



V Semester

| Sr No | Course Code | Course Title | Hours per Week | | | Credits | Maximum Marks | | |
|--------------|-------------|----------------------------------|----------------|---|----------|-----------|----------------------|---------------------|------------|
| | | | L | T | P | | Continual Assessment | End Sem Examination | Total |
| 1 | 22II501T | Operating Systems | 3 | - | - | 3 | 30 | 70 | 100 |
| 2 | 22II502T | Embedded Systems for IoT | 3 | - | - | 3 | 30 | 70 | 100 |
| 3 | 22II502P | Embedded Systems for IoT Lab | - | - | 2 | 1 | 25 | 25 | 50 |
| 4 | 22II503T | Machine Learning | 4 | - | - | 4 | 30 | 70 | 100 |
| 5 | 22II503P | Machine Learning Lab | - | - | 2 | 1 | 25 | 25 | 50 |
| 6 | 22II504P | Internet of Things Lab – II | - | - | 2 | 1 | 25 | 25 | 50 |
| 7 | 22II505T | Professional Elective – I | 3 | - | - | 3 | 30 | 70 | 100 |
| 8 | 22II561O | Open Elective - I | 3 | - | - | 3 | 30 | 70 | 100 |
| 9 | 22H104 | Foundational Humanities Elective | 2 | - | - | - | Audit | | |
| 10 | 22AS502T | English for Engineers | 2 | - | - | 2 | 15 | 35 | 50 |
| 11 | 22II506P | Technical Skill Development-II | - | - | 2 | 1 | 50 | - | 50 |
| 12 | 22II507T | Career Development - III | 2 | - | - | - | Audit | | |
| Total | | | 22 | | 8 | 22 | 290 | 460 | 750 |

* Career Development (Interpersonal Skills and Aptitude)

| Open Elective - I | |
|-------------------|--|
| 22II561O | OE-I Fundamentals of Industry 4.0 and Industrial IoT |

| Foundational Humanities Elective | |
|----------------------------------|--------------------------|
| 22H104 | Development of Societies |
| 22H104 | Philosophy |

| Professional Elective – I | |
|---------------------------|---|
| 22II505T(i) | PE-I Computer Architecture & Organization |
| 22II505T(ii) | PE-I Robotics |

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|----------------|------------------|-----------------|---------|------------------------|
| | | July 2024 | 1.1 | Applicable for 2024-25 |
| Chairman - BoS | Dean – Academics | Date of Release | Version | |

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| | | | L | T | P | | Continual Assessment | End Sem Examination | Total |
| 1 | 22II601T | Industrial IoT & Industry 4.0 | 4 | - | - | 4 | 30 | 70 | 100 |
| 2 | 22II602T | Foundations of Data Science | 3 | - | - | 3 | 30 | 70 | 100 |
| 3 | 22II602P | Foundations of Data Science Lab | - | - | 2 | 1 | 25 | 25 | 50 |
| 4 | 22II603T | Cloud Computing | 4 | - | - | 4 | 30 | 70 | 100 |
| 5 | 22II603P | Cloud Computing Lab | - | - | 2 | 1 | 25 | 25 | 50 |
| 6 | 22II604T | Professional Elective – II | 3 | - | - | 3 | 30 | 70 | 100 |
| 7 | 22II661O | Open Elective-II | 3 | - | - | 3 | 30 | 70 | 100 |
| 8 | 22AS501T | Economics and Management | 3 | - | - | 3 | 30 | 70 | 100 |
| 9 | 22II605P | Project - I | - | - | 2 | 1 | 50 | 50 | 100 |
| 10 | 22II606T | Career Development - IV | 2 | - | - | 0 | Audit | | |
| 11 | 22II607P | Capstone Course – I ** | - | - | 2 | 1 | 25 | 25 | 50 |
| Total | | | 22 | | 8 | 24 | 305 | 545 | 850 |

Capstone Course – I (Comprehensive knowledge gained in Industrial IoT)

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| 22II661O Open Elective – II | |
|-----------------------------|--|
| 22II661O | OE-I Fundamentals of Industrial Automation |

| 22II661O Professional Elective – II | |
|-------------------------------------|------------------------|
| 22II661O(i) | PE-I Signal Processing |
| 22II661O(ii) | PE-I Control Systems |

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