Geotechnical Engineering
Environmental Engineering
Structural Engineering
Transportation Engineering
Water Resources Engineering

DEPARTMENT OF
CIVIL ENGINEERING
PERFORMING OVER THE YEARS
MISSION
To contribute to India and the world through excellence in scientific and technical education and research; to serve as a valuable resource to remain a source of pride for all Indians;

To generate new knowledge by engaging in cutting-edge research and to promote academic growth by offering state-of-the-art undergraduate, postgraduate and doctoral programmes.

To identify, based on an informed perception of Indian, regional and global needs, areas of specialisation upon which the Institute can concentrate.

To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry.

To develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

VALUES
• Academic integrity and accountability
• Respect and tolerance for the views of every individual
• Attention to issues of national relevance as well as of global concern
• Breadth of understanding, including knowledge of the human sciences
• Appreciation of intellectual excellence and creativity
• An unfettered spirit of exploration, rationality and enterprise
Message from Head of the Department

We have just concluded the Golden Jubilee Celebrations of the Institute with a sense of achievement and accomplishment. Since the Civil Engineering Department has all along contributed not only in providing the academic excellence but also in building the basic infrastructure of this great Institute; therefore, there would not be a better time to engage in introspection and put together our achievements as well as our resolve to engage with the challenges of future in view of rapidly changing needs and environment of our society.

This brief information brochure is an attempt in this direction.

The Department has always been able to attract and nurture faculty that is equivalent to the best as per international standards. They have always been engaging with the cutting edge research in their respective areas and contributed not only at the national but also international level. They have always been deeply involved in moulding our young bright undergraduate and graduate students into technologists, technocrats and researchers who are capable of providing best of solutions to the societal problems.

I can vouch on behalf of my faculty colleagues and staff that we will continue to strive for greater heights in teaching and research that is relevant and shall help in nation building. I am very happy to present a brief account of our engagements, achievements and aspirations in the following pages.
The Civil Engineering Department is one of the oldest departments of the Institute and was established along with the inception of the Institute in 1961. Starting with a regular five-year bachelor's degree in Civil Engineering, the Department has grown leaps and bounds in offering seven different specialised Institute M.Tech. Programmes along with a host of industry sponsored M.Tech/PG Diploma Programmes. The Department also offers M.S. (Research) and Ph.D. Programmes in different frontier areas of research in Civil Engineering.

The Department which housed in a tiny shed in 1961, moved through the corridors of Block I, before finally settling in its present location at Block IV/VI occupying nearly 4500 m² of covered area on the campus. The Department also excels in industry sponsored research and consultancy activities. This journey, however, has not been overnight; it’s been a result of hard work put in by the faculty, the laboratory staff, the students and has thoroughly been backed by the administration at all levels through the times.
Bachelor of Technology in Civil Engineering
The Department offers B.Tech. degree to eligible candidates, which is a four year undergraduate programme. The students have a wide variety of core and elective courses to choose from. After completing the broad based core courses, each student chooses an elective course in his/her area of special interest from amongst the streams of Construction Engineering and Management, Environmental Engineering, Diastechethyl Engineering, Structural Engineering, Transportation Engineering and Water Resources Engineering. The students undergo field trips, industry oriented practical training and colloquia and final year projects as part of the undergraduate programme. Each year more than 110 students join this prestigious programme.

Master of Technology in Civil Engineering
The Department offers seven postgraduate programmes to eligible candidates, which are of two year duration each leading to M.Tech. degree in a specialised field (as given in the table alongside). In each programme, students acquire knowledge in broad-based core courses followed by electives which provide in-depth and specialised knowledge in areas of special interest to them. Like the undergraduate students, they also undergo field trips and industry oriented practical training. A major project is also to be undertaken as a part of the curriculum in the final two semesters which involves research or design and development. Around 244 students enrol for these M.Tech. programmes every year. The Department also offers few M.Tech. programmes to universities abroad through the two-way video conferencing mode since 2009.

