

CENTRAL UNIVERSITY OF JHARKHAND
DEPARTMENT OF CIVIL ENGINEERING
AGENDA FOR FIRST BoS MEETING

26.09.2023

BoS/01/DCE/01

Formulation of 5 years B. Tech. and M. Tech. Dual Degree Program with the Provisions of multiple entry and exit points in the light of NEP-2020 and AICTE/UGC guidelines.

As per the decisions taken in the meeting of Heads of Departments and Deans of Schools with the Honourable Vice-Chancellor of CUJ, it was decided to implement the NEP-2020 at CUJ from the Academic Session 2022-2023. Based on the Academic Audit 2022 and Expert Committee recommendation, the Department of Water Engineering and Management and the Department of Transport Science and Technology were merged; and the Department of Civil Engineering was formed offering 5 Years Integrated Dual Degree Program (B. Tech. in Civil Engineering and M. Tech. in Water Resources Engineering/Transportation Engineering. However, the 2 years M.Tech for specialization 'Water Engineering and Management' and 'Transport Science and Technology' were also changed to 'Water Resources Engineering' and 'Transportation Engineering'. As both the departments were merged, the course structures of Ph.D. programs also needed restructuring. To cater this and the recommendations of NEP-2020, the revision of the existing course structure was required. Accordingly, a meeting of the faculty members of the Department of Civil Engineering was held on 10.04.2023

The working groups of the faculty members of the department were constituted to review the existing course structures keeping in view the recent notifications/regulations of UGC/AICTE relevant to the programs offered by the department. The working groups for different course programs are as under:

S. No.	Course Program	Working Group
1.	2 years M.Tech (Water Resources Engineering)	Dr. Pratibha Warwade Dr. Shikha Chourasiya
2.	2 years M.Tech (Transportation Engineering)	Dr. Birendra Bharti Mr. Amit Kumar Yadav
3.	5 years Integrated UG-PG Program	Dr. P. K. Parhi Dr. Pratibha Warwade Dr. Shikha Chourasiya Dr. Suchit Kumar Patel
4.	Ph.D. Program in Civil Engineering (with specialisation in WRE/TE)	Dr. Birendra Bharti Dr. Suchit Kumar Patel Mr. Amit Kumar Yadav

Bridge courses for students opting 'Exit Option' at different level

After First Year

The candidate needs to pass any two suitable skill based courses of ITI level to qualify for Undergraduate Certificate (Engineering)

- Total Station – Application, Components Parts, Accessories Used, Characteristics and Data reading,
- Theodolite, identification & understanding of parts intro.
- BIS Code of Practice for Architectural & building drawings,
- Building Materials,
- Treatments for buildings,
- Floors & Floorings,
- Bricks and Stone Masonry works, and Plumbing works
- Structural Drawings

After Second Year

The candidate should pass any two suitable skill-based courses of Diploma Level to qualify for Undergraduate Diploma (Engineering).

- Concrete Technology
- Construction Management, Accounts, and Entrepreneurship Development
- Public Health Engineering

After Third Year

The candidate should pass any two suitable skill-based courses of Degree Level to qualify for B. Voc (Engineering)

- Pavement Evaluation Techniques
- Geometric Design of Transportation Facility
- Design of Hydraulic Structures
- Water resources Planning and Management

Each student is required to undergo summer internship after 4th and 6th semester. The department shall only facilitate.

In the beginning of 7th semester, students can opt for Masters in Water Resources Engineering or Transportation Engineering. Criteria for master discipline shall be CGPA up to 6th semester.

Total credit for acquiring B. Tech. degree	160-163*	161-165
Minor Specialization Course	18-20	20
Total credit for acquiring B. Tech. (Hons.) degree	178-183	181-185
Total credit for acquiring Integrated M. Tech. degree	200-210	201-205
Total credit for acquiring Integrated M. Tech. degree with B. Tech. (Hons.)	218-223	221-225

The revised course structure and syllabus for 5 Years Integrated Dual Degree Program (B. Tech. in Civil Engineering and M. Tech. in Water Resources Engineering/Transportation Engineering with exit option) is placed before BoS for consideration and approval.

BoS/01/DCE/02

Consideration and approval of Course Structure and Syllabus of 2 years M.Tech (Water Resources Engineering).

BoS/01/DCE/03

Consideration and approval of Course Structure and Syllabus of 2 years M.Tech (Transportation Engineering).

BoS/01/DCE/04

Consideration and approval of Course Structure and Syllabus of Ph.D. Program in Civil Engineering (with specialisation in WRE/TE)

BoS/01/DCE/04

Any other matter with the permission of chair