



# 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	26ET301T	Research Methodology*	3	-	3	3	40	60	100
2	26ET302P	Internship	-	-	24	12	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	26ET402P	Project 2	-	-	30	15	150	150	300
Total			-	-	30	15	150	150	300

		June 2026	1.0	Applicable for 2026-27
Chairman - BoS	Dean – Academics	Date of Release	Version	



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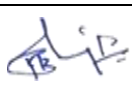
### EMBEDDED SYSTEMS AND VLSI DESIGN

#### FOURTH SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26ET402P	Project 2	-	-	30	15	150	150	300

Course Objectives	Course Outcomes
<ol style="list-style-type: none"><li>1. Apply advanced concepts of Embedded Systems and VLSI Design to identify and solve complex engineering problems.</li><li>2. Design, develop, and validate innovative hardware/software solutions using appropriate tools and methodologies.</li><li>3. Conduct independent research, analyze technical literature, and implement engineering solutions systematically.</li><li>4. Develop professional skills in project planning, technical documentation, and effective communication of project outcomes.</li></ol>	<p>At the end of the course, the student will be able to:</p> <ol style="list-style-type: none"><li>1. Identify, formulate, and solve complex problems in Embedded Systems and VLSI Design using advanced engineering principles.</li><li>2. Design, implement, and evaluate a functional system, subsystem, or process that meets specified technical requirements.</li><li>3. Apply modern engineering tools, research methodologies, and analytical techniques for project development and validation.</li><li>4. Prepare technical reports, publications, and presentations to effectively communicate project objectives, methodology, results, and conclusions.</li></ol>

**A project based on the Embedded system and VLSI Design domain with publications**

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