

INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
PROFORMA FOR NEW COURSE

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| 1. | Title of the Course | Traffic Engineering Laboratory |
| 2. | Course Number | CE5197 |
| 3. | Status of the Course | Core |
| 4. | Structure of Credits | 0-0-3-2 |
| 5. | Offered To | PG |
| 6. | New Course/Modification to | New |
| 7. | To be Offered by | Department of Civil and Environmental Engineering |
| 8. | To take effect from | July 2019 |
| 9. | Prerequisite | Nil |
| 10. | Whether approved by the Department | Yes |
| 11. | Course Objective: The course would help the students to understand the different techniques used for traffic data collection at various road facilities. Students will learn data processing methods, subjecting them to analysis and interpretation. The course also gives exposure to software tools like video data analyzer and traffic simulation. | |
| 12. | Course Content: Volume study; Spot speed study; Headway study; Moving observer method study; Origin-Destination survey; Parking survey; Intersection volume study; Saturation flow measurement; Intersection delay measurement; Gap acceptance study of uncontrolled intersection; Exposure to use of software tools such as video data analyzer and traffic simulation. | |
| 13. | Text book(s): 1. Roess R P, Prassas E S and McShane W R, <i>Traffic Engineering</i> , Pearson (2010). 2. Kadiyali L R, <i>Traffic Engineering and Transport Planning</i> , Khanna Publishers (2011). | |
| 14. | Reference(s): 1. Khanna S K, Justo C E G and Veeraragavan A, <i>Highway Engineering</i> , Nem Chand & Brothers (2015). | |