOTAL 06 04 15 260 240 5										

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

Power System Planning

**Electrical Power Quality** 

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				

#### **Project Work**

18EE821 18EE822 18EE823 18EE824

18EE825

### 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 is 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 ski 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 co 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 ski 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 Uni 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 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 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 mark (Not Satisfied Activity Points).