

**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE,
PILANI DEPARTMENT OF CIVIL ENGINEERING
PILANI CAMPUS**

Department overview – Civil Engineering



BITS Pilani
Pilani Campus



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Department of Civil Engineering:

The department of Civil Engineering was established in the year 1959 and B.E. (Civil) was offered since inception.

Programme Level	Programme offered	Year of establishment
First Degree	B.E. (Civil)	1959
Higher Degree	M.E. (Civil) with specialization in Structural Engineering	2001
	M.E. (Civil) with specialization in Transportation Engineering	2002
	M.E. (Civil) with specialization in Infrastructure Engineering & Management	2006
	M.E. Sanitation Science Technology & Management	2020
Doctoral Degree	Ph.D.	1959

Faculty Strength: <ul style="list-style-type: none"> ● Senior Professors – 4 ● Professors – 5 ● Associate Professors – 3 ● Assistant Professors – 11 ● Off-Campus Faculty - 1 ● Faculty members with post-doc experience from foreign universities = 6 	Student Faculty Ratio: <p style="text-align: center;">15:1</p> Numbers of Phd Scholars : Completed: 21 (Part-time students) Ongoing: 38 (Part-time students)
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Research Thrust Areas:

- Structural Engineering
- Transportation Engineering
- Water Resources and Environmental Engineering

Faculty Profile:

NAME	DESIGNATION	SPECIALIZATION
Prof. Sudhir Kumar Barai	Sr. Prof. and Director	Structural Engineering
Prof. A.P. Singh	Sr. Prof.	Environmental & Water Resources Engg.
Prof. Rajiv Gupta	Sr. Prof.	GIS And Water Resources
Prof. Shamsheer Bahadur Singh	Sr. Prof.	Structural Engineering
Prof. Anupam Singhal	Prof.	Environmental & Water Resources Engineering
Prof. Ravi Kant Mittal	Prof.	Geotechnical Engineering
Dr. Manoj Kumar	Prof.	Structural Engineering
Dr. Anshuman	Prof.	Soil Structure Interaction
Dr. Dipendu Bhunia	Prof. and HOD	Structural Engineering
Dr. Shibani K Jha	Assoc. Prof.	Water Resources and Environmental Engineering
Dr. S.N. Patel	Assoc. Prof.	Structural Engineering
Dr. G. Muthukumar	Assoc. Prof.	Structural Engineering
Dr. Durgesh Vikram	Asst. Prof.	Transportation Engineering
Dr. Kamlesh Kumar	Asst. Prof.	Geotechnical Engineering
Dr. Rajesh Kumar	Asst. Prof.	Structural Engineering
Dr. Mukund Lahoti	Asst. Prof.	Structural Engineering
Dr. R. Srinivas	Asst. Prof.	Water Resources
Dr. Vijay Kakade	Asst. Prof.	Transportation Engineering
Dr. Sayantan Chakraborty	Asst. Prof.	Geotechnical Engineering
Dr. Subhasis Pradhan	Asst. Prof.	Structural Engineering
Dr. Selva Balaji Munusamy	Asst. Prof.	Water Resources
Dr. Pubali Mandal	Asst. Prof.	Environmental Engineering

Dr.Nishant Bhargava	Asst. Prof.	Transportation Engineering
Dr.Timothy C. Chen	Visiting Professor	Structural Engineering

Department for Societal cause:

In an effort to support for the societal cause, BITS Pilani has always been in the fore-front especially in technical support to the nearby villages either in the form of consultancy or in the form of sponsored projects. The department of civil engineering has come forward in educating the nearby villages through the implementation of rain water harvesting structures. This centre will focus on expanding to the multitude of avenues in the capacity building of Pilani village in particular and Rajasthan in general. It is strongly committed to contribute towards societal issues under WaSH (Water, Sanitation and Hygiene) through strategic and applied research.

