



JSS MAHAVIDYAPEETHA

# JSS ACADEMY OF TECHNICAL EDUCATION

Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, INDIA  
Approved by All India Council for Technical Education, New Delhi

## DEPARTMENT OF CIVIL ENGINEERING

### DETAILS OF CONTENT BEYOND SYLLABUS FOR AY 2019-20

| Sl No | Name of the Faculty | Course with code  | CBS   | Action taken                        | Date-Month-Year | Resource Person with designation  | % of students | Relevance to POs, PSOs                           |
|-------|---------------------|---|---|-------------------------------------|-----------------|---|---------------|--|
| 1     | Hemalatha H N       | Municipal and Industrial Waste Water Engineering (15CV71) | Nanotechnology in Civil and Environmental Applications        | Guest Lecture                       | 06/11/2019      | Dr. Dinesh Rangappa, Professor & Chairman, Department of Nanotechnology VTU Center for Postgraduate Studies, Bengaluru Region, Muddenahalli, Chikkaballapur | 91            | PO1,PO2, PO3, PO6, PO7, PSO1, PSO2, PSO3         |
| 2     | Basavaraj Akki      | Applied Geotechnical Engineering (17CV53)                 | To know the fundamentals of construction of pile foundations. | Internal Seminar                    | 19/11/2019      | Basavaraj Akki  | 95            | PO1, PO2, PO3<br>PSO1, PSO2, PSO3                |
| 3     | Basavaraj Akki      | Air Pollution and Control (17CV551)                       | Bhutan – Carbon negative country                              | Student Seminar & Report submission | 08/11/2019      | Basavaraj Akki  | 100           | PO8, PO12, PSO2, PSO3                            |
| 4     | Abdul Razak B H     | Design of RCC and Steel Structures (15CV72)               | Composite Construction  | Expert talk                         | 19/10/2019      | Er.Venkatesh.K.V , Senior Structural Engineer, TRC Engineering(I) Pvt.ltd., Bangalore   | 95            | PO1,PO2, PO3,PO4, PO7,PO8, PO9,PO10 , PSO1, PSO3 |
| 5     | Shashi Kumara S R   | Fluid Mechanics (18CV33)                                  | Different forces acting on dam section                        | Field visit to Markonalli Dam       | 28/08/2019      | Shashikumar S R Assistant Professor, Department of Civil Engineering, JSSATE, Bangalore   | 100           | PO1,PO2, PO3,PO4, PO6,PSO1 , PSO3                |
| 6     | Shashi Kumara S     | Rehabilitation and  | Contemporary repair   | Expert talk                         | 16/10/2019      | Sunil R K C.E.O,  | 100           | PO1, PO2, PO3, PO4,                              |

|    |                 |   |  |                   |                          |  |     |  |
|----|-----------------|---|--|-------------------|--------------------------|--|-----|--|
|    | R               | Retrofitting of Structures (15CV753)                | materials  |                   |                          | M/S Design Tree Service Consultants Pvt. Ltd., Bangalore   |     | PO6, PSO1, PSO2, PSO3                    |
| 7  | Abhishek R      | Hydrology and Irrigation Engineering (17CV73)       | Salient Features of Yettinahole Project  | Expert talk       | 16/10/2019               | Er. Surendra G.B, Deputy Chief Engineer, Yettinahole Project, Visvesvaraya Jala Nigam Ltd, Government of Karnataka, Tumkur | 100 | PO1, PO2, PO3, PSO1                      |
| 8  | Pramukh N       | Urban Transport Planning (17CV751)                  | Different modes of Urban transport and their ranking based on user and planners view | Report Submission | 10/09/2019               | Pramukh N  | 100 | PO1, PSO1, PSO2                          |
| 9  | Dr Santhosh B S | Design of RC Structural Elements (17CV51)           | Analysis and design of RC Structural element using Staad Pro Software                | Workshop          | 30/11/2019               | Mr Shashi Kumar C S, Principal Consultant, M & J Consultant  | 68  | PO1, PO2, PO3, PO8, PSO1, PSO2, PSO3     |
| 10 | Dr santhosh B S | Design of RC Structural Elements (17CV51)           | Visit to M/s JSW Cements Manufacturing Unit, Bellary                                 | Industrial Visit  | 15/11/2019 to 17/11/2019 | Dr Santhosh B S  | 90  | PO1, PO2, PO3, PO8, PSO1, PSO2, PSO3     |
| 11 | Harshitha M N   | Basic Surveying (18CV35)                            | Errors, Mistakes and precautions in Levelling  | Internal Lecture  | 23/09/2019               | Harshitha M N  | 98  | PO1, PO2, PO3, PSO1, PSO2                |
| 12 | Rashmi S.M      | Traffic Engineering (17CV561)                       | Analysis of road accidents   | Internal Lecture  | 28/11/2019               | Rashmi S.M   | 90  | PO1, PO2, PO3, PSO1, PSO2, PSO3          |
| 13 | Rashmi S.M      | Railways, Harbors, Tunneling and Airports (17CV552) | Visual aids - Airport  | Internal Lecture  | 18/11/2019               | Rashmi S.M   | 100 | PO 1, PO 2, PO 3, PO 4, PSO1, PSO2, PSO3 |
| 14 | Apoorva S       | Engineering Geology                                 | Application of Remote  | Internal Lecture  | 20/11/2019               | Apoorva S  | 95  | PO1, PO3                                 |

