

## **M. Tech Programme in Water Resources Engineering**

### **SEMESTER-I**

- 1 WRE 101 Advanced Fluid Mechanics
- 2 WRE 102 Advanced Hydrology
- 3 WRE 103 Computational Methods in Water Resources
- 4 WRE 111/112 Elective -I
- 5 WRE 151 Seminar
- 6 WRE 121 Laboratory - I

### **SEMESTER-II**

- 1 WRE 201 Free Surface Flow
- 2 WRE 202 Planning and Management of Water Resources
- 3 WRE 203 Groundwater and Groundwater Modelling
- 4 WRE 113/114 Elective - II
- 5 WRE 152 Term Paper - Leading to Thesis 0
- 6 WRE 122 Laboratory - II

### **SEMESTER-III**

- 1 WRE 115/116 Elective -III
- 2 WRE 117/118 Elective -IV
- 3 WRE 150 Dissertation

### **SEMESTER-IV**

- 1 WRE 150 Dissertation

### **ELECTIVE - I** ELECTIVE - II Sr. No. Course No. Subject Course No. Subject 1

WRE 111 Advanced Waste Water Treatment

WRE 112 Optimization Techniques

WRE 118 Hydro-Power Engineering

**ELECTIVE – II**

WRE 113 Dam Engineering

WRE 114 Environmental Impact Assessment and Management

**ELECTIVE – III**

WRE 115 Sediment Transport and River Training

WRE 116 Watershed Management

**ELECTIVE - IV**

WRE 117 Research Methodology and Intellectual Property Rights

WRE 118 Hydro-Power Engineering