

ANKUSH SHARMA**B.Tech Civil Engineering****UG (IV Year I Semester)****Registration No : BT/CE/060112/10****E-mail ID : ankush.sharma.iitr@gmail.com****Indian Institute of Technology Roorkee****Area(s) Of Interest :** Structure analysis and modelling, geotechnical analysis

Educational Qualifications	Year	Board/Institution	CGPA*/%
UG (III Year II Semester)	2009	IIT Roorkee	8.494
Twelfth Class	2006	S.M.D.R.S.D college ,Pathankot(PSEB)	74.667
Tenth Class	2004	Little Flower Convent School,Gurdaspur(ICSE)	96.200

*GPA on a scale of 10

INTERNSHIP**Friedrich-Alexander-Universitat Erlangen-Nurnberg, Germany****Charged Particle Laden Flows (15 May-31 July, 2009)**

Extended the existing framework, WaLBerla to incorporate charge particle simulations. Applied computational fluid dynamics(CFD) to simulate charged particles by Lattice Boltzmann Method(LBM). Implemented an iterative SOR solver for solving the Poisson equation and carried out parallelization techniques with MPI to make simulations for millions of particles possible.

IIT Roorkee**Surveying Camp (18 Dec - 31Dec, 2008)**

Prepared a topographical map of IIT Roorkee using various surveying equipments.

PROJECTS**IIT Roorkee****GIS-based Geo-Hazard model for land stability (15 May-15 July, 2008)**

Developed a GIS based Geo-Hazard model for land stability under the guidance of Prof. S.K.Ghosh and was awarded SURA (Student Undergraduate Research Award). This modelling is based on image processing and image analysis of the landslide prone areas near Mansa Devi, Haridwar. Risk analysis is performed covering various aspects like land-cover, type of soil, slope and aspect analysis and a hierarchy is devised for these causative factors. This model can be applied for landslide zonation in areas which bear resemblance in topographical and geotechnical aspects.

IIT Roorkee**Development of a GIS-based Road Information System (2009-2010)**

This project aims at developing a road information system with the objective of creating a state wise up-to-date digital database of roads that would induce efficiency, accuracy in monitoring, subsequent management and planning for the development of road network. The project deals with the development of a user-based query system after creating a spatial database and integrating it with non-spatial attributes.

SKILLS AND ACHIEVEMENTS**Computer Languages:**

C++

Software Packages:

STAAD-PRO, Auto-Cad, E-TABS, ARC-MAP, ARC-VIEW, ERDAS, ParaView, POV-Ray, Latex

Academic Achievements:

Represented IIT Roorkee in a team of two in INDO-GERMAN winter academy 08, currently holding Departmental Rank five in Civil Engineering, IIT Roorkee, won 1st Prize in Edifice(lattice tower making competition) in Cognizance'08, won 2nd Prize in Ideaz in Cognizance'08 for

Additional Courses Taken: presenting a report on hazard zonation.
Structure analysis 1&2, soil engineering, design of concrete structures
Languages Known: English (S/R/W); Hindi (S/R/W); Punjabi (S/R/W); French (S/R/W);

EXTRA CURRICULARS

Inter IIT Sports meet; Athletics (2008,2009)

Member of institute's athletic contingent and represented in 100m, 200m, 400m, 800m, 4-100 and 4-400 Relay events held during the meet.

Joint Secretary, Choreography and Dance section (2006-09)

Organised and played an active part in activities co-ordinated by the section in the campus. Convened and managed various workshops(Salsa, Bhangra, Footloose etc) held during Thomso.

Joint Organising Secretary, Srijan, Departmental Cognizance 08' (2007-2008)

Co-ordinated various events, managed sponsorships and attracted participation for various events in Srijan.

PR Co-ordinator, SPIC MACAY (Society for Promotion of Indian Classical Music And Culture Among Youth) (2008-2009)

Responsible for maintaining inter chapter relations and ensuring proper communication with IIT Delhi, COER, Meerut and Dehradun chapters for smooth functioning.

Joint Secretary, Civil Engineering Consortium (2007-2008)

Organised and managed various activities like civil formals, guest lectures etc in civil department to ensure proper interaction between faculty and students.

Himalayan Explorers Club. (2007,2008)

Attended two treks to Valley of Flowers and Gangotri , organised by the institute.

National Service Scheme (2006,2007)

Engaged evening classes for the poor in 'Prerna cell' and participated actively in serving society and was awarded A+ grade.

PERSONAL DETAILS

Fathers name : OM PRAKASH SHARMA **Date of Birth :** 14-02-1988
Gender : Male **Category :** General
Permanent Address : 14/10,SEETA SADAN, IMPROVEMENT TRUST COLONY
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Present Address : G-5,GOVIND BHAWAN IIT ROORKEE
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REFERENCES

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