



Jatin Chugh
M.Tech Civil Engineering
Indian Institute of Technology, Bombay
Specialization: Ocean Engineering

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Male
DOB: 05-Nov-1989

Teaching Experience

- **M.Tech. (Ocean Engineering)** professional working as Assistant Professor at University of Petroleum & Energy Studies, Dehradun, India. [July 2015- Present]
- Managing the laboratory classes for 'Engineering Graphics' & 'Concrete Technology'
- Acting as Activity Coordinator for B.Tech 4th Year Civil Engg
- Teaching subjects such as Structure Analysis, Surveying, Analysis of Offshore Structures, Design and Construction of Offshore Structures to B.Tech. (Civil) & M.Tech. students

Academic Details

- M.Tech. (Ocean Engineering) from Indian Institute of Technology, Bombay in 2015 with 7.5/10 Course CPI & 6/10 Project CPI
- B.Tech. (Civil Engineering) from PEC University of Technology, Chandigarh in 2012 with 67.9%
- 12th from Government Model Senior Secondary School (CBSE), Chandigarh in 2008 with 83.2%
- 10th from ManavMangal High School (CBSE), Chandigarh in 2006 with 95.4%

Academic Projects

M.Tech Thesis: Impact of tidal kinetic energy extraction on the hydrodynamics of Gulf of Khambhat & Gulf of Kachchh, India

Supervisor: Prof. M.R. Behera

[May2014-June 2015]

- Modelled tidal current variations at Gulf of Kutch and Gulf of Khambhat along the western Indian coastline using finite element hydrodynamic solver Telemac2D.
- Estimated the theoretical tidal kinetic energy resource at specific sites with large potential.
- Modelled energy extraction due to turbines in the validated two dimensional numerical model and estimated its impact on the gulf hydrodynamics.

B.Tech Project: Effect of material proportions on pervious concrete

Supervisor: Prof. S.K Verma

[Jan 2012-May 2012]

- Studied the effect of size of aggregates and proportions of cement, aggregates, admixture and water on pervious concrete by making different test cubes in the lab.
- The concrete properties studied include density, porosity and compressive strength.

Academic Achievements/Extracurricular activities

- Secured **All India Rank 129** in Graduate Aptitude Test in Engineering, 2012 among over 35,000 contested Civil Engineering students with 99.65% percentile.
- Participated in a Two-week ISTE STTP on 'Introduction to Structural Engineering' conducted by Indian Institute of Technology Kharagpur from 30-Nov-2015 to 9-Jan-2016.
- Part of organization committee and contributed as member of Technical committee in National Conference on Water Resources & Hydropower 2016 at UPES, Dehradun on 17-18 June, 2016
- Participated in various National Cadet Corps(NCC) activities at college level and attended ten day camp at NCC Chandigarh Battalion.
- Lifetime member of Indian Society for Hydraulics.
- Participated in numerous National and State level talent tests such as, NTSE, Science Olympiad etc at School Level.
- Raised funds for charity group Help-Age India.

Internships/Industrial Visits

Central Water & Power Research Station(CWPRS),Pune

[Sept 2013]

- At CWPRS, visited the Coastal & Offshore Engineering laboratory which undertakes studies for ports and harbours development, coastal protection against erosion, design of coastal structures, coastal processes, tidal inlets, intake and outfall systems of thermal/nuclear power plants using physical as well as mathematical modelling techniques.

ONGC Institute of Engineering & Ocean Technology, Panvel, Navi Mumbai

[Oct 2013]

- At ONGC Institute of Engineering & Ocean Technology, visited the Geotechnical engg laboratory, structural engg laboratory & materials laboratory. At the geotechnical engg laboratory got an insight into the various equipments used for testing of soil samples obtained from the sea-bed. In the structural engglaboratory got an overview of the state-of the art software programs used for analysing & designing offshore structures.

Larsen and Toubro Ltd.,ECC Division, Chandigarh

[Jan 2011-June 2011]

- Received practical training for six months at L&T Mixed use development(shopping complex/ mall) project construction site in Chandigarh.Learnt about construction supervision & management. Looked after construction of slabs, columns, beams, preparing bar-bending schedules and lab concrete-mix testing operations.

ARSS Infrastructure Projects Ltd, Pinjore, Haryana

[June 2010- July 2010]

- Undergone Six weeks Industrial training at KoshalliaEarthern Dam Site, ArssInfrastructure Projects Ltd., near Pinjore. Learnt about day to day activities at the site like soil testing operations, surveying using total station etc.

Positions of Responsibility

Teaching Assistant

[July 2013-April 2014]

- Managed laboratory classes & guided students on laboratory experiments in Fluid Mechanics and Hydraulics Laboratory as Teaching Assistant at Indian Institute of Technology, Bombay, Mumbai.

Relevant Courses, Software Skills

Relevant Courses:

- Wave Hydrodynamics, Mechanics of Fluid flow, Coastal and Ocean Environment, Offshore Construction, Numerical technique, Structural Dynamics, Coastal Port and Harbour Engineering

Software Skills:

- Numerical Model: Telemac 2D
- Programming Language: Fortran
- Others: ArcGIS, AutoCAD, MS Office

Declaration

"I hereby declare that the above-mentioned information is true to the best of my knowledge."



Jatin Chugh