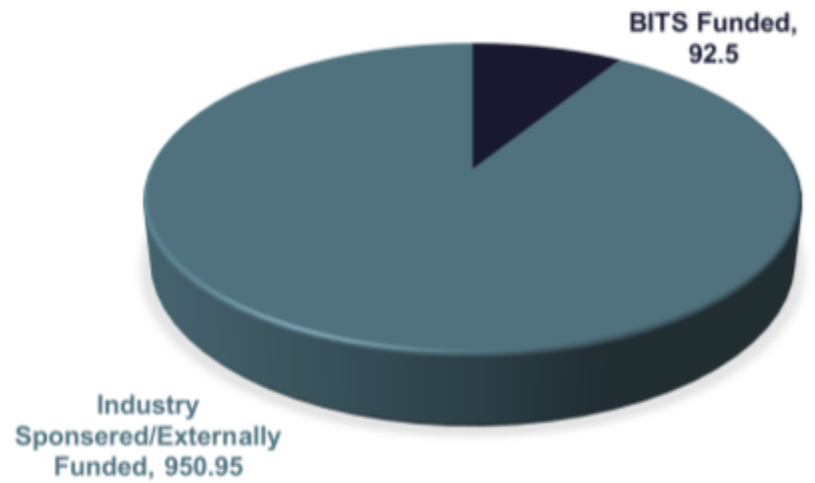
Ongoing Research Projects

Sr. No.	Name of the investigator	Funding Agency	Title of the project and duration	Amount sanctioned
1	Prof. R. Srinivas	ISRO	Smart Crop Planning: AI (Artificial Intelligence) based Decision support system for Crop Diversification (2 years)	18.53 lakhs
2	Prof. S. B. Singh	NBCC (India)	Performance Evaluation of Sintered Flyash Lightweight Aggregate in Concrete (3 years)	76.21 lakhs
3	Prof. Mukund Lahoti	NBCC (India)	Novel Self-Healing Concrete Using Electric Arc Furnace Slag Based Alkali Activated Materials (3 years)	36.67 lakhs
4	Prof. Selva Balaji M	SERB-SURE	Experimental and Numerical Study of Saltwater Intrusion Control Measures under Tidal Influence (3 years)	25.78 lakhs
5	Prof. Sayantan Chakraborty	CSIR	Development of Accelerated Mix-Design Approach for Base Materials Treated with Calcium-based Stabilizers using Miniature Specimens (3 years)	15.87 lakhs
6	Prof. Subhasis Pradhan and Prof. Mukund Lahoti	SERB-SURE	Innovative Accelerated Carbonation Process for the Preparation of Ready-mix Recycled Aggregate Concrete (3 years)	28.21 lakhs
7	Prof. Anupam Singhal and Prof. Srikanta Routroy	Ministry of Steel, New Delhi	Eco-Friendly Solution with Metal Recovery and Value Added Products from Stainless Steel Spent Pickle Liquor: A Zero Waste Business Model (1.5 years)	Total: 125.164 lakhs BITS Pilani Share: 34.61 lakhs

8	Prof. Rajesh Kumar	SERB-SURE	Development of Semi-Analytical Methodology as a Design Aid for Small-Scale Structures using Non-Classical Continuum Mechanics (3 years)	14.78 lakhs
9	Prof. Rajesh Kumar	Scheme for Promotion of Academic and Research Collaboration	Structural stability analysis of thin-walled steel structures subjected to elevated temperature due to fire (2 years)	52.08 lakhs
10	Prof. S. B. Singh	DST and JSPS	Behavior of SHCC Elements under Shear Loading (3 years)	19.22 lakhs
11	Prof. S. B. Singh	DST	Study of structural behavior and failure characteristics of FRP-Concrete composite beams (3 years)	24.42 lakhs
12	Prof. S. B. Singh	DRDO	Development of Functionally-Graded Hybrid Fiber-Reinforced Polymer Composites for High-Strain Rate and Elevated Temperature Aeronautical Applications (3 years)	98.85 lakhs
13	Prof. Rajiv Gupta	DST	Structured Dialogues for Sustainable Urban Water Management (SDSUWM) (5 years)	Total: 509 lakhs BITS Pilani Share: 329 lakhs
14	Prof. S. B. Singh	CSIR	Study of Postbuckling Response, Failure and Strength of Functionally Graded Composite Plates with and without Cutouts (3 years)	21.48 lakhs
15	Prof. Sayantan Chakraborty	SERB- DST	Mitigating Ettringite-Induced Heaving in Sulfate-Laden Soils Using Quarry Dust as Co-Additive with Calcium-Based Stabilizers (2 years)	16.67 lakhs

