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|  **SEMESTER – 1** |
| **Course Code** | **Course Title** | **Course Type** | **Contact Hours** | **Credit** | **Pre- requisites** |
| **L** | **T** | **P** | **C** |
|  **Professional Core Courses 1,2, 3** |
| CE 501 | Advance Solid Mechanics | PC | 3 | 0 | 0 | 3 | None |
| CE 503 | Matrix Method of Structural Analysis | PC | 3 | 0 | 0 | 3 | None |
| MA 701 | Advanced Engineering Mathematics | M | 3 | 0 | 0 | 3 | None |
| **Professional Elective 1 & 2** |
| CE 555 | Dynamic of Structures | PE | 3 | 0 | 0 | 3 | None |
| CE 557 | Earthquake Engineering | PE | 3 | 0 | 0 | 3 | None |
| CE 559 | Advance Concrete Technology | PE | 3 | 0 | 0 | 3 | None |
| CE 561 | Numerical Analysis | PE | 3 | 0 | 0 | 3 | None |
| **Lab Courses - 1, 2, 3** |  |
| CE 521 | Computational Lab  | L | 0 | 0 | 2 | 1 | None |
| CE 523 | Advanced Concrete Technology Lab | L | 0 | 0 | 2 | 1 | None |
| CE 525 | Soft Computing Lab-I | L | 0 | 0 | 2 | 1 | None |
|  **Seminar & Technical Report writing** |
| CE 551 | Seminar & Technical report writing | S | 0 | 0 | 2 | 1 | None |
| **Total Contact Hours – Component wise** | **15** | **0** | **8** |  |  |
| **Total Contact Hours** | **23** | **19** | --- |

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|  **SEMESTER – 2** |
| **Course Code** | **Course Title** | **Course Type** | **Contact Hours** | **Credit** | **Pre- requisites** |
| **L** | **T** | **P** | **C** |
| **Professional Core Courses - 4, 5** |
| CE 502 | Advance Structural Design | PC | 3 | 0 | 0 | 3 | None |
| CE 504 | Finite Element Method | PC | 3 | 0 | 0 | 3 | None |
| **Professional Elective – 3,4** |
| CE 556 | Advance Steel and Concrete Composite Structure | PE | 3 | 0 | 0 | 3 | None |
| CE 558 | Rehabilitation and Retrofitting of Concrete Structure | PE | 3 | 0 | 0 | 3 | None |
| CE 560 | Advance Foundation Design | PE | 3 | 0 | 0 | 3 | None |
| CE 562 | Theory of Plates and Shells | PE | 3 | 0 | 0 | 3 | None |
| **Lab Courses - 4, 5, 6** |
| CE 522 |  Advance Structural Design lab | L | 0 | 0 | 2 | 1 | None |
| CE 524 |  Mechanics of Soil Lab | L | 0 | 0 | 2 | 1 | None |
| CE 526 | Soft Computing Lab - II | L | 0 | 0 | 2 | 1 | None |
|  **Seminar & Technical Report writing** |
| CE 552 | Seminar & Technical report writing | S | 0 | 0 | 2 | 1 | None |
|  **Project** |
| CE 554 | Project Review | P | 0 | 0 | 4 | 2 | None |
| **Total Contact Hours – Component wise** | **12** | **0** | **12** |  |  |
| **Total Contact Hours** | **24** | **18** | --- |

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|  **SEMESTER – 3** |
| **Course Code** | **Course Title** | **Course Type** | **Contact Hours** | **Credit** | **Pre- requisites** |
| **L** | **T** | **P** | **C** |
| CE 601 | Technical Report and presentationon mini project/internship work | P | 0 | 0 | 4 | 2 | None |
| CE 603 | Project-I | P | 0 | 0 | 22 | 11 | None |
| **Total Contact Hours – Component wise** | **0** | **0** | **26** |  |  |
| **Total Contact Hours** | **26** | **13** | --- |

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|  **SEMESTER – 4** |
| **Course Code** | **Course Title** | **Course Type** | **Contact Hours** | **Credit** | **Pre- requisites** |
| **L** | **T** | **P** | **C** |
| CE 602 | Project-II | T | 0 | 0 | 28 | 14 | None |
| **Total Contact Hours – Component wise** | **0** | **0** | **28** |  |  |
| **Total Contact Hours** | **28** | **14** | --- |