

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI**



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

**M.Tech., in Electronics and Communication Engineering**

**Courses Common to All the allied Streams of ECE**

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

I SEMESTER (Common to all specialized programmes under one stream)													
S l · N o	Course Type	Course Code	Course Title	Teaching & Learning Scheme					Examination				C r e d i t s
				CI		LI	TW & SL	Tot al Ho urs /Se m	Du rat ion in ho urs	CIE Ma rks	SE E Ma rks	Tot al Ma rks	
				L	T	P							
1	MAT/PCC	1MEC101	Applied Linear Algebra and Random Processes	42	0	0	48	90	03	50	50	100	3
2	PCC	1MEC102	Machine Learning for Electronics Engineers	42	0	0	48	90	03	50	50	100	3
3	PCC	1MEC103	Computational Methods for Electronic System Design	42	0	0	48	90	03	50	50	100	3
4	IPCC	1MEC104X	Integrated Professional Core courses	42	0	28	50	120	03	50	50	100	4
5	PEC	1MEC105X	Professional Elective Course-I	42	0	0	48	90	03	50	50	100	3
6	PEC	1MEC106X	Professional Elective Course-II	42	0	0	48	90	03	50	50	100	3
7	PCCL	1MECL107X	Professional Core Courses Labs	0	0	28	02	30	03	50	50	100	1
8	NCMC	1MRMI108	Research Methodology and IPR (Online)	Online courses (online.vtu.ac.in)									PP
<b>TOTAL</b>										<b>350</b>	<b>350</b>	<b>700</b>	<b>20</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>Integrated Professional Core Course (IPCC)</b>		<b>Professional Elective Courses-I</b>	
<b>Code</b>	<b>Title of the Course</b>	<b>Code</b>	<b>Title of the Course</b>
1MEC104A	Advanced Embedded Systems	1MEC105A	ASIC Design
1MEC104B	Industrial Automation & Process Control	1MEC105B	Advanced Computer Networks
1MEC104C	SystemVerilog	1MEC105C	Wearable Health Monitoring Systems
		1MEC105D	Power Converters

<b>Professional Elective Courses-II</b>		<b>Professional Core Courses Lab (PCCL)</b>	
<b>Code</b>	<b>Title of the Course</b>	<b>Code</b>	<b>Title of the Course</b>
1MEC106A	Low-Power VLSI Design	1MECL107A	Python for Electronic System Design
1MEC106B	Advanced Wireless Communication Systems	1MECL107B	Electronics & Communication
1MEC106C	Medical Image Processing and AI Diagnosis	1MECL107C	Digital IC Design
1MEC106D	Software Defined Vehicles	1MECL107D	Advanced Signal Processing