

About Department of Civil Engineering

Department of Civil Engineering is focused on both basic and applied research to provide solutions that help drive the future evolution of Civil Engineering (CE). Industry interaction and academic exchanges are integral characteristics of our department.

The Department offers a Bachelor of Technology (B. Tech) program in Civil Engineering, and two-year and three-year Master of Technology with thesis (M. Tech. with thesis) and Self-sponsored M. Tech. programs in Environmental Engineering, Geotechnical Engineering, Hydraulic and Water Resources Engineering, Structural Engineering, and Transportation Engineering. The department also offers a Doctor of Philosophy (Ph.D.) program in five specializations.

CE faculty are committed to delivering knowledge and expertise in a wide spectrum of Civil Engineering and are actively involved with research that caters to societal needs in general.



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Environmental Engineering

Structural Engineering

Transportation Engineering

Hydraulic and Water Resources Engineering

Geotechnical Engineering

GENERAL INFORMATION

- Applicants should have Bachelor's degree B.E or B. Tech with a First Class.
- Applicant should have at least 2 years' experience.
- Admissions will be based on written test / personal interview. The date of the written test and interview will be communicated to the shortlisted applicants. GATE score is optional.
- Only the first preference of chosen specializations filled in the application form will be considered. Separate applications have to be submitted if the applicant is interested in applying for more than one specialization.
- Applicant is not eligible for stipend.
- The General format of the 2-year M. Tech program spread over 4 semesters is as given below:

Type	Credit range
Theory (Semester I and II)	24-28
Project (Semester III and IV)	24
English Communication	1
Industry Lecture Series	Pass/Fail
Total Credits	48-53

- Fee structure is non-subsidized. Please check <http://iith.ac.in/technical/cfe-structure/> for details about the fee structure.
- Hostel accommodation will be provided based on availability and the fees for hostel accommodation is separate.

HOW TO APPLY

- Interested applicants should fill in the application form online at <http://www.iith.ac.in/mtechadmissions> on or before the deadline.
- Please check the institute webpage: www.iith.ac.in for the deadline.

RESULTS

Civil Engineering Mtech Lab Manuals

William A. Kitch



Civil Engineering Mtech Lab Manuals:

Lab Manuals ,2022-12-28 This laboratory manual is designed to acquaint the student with essential civil engineering experimentation works and various tests to be carried out on and offsite which is required by every civil engineer when he or she enters in a professional set up This lab manual covers various subjects like Mechanics of Solids in which compressive flexure and tensile strength testing is done Engineering Geology where geological properties important from civil engineering point of view are studied Building Material and Concrete Technology lab where testing of material is done Fluid Mechanics lab which is designed to examine the types and various parameters of fluid flow Applied Hydraulics lab where students study on the models of hydraulic machinery Surveying lab where students get to know about field surveying like chain and compass survey Theodolite Survey and Total Station Survey Transportation lab where bitumen and testing of aggregates used for road work construction is done Geotechnical lab where properties and the strength parameters of the soil are studied Environmental lab where the quality of water and waste water is checked various tests on solid waste samples are done and noise levels at various places are checked Each experiment starts with objectives to be achieved the experimental set up and the materials that are needed to perform the experiment and a stepwise procedure for conducting the experiment and a set of MCQ s at the end The students will note down their observations measurements and or calculations on the Results Sheets provided at the end of the experiment *Laboratory Manual for Civil Engineering* H. S. Moondra,2019-06-30 This is a laboratory manual which contains a well selected number of experiments for that provide appropriate insights as well as a broad overview of the entire field of civil engineering **Remote sensing lab manual** Dr. Ch. Bhavannarayana,Dr. Saritha Vara ,2024-11-28 This lab manual provides a comprehensive guide for undergraduate and graduate students to enhance their practical understanding of toposheets baseline mapping and land use land cover LULC analysis With nine detailed exercises it adopts a learn by doing methodology ensuring students gain hands on experience in interpreting and analyzing spatial data The inclusion of previous question papers and MCQs with answers further supports problem solving skills and exam preparation This manual serves as an essential resource for students aiming to develop scientific thinking and analytical capabilities in spatial and environmental studies **Laboratory Manual for Groundwater, Wells, and Pumps** Rohitashw Kumar,Vijay P. Singh,Munjid Maryam,2023-05-23 The over exploitation of groundwater and marked changes in climate over recent decades has led to unacceptable declines in groundwater resources Under the likely scarcity of available water resources in the near future it is critical to quantify and manage the available water resources With increasing demand for potable water for human consumption agriculture and industrial uses the need to evaluate the groundwater development management and productivity of aquifers also increases Laboratory Manual for Groundwater Wells and Pumps serves as a valuable resource and provides a multi disciplinary overview for academics administrators scientists policymakers and professionals involved in managing sustainable groundwater development

programs It includes practical guidance on the measurement of groundwater flow soil properties aquifer properties wells and their design as well as the latest state of the art information on pumps and their testing and groundwater modeling Features Covers basics of groundwater engineering advanced methodologies and their applications and groundwater modeling Examines groundwater exploration planning and designing and methods for formulating strategies for sustainable management and development Serves as a reference for practitioners on practical applications and frequently occurring issues of groundwater investigations development and management

Measurement of Engineering Properties of Soils

E. S. Reddy, 2002 This Book Highlights The Procedures For 30 Tests Used To Measure The Engineering Properties Of Soil In Both Laboratory And Field Including Dynamic Testing Of Soils All The Test Procedures Are Based On Indian Standard Practice And Are Very Close To Astm Standards Features Of This Book Include Test Procedures And Tabular Forms For A Maximum Number Of Field And Laboratory Tests Classification Of The Soil Tests Based On Type Of Project And Type Of Soil A Set Of Questions Is Presented At The End Of Each Chapter For Self Examination For Each Test Theoretical Principles And The Precautions To Be Followed During The Test Are Explained This Book Will Be Useful To B Tech B E Civil Engineering And M E M Tech Geotechnical Engineering Students As Laboratory Manual And Reference Book It Is Hoped That This Book Will Also Be Useful To Field Engineers As Handbook In Soil Mechanics As It Helps In Deciding The Test Programme For A Given Project Similarly The Book Will Be Helpful For Quality Control Engineers

Engineering Practices Lab Manual -

5Th E T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field *Engineering Practices Laboratory Manual* Suyambazhahan, 2009-12 This book introduces various engineering practices in civil engineering mechanical engineering and electrical and electronics engineering to first year BE B Tech students It explains various engineering tools and equipment and their use in different fields of engineering This book helps students gain fundamental and practical knowledge in the following areas of engineering practices Plumbing and carpentry Arc and gas welding sheet metalwork and basic machining Smithy foundry machine assembly and fitting operations and Electrical and electronic components and equipment It includes a large number of figures and examples for easy understanding of operations of tools and equipment It provides sufficient exercises to help students gain hands on experience of engineering practices It offers viva questions with answers for practical examinations

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