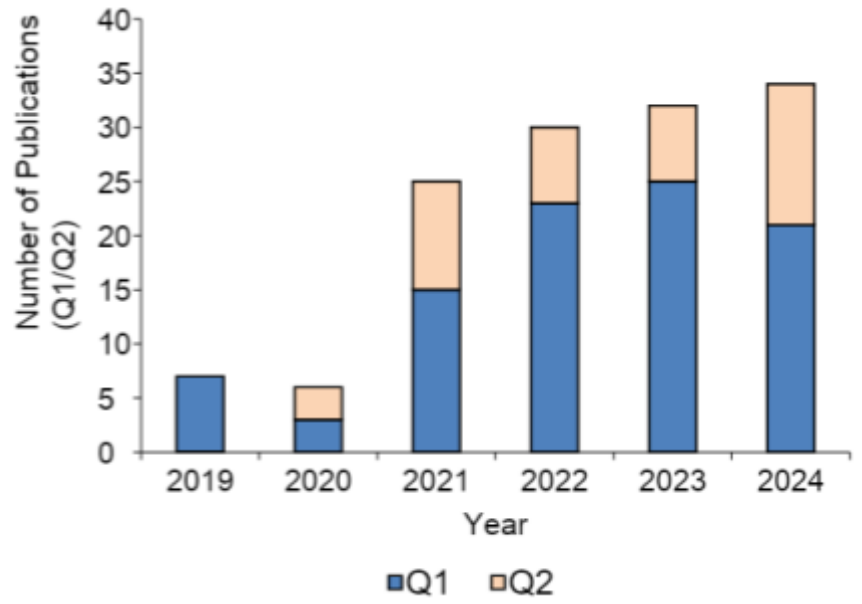
Amount = 801 lacs
Consultancy projects of Rs. 32.69 lacs

- Ministry of Steel, New Delhi
- Indian Space Research Organization (ISRO)
- National Buildings Construction Corporation (NBCC)
- Science and Engineering Research Board (SERB)
- State University Research Excellence (SURE)
- SERB Scheme for Promotion of Academic and Research Collaboration (SPARC)
- SERB Start-up Research Grant (SRG)
- SERB Core Research Grant (CRG)
- SERB Start-up Research Grant (SRG)
- DST and Japan Society for the Promotion of Science (JSPS)
-
- Council of Scientific & Industrial Research (CSIR)
-
- Defense Research and Development Organization (DRDO)



Publications:

- Research Publications (2019 onwards)
 - ✓ International = 154
 - % in Q1/Q2 = 87%
 - ✓ National = 4
- Research Parameters*
 - ✓ Average impact factor = 5.22
 - ✓ Citations/faculty = 913.4
 - ✓ Average I10 index = 17.4


Publications (Papers/ Conferences / Books/ Chapters)

Year	National Conference	International Conference
2023	00	14
2022	01	18
2021	00	09
2020	02	18
2019	09	09

Details of Book Chapters

Year	Number of Book Chapters
2023	09
2022	21
2021	02
2020	09
2019	01

Details of Books Published

- S. B. Singh, Madappa V. R. S., H. Chawla, "Emerging Trends of Advance Composite Materials in Structural Applications", (ISSN 2662-1819 ISSN 2662-1827) 2021.
- S. B. Singh, S. V. Barai, "Stability and Failure of High Performance Composite Structure", Springer Nature Singapore, (ISBN: 978-981-19-2424-8), 2022.
- S. B. Singh, "Analysis and Design of Prestressed Concrete Structures", Wiley, (ISB:978-93-5464-415-3), 2023.

Patents Filed/ Awarded :

- Method for mixing concrete with fine recycled concrete aggregate, App. No: 202411030230, 2024.
- Fibreboard sheets and a method for their manufacture, App. No: 202411028462, 2024.
- Bio-chelate technology for enhanced heavy metal remediation in municipal solid waste compost, App. No: 202411039142, 2024.
- Composition of stainless-steel pickling sludge construction materials, App. No: 202411044540, 2024.
- A process for producing false ceiling tiles and the composition thereof, App. No: 202411053938, 2024.
- GFRP shear connectors for ductile FRP – Concrete Composite Construction, App. No: 202411035510A, 2024.
- Structural grade lightweight concrete using sintered fly ash lightweight aggregate and process thereof, App. No: 202411048001, 2024.
- Number of patents granted = 9
- Number of patents pending = 12

Awards and Recognitions – Civil Engineering Students:

- Shubham Aggarwal got admission for Postdoc at University of Minnesota
- Jasleen Kaur Bheora got summer research internship at Lakehead University, Canada
- Ojasva Goyal secured the 7th position in the International Rover Design
- Ananya Jain got admission for Msc at Georgia Institute of Technology and Stanford University
- Shriya Amey Marathe got Masters Admission in Paris School of International Affairs
- Ms. Laasya Priya (2019A2PS0928P) won 2nd prize in the Build-A-Thon tournament conducted by CEA during the institute technical fest APOGEE 2021.
- Mr. Advik Singh (2020A2PS1735P) was awarded with Avery Dennison Foundation InvEnt Scholarship (Awarded to 10 students across the country to recognize and reward invention, innovation and excellence in the fields of science, engineering and technology at selected higher education institutions).
- Mr. Advik Singh (2020A2PS1735P) was awarded with George H.W. Bush Points of Light Inspiration Honoree (Established in recognition of the 41st President of the United States, George H.W. Bush, the honour roll recognizes individuals who demonstrate the transformative power of service, and who are driving significant and sustained impact through their everyday actions. I was recognized for impacting 8000+ lives through my nonprofit organisation, Chhalaang Foundation).
- Mr. Advik Singh (2020A2PS1735P) was awarded with OP Jindal Engineering and Management Scholarship (OPJEMS) - Awarded to 100 students across the country on the basis of their academic performance, business aptitude and leadership potential.
- Mr. Uttank Jha (2019B5A20857P), Vice Lead of Consortium for Research in Space Systems (CRISS) and his team was ranked 18 out of 32 finalists in the International Rover Challenge 2021 (IRDC) held by Mars Society South Asia.
- Saurav H. Yadav (2018A2PS0113P) won the prestigious O. P. Jindal Engineering & Management Scholarship (OPJEMS 2020),
- Shriya Amey Marathe (2017A2PS1015P) got Masters Admission in Paris School of International Affairs for a degree in Environmental Policy.
- Shriya Amey Marathe (2017A2PS1015P) got Masters Admission in Middlebury Institute of international studies with a scholarship of 9000 dollars per semester.
- Arvind Sahu (2016A2PS0531P) got AIR 177 in GATE 2020 in Civil Engineering
- Saumya Gaikwad, (2018A2PS0680P) have been selected for Product Intern at Adobe for summer 2021.
- Abhishek Gaur (2017B2A21037P) was one of the 1000 students selected from more than 100 countries worldwide to work as a Student Developer at Google Summer of Code (GSoC) '19 for 13 weeks during summer 2019.
- Harshoman Sinha (2016A2PS0830P) has been offered one of the 4 students to have been offered PPO from McKinsey and Company.
- Harshoman Sinha (2016A2PS0830P) was the only undergraduate student in the

country to be offered an internship at Oliver Wyman and was subsequently a PPO.

- Sanidhya Kumar Pandey (2016B1A20755P) and Hardik Maheshwari (2016B1A20906P) received a funding of ₹17000 from the institute for the project on “Self-healing in Geopolymer Concrete”.
- Shubham Aggarwal (2018A2PS0093P) has been invited for the 3rd International Conference on Safer Mobility (ICSM’20).

Faculty Awards and Recognitions:

Year 2023:

- Prof. S.B. Singh Selected as expert member of BIS to represent India as a member of ISO TC 71/SC 6/ WG6 Committee on FRP Material Properties, 2023.
- Prof. S.B. Singh Appointed as Principal member of CED 54 Concrete Reinforcement Sectional Committee of Bureau of Indian Standards, Government of India, 2023.
- Prof. S.B. Singh Appointed as Associate member of the main committee on Standards Committee for ASCE/SEI 7-Minimum Design Loads and Associated Criteria for Buildings and Other Structures for the 2028 cycles, 2023.

Year 2022:

- Prof. S.B. Singh became a Fellow of Structural Engineering Institute of ASCE, 2022.
- Prof. Rajiv Gupta and Prof. Anupam Singhal appointed as Environmental Auditor by Rajasthan State Pollution Control Board, 2022.

Year 2021:

- Prof. S.B. Singh has been elected as fellow of ASCE by American Society of Civil Engineers on December 11, 2021.
- Prof. S.B. Singh has been nominated as expert member for Developing FRP shelters for High Altitude Areas for Defence needs by CCE(R&D), DRDO, Ministry of Defense through E-mail on 25th October 2021.
- Prof. S.B. Singh has been awarded with the Best Paper Award by the Indian Concrete Journal for the year 2022 by Indian Concrete Journal on August 26, 2021.
- Prof. S.B. Singh was invited by CIDC (Construction Industry Development Council) to join the esteemed group of faculty members of CIDC Academy of Construction Engineering (CACE) on Feb 9, 2021.
- Prof. S.B. Singh was awarded with Bharat Shiksha Gaurav Puraskar” and Certificate of Excellence by KTK Foundation, New Delhi on Feb 8, 2021.
- Prof. Kamallesh Kumar has been presented with Best Researcher Award in the international Scientist Awards on Engineering, Science and Medicine by VGood Professional Association on August 28, 29, 2021.

