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| LESSON PLAN | | | | | | | |
| Name of the department: ECE Class: I-I, ECE-A  Lab name : Engineering Mechanics Year: 2015-16 | | | | | | | |
| **Period** | | **Date (Tentative)** | **Topic** | **Unit No.** | | **Teaching Methodology** | **Remarks** |
| 4,5 |  | 27.07.2015 | Introduction to engineering mechanics, Types of forces | | I | Black Board |  |
| 3 |  | 28.07.2015 | parallelogram law, Triangular law of forces, polygon law of forces | | I | Black Board |  |
| 3 |  | 31.07.2015 | Resultant of  coplanar concurrent forces | | I | Black Board |  |
| 4,5 |  | 03.08.2015 | Excise problems | | I | Black Board |  |
| 3 |  | 04.08.2015 | Equilibrium–free body diagrams–Equations of  equilibrium | | II | Black Board |  |
| 3 |  | 07.08.2015 | analytical methods for  equilibrium of planar systems | | II | Black Board |  |
| 3 |  | 11.08.2015 | Moment of a Force and its applications | | II | Black Board |  |
| 3 |  | 14.08.2015 | Varignon’s theorem | | II | Black Board |  |
| 4,5 |  | 17.08.2015 | Moment Excise problems | | II | Black Board |  |
| 3 |  | 18.08.2015 | Two roller Excise problems | | II | Black Board |  |
| 3 |  | 21.08.2015 | Three roller Excise problems | | III | Black Board |  |
| 4,5 |  | 24.08.2015 | Excise problems | | III | Black Board |  |
| 3 |  | 28.08.2015 | Excise problems | | III | Black Board |  |
| 3 |  | 01.09.2015 | Excise problems | | III | Black Board |  |
| 3 |  | 04.09.2015 | Friction of screw and nuts – screw jack. | | III | Black Board |  |
|  |  | 04.09.2015 to 09.09.2015 | Mid examination-I | |  | Black Board |  |
| 3 |  | 11.09.2015 | Introduction to friction, types of friction and friction laws | | III | Black Board |  |
| 4,5 |  | 14.09.2015 | application of  friction - Inclined plane | | IV | Black Board |  |
| 3 |  | 18.09.2015 | Excise problems | | III | Black Board |  |
| 4,5 |  | 21.09.2015 | Excise problems | | III | Black Board |  |
| 3 |  | 22.09.2015 | Introduction to center of gravity, | | III | Black Board |  |
| 3 |  | 25.09.2015 | centroid of area and lines– | | III | Black Board |  |
| 4,5 |  | 28.09.2015 | Determination of centroid by integration. | | III | Black Board |  |
| 3 |  | 29.09.2015 | Excise problems | | III | Black Board |  |
| 4,5 |  | 05.10.2015 | Excise problems | | III | Black Board |  |
| 3 |  | 06.10.2015 | Excise problems | | III | Black Board |  |
| 3 |  | 09.10.2015 |  | | III | Black Board |  |
|  |  | 15.10.2015 to 17.10.2015 | Mid examination-II | |  | Black Board |  |
| 3 |  | 20.10.2015 | Introduction to moment of inertia, polar moment of Inertia–Radius of gyration -  Transfer theorem for moment of Inertia | | IV | Black Board |  |
| 3 |  | 23.10.2015 | Area moment of inertia of the rectangle, circle, semicircle, etc. | | V | Black Board |  |
| 4,5 |  | 26.10.2015 | Excise problems of inertia of composite areas, product of  inertia – Transfer formula for product of Inertia. | | V | Black Board |  |
| 3 |  | 27.10.2015 | Moment of inertia of masses–Radius of gyration–Transfer  formula for mass moment of inertia Mass moment of Inertia by Integration**.** | | V | Black Board |  |
| 3 |  | 30.10.2015 | Excise problems | | V | Black Board |  |
| 4,5 |  | 02.11.2015 | Introduction to dynamics, Kinematics, Kinetics. | | V | Black Board |  |
| 3 |  | 02.11.2015 | Rectilinear motion of the Kinematics, D’Alembert’s principal | | V | Black Board |  |
| 3 |  | 03.11.2015 | Excise problems | | V | Black Board |  |
| 4,5 |  | 02.11.2015 | Curvilinear motion of the Kinematics Normal and Tangential components of acceleration, Radial and transverse  components | | V | Black Board |  |
| 3 |  | 03.11.2015 | Excise problems | | V | Black Board |  |
| 3 |  | 06.11.2015 | Kinematics of rigid bodies - angular motion – fixed axis rotation, Definition and analysis of plane motion. | | V | Black Board |  |
| 3 |  | 10.11.2015 | Kinetics of rigid bodies–equation of planes motion–fixed axis rotation–rolling | | V | Black Board |  |
| 3 |  | 13.11.2015 | bodies (simple examples)- general plane motion (Simple examples). | | V | Black Board |  |
| 3 |  | 17.11.2015 | Excise problems | | V | Black Board |  |
| 3 |  | 20.11.2015 | Excise problems | | V | Black Board |  |
| 3 |  | 24.11.2015 | Excise problems | | V | Black Board |  |
|  |  | 26.11.2015 to 28.11.2015 | Mid examination-III | |  |  |  |