

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI**



**Scheme of Teaching and Examinations (2026)**

**M.Tech., in Electronics and Communication Engineering  
(Industrial Electronics)**

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

II SEMESTER: INDUSTRIAL ELECTRONICS													
S l · N o	Course Type	Course Code	Course Title	Teaching & Learning Scheme					Examination				Cr ed its
				CI		LI	TW & SL	Tot al Hou rs/S em	Du rati on in ho urs	CIE Mar ks	SE E Ma rks	Tot al Ma rks	
				L	T	P							
1	PCC	1MLIE201	Process Automation & HMI	42	0	0	48	90	03	50	50	100	4
2	PCC	1MLIE202	Cyber Physical Systems	42	0	0	48	90	03	50	50	100	3
3	PCC	1MLIE203	PLC & Industrial automation control	42	0	0	48	90	03	50	50	100	3
4	PCC	1MLIE204	Automotive Electronics	42	0	28	50	120	03	50	50	100	3
5	PEC	1MLIE205X	Professional Elective Courses-III	42	0	0	48	90	03	50	50	100	3
6	PEC	1MLIE206X	Professional Elective Course-IV	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MLIE207X	Professional Core Course- Lab (AEC Lab)	0	0	28	02	30	03	50	50	100	1
	PCC	1MLIE208	Minor Project	0	0	28	02	30	03	50	50	100	2
<b>TOTAL</b>										<b>350</b>	<b>350</b>	<b>700</b>	<b>22</b>
<p><b>Professional Elective Courses (PECs):</b> 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. <i>Note: The number of courses listed under each PEC group may exceed four, depending on the specializations under one stream.</i></p> <p><b>Integrated Professional Core Courses (IPCC):</b> 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.</p>													

<b>PEC-III</b>		<b>PEC-IV</b>	
<b>Code</b>	<b>Title of the Course</b>	<b>Code</b>	<b>Title of the Course</b>
1MLIE205A	Hybrid Electric Vehicles	1MLIE206A	Industrial IoT
1MLIE205B	Smart Materials & Sensors	1MLIE206B	Medical Electronics
1MLIE205C	Digital Transformation	1MLIE206C	Cyber Security
1MLIE205D	Distributed Control Systems	1MLIE206D	Virtual & Augmented Reality

<b>Professional Core Course- Lab (AEC Lab)</b>	
1MLIE207A	Industrial IoT
1MLIE207B	Edge & Cloud computing