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Hydrology 48366 Steel  
and Timber Design

## **UTS: Numerical list of subjects - UTS Handbook**

COURSES Course  
Management System  
@ IIT Mandi (Moodle) 1.  
UG/PG Courses. Course  
List for Odd Semester  
(Aug.-Dec. 2020) -  
posted on 4th  
September, 2020

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## **COURSES - IIT Mandi**

### RESEARCH AREAS.

Aerodynamics:

Subsonic, Transonic,  
Supersonic,  
Hypersonic, Rarefied  
Gas flows (Theoretical  
and Experimental),  
Boundary Layers and  
Stability of Flows,  
Turbulent Flows, Shock  
Tubes and Related  
Problems,  
Development of  
Algorithms and Code  
for Numerical Methods

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in Gas Dynamics and  
Computational Fluid  
Dynamics, Vortex  
Dynamics, Supersonic  
Mixing and  
Combustion, Optical  
Flow Diagnostics.

## **Departments | Research Programme @ IIT Madras**

5 Reservoir Description  
& Dynamics, 5.3.4  
Integration of  
geomechanics in  
models, 1.5.4 Bit



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hydraulics, 1.10 Drilling  
Equipment, 1.5 drill  
Bits, 1.5 drill Bits, 5.3  
Reservoir Fluid  
Dynamics Keywords  
hydraulics, nozzle,  
PDC, curve nozzle, Bit  
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**Curved Nozzle  
Design for PDC Bits  
Enhances Hydraulics  
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The thermal-hydraulics codes developed by the NRC include the following: TRACE: The TRAC/RELAP Advanced Computational Engine. A modernized thermal-hydraulics code designed to consolidate and extend the capabilities of NRC's 3 legacy safety codes - TRAC-P, TRAC-B and RELAP.

## **NRC: Computer Codes**

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MAE 290C.

Computational Fluid  
Dynamics (4)

Numerical methods in  
fluid dynamics and  
convective transport  
processes. Numerical  
solution of the Euler  
and Navier-Stokes  
equation. Additional  
topics will vary  
according to instructor.  
Examples include  
eigenvalue problems in  
hydrodynamic stability,  
vortex methods,  
spectral and panel

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methods.

**MAE Courses -  
University of  
California, San Diego**

COMPUTATIONAL  
HYDRAULICS. Kaar, E.T.  
(1991) D.Phil.

"Curvilinear Systems  
Modelling of Pollutant  
Transport in Shallow  
Waters" abstract;

Akponasa, G.A. (1992)  
D.Phil. "Solution of the  
Contravariant Shallow  
Water Equations Using  
Boundary-Fitted

Access Free  
Computational  
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Coordinate Systems"  
abstract

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**Theses in Civil  
Engineering – Civil  
Engineering  
Research**

HEC-RAS is a computer program that models the hydraulics of water flow through natural rivers and other channels. Prior to the 2016 update to Version 5.0, the program was one-dimensional, meaning that there is

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no direct modeling of the hydraulic effect of cross section shape changes, bends, and other two- and three-dimensional aspects of flow.

## **HEC-RAS - Wikipedia**

Numerical Methods  
Applied to Chemical  
Engineering (Fall 2005)  
... Thermal Hydraulics  
in Power Technology  
(Spring 2007) Graduate  
10.537 Molecular,  
Cellular and Tissue

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Biomechanics (BE.410J)  
(Spring 2003) ...

Computational  
Quantum Mechanics of  
Molecular and  
Extended Systems (Fall  
2004) ...

## **Chemical Engineering | MIT OpenCourseWare | Free Online ...**

Fluid mechanics,  
especially fluid  
dynamics, is an active  
field of research,  
typically

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mathematically complex. Many problems are partly or wholly unsolved and are best addressed by numerical methods, typically using computers. A modern discipline, called computational fluid dynamics (CFD), is devoted to this approach.

## **Fluid mechanics - Wikipedia**

Complex Analysis,  
*Page 16/26*



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Complex Dynamics and Fractals, Functional Analysis, Vibrational inequalities, Complementarity problems, Algebra, Graph Theory, Data mining, and Portfolio Analysis, Soft Computing, Optimization Theory, Numerical Analysis, Fluid Dynamics, Bio-fluid dynamics, Computational Fluid dynamics, Numerical Methods for PDEs,

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Probability ...

**Admission into Ph.D.  
Programme | IIT  
Bhubaneswar**

Computational Fluid-  
Dynamics Analysis and  
Multizone Modeling ...  
numerical methods, ...  
With the use of a mock-  
up of the drainage  
system in experimental  
studies at the  
Hydraulics Laboratory  
of the ...

**Evidence of Airborne**  
*Page 18/26*

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**Transmission of the  
Severe Acute ...**

Numerical Methods for  
Partial Differential  
Equations (SMA 5212)  
(Spring 2003) ...

Computational  
Geometry (Spring  
2003) Graduate 2.159J  
... Thermal Hydraulics  
in Power Technology  
(Spring 2007) Graduate  
2.61 ...

**Mechanical  
Engineering | MIT  
OpenCourseWare |**

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HEC-RAS is an integrated system of software, designed for interactive use in a multi-tasking, multi-user network environment. The system is comprised of a graphical user interface (GUI), separate hydraulic analysis components, data

## **HEC-RAS River Analysis System**

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Water, an international, peer-reviewed Open Access journal. Special Issues. Water runs special issues to create collections of papers on specific topics. The aim is to build a community of authors and readers to discuss the latest research and develop new ideas and research directions.

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Areas of Interest:

Hydraulic and Water Resources Engineering, Fluid Mechanics, Sediment Transport, Hydraulic Structures, Multiphase Flows, Slurry Pipeline and Flume, Computational Fluid Dynamics, Flow Instrumentation.

## **Civil Engg, IIT Delhi**

2 Postdoctoral research positions in computational social science . 100%, Zurich,

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& Public Policy Group .  
05.10.2020 . PhD

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the proton's magnetic  
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## **Stellenangebote der ETH Zürich**

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will explore the  
application of protein

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delivery,

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electrochemical  
technology, sensors,

and nanoparticle  
assembly. Current

computational  
techniques for protein  
design and directed  
evolution methods will  
also be explored.

Offered as ECHE 386  
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**Department of  
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Duration in weeks  
Course level : UG /PG  
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dynamics) □□□□□□□□□□  
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