

## Department of Civil Engineering: Schedule of Even Semester Courses

| UG Compulsory Courses (D) |            |                 |                                   |   |                   |  |          |                       |
|---------------------------|------------|-----------------|-----------------------------------|---|-------------------|--|----------|-----------------------|
| S. No.                    | Course No. | L-T-P-A (Units) | Course Title                      | Instructor  | Slot              | Schedule                                     |          |                       |
|                           |            |                 |                                   |   |                   | Lecture                                      | Tutorial | Laboratory            |
| 1.                        | CE242A     | 3-0-2-0<br>(11) | Civil Engineering Materials       | V K Gupta<br>+<br>Prishati Raychowdhury<br>+<br>Syam Nair | 4-1               | MWF<br>10:00-10:50                           | --       | M/T/W<br>14:00-16:00  |
| 2.                        | CE272A     | 3-0-0-0<br>(9)  | Structural Analysis               | Suparno Mukhopadhyay                                      | 4-2               | M11:00-11:50<br>TF12:00-12:50                | --       | --                    |
| 3.                        | CE262A     | 2-0-2-0<br>(8)  | Engineering Hydraulics            | Rajesh Srivastava   | 4-3               | WF<br>11:00-11:50                            | --       | M/T/Th<br>14:00-16:00 |
| 4.                        | CE352A     | 2-0-1-0<br>(7)  | Foundation Design                 | Nihar R Patra<br>+<br>Arghya Das                          | SLOT-6            | TTh<br>15:00-15:50                           | --       | M/W/F<br>14:00-16:00  |
| 5.                        | CE372A     | 2-0-0-0<br>(6)  | Reinforced Cement Concrete Design | D C Rai   | SLOT-4            | TTh<br>14:00-14:50                           | --       | --                    |
| 6.                        | CE382A     | 3-0-0-0<br>(9)  | Transportation Engineering        | Partha Chakroborty<br>+<br>Animesh Das                    | <del>SLOT-1</del> | <del>TThF8:00</del><br>**TThF<br>18:35-19:25 | --       | --                    |