Research Programmes (Doctor of Philosophy, Master of Science)
The Department offers Ph.D. degree to postgraduate students who have attained M.Tech./M.E. degree and also to a few exceptionally bright B.Tech. students. At any instance, we have more than 150 students who are full-time, faculty who pursue their Ph.D. under the QIP (Quality Improvement Programme), part-time students who are basically from industry or nearby engineering colleges. The Department also offers Master of Science (Research) in all the areas of Civil Engineering to bright undergraduate students. About three-fourths of the Department area is occupied by the state-of-the-art laboratories, namely:
- Advanced Dynamics Laboratory
- Computational Geotechnics Laboratory
- Concrete Structures Laboratory
- Construction Simulation Laboratory
- Construction Technology Laboratory
- Departmental Computational Laboratory
- Engineering Geology Laboratory
- Environmental Engineering Laboratory
- Foundation Engineering Laboratory
- Geotechnical Engineering Laboratory
- Geographical Information System (GIS) Laboratory
- Heavy Structures Laboratory
- Materials Research Laboratory
- Multi-hazard Protective Structures Laboratory
- Rock Mechanics Laboratory
- Simulation Laboratory
- Smart Structures and Dynamics Laboratory
- Soil Mechanics Laboratory
- Soil Research Laboratory (Constant Temperature)
- Structural Analysis Laboratory
- Structural Simulation Laboratory
- Surveying Laboratory
- Traffic Engineering Laboratory
- Transportation Engineering Laboratory

Academic and Research Programmes

Laboratory and Testing Facilities

<table>
<thead>
<tr>
<th>Year</th>
<th>Programmes</th>
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<tbody>
<tr>
<td>1960</td>
<td>B.Tech. in Civil Engineering</td>
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<tr>
<td>1965</td>
<td>M.Tech. in Environmental and Developmental Engineering</td>
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<td>1966</td>
<td>M.Tech. in Civil Engineering</td>
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<td>1968</td>
<td>M.Tech. in Structural Engineering</td>
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<td>1969</td>
<td>M.Tech. in Water Resources Engineering</td>
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<td>1970</td>
<td>M.Tech. in Rock Mechanics</td>
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<td>1974</td>
<td>M.Tech. in Rock Mechanics</td>
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<td>1975</td>
<td>M.Tech. in Water Resources Engineering</td>
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<td>1976</td>
<td>M.Tech. in Rock Mechanics</td>
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<tr>
<td>1977</td>
<td>M.Tech. in Construction Engineering and Management</td>
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<td>1978</td>
<td>M.Tech. in Water Resources Engineering</td>
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<tr>
<td>1980</td>
<td>M.Tech. in Construction Engineering and Management</td>
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<td>1983</td>
<td>M.Tech. in Structural Engineering</td>
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<tr>
<td>1984</td>
<td>M.Tech. in Computer Science and Management</td>
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<td>2012</td>
<td>M.Tech. in Transportation Engineering</td>
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<td>2013</td>
<td>M.Tech. in Water Resources Engineering</td>
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<td>2014</td>
<td>M.Tech. in Civil Engineering</td>
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<td>2015</td>
<td>M.Tech. in Geotechnical Engineering</td>
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<td>2016</td>
<td>M.Tech. in Civil Engineering</td>
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<td>2017</td>
<td>M.Tech. in Civil Engineering</td>
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<td>2018</td>
<td>M.Tech. in Civil Engineering</td>
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<td>2019</td>
<td>M.Tech. in Civil Engineering</td>
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<td>2020</td>
<td>M.Tech. in Civil Engineering</td>
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<tr>
<td>2021</td>
<td>M.Tech. in Civil Engineering</td>
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</tbody>
</table>
The faculty are always enthusiastic in publishing books/book chapters, journal papers and conference papers both at the national and international levels on a variety of topics. In recent years (2007-2012) 361 journal papers, 527 conference papers and 42 book/book chapters have been published. The faculty also actively take part in editing and reviewing books, journal papers, conference papers/proceedings, journal issues, technical articles, masters and doctorate theses.

Because of the proficiency of the Department in Civil Engineering, various government divisions, Public Sector Undertakings and industries in the private sector approach the learned faculty for undertaking various research and consultancy projects.

