

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI**



**Scheme of Teaching and Examinations
M.Tech. in Electrical & Electronics Engineering
(Power Electronics)**

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

Specialization in –(Power Electronics)

II SEMESTER

Sl. No	Course	Course Code	Course Title	Teaching Hours /Week			Examination				Credits
				Theory	Practical/ Seminar	Tutorial/ Skill Development Activities	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	P	T/SDA					
1	PCC/PEC/ MDC/PCC(PB) /IPCC	MEPS201	Power Electronic Converters -II	3	2	0	03	50	50	100	4
2		MEPS202	Advanced Control Systems	3	0	0	03	50	50	100	3
2		MEPS203	Electric Drives	3	0	0	03	50	50	100	3
3		MEPS204	Switched Mode Power Converters	3	0	0	03	50	50	100	3
4		MEPS215x	ELECTIVE -III	3	0	0	03	50	50	100	3
5		MEPS216x	ELECTIVE -IV	3	0	0	03	50	50	100	3
6	PCCL	MEPSL207	Control and Drives Lab	0	2	2	03	50	50	100	2
7	AEC/SEC	MEPS258x	Ability/Skill Enhancement Course (Offline/Online)	00	02	---	02	50	50	100	1
				01	00	----	01				
TOTAL								400	400	800	22

Note: **PCC**: Professional core. **IPCC**-Integrated Professional Core Courses, **PCC(PB)**: Professional Core Courses (Project Based), **PCCL**- Professional Core Course lab, **PEC**- Professional Elective Courses, **MDC**- Multi-Disciplinary Courses
L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students)
L-Lecture, P-Practical, T/SDA-Tutorial / Skill Development Activities (Hours are for Interaction between faculty and students) **PBLC**: Project Based Learning Course,
 Note: **xxx** means specialization code for example **MDE- Design Engineering, LDN-** Digital Communication and Networking, **SCE-** Computer Engineering, **CCT-** Construction Technology, **AUD-** Urban Design, **MBA-** Master of Business Administration, **MCA-**Master of Computer Application, etc

Ability / Skill Enhancement Courses					
Course Code	Course title	L	T/SDA	P	
MEPS258A	Refer www.online.vtu.ac.in				
MEPS258B	Refer www.online.vtu.ac.in				
MEPS258C	Refer www.online.vtu.ac.in				
MEPS258D	Refer www.online.vtu.ac.in				
<p>Ability Enhancement Courses (AEC): These courses are designed to help students enhance their skills in communication, language, and personality development. They also promote a deeper understanding of subjects like social sciences and ethics, culture and human behaviour, human rights, and the law. Skill Enhancement Course (SEC): Skill Enhancement Course means a course designed to provide value-based or skill-based knowledge and should contain both theory and lab/hands-on/training/fieldwork. The main purpose of these courses is to provide students with life skills in the hands-on mode to increase their employability.</p> <p>If AEC/SEC courses are ONLINE (MOOCs) courses suggested by the concerned board of studies. These courses will be made available on www.online.vtu.ac.in, however online courses are not considered for vertical progression, but qualifying in online courses is mandatory for the award of the degree.</p>					
Specialization		Specialization			
Course Code	Course Title	Course Code	Course Title		
MEPS215A	Converters for Solar and Wind Power Systems	MEPS216A	Power Electronic Application to Power Systems.		
MEPS215B	Uninterruptible Power Supply	MEPS216B	Digital Power Electronics		
MEPS215C	Electromagnetic Interference and Compatibility	MEPS216C	Power Quality Enhancement using Custom Power Devices		
MEPS215D	Neural and Fuzzy Logic Control of Drives	MEPS216D	Internet Based Control Systems		