



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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

B. Tech. Scheme of Examination & Syllabus 2021-22 INFORMATION TECHNOLOGY

VII Semester B. Tech.

| Sr No. | Course Code | Course Title | Hours per Week | | | Credits | Maximum Marks | | Total |
|--------------|-------------|------------------------------------|----------------|----------|-----------|-----------|----------------------|---------------------|------------|
| | | | L | T | P | | Continual Assessment | End Sem Examination | |
| 1 | 21IT701T | Information and Cyber Security | 3 | - | - | 3 | 30 | 70 | 100 |
| 2 | 21IT701P | Information and Cyber Security Lab | - | - | 2 | 1 | 25 | 25 | 50 |
| 3 | 21IT702P | Software Lab –II | - | - | 4 | 2 | 25 | 25 | 50 |
| 4 | 21IT703T | Professional Elective - IV | 3 | - | - | 3 | 30 | 70 | 100 |
| 5 | 21IT704T | Professional Elective - V | 3 | - | - | 3 | 30 | 70 | 100 |
| 6 | 21IT761O | Open Elective - III | 3 | - | - | 3 | 30 | 70 | 100 |
| 7 | 21IT705P | Summer / Winter Internship* | - | - | - | 2 | 50 | - | 50 |
| 8 | 21IT706P | Capstone Course- II** | - | - | 2 | 1 | 50 | - | 50 |
| 9 | 21IT707P | Project - II | - | - | 8 | 4 | 100 | 100 | 200 |
| Total | | | 12 | - | 16 | 22 | 370 | 430 | 800 |

* Summer / Winter Internship (Evaluation of Four weeks Internship Completion till 6th Semester)

** Capstone Course – II (Comprehensive knowledge gained in Information Technology)

| 21IT703T | Professional Elective - IV |
|---------------|-----------------------------------|
| 21IT703T(i) | PE-IV Data Warehousing and Mining |
| 21IT703T(ii) | PE-IV Natural Language Processing |
| 21IT703T(iii) | PE-IV Edge Computing |

| 21IT761O | Open Elective - III |
|---------------|-----------------------------------|
| 21IT761O (i) | OE-III Agile Software Development |
| 21IT761O (ii) | OE-III Web Technology |

| 21IT704T | Professional Elective - V |
|---------------|--|
| 21IT704T(i) | PE-V Deep Learning |
| 21IT704T(ii) | PE-V Advance in Database Management System |
| 21IT704T(iii) | PE-V Digital Forensics |

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|----------------|------------------|-----------------|---------|---------------------------|
| | | July 2024 | 1.2 | Applicable for 2024-25 |
| Chairman - BoS | Dean – Academics | Date of Release | Version | |

**SEMESTER VIII****Option A**

| Sr No | Course Category | Course Code | Course Title | Hours per Week | | | Credits | Maximum Marks | | |
|--------------|-----------------|-------------|---|----------------|----------|----------|-----------|----------------------|---------------------|------------|
| | | | | L | T | P | | Continual Assessment | End Sem Examination | Total |
| 1 | ELC | 24IT801P* | Project based on one semester internship in Industry/Research Institute/ National Laboratories/ Incubation Center | - | - | - | 12 | 300 | 100 | 400 |
| Total | | | | 0 | 0 | 0 | 12 | 300 | 100 | 400 |

*End semester examination will consist of evaluation of seminar & project report.

Option B

| Sr No | Course Category | Course Code | Course Title | Hours per Week | | | Credits | Maximum Marks | | |
|--------------|-----------------|-------------|--------------------------|----------------|----------|----------|-----------|----------------------|---------------------|------------|
| | | | | L | T | P | | Continual Assessment | End Sem Examination | Total |
| 1 | ELC | 24IT801P# | Institutional Internship | - | - | 12 | 6 | 100 | 100 | 200 |
| 2 | ELC | 24IT802P | Project – III | - | - | 12 | 6 | 100 | 100 | 200 |
| Total | | | | 0 | 0 | 0 | 12 | 300 | 100 | 400 |

Option B is available to students only after recommendation of the concerned Head of the department. The project and internship should contribute towards career development plan of the students.

* Minimum 90 days internship in any industry and project is to be carried out during internship.

Two NPTEL courses (as per choice of student) or Institutional Internship by IEDC, SVPCET.

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|----------------|------------------|-----------------|---------|---------------------------|
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