Complex design, construction and maintenance problems of the infrastructure sector are resolved through the intervention of the expert faculty of the Civil Engineering Department. The consultancy projects are undertaken for arriving at practical solutions to problems of special nature. The sponsoring agencies include, among others, Ministry of HRD, Ministry of Water Resources, Ministry of Earth Sciences, Ministry of Environment and Forests, DST, BRNS, CIR, CSIR, CWC, EIL, CWC. To name a few organisations which took consultancy on various projects from the Department include DDA, DIB, NDMA, MCD, Northern Railways, NTPC, BSES, Power Grid Corporation, Unitech, Konkan Railways, Gosain, IIT, IRCON, ITES and others.
Faculty Profile

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Environmental Engineering, Solid Waste Management, Incineration, Fluidised Bed Operations

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Soil Dynamics and Earthquake Engineering, Pile Foundations, Deep Excavations in Urban Areas, Problematic Soils and Ground Improvement

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Durability of Concrete, Rebar Corrosion, Cement Based Composites, Construction Technology, Building Science

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Computational Geomechanics, Soil Dynamics, Earthquake Resistant Design of Buildings, Performance Based-Reliability Based Designs in Geotechnical and Geoenvironmental Engineering

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Concrete Mechanics, Concrete Modelling, Non-linear Elasto-dynamics and Stability

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Geoenvironment, Landfills, Ash Ponds, Tailings, Ground Improvement, Slope Stability, Dams, Offshore Geotechnics

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Earthquake Engineering, Wind Engineering, Offshore Dynamics, Structural Control

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Transportation Engineering, Urban Engineering, Flood System Modelling and Arrears, Sustainable City

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Water Resources Systems, Finite Element Watershed Modelling, Infiltration Management, Irrigation Management, CAD

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Experimental and Numerical Studies into Hydration of Cement and Supplementary Cementitious Materials, Sustainability, Durability, Repair and Life-Cycle Costs of Concrete Structures

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Modeling Behaviour of Asphaltic Materials, Continuum Damage Modelling, Pavement Engineering, Rheology, Recycling of Pavement Materials

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Laurels to the Department

15th Khwarizmi International Award
Awarded to Dr. Datta T. K.
Adlerbretska Guest Professorship in Sustainable Transport at the Chalmers University of Technology (2007 to Present)
Awarded to Dr. Tewari G.
AIChE Career Award for Young Teacher
Awarded to Dr. Chahar B. R.
American Society for Engineering Education Best Poster Award, 2000
Awarded to Dr. Sowmya A.
Best Paper Award in 2nd Young Geotechnical Engineers Conference, New Delhi, 2011
Awarded to Dr. Basha M.
Best Poster, Indian Association of Aerosol Science and Technology, 2004
Awarded to Dr. Habib G.
Best Technical Paper, Institution of Naval Architects, 2009
Awarded to Dr. Jay K. C.
DARE Research Ambassador by German Academic Exchange Services
Awarded to Dr. Matgare V.
DAE Young Scientist Award by Department of Atomic Energy, 2011
Awarded to Dr. Matgare V.
Distinguished Capital IRTE and Prince Michael International Road Safety Award
Awarded to Dr. Tewari G.
DST Young Scientist Award by Department of Science and Technology
Awarded to Dr. Basha M., Dr. Bhalma S., Dr. Chahar B. R., Dr. Ganguli A., Dr. Kalaga R. R., Dr. Kumar A., Dr. Manna B., Dr. Matgare V., Dr. Sahno D. R.
Elected President of Indian Geotechnical Society (IGS)
Dr. Rao K. S.
Fellow of Indian National Academy of Engineering (INAE)
Dr. Datta T. K.
Fellow of Indian Association of Hydrologists (IAH)
Dr. Datta T. K.
Fellow of Indian Association of Structural Engineers
Dr. Bhattacharjee B.
Fellow of Institution of Surveyors (India)
Dr. Bhattacharjee B.
Fellow of Royal Institution of Chartered Surveyors
Dr. Sahney A.
Fellow: Institution of Engineers (India); Institution of Surveyors (India)
Dr. Iyer K. C.
Fellow: Wessex Institute of Great Britain; Institution of Engineers; Indian Society of Wind Engineering
Dr. Sahara D. R.
Golden Jubilee Mentorship Award, IIT Delhi
Awarded to Dr. Datta T. K.
Honorary Fellow, Indian Association of Structural Engineers
Dr. Bhattacharjee B.
IGS Annual Lecture Award, Indian Geotechnical Society, 2008
Awarded to Dr. Sharma K. G.
IGS Delhi Chapter Leadership Award, 2011
Awarded to Dr. Shah A. T.
IGS-HEICO Award for Best Journal Paper, 1987
Awarded to Dr. Sharma K. G.
Independent Director, National Building Construction Corporation Ltd., 2010
Dr. Iyer K. C.
India-Sri Lanka Science and Technology Foundation Fellow, 2008
Dr. Kalaga R. R.
Indian Society for Rock Mechanics and Tunnelling Technologies Award for Best Journal Paper, 2002
Awarded to Dr. Sharma K. G.
Indo-US Science and Technology Foundation Fellow, 2008
Dr. Kalaga R. R.
International Association for Computer Methods and Advances in Geomechanics Excellence Journal Paper Award, 2006
Awarded to Dr. Sharma K. G.
International Velocity Fakro Lecture Prize, Barcelona, Spain
Awarded to Dr. Tewari G.

