

Kaushal Kumar Civil Engineering Indian Institute of Technology, Bombay 08004048 B.Tech. Male

DOB: 20/04/1990

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	6.99
Intermediate/+2	CBSE	DAV Barkakana, Ranchi	2007	77.40
Matriculation	CBSE	SSVM, Sarubera, Ranchi	2005	85.20

INDUSTRIAL EXPERIENCE

Optimal Consultancy Services Pvt. Ltd., Mumbai

[May'11-July'11]

Structural design and analysis of high rise building

- Designed a 23 storey RC framed building, DIAL Hospitality District in Delhi using ETABS software
- Analyzed the design and detailing of reinforced concrete floor (flat slab) using SAFE-12 software
- Considerably reduced human effort in design calculations by developing Excel formulae sheets for design of various types of beams, columns, slabs, footings, Earth retaining structures
- Awarded with **Pre Placement offer** for significant contribution to the company

Synergy Property Development Pvt. Ltd., Gurgaon

[June'10-July'10]

On Site experience and Construction management

- Conducted lab and site tests on concrete and its components after thorough research of the principles of Concrete Mix Design based on IS: 10262-1999
- Assisted and monitored Quality Control, Execution and Management departments
- Gained hands-on experience in Basic Design Reports and preparing Bar Bending Schedules(BBS)
- Estimated the quantity and cost of steel and concrete used for the construction of a 28 floor building and also documented structural safety reports for these projects (using NBC-2005)

Coal India (Central Coalfields Ltd.), Ranchi

[Dec'09]

Improvement in water supply and sewage treatment of new township area in Ranchi

- Reconstructed the map of water distribution pipeline system using AutoCAD
- Produced a detailed report suggesting improvements in the waste-water management system

KEY ACADEMIC PROJECTS

Vibrational Analysis of Railway Steel Bridges | Undergraduate thesis

[July'11-Present]

- Performing static and dynamic analysis of railway steel bridges for fatigue using ANSYS software
- Formulating a spectrum to calculate the Coefficient of Dynamic Augment (CDA) to replace the conventionally used empirical formulae
- Aim to predict accurate lifetime of existing bridges due to increased dynamic load on it over time

Seismic Design and Analysis for Commercial Building | Advance Design of Structure [Ju

[July'11-Present]

- Drafted the plan of the building with appropriate locations of beam and columns using AutoCAD
- Critically analyzed the model in ETABS for 5 different load cases including earthquake forces

Stopping Sight Distances at Red Zones in Highway | Transport Engineering

[Jan'11-April'11]

- Developed a C++ program for the computation of stopping sight distance at the combination of horizontal and vertical curves (red zone)
- Established a co-relation between design speed and the curve characteristics to obtain the optimum safety factor in accordance with AASTHO safety standard codes

HONORS DEGREE AND SOFTWARE SKILLS

- Pursuing Honors Degree which includes Masters level courses like Advance Design of Structures, Structural Dynamics, FEM
- Engineering Software: ETABS, AutoCAD, Staad Pro 07, ANSYS, SAP 2000 and SAFE-12

POSITIONS OF RESPONSIBILITY

Department Placement Coordinator, Institute Placement Team

[May'11- Present]

- Part of a 65 member team to coordinate placements of 1500 students in over 400 companies
- Playing a key role in formulating policies, coordination and scheduling; acting as an interface between students, authorities and companies
- Conducted mock interviews, group discussion sessions and implemented initiatives like puzzle of the day and preparatory guizzes aimed at better placement preparation of the batch

Student Coordinator, National Services Scheme

[May'10- April'11]

- Led a team of 16 work associates and 200 volunteers for NSS activities in campus
- Conceptualized and implemented the "Mentorship Program" for the students of Campus School and Kendriya Vidyalaya at IIT Bombay
- Organized field trips to villages like Kapshi, Vihigaon, Surgana, etc for students to demonstrate problems faced by people living in villages
- Convinced authorities to raise NSS funds for village trips, Salvation campaigns, etc. and to hire new instructor for Personality Development Program

Member, Institute Academic Council

[Aug'10- Nov'10]

- Surveyed faculty member's response on the academic and motivational issues faced by students
- Solved various academic issues like course slot clash, pre-requisite structure, online feedback system, survey current course credit and introduced a new Course-Code Numbering System

EXTRA CURRICULAR ACTIVITIES AND AWARDS

TECHNICAL

- Aakaar, Department Technical Festival. Won three times in a row
 - Secured 1st position in "Connexure" for the best design of 2D truss model used in bridges [2011]
 - Secured 1st position in "Civil Instinct"; design of Foundation Slab model [2010]
 - Won 1st prize in "Quake" for designing the most stable novel earthquake resistant structure [2009]
- Won 4th position (among 400 and more teams) in Techfest's "Solar Splash" to design solar boat [2010]

SPORTS

- Member of the IIT Bombay Athletics team at 46th Inter-IIT sports meet [2010]
- Awarded Hostel Sports Color for playing an important role in football, cross country, Tug of war, athletics, weightlifting and water polo team in General Championships [2011]
- Captain, Inter-Hostel Football team; secured 3rd position in General Championship [2010]
- Won 1st Position in Inter-Hostel Football General Championship [2009]
- Won 3rd position in 200 meter Track event and 4th position in Javelin throw event Athletics GC [2011]

SOCIAL

- "Certificate of Appreciation" for consecutive 3 year by UNNATI (NGO) [2009, 2010, 2011]
 - Took an active interest in the indigenous development policies adopted by 'Kapshi' village in Satara District - a prime example of using innovation to alleviate the effects of drought
 - Volunteered in **Old cloths collection** drive in campus for donation to poor and needy people of slums
- Currently studying and exploring Urban Sociology of contemporary India [July'11-Nov'11]