Year 2020:

1. Prof. S.B. Singh received a Best Academician of the Year 2020 Award from Institution of Engineers, Rajasthan State Center, Jaipur on Engineers Day (15th September 2020).
2. Prof. R.K. Mittal received a Second Prize in Best Paper Prizes sponsored by Springer Nature for Paper titled “Experimental Study on Waste Tire Chips-Reinforced Sand using Cyclic Plate Load Test” presented at Indian Geotechnical Conference 2020.
3. Prof. A.P. Singh appointed as a Coordinator, Principal Technical Agency, PMGSY, by

National Rural Infrastructure Development Agency (NRIDA), Ministry of Rural Development, Government of India, New Delhi.

4. Prof. A.P. Singh appointed as an Executive Committee Member, by National Rural Infrastructure Development Agency (NRIDA), Ministry of Rural Development, Government of India, New Delhi.
5. Prof. A.P. Singh nominated as an external member of Committee of Courses for Bachelor of Engineering, by Jai Narain Vyas University, Jodhpur, Rajasthan.
6. Prof. A.P. Singh nominated as a Monitoring Committee Member for monitoring compliance of pollution norms in Pali Industrial cluster, by Hon'ble National Green Tribunal, New Delhi.

Year 2019:

1. Prof. Ajit Pratap Singh was appointed as commissioner to assess the status of Common Effluent Treatment Plants (CETPs) at Pali, Rajasthan by the Hon'ble National Green Tribunal, New Delhi in October 2019.
2. Prof. S. B. Singh attended Army Technology Seminar on 23rd December 2019 at Monekshaw Centre, New Delhi and presented the Collaborative Technology Development Project on "Fiber-Reinforced Polymer Lightweight Shelters for High- Altitude Areas," (IIT Delhi is Collaborative Partner).
3. Prof. S.B. Singh has been invited by Provost, Trinity College Dublin, Ireland for Faculty Appraisal at the level of Professor during November 2019.
4. Prof. S.B. Singh has been appointed as committee member of Research Advisory Committee for PhD students of NIRMA University, Ahmedabad, Gujrat.
5. Prof. S.B. Singh has been appointed as Editorial Board Member of Enliven: International Journal of Advances in Civil Engineering 2019.
6. Prof. S.B. Singh has been invited to Conduct Interview on 21st July at UPSC, New Delhi for Lecturers.
7. Prof. S.B. Singh has been appointed as committee member for Campus Level Faculty Appraisal Committee, BITS Pilani, Feb, 2019.
8. Prof. S.B. Singh has chaired a session at UKIERI Concrete Congress at NIT Jalandhar, Mach 5-8, 2019
9. Dr. M. Lahoti received a GPU grant worth INR 1.40 lakhs from NVIDIA Corporation's Academic Programs team (February 2019). The GPU grant consists of a Titan V GPU.

**SEMINAR/ WORKSHOP/CONFERENCE/TRAINING PROGRAMMES CONDUCTED IN
THE DEPARTMENT:**

- Prof. S. B. Singh and Prof. G. Muthukumar conducted a “Third international conference on Advances in Concrete, Structural & Geotechnical Engineering” from 26th February 2024 to 28th February 2024.
- Prof. Dipendu Bhunia was the coordinator and Dr. Sayantan Chakraborty was the co-coordinator for the Six days online and Five days offline Faculty Development Programme on Sustainability in Civil Engineering from 14th November to 19th November 2022 and 20th November to 24th November 2022 (sponsored by AICTE Training and Learning (ATAL) Academy and UltraTech Cement).
- Prof. Shamsheer Bahadur Singh organized a 5-day training programme for ONGC Engineers during April 25-29, 2022.
- Prof. S.B. Singh was the organizing chairman of the one-day US2020 International Partnership Workshop on “FRP Materials and Sustainable Structures” on March 4th, 2022.
- Prof. Rajiv Gupta was the coordinator for the training program on “Sustainable Water Management System” for Delhi Jal Board Engineers during Jan 31st – Feb 12th, 2022.
- Prof. S.B. Singh was the coordinator for the workshop “DRDO-BITS Pilani Research Interaction” on March 20, 2021 and April 24, 2021.
- Prof. S.B. Singh was the coordinator for the workshop “Bio-Based Fiber Reinforced Polymer Composites for Civil Engineering Infrastructure” on July 29, 2021.
- Prof. S.B. Singh was the coordinator for the 5-day AICTE Training and Learning Development Program on “Analysis and Design of FRP Reinforced and Concrete Structures” during July 25-29, 2021.
- Prof. S.B. Singh and Prof. Navneet Goyal conducted a webinar on “Smart Cities: Beyond the Pandemics”, BITS Pilani, on July 10-11, 2020. Number of Participants: More than 700
- Dr. R. Srinivas conducted a 4-week workshop on “Global meet on Computational Modeling and Simulation: Recent Innovations, Challenges & Perspectives, BITS Pilani (Pilani, Hyderabad, Goa, Dubai)”, during October 16th to November 7th 2020. Number of Participants: 500

