VIDYA JYOTHI
INSTITUTE OF TECHNOLOGY
AN AUTONOMOUS INSTITUTION

**Department of Civil Engineering**
**Teaching Learning**
**2021-2022**

| S. No | Faculty Name | Course | Topic | Innovative methods adopted | Goals | Preparation | The significance of Result | Availability of review and critique | Reproducibility and Reusability |
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| 1 | Mr. Anand | ES (II-I) | Cyclone separators | Visualization | To make them understand to control air pollution | Students will have basic ideas of air pollution | Visually students can understand how the pollutants can be removed | Report on concept demonstrate will be availed for the references | Clear visualization of working animation of cyclone can be possible |
| 2 | Mr. G Uma Shankar | S&G (II-I) | Parts of Total Station | Demonstration Based Learning | To show the students parts of total station physically | Students will come with the basic preparation on a topic | The students are able to see the parts of total station Practically | Report on concept demonstrate will be availed for the references | The students are able to clearly identify and the parts of total station. |
| 3 | Mrs. V Swathi | SM-1(II-I) | Deflection of cantilever beam | Demonstration based learning | To show the students how the beam deflects | Students will be addressed with types of loads and beams for the topic | Students will be able to see the deflection of the beam with increase of load | Report on concept demonstrate will be availed for the references | The students are able to identify clearly the types of beams and deflection with load |
| 4 | Mr. Anand | APCM (III-1) | Global warming | Visualization based learning | To demonstrate the impacts of air pollutants on globe which is leading to global warming | The level of understanding of technical concepts of the students is depicted | By this video the students are exposed to the knowledge on the current global problems and shall move towards in reducing the production of such gases by living sustainable and low carbon lifestyle. | Report on concept demonstrate will be availed for the references | It will be useful for the upcoming students in preparation of models through understanding |

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| 5 | Mr. Vithal | GBT (IV-I) | Fundamentals of green building | Industry visit | To understand green building principle | Basic knowledge about green buildings | Working of green building in terms of efficiency | Report on concept demonstrate will be availed for the references | Able to understand clearly how GBT achieve efficiency in all aspects |
| 6 | Dr. Saduwale Shrihari | PSC (IV-I) | Losses of prestress | ICT based learning | To show the students Losses of prestress & classification | Students share the basic ideas about the topic | Students are able to know the classification & losses of prestress | Report on concept demonstrate will be availed for the references | Students can know strains caused by load compressive stress in a prestress part |
| 7 | Mrs. V Navodaya | RAHE (IV-I) | Components of Rail & track | Field visit | To involve the students in self-understanding | Students will come with the basic preparation on a topic | The level of understanding of technical concept of the students is depicted | Report on concept demonstrate will be availed for the references | Students of upcoming batches can refer the report on field visit |
| 8 | Dr. Pallavi Badry | BMC (II-II) | Stones and Bricks | Demonstration based learning | To show the students how bricks can be durable, quality and strength for the purpose of construction | Basic practical Knowledge about the topic | Students will be able to know the characteristic property of stones and bricks | Report on concept demonstrate will be availed for the references | Able to understand clearly how characteristic property of stones and bricks can be achieved in all aspects |
| 9 | Mrs. Dhanasure Pooja | HHM (III-II) | Centrifugal working principle | Visualization based learning | To show the video of working of centrifugal pumps and its parts | Basic knowledge about pump | The students were able to calculate significant losses and efficiencies, strategy speed | Report on concept demonstrate will be availed for the references | Students are able to clearly understand for working principle |
| 10 | Mrs. Tirumala Deepika | GIT (III-II) | Grouting methods | Visualization based learning | To demonstrate concept of grouting | Video lecture | This video helped the students to bridge the gap between education and hands – on experience. | Report on concept demonstrate will be availed for the references | Continuous learning and illustration in practical understanding |
| 11 | Mr. Ashwin Kumar M | DSS (III-II) | Design of column splice | Visualization based learning | To demonstrate the design of | The level of understanding of technical | By this video the students can understand how | Report on concept demonstrate will | It will be useful for the upcoming students in |

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| | | | | | column splice | concepts of the students is depicted | a column can be spliced when the available structural steel is less than required length of column | be availed for the references | preparation of models through understanding |
| 12 | Ms. Rebba Abhigna | FE (III-II) | Detailing and types of foundation | Field visit | Understanding about the soil investigation and laying of foundation | Students will understand the field condition of the soil and variation in depth of foundation | The field visit will make the students about variation of depth & silt and hard strata | Report on concept demonstrate will be availed for the references | It will be helpful to calculate the bearing capacity and prepare the models of foundation |
| 13 | Mrs. Thirumala Sujatha | RRS (IV-II) | Techniques for repair and protection methods | Demonstration based learning | To Demonstrate the NDT tests | Students will come with the basic preparation on NDT & DT | By the demonstration students can understand how the strength of the structure can be calculated with rebound hammer test | Report on concept demonstrate will be availed for the references | Students will be able to know the difference between the NDT, DT & existing structure strength |

**Note: Detailed Report has been filed with Po's Mapping in the Report**

**Faculty Incharge**

**HOD**

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