Welcome

Department of Civil Engineering
Indian Institute of Technology Bombay
Powai, Mumbai 400076, INDIA.
URL: www.civil.iitb.ac.in
email: hod@civil.iitb.ac.in
Civil Engineering Department, IIT Bombay

- Year of Establishment: 1958
- UG Program: 1
- PG Specialisations: 7
- Faculty Members: 49
- Technical Staff: 21
- Administrative Staff: 10

Graduate Programs:
- Structural Engineering (1958)
- Water Resources Engineering (1958)
- Geotechnical Engineering (1959)
- Ocean Engineering (1980)
- Transportation Systems Engineering (1988)
- Construction Tech. & Management (2016)
## Students

**B. Tech (Civil Engg.) (4-years) – 560**

<table>
<thead>
<tr>
<th>Specializations</th>
<th>Current PG Students</th>
<th>Graduated Students</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PhD</td>
<td>M.Tech.</td>
</tr>
<tr>
<td>Structural Engineering</td>
<td>59</td>
<td>46</td>
</tr>
<tr>
<td>Water Resources Engineering</td>
<td>45</td>
<td>37</td>
</tr>
<tr>
<td>Geotechnical Engineering</td>
<td>55</td>
<td>26</td>
</tr>
<tr>
<td>Remote Sensing</td>
<td>24</td>
<td>14</td>
</tr>
<tr>
<td>Transportation Systems</td>
<td>40</td>
<td>29</td>
</tr>
<tr>
<td>Engineering</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>Construction Tech. &amp; Mgmt.</td>
<td>25</td>
<td>26</td>
</tr>
<tr>
<td>Total</td>
<td>263</td>
<td>190</td>
</tr>
</tbody>
</table>

- IITB-Monash Academy PhD = 15
- M. Tech/PhD Foreign Students = 14/2
- Post Doctoral Fellows = 25
QS World Ranking 2021 shows, Civil Engineering department of IIT Bombay is at 1st Rank in India and World ranking is 51-100.

Eight (8) Faculty members are from Civil Engineering department, out of 50 faculty members of IIT Bombay, who are featured in Top 2% Scientists of the World as per Stanford University, USA published list in 2020.

https://doi.org/10.1371/journal.pbio.3000384 (Table S7)
Laboratory Facilities

- Heavy Structures
- Experimental Mechanics
- Structural Evaluation & Materials Tech.
- Construction Management Studio
- Materials Characterisation Facility
- Hydraulics
- Fluid Mechanics
- Water Quality
- Advance & Dynamic Soil Testing
- National Geotechnical Centrifuge
- Applied Soil Mechanics
- Geotechnical Earthquake Engineering
- Geosynthetics Research and Testing
- Environmental Geotechnology
- Advanced Pavement Engineering
- Highway Material Testing
- Transportation Studio
- Traffic Engineering
- Remote Sensing and GIS
- Photogrammetry
- Geodesy, High Definition Survey
- Ocean Engineering
- Computational Laboratory

Thematic Labs
Sponsored Research Grants

Grants in Millions

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>2008-09</td>
<td>4.8</td>
<td>52.3</td>
<td>20.6</td>
<td>13.1</td>
<td>40.2</td>
<td>32.1</td>
<td>95.6</td>
<td>250.6</td>
<td>237.8</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

Grants in Millions

Years
## Industry Interaction

<table>
<thead>
<tr>
<th>Year</th>
<th>Grants in Millions (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008-09</td>
<td>60.8</td>
</tr>
<tr>
<td>2009-10</td>
<td>75.2</td>
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<tr>
<td>2010-11</td>
<td>96</td>
</tr>
<tr>
<td>2011-12</td>
<td>139.6</td>
</tr>
<tr>
<td>2012-13</td>
<td>171</td>
</tr>
<tr>
<td>2013-14</td>
<td>178.9</td>
</tr>
<tr>
<td>2014-15</td>
<td>183.4</td>
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<tr>
<td>2015-16</td>
<td>215.5</td>
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<tr>
<td>2016-17</td>
<td>259.9</td>
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<tr>
<td>2017-18</td>
<td>277.3</td>
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<tr>
<td>2018-19</td>
<td>300</td>
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</tbody>
</table>
Major Awards

