

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI**



Scheme of Teaching and Examinations (2026)

**M.Tech., in Electronics and Communication Engineering
(Digital Electronics)**

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

II SEMESTER: DIGITAL ELECTRONICS													
S l · N o	Course Type	Course Code	Course Title	Teaching & Learning Scheme					Examination				Cr ed its
				CI		LI	TW & SL	Tot al Hou rs/S em	Du rati on in ho urs	CIE Ma rks	SEE Ma rks	Tot al Mar ks	
				L	T	P							
1	PCC	1MLDE201	High Performance Computing architectures	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLDE202	Analog & Mixed Mode VLSI Design	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLDE203	VLSI Testing	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLDE204	VLSI Design Automation	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLDE205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLDE206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLDE207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLDE208	Minor Project	0	0	28	02	30	03	50	50	100	2
TOTAL										350	350	700	22

Professional Elective Courses (PECs):

Professional Elective Courses – PEC-I and PEC-II – are common to all branches of specialization within a particular Engineering stream. Students may choose the most appropriate elective based on their field of specialization and academic requirements. *Note: The number of courses listed under each PEC group may exceed four, depending on the specializations under one stream.*

Integrated Professional Core Courses (IPCC):

The 1Mxx104x Group comprises specialization-specific core courses that are integrated with a practical component, ensuring application-oriented learning aligned with industry and research needs. The number of courses in the group depends on the number of specializations offered under a particular engineering stream.

Professional Elective Courses (PECs)				
PEC-III			PEC-IV	
Code	Title of the Course		Code	Title of the Course
1MLDE205A	Micro Electro Mechanical Systems		1MLDE206A	CMOS RF IC Design
1MLDE205B	RISC V architecture		1MLDE206B	Embedded Linux
1MLDE205C	Nanoelectronics		1MLDE206C	IC packaging and Reliability Engineering
1MLDE205D	FinFET & Multirate transistors		1MLDE206D	SoC Design

Professional Core Courses Lab (PCCL)	
1MLDE207A	Digital System Design with Verilog
1MLDE207B	Static Timing Analysis