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| LESSON PLAN | | | | | | | |
| Name of the department: ECE Class: I-I, ECE-A  Subject name : Engineering Mechanics Year: 2016-17 | | | | | | | |
| **Period** | | **Date (Tentative)** | **Topic** | **Unit No.** | | **Teaching Methodology** | **Remarks** |
| 5 | 1 | 17.08.2016 | Introduction to engineering mechanics, Types of forces | | I | Black Board |  |
| 1 | 2 | 18.08.2016 | parallelogram law, Triangular law of forces, polygon law of forces | | I | Black Board |  |
| 1 | 3 | 19.08.2016 | Resultant ofcoplanar concurrent forces | | I | Black Board |  |
| 6 | 4 | 20.08.2016 | Excise problems | | I | Black Board |  |
| 3 | 5 | 22.08.2016 | Excise problems | | I | Black Board |  |
| 5 | 6 | 24.08.2016 | Excise problems | | I | Black Board |  |
| 1 | 7 | 26.08.2016 | Equilibrium–free body diagrams– | | II | Black Board |  |
| 6 | 8 | 27.08.2016 | Equations ofequilibrium | | II | Black Board |  |
| 3 | 9 | 28.08.2016 | analytical methods for  equilibrium of planar systems | | II | Black Board |  |
| 5 | 10 | 31.08.2016 | One roller problems | | II | Black Board |  |
| 1 | 11 | 02.09.2016 | Two roller problems | | II | Black Board |  |
| 1 | 12 | 03.09.2016 | Three roller problems | | II | Black Board |  |
| 5 | 13 | 07.09.2016 | Types of parallel forces | | II | Black Board |  |
| 1 | 14 | 08.09.2016 | Like parallel, unlike parallel forces | | II | Black Board |  |
| 1 | 15 | 09.09.2016 | Excise problems | | II | Black Board |  |
| 6 | 16 | 10.09.2016 | Excise problems | | II | Black Board |  |
| 5 | 17 | 14.09.2016 | Moment of a Force and its applications | | II | Black Board |  |
| 1 | 18 | 15.09.2016 | Varignon’s theorem | | II | Black Board |  |
| 1 | 19 | 16.09.2016 | Excise problems | | II | Black Board |  |
| 6 | 20 | 17.09.2016 | Excise problems | | II | Black Board |  |
| 3 | 21 | 19.09.2016 | Excise problems | | II | Black Board |  |
| 5 | 22 | 21.09.2016 | Excise problems | | II | Black Board |  |
| 1 | 23 | 22.09.2016 | Excise problems | | II | Black Board |  |
| 1 | 24 | 23.09.2016 | Excise problems | | II | Black Board |  |
| 6 | 25 | 24.09.2016 | Excise problems | | II | Black Board |  |
| 6 | 26 | 01.10.2016 | Introduction to friction, types of friction and friction laws | | III | Black Board |  |
| 3 | 27 | 03.10.2016 | application of  friction - Inclined plane | | III | Black Board |  |
| 6 | 28 | 05.10.2016 | Excise problems | | III | Black Board |  |
| 1 | 29 | 06.10.2016 | Excise problems | | III | Black Board |  |
| 1 | 30 | 07.10.2016 | friction of screw and nuts – screw jack. | | III | Black Board |  |
| 6 | 31 | 08.10.2016 | Excise problems | | III | Black Board |  |
| 3 | 32 | 17.10.2016 | Introduction to center of gravity, | | III | Black Board |  |
| 5 | 33 | 19.10.2016 | centroids of area and lines–  determination of centroids by integration. | | III | Black Board |  |
| 1 | 34 | 20.10.2016 | Centroid of the different sections | | III | Black Board |  |
| 1 | 35 | 21.10.2016 | centroids of composite figures – | | III | Black Board |  |
| 6 | 36 | 22.10.2016 | theorems ofPappus. | | III | Black Board |  |
| 3 | 37 | 24.10.2016 | Excise problems | | III | Black Board |  |
| 5 | 38 | 26.10.2016 | Excise problems | | III | Black Board |  |
| 1 | 39 | 27.10.2016 | Excise problems | | III | Black Board |  |
| 1 | 40 | 28.10.2016 | Excise problems | | III | Black Board |  |
| 6 | 41 | 29.10.2016 | Excise problems | | III | Black Board |  |
| 3 | 42 | 31.10.2016 | Excise problems | | III | Black Board |  |
| 5 | 43 | 02.11.2016 | Introduction to moment of inertia, polar moment of Inertia–Radius of gyration - | | IV | Black Board |  |
| 1 | 44 | 03.11.2016 | Transfer theorem for moment of Inertia Area moment of inertia of the rectangle. | | IV | Black Board |  |
| 1 | 45 | 04.11.2016 | Area moment of inertia of the circle, semicircle, etc | | IV | Black Board |  |
| 6 | 46 | 05.11.2016 | Excise problems of inertia of composite areas, product of  inertia – Transfer formula for product of Inertia. | | IV | Black Board |  |
| 3 | 47 | 07.11.2016 | Moment of inertia of masses–Radius of gyration | | IV | Black Board |  |
| 5 | 48 | 09.11.2016 | Transferformula for mass moment of inertia Mass moment of Inertia by Integration**.**Excise problems | | IV | Black Board |  |
| 1 | 49 | 10.11.2016 | Excise problems | | IV | Black Board |  |
| 1 | 50 | 11.11.2016 | Excise problems | | IV | Black Board |  |
| 6 | 51 | 12.11.2016 | Introduction to dynamics, Kinematics, Kinetics. | | V | Black Board |  |
| 3 | 52 | 14.11.2016 | Rectilinear motion of the Kinematics, | | V | Black Board |  |
| 5 | 53 | 16.11.2016 | D’Alembert’s principal | | V | Black Board |  |
| 1 | 54 | 17.11.2016 | Curvilinear motion of the Kinematics Normal and Tangential components of acceleration, Radial and tr6ansverse  Components | | V | Black Board |  |
| 1 | 55 | 18.11.2016 | Exc5ise problems | | V | Black Board |  |
| 6 | 56 | 19.11.2016 | Kine1matics of rigid bodies - angular motion – fixed axis rotation – Definition  and analysis of plane motion. | | V | Black Board |  |
| 3 | 57 | 21.11.2016 | Kinetics of rigid bodies–equation of planes motion–fixed axis rotation– | | V | Black Board |  |
| 5 | 58 | 23.11.2016 | Rollingbodies (simple examples)- general plane motion (Simple examples). | | V | Black Board |  |
| 1 | 59 | 24.11.2016 | Excise problems | | V | Black Board |  |
| 1 | 60 | 25.11.2016 | Excise problems | | V | Black Board |  |
| 6 | 61 | 26.11.2016 | Excise problems | | V | Black Board |  |
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