• Shanti Swarup Bhatnagar (SSB) Prize, CSIR, Govt. of India.
• Swarnajayanti Fellowship, DST, Govt. of India.
• Alexander von Humboldt Fellowship, Germany.
• JSPS Fellowship, Japan Society for Promotion of Science (JSPS), Tokyo, Japan.
• INSA Medal for Young Scientist, Indian National Science Academy (INSA), New Delhi, India.
• NASI Young Scientist Platinum Jubilee Award, National Academy of Sciences, India (NASI), Allahabad, India.
• ISCA Young Scientist Award, Indian Science Congress Association (ISCA), Kolkata, India.
• INAE Young Engineer Award, Indian National Academy of Engineering (INAE), New Delhi, India.
• Associate of IASc, Indian Academy of Sciences (IASc), Bengaluru, India.
Fellowship of Academies/Societies

- Fellow of Indian National Science Academy (INSA), New Delhi, India (FNA).
- Fellow of National Academy of Sciences, India (NASI), Allahabad, India (FNASc).
- Fellow of Indian Academy of Sciences (IASc), Bengaluru, India (FASc).
- Fellow of Indian National Academy of Engineering (INAE), New Delhi, India (FNAE).
- Fellow of American Society of Civil Engineers (ASCE), USA (F.ASCE).
- Fellow of American Geophysical Union (AGU), USA.
- Fellow of Institution of Civil Engineers (ICE), London, UK.
- Fellow of Institution of Engineers, India (IEI), Kolkata, India (FIE).
CEP/QIP/Conferences/Workshop

Events organized

Year

Numbers

Visiting Faculty and Seminars by Distinguished Academicians/ Industrial Experts

<table>
<thead>
<tr>
<th>Year</th>
<th>(Visiting + Adjunct) Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1</td>
</tr>
<tr>
<td>2011</td>
<td>2</td>
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<tr>
<td>2012</td>
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<tr>
<td>2014</td>
<td>5</td>
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<tr>
<td>2015</td>
<td>6</td>
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<tr>
<td>2016</td>
<td>2</td>
</tr>
<tr>
<td>2017</td>
<td>2</td>
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<tr>
<td>2018</td>
<td>7</td>
</tr>
<tr>
<td>2019</td>
<td>6</td>
</tr>
<tr>
<td>2020</td>
<td>3</td>
</tr>
</tbody>
</table>

![Bar chart showing the number of seminars by year]
# International Collaborations

## Through Sponsored Projects
- University of New South Wales
- Monash University
- Texas A&M University
- University of Maryland
- University of Illinois at Urbana-Champaign
- Univ. of Edinburgh.
- Purdue University (under IUSSTF)
- KIT, Germany (under DAAD)
- North-Eastern University
- The University of Sheffield
- South East European Research Center (SEERC)
- University of Padua (UNIPD)
- University of Aberdeen

## Through Joint Supervision of Doctoral Students
- Monash University
- University of Illinois at Urbana-Champaign
- Drexel University
- HK Polytechnic
- University of New South Wales

## Exchange Visits and Fellowship
- University of Manitoba, Canada
- Oak Ridge National Laboratory
- University of Wollongong
- University of California, Berkeley
- Technical University, Darmstadt
- Kagoshima University
- University of Karlsruhe
- Technical University of Dresden
- University of South Australia
- NUS
- ESTP
- Lund University
- Tokyo Institute of Technology
- National Kaohsiung University of Applied sciences
Civil Engineering Association

Prime Objective

- To enhance knowledge & address industrial issues by bringing corporates, professors and students on common platform

Primary Activities

- Most active association in the institute
- Technical Seminars
- Talks on Global practices
- Distinguished speakers from all over the world throughout the year
- Industrial Site visits
- Epicenter of technical and social interaction of faculty and students of Civil Engineering

Aakaar

- Annual Tech. festival of Civil Engineering Department, IIT Bombay
- Student competitions
- Events, Workshops and research Symposium
- One of the biggest Civil Engineering Tech. festivals in the country
A team of 12 BTech students from Civil Engineering Department participated in National Concrete Canoe Competition held during August 22-23, 2015 at IIT Madras, Chennai.

**Team TARANG**

**Team Shunya**

**Solar Decathlon, China (2018)**

The Tower of Babylon competition was organized by the **Global Alliance of Technological Universities**. The students had to design a tower representing sustainability using only local materials within a limited budget of US$1000. Drawing from Indian culture, the students created a kettle-shaped rain harvesting structure. **The team won the first prize in the competition.**
Contact us: The Head, Department of Civil Engineering, IIT Bombay, Powai, Mumbai 400076, INDIA.
Email: hod@civil.iitb.ac.in
Phone: +91-22-2576-7301/4313
Website: www.civil.iitb.ac.in