Ludhiana Management Association
Woman’s Achiever Award, 2010
Awarded to Dr. Tewari G.

Member Academic Advisory Board in
Engineering Sciences at TERI, 2009-2010
Dr. Bhattacharjee B.

Networth Harilal Bhagwati Charity
Trust Prize, IIT Bombay
Awarded to Dr. Ganguli A.

Outstanding Young Faculty Fellowship by
IIT Delhi
Awarded to Dr. Ayothiraman R.

Research Council Member of CBRI and
NCCBM
Dr. Bhattacharjee B.

Residential Birlas in South Asia
Journal Article Recognised by ABC News,
Residential Biofuels in South Asia:
Dr. Bhattacharjee B.

NCCBM
Research Council Member of CBRI and
NCCBM
Dr. Bhattacharjee B.

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Residential Birlas in South Asia
Journal Article Recognised by ABC News,
Residential Biofuels in South Asia:
Dr. Bhattacharjee B.
Conferences and Training Programmes

**Department of Civil Engineering - Performing over the Years**

**Landfills-Design, Construction and Operational Management**
16th to 18th July, 2004
Prof. A. K. Gosain
Sponsored by Mumbai Waste Management Ltd., Maharashtra

**Construction Practices and Management I**
24th-26th April, 2007
Dr. K. N. Jha, Prof. B. Bhattacharjee
Sponsored by Nagpuria Construction Company Ltd., Hyderabad

**Training Programme on GIS and Its Application in Civil Engineering**
27th November to 11th December, 2007
Prof. A. K. Gosain
Sponsored by I. D. College of Engineering, Amravati

**National Workshop on GPS and RWC-PRISM**
12th to 15th July, 2004
Prof. A. K. Gosain
Sponsored by Rice-Wheat Consortium for the Indo-Gangetic Plains, New Delhi

**NATCOM Consultative Meeting on Impacts of Climate Change on Water Resources**
22nd July, 2005
Prof. A. K. Gosain
Sponsored by Winrock International India, New Delhi

**2nd Global Land Cover Network Workshop**
3rd April, 2006
Prof. A. K. Gosain
Sponsored by the Food and Agriculture Organization of the UN, New Delhi

**Managing Construction for Entrained Hydraulic Operational Efficiency**
22nd to 24th April, 2008
Dr. K. N. Jha
Sponsored by Nagpuria Construction Company Ltd., Hyderabad

**Conferences and Training Programmes**

**SWAT/ADAPT Modelling for Integrated Water Resource Management in India**
20th-30th August, 2007
Prof. A. K. Gosain
Sponsored by INDO-US Science and Technology Forum, New Delhi

**Remote Sensing and GIS Applications in Hydroelectric Projects**
19th to 22nd August, 2008
Prof. A. K. Gosain, Prof. A. K. Keshari
Sponsored by People Enhancement Solutions, New Delhi

**Landfills-Design, Construction and Operational Management**
16th to 18th July, 2004
Prof. A. K. Gosain
Sponsored by Mumbai Waste Management Ltd., Maharashtra

**Conferences and Training Programmes**

**Computer Aided Scheduling Resource Leveling, Tracking and Reporting for a Construction Project**
14th to 15th March, 2008
Dr. K. N. Jha, Dr. S. K. Deb
Sponsored by Nagarjuna Construction Company Ltd., Hyderabad

