VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI

Scheme of Teaching and Examinations (2026)

M.Tech., in Electronics and Communication Engineering

(Microelectronics & Control Systems)

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

	II SEMESTER: MICROELECTRONICS & CONTROL SYSTEMS													
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	1MLMS201	Analysis of linear & Nonlinear systems	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLMS202	Advance Control Systems	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLMS203	PLC & Industrial automation control	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLMS204	VLSI based system design	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLMS205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLMS206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLMS207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLMS208	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.

PEC-III			PEC-IV	
Code	**Title of the Course**		**Code**	**Title of the Course**
1MLMS205A	Nano Electronics & Nano Sensors		1MLMS206A	Internet Based Control systems
1MLEI205B	Optimal Control theory		1MLEI206B	Nanotechnology for microelectronics and optoelectronics
1MLEI205C	Neural and Fuzzy Logic Control of Drives		1MLEI206C	Cyber Security
1MLEI205D	Distributed Control Systems		1MLEI206D	Reset Control Systems

Professional Core Course- Lab (AEC Lab)	
1MLEI207A	Micro Electronics & Control Systems
1MLEI207B	Edge & Cloud computing