



TECHNO INDIA UNIVERSITY

W E S T B E N G A L

Curriculum for M. Tech in Civil Engineering



DEPARTMENT OF CIVIL ENGINEERING

**Techno India University, West Bengal
EM-4, EM Block, Sector V, Bidhannagar,
Kolkata -700091, West Bengal**



1st Semester

| Sl. No. | Course Code | Course Title | Hours per week | | | Credits |
|---------------------|---------------|---|----------------|---|---|-------------|
| | | | L | T | P | C |
| 1 | TIU-PCE-T103 | Structural Dynamics | 3 | 0 | 2 | 4 |
| 2 | TIU-PCE-T105 | Matrix Computer Method of Structural Analysis | 3 | 0 | 0 | 3 |
| 3 | TIU-PCE-E101A | Elective-I (Pre-Stressed Concrete) | 3 | 0 | 0 | 3 |
| 4 | TIU-PCE-E103A | Elective-II (Numerical Methods In Structural Engineering) | 3 | 0 | 0 | 3 |
| 5 | TIU-PCE-E105A | Elective-III (Sustainable Infrastructure Engineering) | 3 | 0 | 0 | 3 |
| 6 | TIU-PMA-T115 | Advanced Numerical Analysis | 4 | 0 | 0 | 4 |
| 7 | TIU-PCE-S105 | Structural Engineering Laboratory | 0 | 0 | 3 | 1.5 |
| 8 | TIU-PES-S189 | Entrepreneurship Skill Development | 0 | 0 | 2 | 1 |
| Total Credit | | | | | | 22.5 |



2nd Semester

| S. No. | Course Code | Course Title | Hours per week | | | Credits |
|---------------------|---------------|---|----------------|---|---|-------------|
| | | | L | T | P | |
| 1 | TIU-PCE-T132 | Theory of elasticity and plasticity | 3 | 0 | 0 | 3 |
| 2 | TIU-PCE-T130 | Finite Element Analysis | 3 | 0 | 0 | 3 |
| 3 | TIU-PCE-E102A | Elective-IV (Repair and Rehabilitation of Structures) | 3 | 0 | 0 | 3 |
| 4 | TIU-PCE-E104A | Elective-V (Structural Stability) | 3 | 0 | 0 | 3 |
| 5 | TIU-PCE-E106B | Elective-VI (Offshore Structures) | 3 | 0 | 0 | 3 |
| 6 | TIU-PCE-S110 | Advanced Software Laboratory | 0 | 0 | 3 | 1.5 |
| 7 | TIU-PCE-S106 | Term Paper | 0 | 0 | 8 | 4 |
| 8 | TIU-PCE-S108 | Seminar On Term Paper | 0 | 0 | 4 | 2 |
| 9 | TIU-PES-S188 | Entrepreneurship Skill Development | 0 | 0 | 2 | 1 |
| Total Credit | | | | | | 23.5 |



3rd Semester

| Sl. No. | Course Code | Course Title | Hours per week | | | Credits |
|---------|--------------|----------------------------|----------------|---|--------|-----------|
| | | | L | T | P | C |
| 1 | TIU-PCE-S205 | Progress Report | 0 | 0 | 2 0 | 10 |
| 2 | TIU-PCE-S207 | Seminar On Progress Report | 0 | 0 | 1 2 | 6 |
| | | Total Credit | | | | 16 |



4th Semester

| Sl. No. | Course Code | Course Title | Hours per week | | | Credits |
|---------|---------------|---------------------|----------------|---|--------|-----------|
| | | | L | T | P | C |
| 1 | TIU-PCE-S202A | Thesis | 0 | 0 | 2 0 | 10 |
| 2 | TIU-PCE-S204A | Seminar On Thesis | 0 | 0 | 1 2 | 6 |
| | | Total Credit | | | | 16 |