VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI

Scheme of Teaching and Examinations (2026)

M.Tech., in Electronics and Communication Engineering

(Digital Communication Engineering)

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

	II SEMESTER: DIGITAL COMMUNICATION ENGINEERING													
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	1MLDC201	Massive MIMO systems	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLDC202	Antenna theory	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLDC203	Multimedia applications	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLDC204	Error Control Coding	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLDC205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLDC206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLDC207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLDC208	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
1MLDC205A	Statistical Signal Processing		1MLDC206A	Array Signal Processing
1MLDC205B	Wireless Sensor Networks		1MLDC206B	Photonic Networks
MLDC2051C	RF System Design		1MLDC206C	Wavelet Transforms and Applications
1MLDC205D	Advances in Image Processing		1MLDC206D	Cloud Networking

Professional Core Course- Lab (AEC Lab)	
1MLDC207A	Modelling and simulation using MATLAB
1MLDC207B	Advanced Digital Signal Processing