**\*\* Timing has been changed for 2017-18 2<sup>nd</sup> semester (with permission of DOAA) as a one-time measure**

| <b>UG Departmental Electives (DE)</b>  |                   |                             |  |   |  |
|--|-------------------|-----------------------------|--|---|--|
| <b>[List all Courses (including OE and PG courses) declared as Departmental Electives]</b> |                   |                             |  |   |  |
| <b>S. No.</b>  | <b>Course No.</b> | <b>L-T-P-A (Units)</b>      | <b>Course Title</b>  | <b>Instructor</b>                           | <b>Slot</b>                                |
| <b>DE-A Courses</b>  |                   |                             |  |   |  |
| 1.   | CE412A            | 3-0-2-0<br>(11)             | Water Supply and Wastewater Disposal Systems                     | Mukesh Sharma<br>+<br>Purnendu Bose         | T10:35-11:50;<br>Th12:00-13:15<br>[DE-2]   |
| <del>2.</del>  | <del>CE432A</del> | <del>3-0-2-0<br/>(11)</del> | <del>Geographical Information System</del>                       |   | <del>DE-3</del>                            |
| 3.   | CE462A            | 3-1-0-0<br>(11)             | Hydraulic and Hydrologic Design                                  | Shivam Tripathi                             | M12:00-13:15;<br>T9:00-10:15<br>[DE-1]     |
| <b>DE-B Courses</b>  |                   |                             |  |   |  |
| 1.   | CE629A            | 3-0-0-0<br>(9)              | Earthquake Analysis and Design of Structures                     | Chinmoy Kolay                               | M11:00-11:50;<br>ThF10:00-10:50<br>[DE-10] |
| 2.   | CE628A            | 3-0-0-0<br>(9)              | Durability of Concrete Structures                                | Sudhir Mishra                               | WThF11:00-11:50<br>[DE-11]                 |
| 3.   | CE725A            | 1.5-0-0-0<br>(5)            | Vibration-Based Structural Health Monitoring for CE Applications | Suparno Mukhopadhyay                        | F14:00-15:15<br>[DE-5]                     |
| 4.   | CE669A            | 3-0-0-0<br>(9)              | Atmospheric Physics and Chemistry                                | Sachida Nand Tripathi                       | TF14:00-15:15<br>[DE-5]                    |
| 5.   | CE766A            | 3-0-0-0<br>(9)              | Agricultural Sustainability and Climate Change                   | Anubha Goel                                 | TF15:35-16:50<br>[OE-6]                    |
| 6.   | CE617A            | 3-0-0-0<br>(9)              | Advanced Modeling of Subsurface Flow and Transport               | Saumyen Guha                                | TF15:35-16:50<br>[DE-6]                    |
| 7.   | CE731A            | 3-0-0-0<br>(9)              | Risk and Reliability in Geotechnical Engineering                 | Prishati Raychowdhury                       | TF14:00-15:15<br>[DE-5]                    |
| 8.   | CE674A            | 3-0-2-0<br>(11)             | Navigation Satellite System                                      | B Nagarajan                                 | M11:00, ThF10:00<br>[OE-10]                |
| 9.   | CE645A            | 1.5-0-0-0<br>(5)            | Quality and Safety in Construction                               | Sudhir Misra<br>+<br>Shashank Vaidya (Adj.) | T15:35-16:50<br>[DE-6]                     |
| 10.  | CE647A            | 1.5-0-0-0<br>(5)            | Construction Methods   | Sudhir Misra<br>+<br>H P Yadav (Adj.)       | F15:35-16:50<br>[DE-6]                     |
| 11.  | CE491A            | 0-0-0-9<br>(9)              | Under Graduate Research I  | DUGC Convener                               | --   |
| 12.  | CE492A            | 0-0-0-9<br>(9)              | Under Graduate Research II                                       | DUGC Convener                               | --   |
| <b>Extra Credits</b>   |                   |                             |  |   |  |
| 1.   | CE332A            | 0-0-0-4<br>(4)              | Survey Camp  | Onkar Dikshit                               | Winter Break                               |
| 2.   | CE493A            | 0-0-0-9<br>(9)              | Under Graduate Research III                                      | DUGC Convener                               | --   |

## Department of Civil Engineering: Schedule of Even Semester Courses

| <b>UG Open Electives (OE)</b><br><b>[List All Courses (Including D, DE and PG Courses) Declared as Open Elective]</b> |                   |                        |  |                   |  |
|---|-------------------|------------------------|--|-------------------|--|
| <b>S. No.</b>   | <b>Course No.</b> | <b>L-T-P-A (Units)</b> | <b>Course Title</b>                            | <b>Instructor</b> | <b>Slot</b>                                |
| 1.  | CE766A            | 3-0-0-0<br>(9)         | Agricultural Sustainability and Climate Change | Anubha Goel       | TF15:35-16:50<br>[OE-6]                    |
| 2.  | CE674A            | 3-0-2-0<br>(11)        | Global Navigation Satellite System             | B Nagarajan       | M11:00-11:50;<br>ThF10:00-10:50<br>[OE-10] |

| <b>UG Minors [List All Courses (including D, DE, OE and PG courses) Declared as Minor]</b> |                   |                        |  |                   |                          |
|--|-------------------|------------------------|--|-------------------|--------------------------|
| <b>S. No.</b>  | <b>Course No.</b> | <b>L-T-P-A (Units)</b> | <b>Course Title</b>                    | <b>Instructor</b> | <b>Slot</b>              |
| 1.   | CE667a            | 3-0-0-0<br>(5)         | Principles of Environmental Management | Vinod Tare        | MWF9:00 – 9:50<br>[OE-1] |
| 2.   | CE643b            | 3-0-0-0<br>(5)         | Infrastructure Financing               | K V Harish        | MWF9:00 – 9:50<br>[OE-1] |

