



# Adi Shankara

## INSTITUTE OF ENGINEERING AND TECHNOLOGY, KALADY

Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University

Vidya Bharathi Nagar, Kalady, Ernakulam, Kerala

[www.adishankara.ac.in](http://www.adishankara.ac.in)

### DEPARTMENT OF CIVIL ENGINEERING

### INNOVATIVE TEACHING METHODS 2022-2023

| Sl. No | Name of Faculty              | Class & Semester | Name of Course                            | Innovative method  |
|--------|------------------------------|------------------|---|--|
| 1      | Aneesh P C                   | S5 CE            | Structural Analysis I                     | Flipped Class<br>Quiz<br>Course Projects                         |
| 2      | Dr. Dhanasekar K             | S5 CE            | Hydrology & Water Resources Engineering   | Involvement of students in research activities<br>Course project |
| 3      | Dr. A N Swaminathen          | S5 CE            | Construction Technology & Management      | Lab based learning   |
| 4      | Jyothi Lekshmi R             | S5 CE            | Geotechnical Engineering II               | Seminar<br>Chart Preparation                                     |
|        |                              | S7 CE            | Ground Improvement Techniques             | Group Discussions  |
| 5      | Gisha George                 | S3 CE            | Civil Engineering Planning & Drafting Lab | Activity based learning  |
| 6      | Abhishek Kumar A A           | S3 CE            | Mechanics of Solids                       | Lab based learning<br>Course Project<br>Activity based learning  |
| 7      | Jeeva P Winto                | S3 CE            | Design & Engineering                      | Work Book<br>Case study<br>Peer learning<br>Seminar              |
| 8      | Akhila Vijayan               | S6 CE            | Transportation Engineering Lab            | Group discussions<br>Course Project                              |
| 9      | Shabnum Suhura<br>Shamsudeen | S2 CE            | Life Skill                                | Peer learning<br>Seminar   |
|        |                              | S3 CE            | Fluid Mechanics                           | Lab based learning<br>Course Project                             |

|    |                 |       |   |   |
|----|-----------------|-------|---|---|
| 10 | Reema Pius      | S5 CE | Disaster Management                       | Debate  |
|    |                 | S6 CE | Comprehensive Viva Voice                  | Worksheets  |
| 11 | Harshananda T N | S7 CE | Industrial Safety Engineering             | Case Study<br>Real life based tutorials<br>Course Project<br>Role Play<br>Short Note Techniques |
|    |                 | S7 CE | Environmental Engineering Lab             | Activity based learning   |
|    |                 | S3 CE | Surveying and Geomatics                   | Video Lectures<br>Role Play   |
|    |                 | S8 CE | Air Quality Management                    | Flipped Classroom   |
| 12 | Clydin P A      | S3 CE | Sustainable Engineering                   | Flipped Classroom<br>Debate   |
|    |                 | S3 CE | Civil Engineering Planning & Drafting Lab | Activity based learning   |
|    |                 | S8 CE | Repair & Rehabilitation of Building       | Video demonstrations  |
| 13 | Dona Joy        | S7 CE | Environmental Engineering Lab             | Activity based learning   |
|    |                 | S8 CE | Airport Seaport & Harbour Engineering     | Expert lecture  |
| 14 | Rosmin Thomas   | S8 CE | Quantity Surveying & Valuation            | Peer Learning   |
| 15 | Veena S Kumar   | S3 CE | Survey Lab                                | Activity based learning   |
| 16 | Devika B        | S3 CE | Survey Lab                                | Activity based learning   |
|    |                 | S6 CE | Environmental Engineering                 | Quiz  |
| 17 | Anna Varghese   | S4 CE | Engineering Geology                       | Crosswords<br>Activity based learning   |



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### DEPARTMENT OF CIVIL ENGINEERING

### INNOVATIVE TEACHING METHODS 2020-2021

| Sl. No | Name of Faculty              | Class & Semester | Name of Course                                | Innovative method                             |
|--------|------------------------------|------------------|---|---|
| 1      | Dr. P K Suresh               | S3 CE            | Fluid Mchanics                                | Video Lectures                                |
| 2      | Jyothi Lekshmi R             | S3 CE            | Civil Engineering Planning & Drafting Lab     | Remote Access to student Desktops             |
|        |                              | S6 CE            | Computer Aided Civil Engineering software Lab | Remote Access to student Desktops             |
| 3      | Abin Joy                     | S3 CE            | Design & Engineering                          | Work Book                                     |
|        |                              | S4 CE            | Constitution of India                         | Group Discussions                             |
| 4      | Abhishek Kumar A A           | S3 CE            | Mechanics of Solids                           | Course Project<br>Activity based learning     |
|        |                              | S6 CE            | Ground Improvement Techniques                 | Course Project on socially relevant issue     |
| 5      | Shabnum Suhura<br>Shamsudeen | S5 CE            | Water Resources Engineering                   | Course Projects<br>Mnemonics                  |
|        |                              | S3 CE            | Survey Lab                                    | Virtual lab Demonstrations                    |
|        |                              | S6 CE            | Design of Hydraulic Structures                | Course Project – Case study                   |
| 6      | Harshananda T N              | S4 CE            | Material Testing Lab                          | Quiz worksheet                                |
|        |                              | S5 CE            | Geomatics                                     | Activity Based Leraning<br>Website References |