Initiatives towards course curriculum revision:

The Department of Civil Engineering, BITS Pilani-Pilani campus has been committed to the expansion of the Higher Degree Civil Engineering Programmes as per the needs in the industry. The course revision is a structured process at BITS Pilani by involving the team of experts from both industry and academia in a brainstorming session. In the process, 10 new courses have been introduced and two programs have been revised for the course content.

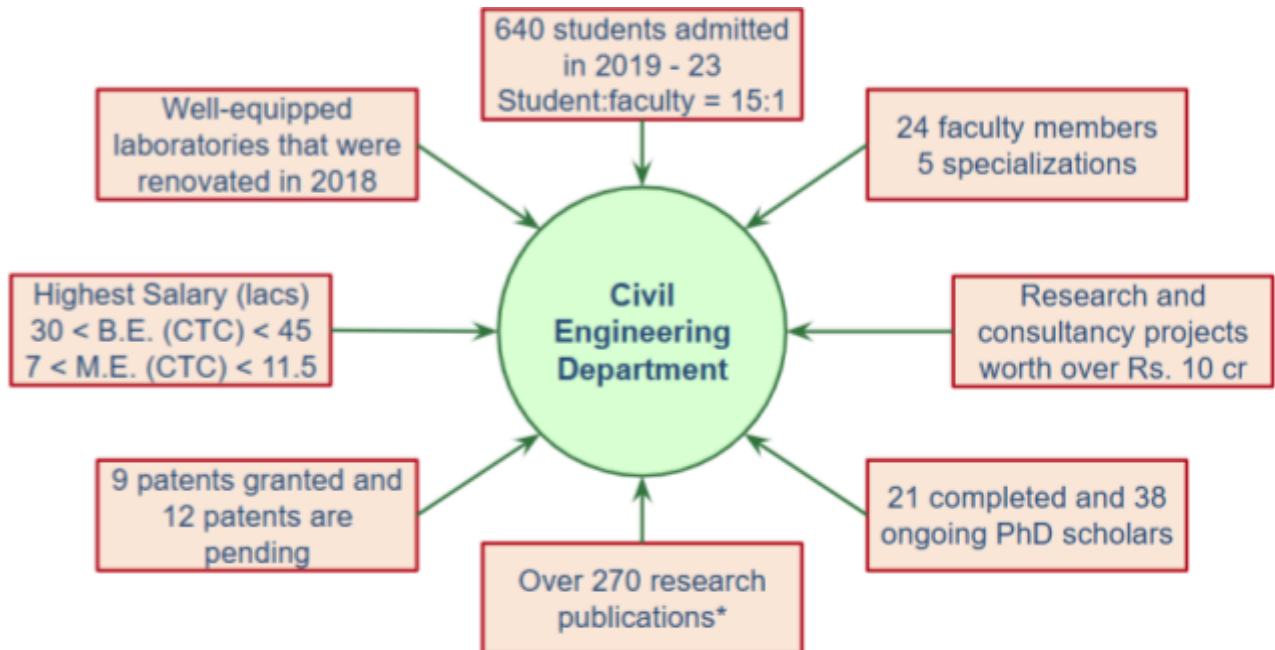
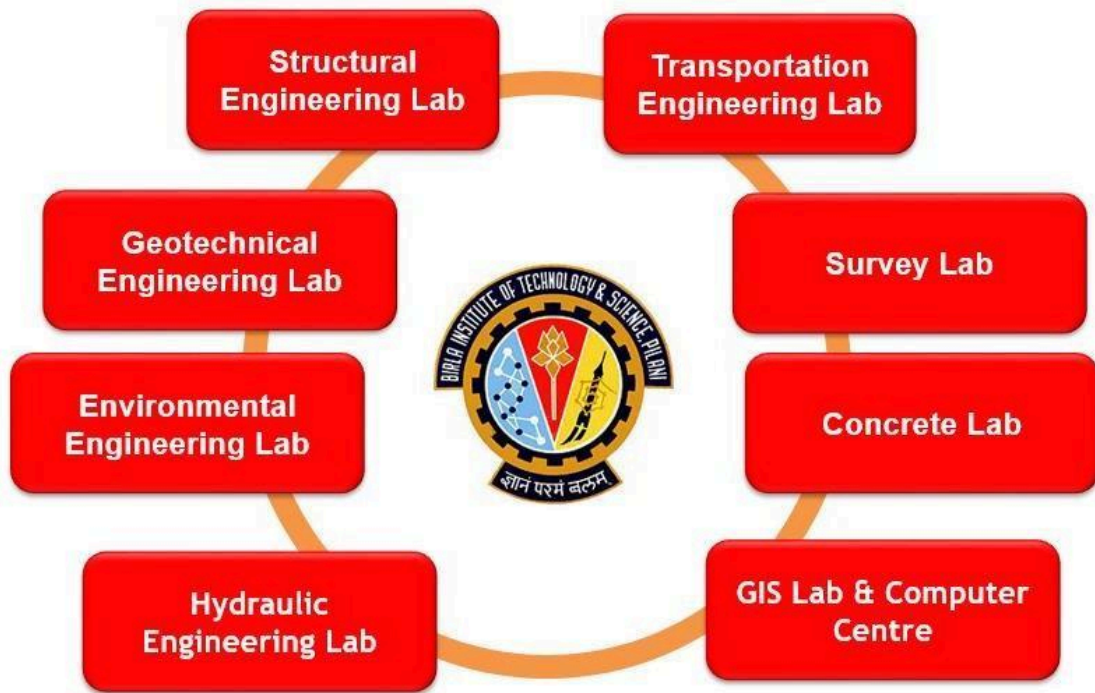
Curriculum revision in Higher Degree:

1. M.E. Transportation Engineering has been revised with input of experts from industry and academia.
2. M.E. Structural Engineering Course Curriculum revision is presently in progress.

Outreach Activities:

- Construction of rainwater harvesting systems for villages in Rajasthan .
- Implementation of water management systems for villages in Rajasthan.
- Training program for executives of Delhi Jal Board on Sustainable Water Management Systems, 2022
- Training program for ONGC Engineers, 2022
- FDP sponsored by AICTE Training And Learning (ATAL) Academy Program in 2021 and 2022

Departmental Labs:





Soil Mechanics Lab



Structural Engineering Lab



Concrete Technology Lab



Environmental Engineering Lab



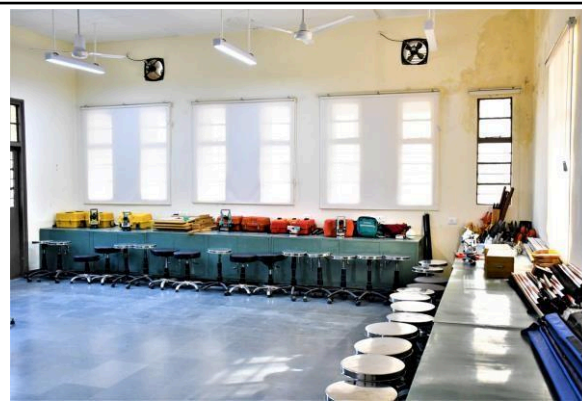
Transportation Engineering Lab



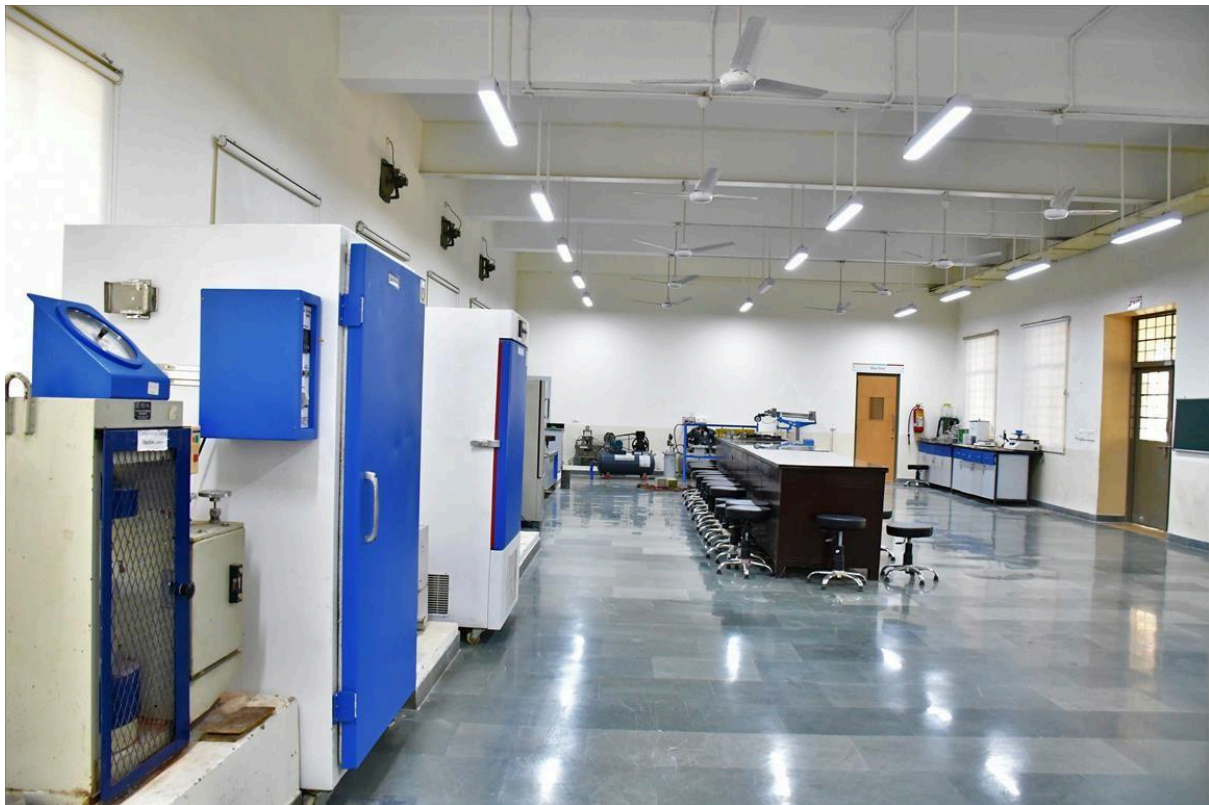
Hydraulics & Fluid Mechanics Lab



GIS & Computer Lab



Survey Lab



Concrete Lab



Transportation Engineering Lab



Environmental Engineering Lab



Geotechnical Engineering Lab



GIS & Computer Lab



Structural Engineering Lab



Structural Analysis Lab



Surveying Lab

Core courses for different HD programs		
M.E. Structural Engineering	M.E. Transportation Engineering	M.E. Infrastructure Engineering & Mgmt
Dynamics of Structures	Pavement Material Characterization	Fundamentals of Systems Engineering
Advanced Structural Stability	Transportation Planning	Transportation Systems Planning and Management
Advanced Structural Analysis	Highway Design	Water Resources Planning and Management
Finite Element Analysis	Traffic Systems Analysis	Construction Management
Research Practice	Pavement Analysis and Design	Research Practice
Earthquake Engineering	Public Transportation	Infrastructure Planning and Management
	Research Practice	

