



# ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

## M. Tech. Scheme of Examination & Syllabus 2025-26

### EMBEDDED SYSTEMS AND VLSI DESIGN

#### SEMESTER III

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		Total
			L	T	P		Continuous Assessment	End Sem Examination	
1	25ET301T	Research Methodology*	3	-	3	3	40	60	100
2	25ET302P	Internship	-	-	24	15	100	100	200
Total			3	-	24	15	140	160	300

\* Course to be conducted online through NPTEL. The course will be notified one month prior to the commencement of the semester

#### SEMESTER IV

Sr No	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		Total
			L	T	P		Continuous Assessment	End Sem Examination	
1	25ET402P	Project 2	-	-	30	15	150	150	300
Total			-	-	30	15	150	150	300

Chairman - BoS

Dean – Academics

July 2025

Date of Release

1.0

Version

Applicable for  
2025-26



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### EMBEDDED SYSTEMS AND VLSI DESIGN

#### FIRST SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
25ET302P	Internship	-	-	24	12	100	100	200

Course Objectives	Course Outcomes
<ol style="list-style-type: none"><li>Gain hands-on experience with industry-standard tools, technologies, and design methodologies.</li><li>Develop professional skills such as teamwork, communication, project management, and ethical practices.</li><li>Analyze, implement, and document engineering solutions in an industrial or research environment.</li></ol>	<p>Upon successful completion of the internship, the student will be able to:</p> <ol style="list-style-type: none"><li>Apply Embedded Systems and VLSI Design concepts and techniques to address practical engineering challenges.</li><li>Utilize modern hardware/software tools and industry practices for the development, testing, and validation of engineering solutions.</li><li>Demonstrate professional competency through effective teamwork, communication, and adherence to ethical and organizational standards.</li><li>Prepare technical reports and present project outcomes effectively, demonstrating the ability to document and communicate engineering work.</li></ol>

**The internship of 90 working days is mandatory at the relevant Industry**

		June 2026	1	Applicable for 2026-27
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