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| LESSON PLAN | | | | | | | |
| Name of the department: ECE Class: I-I, ECE  Course name : Engineering Mechanics Year: 2013-14 | | | | | | | |
| **Period** | | **Date (Tentative)** | **Topic** | **Unit No.** | | **Teaching Methodology** | **Remarks** |
|  | 1 | 30-09-2013 | Introduction to engineering mechanics, Types of forces | | I | Black Board |  |
|  | 2 | 01-10-2013 | parallelogram law, Triangular law of forces, polygon law of forces | | I | Black Board |  |
|  | 3 | 04-10-2013 | Resultant of  coplanar concurrent forces | | I | Black Board |  |
|  | 4 | 05-10-2013 | Excise problems | | I | Black Board |  |
|  | 5 | 07-10-2013 | Equilibrium–free body diagrams–Equations of  equilibrium | | II | Black Board |  |
|  | 6 | 08-10-2013 | analytical methods for  equilibrium of planar systems | | II | Black Board |  |
|  | 7 | 15-10-2013 | Moment of a Force and its applications | | II | Black Board |  |
|  | 8 | 18-10-2013 | Varignon’s theorem | | II | Black Board |  |
|  | 9 | 19-10-2013 | Moment Excise problems | | II | Black Board |  |
|  | 10 | 21-10-2013 | Two roller Excise problems | | II | Black Board |  |
|  | 11 | 22-10-2013 | Three roller Excise problems | | III | Black Board |  |
|  | 12 | 25-10-2013 | Excise problems | | III | Black Board |  |
|  | 13 | 26-10-2013 | Excise problems | | III | Black Board |  |
|  | 14 | 28-10-2013 | Excise problems | | III | Black Board |  |
|  | 15 | 29-10-2013 | Friction of screw and nuts – screw jack. | | III | Black Board |  |
|  | 16 | 01-11-2013 | Mid examination-I | |  | Black Board |  |
|  | 17 | 02-11-2013 | Introduction to friction, types of friction and friction laws | | III | Black Board |  |
|  | 18 | 04-11-2013 | application of  friction - Inclined plane | | IV | Black Board |  |
|  |  |  | Excise problems | | III | Black Board |  |
|  | 19 | 05-11-2013 | Excise problems | | III | Black Board |  |
|  | 20 | 08-11-2013 | Introduction to center of gravity, | | III | Black Board |  |
|  | 21 | 11-11-2013 | centroid of area and lines– | | III | Black Board |  |
|  | 22 | 12-11-2013 | Determination of centroid by integration. | | III | Black Board |  |
|  | 23 | 16-11-2013 | Excise problems | | III | Black Board |  |
|  | 24 | 18-11-2013 | Excise problems | | III | Black Board |  |
|  | 25 | 19-11-2013 | Excise problems | | III | Black Board |  |
|  | 26 | 22-11-2013 |  | | III | Black Board |  |
|  | 27 | 23-11-2013 | Mid examination-II | |  | Black Board |  |
|  | 28 | 25-11-2013 | Introduction to moment of inertia, polar moment of Inertia–Radius of gyration -  Transfer theorem for moment of Inertia | | IV | Black Board |  |
|  | 29 | 26-11-2013 | Area moment of inertia of the rectangle, circle, semicircle, etc. | | V | Black Board |  |
|  | 30 | 27-11-2013 | Excise problems of inertia of composite areas, product of  inertia – Transfer formula for product of Inertia. | | V | Black Board |  |
|  | 31 | 30-11-2013 | Moment of inertia of masses–Radius of gyration–Transfer  formula for mass moment of inertia Mass moment of Inertia by Integration**.** | | V | Black Board |  |
|  | 32 | 02-12-2013 | Excise problems | | V | Black Board |  |
|  | 33 | 03-12-2013 | Introduction to dynamics, Kinematics, Kinetics. | | V | Black Board |  |
|  | 34 | 06-12-2014 | Rectilinear motion of the Kinematics, D’Alembert’s principal | | V | Black Board |  |
|  | 35 | 07-12-2013 | Excise problems | | V | Black Board |  |
|  | 36 | 09-12-2013 | Curvilinear motion of the Kinematics Normal and Tangential components of acceleration, Radial and transverse  components | | V | Black Board |  |
|  | 37 | 10-12-2013 | Excise problems | | V | Black Board |  |
|  | 38 | 13-12-2013 | Kinematics of rigid bodies - angular motion – fixed axis rotation, Definition and analysis of plane motion. | | V | Black Board |  |
|  | 39 | 16-12-2013 | Kinetics of rigid bodies–equation of planes motion–fixed axis rotation–rolling | | V | Black Board |  |
|  | 40 | 23-12-2013 | bodies (simple examples)- general plane motion (Simple examples). | | V | Black Board |  |
|  |  |  | Excise problems | | V | Black Board |  |
|  | 41 | 04-1-2014 | Excise problems | | V | Black Board |  |
|  | 42 | 24-01-2014 | Excise problems | | V | Black Board |  |
|  | 43 | 28-01-2014 | Mid examination-III | |  |  |  |