VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI

Scheme of Teaching and Examinations (2026)

M.Tech., in Electronics and Communication Engineering

(Advanced Communication Technology)

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

	II SEMESTER: EC (ADVANCED COMMUNICATION TECHNOLOGY)												
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	1MLAC201	Massive MIMO systems	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLAC202	Antenna theory	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLAC203	Multimedia applications	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLAC204	Error Control Coding	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLAC205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLAC206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLAC207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLAC208	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**
1MLAC205A	Statistical Signal Processing		1MLAC206A	Array Signal Processing
1MLAC205B	Wireless Sensor Networks		1MLAC206B	Photonic Networks
1MLAC205C	RF System Design		1MLAC206C	Wavelet Transforms and Applications
1MLAC205D	Advances in Image Processing		1MLAC206D	Cloud Networking

Professional Core Course- Lab (AEC Lab)	
1MLAC207A	Modelling and Simulation using MATLAB
1MLAC207B	Advanced Digital Signal Processing