**Remote Sensing and GIS Applications in Hydroelectric Projects**
19th to 22nd August, 2008
Prof. A. K. Gosain, Prof. A. K. Keshari
Sponsored by People Enhancement Solutions, New Delhi

**Training Programme on GIS and Its Application in Civil Engineering**
27th November to 11th December, 2007
Prof. A. K. Gosain
Sponsored by I. D. College of Engineering, Amravati

**Short Course on Artificial Neural Networks in Semantic Control of Structures**
17th to 18th February, 2012
Dr. M. M. Rao
Sponsored by L&T Ltd., Chennai

**Improving Project Performance using Virtual Design and Construction**
1st May, 2010
Prof. K. C. Iyer, Prof. Anil Sawhney

**Short Course on Artificial Neural Networks in Semantic Control of Structures**
17th to 18th February, 2012
Dr. M. M. Rao
Sponsored by L&T Ltd., Chennai

**UKIERI Concrete Congress**
8th to 10th March, 2012
Dr. Shashank Bishnoi, Dr. S. Bhalla and Prof. B. Bhattacharjee

**SWAT Workshops in India**
12th to 14th July, 2010
Prof. A. K. Gosain

**UKIERI Concrete Congress**
8th to 10th March, 2012
Dr. Shashank Bishnoi, Dr. S. Bhalla and Prof. B. Bhattacharjee

**Training Programme for Civil Engineers on IS 800 (2007) for L&T**
1st and 2nd April, 2011
Dr. Vasant Matsagar
Sponsored by L&T, Faridabad

**Supervisory Development Programme**
19th to 24th April, 2010
Dr. K. N. Jha
Sponsored by L&T Ltd., Chennai

**Training Programme on Artificial Neural Networks in Semantic Control of Structures**
17th to 18th February, 2012
Dr. M. M. Rao
Sponsored by L&T Ltd., Chennai

**CPCB Residential Training Programme on Environment Monitoring and Latest Trends and Guidelines for Environmental Impact Assessment Studies**
15th to 17th January, 2010
Dr. A. K. Nema
Sponsored by CPCB, New Delhi

**UKIERI Concrete Congress**
8th to 10th March, 2012
Dr. Shashank Bishnoi, Dr. S. Bhalla and Prof. B. Bhattacharjee

**Fire Performance of Steel and Concrete Structures**
28th June, 2010 and 13th December, 2011
Dr. Vasant Matsagar

**Training Programme on GIS and Its Application in Civil Engineering**
27th November to 11th December, 2007
Prof. A. K. Gosain
Sponsored by I. D. College of Engineering, Amravati

**CPCB Residential Training Programme on Environment Monitoring and Latest Trends and Guidelines for Environmental Impact Assessment Studies**
15th to 17th January, 2010
Dr. A. K. Nema
Sponsored by CPCB, New Delhi

**Training Programme of Indian Railways Services of Engineers (IRSE Officers)**
18th to 29th May, 2009
Dr. S. Bhalla
Sponsored by Indian Railways Institute of Civil Engineering, Pune

**One Day Seminar on Urban Challenges in the Context of Climate Change**
20th April, 2012
Prof. A. K. Nema and Dr. Anur Kumar
Sponsored by Liberty Institute, New Delhi

**UKIERI Concrete Congress**
8th to 10th March, 2012
Dr. Shashank Bishnoi, Dr. S. Bhalla and Prof. B. Bhattacharjee
The Civil Engineering Society (CES) is a non-registered, non-profit organisation within the Department of Civil Engineering at Indian Institute of Technology Delhi. The members of the society include the undergraduate and postgraduate students, faculty, scientists and research engineers of the Department. The CES has been quite active in providing its members, particularly the student members, a platform to showcase their scholarly work, thoughts and activities to the students.

