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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 presentation  on 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** | --- |