## Department of Civil Engineering: Schedule of Even Semester Courses

| PG Courses [List all PG courses, including those declared DE, OE or part of minor] |            |                  |  |                                |  |
|--|------------|------------------|--|--------------------------------|--|
| S. No.   | Course No. | L-T-P-A (Units)  | Course Title   | Instructor                     | Slot                                     |
| 1.   | CE622A     | 3-0-0-0<br>(9)   | Stability of Structures  | Sudib K Mishra                 | MW8:00-8:50;<br>Th14:00-14:50<br>[PG-15] |
| 2.   | CE623A     | 2-0-3-0<br>(9)   | Experimental Methods in Structural Engineering                   | R Chaudhuri                    | TTh17:10-18:00<br>[PG-9]                 |
| 3.   | CE628A     | 3-0-0-0<br>(9)   | Durability of Concrete Structures                                | Sudhir Mishra                  | WThF11:00-11:50<br>[DE-11]               |
| 4.   | CE629A     | 3-0-0-0<br>(9)   | Earthquake Analysis and Design of Structures                     | Chinmoy Kolay                  | M11:00, ThF10:00<br>[DE-10]              |
| 5.   | CE725A     | 1.5-0-0-0<br>(5) | Vibration-Based Structural Health Monitoring for CE Applications | Suparno Mukhopadhyay           | F14:00-15:15<br>[DE-5]                   |
| 6.   | CE667a     | 3-0-0-0<br>(5)   | Principles of Environmental Management                           | Vinod Tare                     | MWF9:00 – 9:50<br>[OE-1]                 |
| 7.   | CE668A     | 2-0-4-0<br>(10)  | Environmental Quality and Pollution Monitoring Techniques        | Vinod Tare                     | WTh11:00-11:50<br>[PG-3]                 |
| 8.   | CE669A     | 3-0-0-0<br>(9)   | Atmospheric Physics and Chemistry                                | Sachida N Tripathi             | TF14:00-15:15<br>[DE-5]                  |
| 9.   | CE760a     | 3-0-0-0<br>(5)   | Surface Water Quality Modeling                                   | Abhas Singh                    | M12:00-13:15;<br>T9:00-10:15<br>[PG-4]   |
| 10.  | CE762b     | 3-0-0-0<br>(5)   | Atmospheric Modeling   | Sachida Nand Tripathi          | T12:00-13:15;<br>W12:00-13:15<br>[PG-6]  |
| 11.  | CE763a     | 3-0-0-0<br>(5)   | Solid and Hazardous Waste Management                             | Purnendu Bose                  | T12:00-13:15;<br>W12:00-13:15<br>[PG-6]  |
| 12.  | CE764a     | 3-0-0-0<br>(5)   | Environmental Toxicology and Risk Assessment                     | Tarun Gupta                    | TThF8:00-8:50<br>[PG-14]                 |
| 13.  | CE765b     | 3-0-0-0<br>(5)   | Industrial Waste Management                                      | Mukesh Sharma                  | TThF8:00-8:50<br>[PG-14]                 |
| 14.  | CE766A     | 3-0-0-0<br>(9)   | Agricultural Sustainability and Climate Change                   | Anubha Goel                    | TF15:35-16:50<br>[OE-6]                  |
| 15.  | CE767b     | 3-0-0-0<br>(5)   | Solid-Water Interfacial Processes (New Course)                   | Abhas Singh                    | M12:00-13:15;<br>T9:00-10:15<br>[PG-4]   |
| 16.  | CE612A     | 2-0-3-0<br>(9)   | Fluid Mechanics Laboratory                                       | Saumyen Guha<br>+<br>Ashu Jain | MW8:00-8:50<br>[PG-15]                   |
| 17.  | CE613A     | 2-0-3-0<br>(9)   | Computational Methods in Hydraulics and Hydrology                | Richa Ojha                     | M11:00-11:50;<br>Th10:00-10:50<br>[PG-2] |
| 18.  | CE615A     | 3-0-0-0<br>(9)   | Introduction to AI Techniques                                    | Ashu Jain                      | TThF8:00-8:50<br>[PG-14]                 |
| 19.  | CE617A     | 3-0-0-0<br>(9)   | Advanced Modeling of Subsurface Flow and Transport               | Saumyen Guha                   | TF15:35-16:50<br>[DE-6]                  |

