VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI

Scheme of Teaching and Examinations (2026)

M.Tech., in Electronics and Communication Engineering

(Signal Processing)

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

	II SEMESTER: SIGNAL PROCESSING													
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	1MLSP201	DSP System design	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLSP202	Speech Signal processing	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLSP203	Smart Sensors & IoT Instrumentation	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLSP204	Architecture for signal processing & ML	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLSP205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLSP206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLSP207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLSP208	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	
1MLSP205A	Statistical Signal Processing		1MLSP206A	Bio Medical Signal Processing	
1MLSP205B	Reconfigurable Computing		1MLSP206B	Machine Vision System	
1MLSP205C	AI for medical Signal Processing		1MLSP206C	Deep Learning for signal processing Applications	
1MLSP205D	Bio Instrumentation		1MLSP206D	Detection & Estimation	

Professional Core Course- Lab (AEC Lab)	
1MLSP207A	Advanced Signal Processing
1MLBI207B	Edge & Cloud Computing