

ANNEXURE A

Curriculum Structure for MTech in Flood and Water Resources Management

This M Tech degree program will be conducted in hybrid mode. The program consists of 110 credits: 62 credits from coursework and 48 credits from Capstone Projects. The list of core courses (5xx) is provided in Table 1, while the details of the Capstone Projects are outlined in Table 2.

Table 1. List of Core courses for MTech in Flood and Water Resources Management

Course Code	Course Name
Semester I	
501	Introduction to numerical and optimization methods (3-0-0-6)
502	Advanced Hydraulic Engineering (3-0-2-8)
503	Applied Hydrology (3-0-0-6)
504	Sediment Dynamics and River Morphodynamics (3-0-0-6)
505	Water Resources Systems Analysis, Planning & Management (3-0-0-6)
Semester II	
506	Stochastic Hydrology (3-0-0-6)
507	River Engineering and Structures (3-0-0-6)
508	Soft Computing Applications in Integrated Water Resource Management (3-0-0-6)
509	Flood Risk Assessment and Management (3-0-0-6)
510	Integrated Water Management & Policy (3-0-0-6)

Table 2. Capstone Project Work for MTech in Flood and Water Resources Management

Course Code	Course Name
Semester III	
598	Capstone Project Phase-I (0-0-24-24)
Semester IV	
599	Capstone Project Phase-II (0-0-24-24)

Note: Capstone Project can be started after completion of 6 courses.