

Course Structure of M. Tech. Program in Water, Climate and Sustainability

Minimum Educational Qualification:

Four-year Bachelor's degree or five-year integrated degree (with first division as defined by the awarding Institute/ University for Indian applicants and equivalent to International applicants, as assessed by the Institute) in Civil/Agricultural/ Infrastructure/Environmental/Geomatics Engineering. *Relaxation as per Gol norms in qualifying degree is applicable for SC and ST category applicants.*

Qualifying Examination:

- a) Indian students:** Valid GATE qualification in Civil Engineering (CE)/ Agricultural Engineering (AG)/ Environmental Science and Engineering (ES)/ Geomatics Engineering (GE)
b) International students: Valid score of TOEFL or IELTS or valid score of GRE.

Categories of Admission:

- a) Indian Students:** Teaching Assistantship (TA); (ii) Highly motivated sponsored candidate (SW) on full-time basis from highly reputed R and D organizations, and highly reputed Industries; (iii) Defence Forces (DF): Candidates sponsored by the Defence Forces; (iv) Regular institute staff (IS) of IIT Indore on part-time basis only.
b) International Students: (i) International self-financed (ISF) students; (ii) International students sponsored by non-government organizations or by a reputed industry (ISW); (iii) International students sponsored by foreign government or its organizations or through mutual collaborative programs of India with other countries (GSW)

Candidates of SW, DF and IS categories will not be provided any scholarship.

- **Duration of Program:** 2 years on full-time basis.
- **Selection criteria:** GATE Score and/or Interview (Valid GATE score compulsory for TA category)
- **Total Intake:** 10 (direct admission under TA category) + Sponsored candidate

Course Structure of 2-Year Full Time M. Tech. Program in M.Tech. in Water, Climate and Sustainability

1st Year: Semester-I

Course Code	Course Title	Contact hours (L-T-P)	Credits
CE 635*	Water and Climate, Sustainability and Policies	2-1-0	3
AA 4XX/ AA 6XX	Introduction to Climate and Climate Change	2-0-0	2
CE XXX	Water Quality and Treatment	2-0-2	3
HS 618*	Sustainability Studies	3-0-0	3
CE XXX	Program Elective -I	X-X-X	3
WC XXX	Institute Electives -I	X-X-X	3
CE XXX	Technical Site Visit (s)- Immersion Program	0-0-2	PP/NP
Total minimum credits earned during the semester			17
Additional course (as per the requirement basis)			
HS 641	English Communication Skills	2-0-2	PP/NP

1st Year: Semester-II

Course Code	Course Title	Contact hours (L-T-P)	Credits
CE 402	Water Resources Engineering	2-1-0	3
AA 410/610	Spatial Informatics (Including Geographic Information Systems)	2-1-0	3
CE XXX	Climate Applications Lab	2-0-2	3
CE XXX	PG Seminar Course	0-2-0	2
CE XXX	Technical Field Visit -Design Thinking	0-0-2	1
HSS XXX/ CE XXX	Program Elective II	X-X-X	2
WC XXX	Institute Elective II	X-X-X	3
Total minimum credits earned during the semester			17

2nd Year: Semester-III

Course Code	Course Name	Contact hours (L-T-P)	Credits
WC 799	M. Tech. Research Project (Stage-I)	0-0-36	18
Total minimum credits earned during the semester			18

2nd Year: Semester-IV

Course Code	Course Name	Contact hours (L-T-P)	Credits
WC 800	M. Tech. Research Project (Stage-II)	0-0-36	18
Total minimum credits earned during the semester			18
Total minimum credits earned during the program			70