## Department of Civil Engineering: Schedule of Even Semester Courses

| PG Courses [List all PG courses, including those declared DE, OE or part of minor] |            |                  |   |  |  |
|--|------------|------------------|---|--|--|
| S. No.   | Course No. | L-T-P-A (Units)  | Course Title  | Instructor   | Slot   |
| 20.  | CE685a     | 3-0-0-0<br>(5)   | Urban Transportation  | Partha Chakroborty                                 | T10:35-11:50;<br>Th12:00-13:15<br>[PG-5]   |
| 21.  | CE684b     | 3-0-0-0<br>(5)   | Pavement Design   | Animesh Das  | T10:35-11:50;<br>Th12:00-13:15<br>[PG-5]   |
| 22.  | CE780A     | 1-0-6-0<br>(9)   | Laboratory Course in Transportation Engineering                   | Partha Chakroborty +<br>Animesh Das +<br>Syam Nair | Th9:00-9:50<br>PG(T)   |
| 23.  | CE672A     | 3-0-0-0<br>(9)   | Machine Processing of Remotely Sensed Data                        | Onkar Dikshit                                      | TF14:00-15:15<br>[PG-12]   |
| 24.  | CE673A     | 0-0-0-9<br>(9)   | Instrumentation, Laboratory and Field Practices in Geoinformatics | Onkar Dikshit                                      | Winter Break   |
| 25.  | CE674A     | 3-0-3-0<br>(11)  | Global Navigation Satellite System                                | B Nagarajan  | M11:00-11:50;<br>ThF10:00-10:50<br>[OE-10]   |
| 26.  | CE630A     | 3-0-0-0<br>(9)   | Rock Mechanics  | Arghya Das   | M11:00-11:50;<br>ThF10:00-10:50<br>[PG-2]  |
| 27.  | CE632A     | 3-0-0-0<br>(9)   | Foundation Analysis and Design                                    | Nihar R Patra                                      | M12:00-13:15;<br>T9:00-10:15<br>[PG-4]   |
| 28.  | CE731A     | 3-0-0-0<br>(9)   | Risk and Reliability in Geotechnical Engineering                  | Prishati Raychowdhury                              | TF14:00-15:15<br>[DE-5]  |
| 29.  | CE642A     | 1-0-6-0<br>(9)   | Construction Engineering and Management Laboratory                | K V Harish<br>+ Syam Nair<br>+ B. Nagarajan        | Th9:00-9:50<br>[PG-T]  |
| 30.  | CE643b     | 3-0-0-0<br>(5)   | Infrastructure Financing  | K V Harish   | MWF9:00 – 9:50<br>[OE-1]   |
| 31.  | CE645A     | 1.5-0-0-0<br>(5) | Quality and Safety in Construction                                | Sudhir Misra<br>+<br>Sashank Vaidya<br>(Adj.)      | T15:35-16:50<br>[DE-6]   |
| 32.  | CE647A     | 1.5-0-0-0<br>(5) | Construction Methods  | Sudhir Misra<br>+<br>H P Yadav (Adj.)              | F15:35-16:50<br>[DE-6]   |
| 33.  | CE698A     | 0-0-0-0<br>(0)   | M. Tech. Seminar II   | DUGC / DPGC<br>Convener                            | <u>Dual Degree</u><br>Th15:00 – 15:50;<br>Th16:00 – 16:50<br><u>M. Tech</u><br>MWF17:10 – 18:25;<br>F12:00 – 12:50 |
| 34.  | CE699A     | 0-0-0-9<br>(9)   | M. Tech Thesis  | DUGC / DPGC<br>Convener                            | --   |
| 35.  | CE791A     | 0-0-0-5<br>(5)   | Literature Search and Review                                      | DPGC Convener                                      | --   |
| 36.  | CE792A     | 0-0-0-5<br>(5)   | Scientific Writing Skills   | DPGC Convener                                      | --   |
| 37.  | CE793A     | 0-0-0-5<br>(5)   | Scientific Presentation Skills                                    | DPGC Convener                                      | --   |
| 38.  | CE794A     | 0-0-0-5<br>(5)   | Scientific Data Analysis, Presentation and Interpretation         | DPGC Convener                                      | --   |

