

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

| LESSON PLAN(2015-2016) | | | | | | | |
|--|--------|---------------------|--|-------------|-------------------------|---------|--|
| FLUID MECHANICS AND HYDRAULIC MACHINERY (II-II MECH(B) SECTION) | | | | | | | |
| S.NO | Period | Date (tentative) | Topic | Unit No. | Teaching methodology | Remarks | Corrective action upon review |
| 1 | 3,4 | 21.12.2015 | Physical properties of fluids | I | | | |
| 2 | 3,4 | 28.12.2015 | Surface tension, vapor pressure & problems | I | | | |
| 3 | 3,4 | 04.01.2016 | Pascal's law, hydrostatic law, atmospheric, gauge, vacuum pressure | I | | | |
| 4 | 3,4 | 08.01.2016 | Pressure gauges, u-tube and problems | I | | | |
| 5 | 3,4 | 18.01.2016 | Differential manometers and problems | I | | | |
| 6 | 3,4 | 22.01.2016 | Micro manometers and problems | I | | | |
| 7 | 3,4 | 29.01.2016 | Description of fluid flow | I | | | |
| 8 | 3,4 | 01.02.2016 | Classification of fluid flow | | | | |
| 9 | 3,4 | 05.02.2016 | Continuity equation for one, two, three dimensions | II | | | |
| 10 | 3,4 | 08.02.2016 | Stream function, velocity potential, flow net | II | | | |
| 11 | 3,4 | 12.02.2016 | Euler's equation and applications | II | | | |
| 12 | 3,4 | 15.02.2016 | Momentum equation and application | II | | | |
| 13 | 3,4 | 19.02.2016 | Flow through tubes, flow through inclined tubes | II | | | |
| 14 | 3,4 | 22.02.2016 | Reynold's expression, Darcy-Weisbach equation | III | | | |
| 15 | 3,4 | 26.02.2016 | Minor losses, pipes in series and pipes in parallel | III | | | |
| 16 | 3,4 | 29.02.2016 | Total energy line, hydraulic gradient | III | | | |
| 17 | 3,4 | 07.03.2016 | Pitot tube, venturi meter | III | | | |
| 18 | 3,4 | 11.03.2016 | Orifice meter, turbine flow meter | III | | | |
| 19 | 3,4 | 14.03.2016 | Classification of turbines, impulse and reaction | IV | | | |
| 20 | 3,4 | 18.03.2016 | Pelton wheel | IV | | | |
| 21 | 3,4 | 21.03.2016 | Francis turbine and Kaplan turbine | IV | | | |
| 22 | 3,4 | 25.03.2016 | Work done, efficiencies draft tube theory | IV | | | |
| 23 | 3,4 | 28.03.2016 | Unit, specific quantities and characteristic curves | IV | | | |
| 24 | 3,4 | 01.04.2016 | Governing of turbine, cavities, surge tanks | IV | | | |
| 25 | 3,4 | 04.04.2016 | Working efficiencies of centrifugal pump | V | | | |
| 26 | 3,4 | 08.04.2016 | Specific speed, pumps in series and parallel | V | | | |
| 27 | 3,4 | 11.04.2016 | Performance characteristic curves, NPSH | V | | | |
| 28 | 3,4 | 15.04.2016 | Reciprocating pump, working discharge | V | | | |
| 29 | 3,4 | 18.04.2016 | Slip, indicator diagram | V | | | |
| 30 | 3,4 | 22.04.2016 | Problems on reciprocating pump | V | | | |
| Total classes = 60 | | | | | | | |