COURSE STRUCTURE

AND

SYLLABUS FOR

POSTGRADUATE (M. TECH) PROGRAMME

in

CIVIL ENGINEERING

Semester IV

(APPLICABLE FROM AY 2024-2025 ADMITTED BATCH ONWARDS)

CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR

(Deemed to be University, MoE, Govt. of India)

Civil Engineering Department

Post Graduate (M.Tech) Programme in

Water Resources Engineering and Hydraulic Engineering

Course structure (Revised)

Semester IV

Sl. No.	Course Code	Subject	Teaching Scheme (Hrs/week)			Credits
			L	T	P	C
1	MCE471	Project-II	0	0	20	20
Total			0	0	20	**20**

Name of the Programme:	M. Tech in Water Resources and Hydraulic Engineering
Semester:	4
Course Code:	MCE471
Course Title:	Project - II
Course Credit:	20 (L: 0 T: 0 P: 20)

Course objective:	The objective of the course is to facilitate the development of knowledge-based skills in carrying out research in water-related science, engineering and technology by undertaking detailed literature review, finding research gaps, framing research questions, collecting and compiling data and information, carrying out site or laboratory investigations and/or undertaking detailed analyses, producing results, drawing inferences, writing research reports, and disseminating the research outcomes through conference and seminar presentations, project defense, etc.
Pre-requisites:	Study of courses related to water, such as hydrology, hydraulics, irrigation engineering, water resource engineering and management, groundwater hydrology, environmental engineering, hydraulic structures, river engineering, etc. during the BE/BTech and the first year of the M.Tech program.
Course outcomes: *	After completion of this course students will be able to 1. engage in self-learning various topics related to water resource development, engineering and management, 2. survey literature such as books, national/international refereed journals, conference proceedings, theses and technical reports, and contact resource persons for collection of or clarification on the literature, 3. write technical reports. 4. develop oral and written communication skills to present and defend their works in front of technically qualified audience and the society.

Unit/ Module no.	Topic	Nos. of contact hours	Distribution of marks (out of 100)
1	The project work will start in the beginning of semester IV, and should be a problem having research, industry-application, conference-presentation and journal-publication potential. The project work should involve scientific research, design, generation/collection and analysis of data, determining solution, and must preferably bring out individual contribution. The broad areas for topic selection shall include: • Water resources assessment, development, engineering and management	40	100

	• Hydraulics and hydraulic engineering • Interdisciplinary/multidisciplinary area having a component related to water • Data science applications in water resources data management and modelling, Hydro informatics, Use of AI and ML in WR&HE The student has to be in regular contact with his guide/supervisor, and the topic of dissertation must be mutually decided by the guide/supervisor and student. The examination shall consist of the preparation of report consisting of a detailed problem statement, a literature review, and research gap(s). The preliminary results, if available, of the problem (before undertaking details works for Dissertation - II) may also be discussed in the report. The work has to be presented in front of the examiners' panel set up by the Head and the PG coordinator of the department. For assessment, Dissertation-I will have a mid-semester presentation and an end-semester presentation. The mid-semester presentation will include identification of the problem based on literature review and gap-finding on the topic referring to latest literature. End-semester presentation will be done along with the report on identification of topic for the work and the methodology adopted involving scientific research, collection and analysis of data, determining solutions, presenting results, if available, and must bring out individual contribution. Continuous assessment of Dissertation – I and Dissertation – II at Mid-Sem and End-Sem will be monitored by the departmental committee. The project work shall be such as to preferably have a high potential of either publication of a technical article related to the project/dissertation in a SCOPUS- or SCI-indexed journal, or presentation in conferences and colloquia organized by renowned and reputed organizations, associations, etc.		

Textbooks:

To be related to the research topic selected for the project.

Reference Books:

Scientific Journals and reference books with respect to selected research topics.

COURSE STRUCTURE

AND

SYLLABUS FOR

POSTGRADUATE (M. TECH) PROGRAMME

in

COMPUTER SCIENCE AND ENGINEERING

Semester IV

(APPLICABLE FROM AY 2024-2025 ADMITTED BATCH ONWARDS)

CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR

(Deemed to be University, MHRD, Govt. of India)

BODOLAND TERRITORIAL AREA DISTRICTS :: KOKRAJHAR :: ASSAM :: 783370

Website: www.cit.ac.in

Department of Computer Science and Engineering

M.Tech. Programme

2nd YEAR: 4th SEMESTER (JAN-JUN)

Sl No.	Course Type	Course Code	Subjects	Scheme of Studies per Week			Credits
				L	T	P	
1.	Dissertation/Industrial Project Phase-II	MCS491	M.Tech Project Phase - II	0	0	40	20
Total				40			20

Total Credits of 4th Semester: 20

COURSE STRUCTURE

AND

SYLLABUS FOR

POSTGRADUATE (M. TECH) PROGRAMME

in

FOOD ENGINEERING AND TECHNOLOGY

Semester IV

(APPLICABLE FROM AY 2024-2025 ADMITTED BATCH ONWARDS)

2ND YEAR: 4th SEMESTER

A. Theory Courses						
SN	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**
Total of A			**0**	**0**	**0**	**0**

B. Laboratory/Project/Seminar Courses						
SN	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**
1	MFE491	Dissertation-II	0	0	40	20
Total of B			**0**	**0**	**40**	**20**

C. Audit/Non-credit Courses						
SN	**Course Code**	**Course Name**	**L**	**T**	**P**	**C**
Total of C			**0**	**0**	**0**	**0**
Grand Total (A+B+C)			**0**	**0**	**40**	**20**

COURSE STRUCTURE

AND

SYLLABUS FOR

POSTGRADUATE (M. TECH) PROGRAMME

in

GREEN ENERGY TECHNOLOGY

under Department of

INSTRUMENTATION ENGINEERING

Semester IV

(APPLICABLE FROM AY 2024-2025 ADMITTED BATCH ONWARDS)

SEMESTER-IV

CODE	SUBJECTS	Teaching Scheme			Credits
		L	T	P	C
MGE491	Dissertation Phase-II	0	0	40	20
Total		**0**	**0**	**40**	**20**

COURSE STRUCTURE

AND

SYLLABUS FOR

POSTGRADUATE (M. DES) PROGRAMME

in

DESIGN

under Department of

MULTIMEDIA COMMUNICATION AND DESIGN

Semester IV

(APPLICABLE FROM AY 2024-2025 ADMITTED BATCH ONWARDS)

(M. Des. Course Structure in Multimedia Communication and Design)
UPDATED VERSION AS PER NEP

SEMESTER - 4						
Sl. No.	**Course Code**	**Course Title**	**L**	**T**	**P/S**	**C**
01	MMD471	1. Colloquium Paper/Seminar	0	0	12	6
02	MMD491	**Project – 2 (Major Thesis Project)** (Based on specialization)	0	0	28	14
	Contact Hrs = 40	**Total**	0	0	40	20

COURSE CONTENTS

SEMESTER – 4

Course Title: Colloquium Seminar/Paper presentation **L-0, T-0, P/S-12, C-6**

Course Code: MMD471

This course consists of a seminar or paper presentation on a research based subject to be assigned to the students based on their specialization or interest area which could be related to Multimedia Communication and Design.

Course Title: Project – 2 (Major Project) **L-0, T-0, P/S-28, C-14**

Course Code: MMD491

The major project will be based on a student's specialization on a subject or area that he/she has studied during the previous semesters. All students have to submit a thesis report along with a formal presentation on the project.

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