|   |            |       |  |   |
|---|------------|-------|--|---|
|   |            | S4 CE | Engineering<br>Geology                 | Website References<br>Crossword<br>Video lectures<br>Glossary |
|   |            | S4 CE | Material Testing<br>Lab                | Quiz worksheet  |
| 7 | Seena Mani | S6 CE | Design of<br>concrete<br>Structures II | Activity based Learning                                       |



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| Sl. No | Name of Faculty    | Class & Semester | Name of Course                            | Innovative method                 |
|--------|--------------------|------------------|---|-----------------------------------|
| 1      | Aneesh P C         | S7 CE            | Environmental Impact Assessment           | Role Play<br>Debate               |
| 2      | Dr. Dhanasekar K   | S5 CE            | Hydrology and Water Resources Engineering | Blended Learning                  |
|        |                    | S6 CE            | Design of Hydraulic Structures            | Course Project                    |
| 3      | Dr. Manu S Nadesan | S5 CE            | Design of Concrete Structures             | Quiz                              |
|        |                    | S8 CE            | Civil Engineering Project management      | Peer Teaching                     |
| 4      | Jyothilekshmi R    | S5 CE            | Geotechnical Engineering II               | Charts, Models                    |
| 5      | Abin Joy           | S5 CE            | Construction Technology and Management    | Group Discussions                 |
|        |                    | S3 CE            | Survey lab                                | Animation Videos,PPTs             |
| 6      | Abishek Kumar A A  | S7 CE            | Environmental Engineering I               | Learning through Community Issues |
|        |                    | S3 CE            | Survey lab                                | Animation Videos,PPTs             |
|        |                    | S6 CE            | Comprehensive Course Work                 | Interview Method                  |
| 7      | Akhila Vijayan     | S3 CE            | Fluid Mechanics                           | Animated Videos, Online Platforms |
|        |                    | S6 CE            | Environmental Impact Assessment           | Role Play<br>Debates              |

|    |                               |       |                                  |                              |
|----|-------------------------------|-------|----------------------------------|------------------------------|
| 8  | Jeeva P Winto                 | S7 CE | Transportation Engineering       | Seminars                     |
| 9  | Shabnum Suhura<br>Shamsudheen | S3 CE | Mechanics of Solids              | Quiz and Reward Method       |
|    |                               | S8 CE | Town and Country Planning        | Seminars                     |
|    |                               | S4 CE | Geotechnical Engineering I       | Most Unclear Point Technique |
|    |                               | S3 CE | Survey lab                       | Animation Videos,PPTs        |
|    |                               | S4 CE | Fluid mechanics Lab              | Use of Virtual Lab facility  |
|    |                               | S3 CE | Surveying and Geomatics          | Flash card Techniques        |
| 10 | Harshananda T N               | S7 CE | Environmental Engineering Lab    | Activity Based Learning      |
|    |                               | S6 CE | Comprehensive Course Work        | Interview Method             |
|    |                               | S8 CE | Municipal Solid Waste Management | The Pause Procedure          |
|    |                               | S6 CE | Civil Engineering Software Lab   | Remote Access to Desktop     |
| 11 | Clydin P A                    | S6 CE | Structural Analysis II           | Flash card Techniques        |
|    |                               | S5CE  | Disaster Management              | Inquiry-based learning       |
| 12 | Dona Joy                      | S4 CE | Transportation Engineering       | Classroom discussions        |
|    |                               | S3 CE | Design and Engineering           | Design Thinking Practices    |
| 13 | Ammu David                    | S4 CE | Constitution of India            | Interview methods<br>Debates |
|    |                               | S4 CE | Engineering Geology              | Activity Based Learning      |
| 14 | Rosmin Thomas                 | S4 CE | Fluid mechanics Lab              | Use of Virtual Lab facility  |
| 15 | Veena S Kumar                 | S4 CE | Fluid mechanics Lab              | Use of Virtual Lab facility  |