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|----|-------------------|--|---|-------------------------------|--------------------------|--------------------|-----|--------------------------------------|
|    |                   | (18CV36)                                 | sensing and GPS in civil engineering field        |                               |                          |                    |     |                                      |
| 15 | Shashi Kumara S R | Fluid Mechanics (18CV33)                 | Feature of River Valley Project                   | Field visit to Markonalli Dam | 28/08/2019               | Shashi Kumara S R, | 100 | PO1, PO6, PO7, PSO1, PSO2, PSO3      |
| 16 | Dr Santhosh B S   | Design of RC Structural Element (17CV51) | To Understand the Manufacturing Process of Cement | Industrial Visit              | 15-11-2019 to 17-11-2019 | Dr Santhosh B S    | 90  | PO1, PO2, PO3, PO8, PSO1, PSO2, PSO3 |



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| SI No | Name of the Faculty  | Course with code                          | GAP/CBS  | Action taken                       | Date-Month-Year | Resource Person with designation  | % of students | Relevance to POs, PSOs          |
|-------|----------------------|---|--|------------------------------------|-----------------|---|---------------|---------------------------------|
| 1     | Dr.Abdul Razak B H   | Design of RCC and Steel Structures-18CV72 | Durability based design of marine structures         | Webinar                            | 19/11/2020      | Dr. Radhakrishna Pillai, Associate Professor, IIT, Madras   | 100%          | PO1,PO3,PO4,PO7,PO8,PO9,PO10    |
| 2     | Dr.Vivek.S           | Basic Geotechnical Engineering-18CV54     | Determination of Soil Shear parameters in Laboratory | Practical conduction in Laboratory | 16/11/2020      | Dr.Vivek.S, Assistant Professor, Civil Department, JSSATE   | 90%           | PO1,PO2,PSO1,PSO2               |
| 3     | Prof. Basavaraj Akki | Basic Surveying - 18CV35                  | Tacheometric survey                                  | Technical Talk                     | 11/12/2020      | Prof. Basavaraj Akki, Prof. Archana J, Assistant Professor, Civil Department, JSSATE - Bengaluru. | 100%          | PO1, PO2, PO3, PSO1, PSO2       |
| 4     | Prof. Archana J      | Basic Surveying - 18CV35                  | Tacheometric survey                                  | Technical Talk                     | 11/12/2020      | Prof. Basavaraj Akki, Prof. Archana J, Assistant Professor, Civil Department, JSSATE - Bengaluru. | 100%          | PO1, PO2, PO3, PSO1, PSO2       |
| 5     | Prof. Basavaraj Akki | Applied Geotechnical Engineering          | Construction of Pile Foundations                     | Technical Talk                     | 20/07/2021      | Prof. Basavaraj Akki, Assistant Professor, Civil Department, JSSATE - Bengaluru.                  | 100%          | PO1, PO2, PO3, PSO1, PSO2, PSO3 |
| 6     | Prof Rashmi SM       | Pavement Design - 17CV833                 | Functional & Structural analysis of Pavement         | Technical talk                     | 17/07/2021      | Prof. Rashmi SMi, Assistant Professor, Civil Department,  | 100%          | PO1, PO2, PO3, PSO1, PSO2,      |

