VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI

Scheme of Teaching and Examinations (2026)

M.Tech., in Electronics & Communication

(Digital Electronics & Communication Systems)

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

	II SEMESTER: DIGITAL ELECTRONICS & COMMUNICATION SYSTEM													
Sl. No	Course Type	Course Code	Course Title	Teaching & Learning Scheme					Examination				Credits
				CI		LI	TW & SL	Total Hours/Sem	Duration in hours	CIE Marks	SEE Marks	Total Marks	
				L	T	P							
1	PCC	1MLDS201	Massive MIMO systems	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLDS202	Error Control Coding	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLDS203	Multimedia applications	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLDS204	Antenna theory	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLDS205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLDS206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLDS207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLDS208	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
1MLDS205A	RF System Design		1MLDS206A	Wavelet Transforms and Applications
1MLDS205B	Wireless Sensor Networks		1MLDS206B	Cloud Networking
1MLDS205C	Advances in Image Processing		1MLDS206C	Array Signal Processing
1MLDS205D	Statistical Signal Processing		1MLDS206D	Photonic Networks

Professional Core Course- Lab (AEC Lab)	
1MLDS207A	Modelling and simulation using MATLAB
1MLDS207B	Advanced Digital Signal Processing