A Glimpse of Activities:
- Technical Magazine (Nirmaan)
- Seminars by National and International Experts
- Technical Events
- Cultural and Sporting Events
- Educational Trips
- Enrichment programmes
- Freshers’ Welcome and Orientation
- Technical Talks
- Sudoku and Dumb-Charades
- Tennis Ball Cricket
- Tensegrity Quiz
- Alumni Meet
- Technical Magazine (Nirmaan)
- Vice-President (CES)
- President (CES)

Dr. Vasant Mohagor
Vice-President (CES)

Prof. A. K. Goasain
President (CES)

Since the beginning of its inception, the Department has always been instrumental in producing academicians and practitioners with knowledge of the various aspects of Civil Engineering. The students of our Department are always eager to learn and they get placed before they receive their degree. The past three batches of the students are presently serving at various positions and levels in the following companies and universities among others:

ALSTOM Power Ltd.
ALLISON Engine Propulsion Ltd.
Aditya Global Services Pvt. Ltd.
Bharat Heavy Electricals Ltd. (BHEL)
Beacon Advisory Services
Birla and Company
BDR Energy Systems
Brahmocab Solutions Pvt. Ltd.
Civil India Ltd.
Credit Sureze
Consulting Engineering Services (India) Pvt. Ltd.
Council of Scientific and Industrial Research
D E Shaw India Software Pvt. Ltd.
Dyson Handson
Dolomite Consulting
Dubharm
Ecosense Sustainable Solutions Pvt. Ltd.
EP India Consulting Engineers Pvt. Ltd.
Energi Engineering Projects Ltd.
Fomenti
FRP Infrastructures Pvt. Ltd.
Fiskel Online Services Pvt. Ltd.
Future Fire Info Services Pvt. Ltd.
Ghadi Tech
Ghadi Technologies India Pvt. Ltd.
Geometric Ltd.
GXL University, Mumbai
Global Analytics India Pvt. Ltd.
Globairn
Great Research India Pvt. Ltd.
Hyphen Consulting India Pvt. Ltd.
I Consulting Pvt. Ltd.
Indian Oil Corporation Ltd.
Indian Valley Partner India Pvt. Ltd.
Iass India Pvt. Ltd.
ICIC
JEC (John Thompson) Ltd.
JTPP (India) Capital Services Ltd.
Jindal Steel and Power Ltd.
KLA University
K L University
KPMG Advisory Services Pvt. Ltd.
Kumar & Suresh, Chennai
L&T Ram biologist Consulting Engineers Ltd.
Leighton Contractors (India) Pvt. Ltd.
Lovely Professional University
McKinnon and Company
Mechanical Industries
Moorty S.
Mozaffar Salar Ltd.
MPHC
National Council for Cement and Building Materials (NCB)
National Thermal Power Corporation Ltd.
NBS India
NMK Infrastructures Ltd.
Orca Solutions
Oracle India Pvt. Ltd.
Paramount Group
Polaris Software Lab Pvt. Ltd.
PricewaterhouseCoopers Pvt. Ltd.
Rajiv Gandhi University of Knowledge Technologies
RBI India Development Centre Pvt. Ltd.
Reliance Power Private Ltd.
Reliance Infrastructure
RETES
Schumacher
Shriram Group of Institutions
Sheil Technology India Pvt. Ltd.
Shinmar Corporation
Shivshakti University
SKAG India
Soma Enterprises Ltd.
State Bank of India (SBI)
TCE Consulting Engineers Ltd.
The Bharat Conservation Group (India) Pvt. Ltd. (B.C.G.)
The Boston Consulting Group (India) Pvt. Ltd. (B.C.G.)
The Institute of Science and Technology (IdaTech)
The Parthenon Group
The Parthenon Group
The Stellar Group of Companies
Unitech Ltd.
Ventry Knowledge Solutions Pvt. Ltd. (VKS Infotech)
Wipro Systems
WAPCOS Ltd.
WNS Research and Analytics Services
Zvonar
ZS Associates India Pvt. Ltd.

The Civil Engineering Society (CES) is a non-registered, non-profit organisation within the Department of Civil Engineering at Indian Institute of Technology Delhi. The members of the society include the undergraduate and postgraduate students, faculty, scientists and research engineers of the Department. The CES has been quite active in providing its members, particularly the student members, a platform to showcase their scholarly work, thoughts and activities to the students.
Department Alumni

(1966, B.Tech.) Mr. Ramesh C. Gupta, Executive Director - Engineering, Airport Authority of India, New Delhi, India.
(1966, B.Tech.) Mr. Santokh Singh Sethi, Joint Director, Bureau of Indian Standards, New Delhi, India.
(1967, B.Tech.) Mr. Dinesh Sridhar, Director General, Military Engineering Services, India.
(1968, B.Tech.) Mr. Paraveswaran R, Director General, Survey of India, Delhi, India.