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| PG Courses [List all PG courses, including those declared DE, OE or part of minor] |                   |                             |   |  |  |
|--|-------------------|-----------------------------|---|--|--|
| 39.  | IDC603A           | 2-0-2-1<br>(9)              | English Proficiency and Scholarly Communication           | Bhaskar Dasgupta (ME)                                    | TTh17:10 – 18:25<br>F17:10 – 18:00<br>[PG-9] |
| 40.  | CE797A            | 0-0-0-0<br>(0)              | Ph.D Seminar I  | DPGC Convener  | MW10:00-10:50                                |
| 41.  | CE798A            | 0-0-0-0<br>(0)              | Ph.D Seminar II   | DPGC Convener  | MW10:00-10:50                                |
| 42.  | CE799A            | 0-0-0-9<br>(9)              | Ph.D Thesis   | DPGC Convener  | --   |
| 43.  | CE898A            | 0-0-0-0<br>(0)              | MS (Research) Seminar II                                  | DPGC Convener  | MWF17:10 – 18:25;<br>F12:00 – 12:50          |
| 44.  | CE899A            | 0-0-0-9<br>(9)              | MS (Research) Thesis                                      | DPGC Convener  | --   |
| PG Laboratory  |                   |                             |   |  |  |
| S. No.   | Course No.        | L-T-P-A (Units)             | Course Title  | Instructor   | Laboratory Schedule                          |
| 1.   | CE412A            | 3-0-2-0<br>(11)             | Water Supply and Wastewater Disposal Systems              | Mukesh Sharma<br>+<br>Purnendu Bose                      | M14:00 – 16:00                               |
| <del>2.</del>  | <del>CE432A</del> | <del>3-0-2-0<br/>(11)</del> | <del>Geographical Information System</del>                | <del>--</del>  | <del>W14:00 – 16:00</del>                    |
| 3.   | CE623A            | 2-0-3-0<br>(9)              | Experimental Methods in Structural Engineering            | Samit Ray Chaudhuri                                      | M:14:00 – 17:00                              |
| 4.   | CE612A            | 2-0-3-0<br>(9)              | Fluid Mechanics Laboratory                                | Saumyen Guha<br>+<br>Ashu Jain                           | W14:00 – 17:00                               |
| 5.   | CE613A            | 2-0-3-0<br>(9)              | Computational Methods in Hydraulics and Hydrology         | Richa Ojha   | M14:00 – 17:00                               |
| 6.   | CE668A            | 2-0-4-0<br>(10)             | Environmental Quality and Pollution Monitoring Techniques | Vinod Tare   | W14:00 – 18:00                               |
| 7.   | CE642A            | 1-0-6-0<br>(9)              | Construction Engineering and Management Laboratory        | K V Harish<br>+<br>Syam Nair<br>+<br>B Nagarajan         | MW14:00 – 17:00                              |
| 8.   | CE780A            | 1-0-6-0<br>(9)              | Laboratory Course in Transportation Engineering           | Partha Chakraborty<br>+<br>Animesh Das<br>+<br>Syam Nair | MW14:00 – 17:00                              |
| 9.   | CE674A            | 3-0-2-0<br>(11)             | Global Navigation Satellite System                        | B Nagarajan  | W14:00 – 16:00                               |