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|----|----------------------|--|--|----------------|------------|--|------|---|
|    |                      |  |  |                |            | JSSATE - Bengaluru.  |      | PSO3  |
| 7  | Prof Rashmi SM       | Railways, Harbors, Tunnel & Airport - 18CV645                                  | History of Indian Railways                 | Technical talk | 26/05/2020 | Prof. Rashmi SMi, Assistant Professor, Civil Department, JSSATE - Bengaluru.   | 100% | PO1, PO2, PO3, PSO1, PSO2, PSO3                     |
| 8  | Prof. Harshitha M N  | Advanced Surveying-  | Modern Surveying Instruments               | Technical talk | 14/07/2021 | Prof. Harshitha M N, Assistant Professor, Civil Department, JSSATE - Bengaluru | 100% | PO2, PO3, PO5, PSO1, PSO2                           |
| 9  | Prof. Archana J      | Basic Building Materials   | "Use of construction and demolition waste" | Technical talk | 14/12/2020 | Prof. Archana J, Assistant Professor, Civil Department, JSSATE - Bengaluru     | 100% | PO1, PO2, PO3, PSO1, PSO2,                          |
| 10 | Prof Apoorva S       | Analysis of Indeterminate Structures   | Learning from Structural Failure           | Webinar        | 23/10/2021 | Prof. Aravind Galagali, Ministry of water resource, Govt of India.             | 90%  | PO1, PO2, PO3, PO4                                  |
| 11 | Dr. Shashikumara S R | Quantity Surveying and Contracts Management - 17CV81                           | Estimation of Building                     | Unit Test      | 26/04/2021 | Dr. Shashikumara S R Assistant Professor, Civil Department, JSSATE - Bengaluru | 100% | PO1, PO2, PO3, PSO1, PSO2, PSO3                     |
| 12 | Dr. Hemalatha H. N.  | Municipal and Industrial Waste Water Engineering (18CV55/C305 and 15CV71/C401) | Demonstration of Activated Sludge Process  | Technical Talk | 14/10/2020 | Dr. Hemalatha H. N. Assistant Professor, Civil Department, JSSATE - Bengaluru  | 100% | PO1, PO2, PO3, PO4, PO6, PO7, PSO1, PSO2, PSO3      |
| 13 | Dr. Hemalatha H. N.  | Water Supply and Treatment Engineering (18CV46/C215)                           | Design of Water Treatment Plant Units      | Technical Talk | 03/06/2021 | Dr. Hemalatha H. N. Assistant Professor, Civil Department, JSSATE - Bengaluru  | 100% | PO1, PO2, PO3, PO4, PO6, PO7, PO8, PSO1, PSO2, PSO3 |

|    |                       |  |   |                |            |  |      |   |
|----|-----------------------|--|---|----------------|------------|--|------|---|
| 14 | Prof. Basavaraj Akki  | Water Supply and Treatment Engineering (18CV46/C215) | Design of Water Treatment Plant Units   | Technical Talk | 03/06/2021 | Dr. Hemalatha H. N. Assistant Professor, Civil Department, JSSATE - Bengaluru  | 100% | PO1, PO2, PO3, PO4, PO6, PO7, PO8         |
| 15 | Dr. Shashikumara S R  | Fluid Mechanics - 18CV33                             | Numerical Problem Solving   | Assignment     | 20/01/2021 | Dr. Shashikumara S R Assistant Professor, Civil Department, JSSATE - Bengaluru | 100% | PO1, PO2, PO3, PO4, PSO1, PSO2            |
| 16 | Dr. Sanjay Shekar N C | Hydrology and Irrigation Engineering- 17CV73         | Integrated Water Resources Management   | Technical talk | 25/09/2020 | Dr. Sanjay Shekar N C Associate Professor, Civil Department, JSSATE            | 100  | PO4, PO5, PO6, PO7, PSO3                  |
| 17 | Dr. Sanjay Shekar N C | Ground Water Hydrology- 17CV742                      | Sustainable Ground Water Management   | Technical talk | 24/9/2020  | Dr. Sanjay Shekar N C Associate Professor, Civil Department, JSSATE            | 100  | PO4, PO5, PO6, PO7, PSO3                  |
| 18 | Prof. Pramukh N       | Concrete Technology                                  | Grades of Concrete and Application of different grades  | Technical Talk | 13/04/2021 | Prof. Pramukh N Assistant Professor, Civil Department, JSSATE - Bengaluru      | 100% | PO1, PO2, PO3, PO4, PO8, PSO1, PSO2, PSO3 |
| 19 | Dr Santhosh B S       | Concrete Technology (18CV44)                         | Analysis and Design of Mix Proportion & Analyzing the Fresh and Hardened Properties of a prepared Concrete Mix using IS-Codes | Mini Project   | 23/05/2021 | Dr Santhosh B S, Associate Professor, Department of Civil Engineering, JSSATEB | 100% | PO2, PO3, PO4, PO8, PSO1, PSO2, PSO3      |