(1972, B.Tech.) Mr. Arun Bhardwaj, Director General, National Water Development Agency, Government of India.
(1972, B.Tech.) Mr. Suresh Kumar Puri, Director, Indian Roads Congress, New Delhi, India.

(1979, B.Tech.) Mr. Rajiv Goel, General Manager, Airport Authority of India, New Delhi, India.

(1981, B.Tech.) Mr. Ashoke V, First Secretary, Ministry of External Affairs, Government of India.

(1982, B.Tech.) Mr. Ashwani Gupta, Scientist-G, Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India.


(1985, B.Tech.) Mr. Girish Kumar, Director, Ministry of Railways, Government of India.

(1986, B.Tech.) Mr. Ravindra Kumar, Director, National Buildings Construction Corporation, Ministry of Urban Development, Government of India.


(1987, B.Tech.) Mr. Munesh Kumar, Director, Ministry of Finance, Government of India.

(1989, B.Tech.) Mr. Shivam Singh, Deputy Chief Engineer, Ministry of Railways, Government of India.

(1994, B.Tech.) Mr. Ashwani Kumar, Director, Ministry of Railways, Government of India.

Prof. Manoj Datta, (1977, B.Tech.) Director, Panjab Engineering College, Chandigarh.
Mr. Nirmal Kumar Tiwari, (1971, B.Tech.) Bid Manager, Balfour Beatty Ground Engineering Limited, UK.
Dr. Shyam Sunder, (1977, B.Tech.) Director, National Institute of Standards and Technology (NIST), Gaithersburg, USA.
Mr. Mukesh Kumar Jain, (1985, B.Tech.) General Manager, Indian Railways, New Delhi, India.
Mr. Sanjeev Kumar Lohia, (1986, B.Tech.) Director (Urban Transport), Ministry of Urban Development, Government of India.

Dr. Vijay Mohan Sharma, (1985, Ph.D.) Former Director, Central Soil and Materials Research Station, New Delhi, India.
Mr. Vishal Modgil, (1989, B.Tech.) General Manager, Larsen and Toubro (L&T), Faridabad, India.
Future Goals

The focus of the faculty at the Department is to enhance their potentials in the cutting-edge research and to create world-class laboratories for teaching and research. Future thrust areas identified by the faculty include:

- Geo-Environmental and Geohazards
- Physical-Mechanical-Thermal Behaviour of Rocks
- Dynamic Effects on Foundations
- Energy Geotechnology
- Reliability Based Design
- Performance-Based Structures Design
- Nuclear Waste Repositories
- Urban Infrastructure Environment
- Sustainable Materials
- Advanced Construction Technologies
- Sustainable Building Design
- Modern Construction Project Management
- Structural Seismic Strengthening and Rehabilitation
- Continuum Mechanics
- Sophisticated Structural Protection Technologies
- Futuristic Sensing Technologies for Damage Detection and Structural Health Monitoring
- Making Buildings and Structures more Sustainable and Eco-Friendly
- Virtual Construction Processes, including Existing Policy Framework, Claim Management and Dispute Resolution in a Scientific Way Facilitating Faster and Economical Construction
- Multi-Scale Modelling
- Nano-Composites in Structures
- Application of IT in Transport and Modelling Freight Traffic
- Sub-Surface Drainage
- Geo-Informatics in Sustainable Water Resources Management
- Hydrodynamic and Water Quality Modelling
- Multi-Objective Analysis of Water Resources Systems
- Hydrology of Water Distribution Systems
- Phyto-Remediation and Bio-Remediation of Soils
- Flow through Natural Barriers in Landfills
- Geoenvironmental and Geohazards
- Physical-Mechanical-Thermal Behaviour of Rocks
- Dynamic Effects on Foundations
- Energy Geotechnology
- Reliability Based Design
- Performance-Based Structures Design
- Nuclear Waste Repositories
- Urban Infrastructure Environment
- Sustainable Materials
- Advanced Construction Technologies
- Sustainable Building Design
- Modern Construction Project Management
- Structural Seismic Strengthening and Rehabilitation
- Continuum Mechanics
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