

VASAVI COLLEGE OF ENGINEERING: HYDERABAD
DEPARTMENT OF CIVIL ENGINEERING

Professional electives offered by the Department of Civil Engineering in the Academic Year 2023-24

| S No | Professional Elective No. | Name of Professional Elective | PE Code | No Credits/ Hours | Offered to |
|-------------|----------------------------------|---|----------------|--------------------------|--------------------------------------|
| 1 | Professional Elective – II | Elements of Earthquake Engineering | U20PE721CE | 3 | B.E.VII Semester -Civil Engineering |
| 2 | Professional Elective – II | Foundation Engineering | U20PE722CE | 3 | B.E.VII Semester -Civil Engineering |
| 3 | Professional Elective – II | Solid & Hazardous Waste Management | U20PE723CE | 3 | B.E.VII Semester -Civil Engineering |
| 4 | Professional Elective – II | Sustainable Materials & Construction | U20PE724CE | 3 | B.E.VII Semester -Civil Engineering |
| 5 | Professional Elective – III | Advanced Design of Steel Structures | U20PE731CE | 3 | B.E.VII Semester -Civil Engineering |
| 6 | Professional Elective – III | Transportation Infrastructure Planning & Management | U20PE732CE | 3 | B.E.VII Semester -Civil Engineering |
| 7 | Professional Elective – III | Environmental Impact Assessment | U20PE733CE | 3 | B.E.VII Semester -Civil Engineering |
| 8 | Professional Elective – III | Geoinformatics | U20PE734CE | 3 | B.E.VII Semester -Civil Engineering |
| 9 | Professional Elective – IV | Pre-Stressed concreteand Pre-Building Structures | U20PE741CE | 3 | B.E.VII Semester -Civil Engineering |
| 10 | Professional Elective – IV | Railway & Airport Engineering | U20PE742CE | 3 | B.E.VII Semester -Civil Engineering |
| 11 | Professional Elective – IV | Advanced Environmental Engineering | U20PE743CE | 3 | B.E.VII Semester -Civil Engineering |
| 12 | Professional Elective – IV | Applications of Artificial Intelligence and Machine Learning in Civil Engineering | U20PE744CE | 3 | B.E.VII Semester -Civil Engineering |
| 13 | Professional Elective – V | Advanced Reinforced Concrete Design | U20PE851CE | 3 | B.E.VIII Semester -Civil Engineering |

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|-------------|----------------------------------|--|----------------|--------------------------|--------------------------------------|
| 14 | Professional Elective – V | Advanced Transportation Engineering | U20PE852CE | 3 | B.E.VIII Semester -Civil Engineering |
| 15 | Professional Elective – V | Climate Change And Its Impact | U20PE853CE | 3 | B.E.VIII Semester -Civil Engineering |
| 16 | Professional Elective – V | Disaster mitigation and management | U20PE854CE | 3 | B.E.VIII Semester -Civil Engineering |
| 17 | Professional Elective – VI | Health Monitoring & Retrofitting of Structures | U20PE861CE | 3 | B.E.VIII Semester -Civil Engineering |
| 18 | Professional Elective – VI | Ground Improvement Techniques | U20PE862CE | 3 | B.E.VIII Semester -Civil Engineering |
| 19 | Professional Elective – VI | Hydraulic Structures | U20PE863CE | 3 | B.E.VIII Semester -Civil Engineering |
| 20 | Professional Elective – VI | Soft Computing in Civil Engineering | U20PE864CE | 3 | B.E.VIII Semester -Civil Engineering |



H.O.D (Civil Engg.)

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