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|-------|-----------------------|---|--|----------------|-------------------|--|---------------|---|
| 1     | Dr. Hemalatha H N     | Municipal Waste Water Engineering – 18CV55          | Design of Sludge digestion tanks                           | Technical talk | 29/11/2021        | Dr. Hemalatha H N<br>Associate Professor, Civil Department, JSSATE   | 100           | CO5, PO1, PO2, PO3, PSO1, PSO2                      |
| 2     | Dr. Hemalatha H N     | Air Pollution And Control – 18CV732                 | Odour pollution and its control                            | Technical talk | 30/11/2021        | Dr. Hemalatha H N<br>Associate Professor, Civil Department, JSSATE   | 100           | CO2, PO1, PO2, PSO1, PSO3                           |
| 3     | Abhishek R            | Construction Management and Entrepreneurship 18CV51 | Future Technologies and Employability in Built Environment | Webinar        | 18/10/2021        | Prof. Anupam Saxena Mrics, Asso. Dean & Director, School of Real Estate & Infrastructure, RICS SBE, Noida. | 100           | PO9, PO10, PO11, PSO2                               |
| 4     | Dr. Sanjay Shekar N C | Hydrology and Irrigation Engineering- 17CV73        | Integrated Water Resources Management                      | Technical talk | 06/08/2021        | Dr. Sanjay Shekar N C<br>Associate Professor, Civil Department, JSSATE                                     | 100           | PO4, PO5, PO6, PO7, PSO3                            |
| 5     | Dr. Sanjay Shekar N C | Ground Water Hydrology- 17CV742                     | Sustainable Ground Water Management                        | Technical talk | 20/12/2021        | Dr. Sanjay Shekar N C<br>Associate Professor, Civil Department, JSSATE                                     | 100           | PO4, PO5, PO6, PO7, PSO3                            |
| 6     | Abdul Razak B H       | Design of RCC and Steel structures - 18CV72         | Composite construction                                     | Technical Talk | 25/01/2022        | Dr Abdul Razak B H,<br>Assistant Professor, Department of Civil Engineering, JSSATEB                       | 100%          | PO1, PO2, PO3, PO4, PO7, PO8, PO9, PO10, PSO1, PSO3 |

|    |                     |   |  |                |            |  |      |  |
|----|---------------------|---|--|----------------|------------|--|------|--|
| 7  | Dr. Hemalatha H N   | Water Supply and Treatment Engineering – 18CV46   | Methods of laying of water supply lines                | Technical Talk | 13/07/2022 | Dr. Hemalatha H N<br>Associate Professor, Civil Department, JSSATE | 100% | CO4, PO2, PO3, PSO1, PSO2                        |
| 8  | Dr. Abdul Razak B H | Design of Steel Structural Elements - 18CV61      | Evaluation of Structure-Life Cycle Cost Analysis       | Webinar        | 08/06/2022 | Mr. A.K. Samanta, GM-Mechanical-INS DAG                            | 100% | PO2, PO8, PO12                                   |
| 9  | Mr. Basavaraj Akki  | Applied Geotechnical Engineering - 18CV62         | Construction of Pile Foundations                       | Technical Talk | 11/07/2022 | Mr. Basavaraj Akki, Asst. Professor                                | 100% | PO1, PO2, PO3, PSO1, PSO2, PSO3                  |
| 10 | Rashmi SM           | Railways, Harbors, Tunneling and Airports 18CV645 | Construction of Railway tracks using Modern equipments | Technical Talk | 02/07/2022 | Rashmi SM  | 100% | PO5, PO6, PO7, PO9, PO10, PO11, PSO1, PSO2, PSO3 |