Note: Apart from core courses, students need to do few electives.

M.E. Structural Engineering – 6 electives

M.E. Transportation Engineering – 7 electives

M.E. Infrastructure Engineering & Mgmt – 6 electives

Pool of electives for different HD programs		
M.E. Structural Engineering	M.E. Transportation Engineering	M.E. Infrastructure Engineering & Mgmt
Design of Multi-storeyed Structures	Pavement Maintenance & Rehabilitation	Multicriteria decision analysis
Advanced Concrete Structures	Transportation data analytics	Remote sensing and image processing
Advanced Concrete Technology	Transportation economics and finance	Environmental impact assessment
Prestressed Concrete Structures	Airport planning and design	Airport planning and design
Earthquake Engineering	Traffic systems analysis	Water resource planning and management
Advanced steel structures	Pavement analysis and design	Transportation planning and management
Structural optimization	Public Transportation	Design of multi storey buildings under lateral loads
Theory of plates and shells	Highway geometric design	Bridge engineering
Bridge engineering	Transportation Planning	Design of foundation for dynamic loads
Design of foundation for dynamic loads	Traffic Engineering	Infrastructure engineering and management
	Project Planning and Management	

List of commercial Softwares:

- CSI Bridge**
- SAP2000**
- ETABS**
- STAAD.Pro**
- Plaxis 2D**
- Plaxis 3D**
- Midas GTS**
- Universal Distinct Element Code (UDEC)**
- GEOS**
- Abaqus Teaching Suite (20 license)**
- Abaqus Research**
- ArcGIS**
- MODFLOW**
- PTV Vissim**
- GeoHECRAS**
- Microsoft Visual Studio**
- Comsol Multiphysics**
- ENVI (PO Released)**
- Topas Ver. 7 (PO Released)**
- Match Ver. 3 (PO Released)**

School Opportunities for Higher degree students:

ATKINS AECOM

RAMBOLL

**Thornton
Tomasetti**

crtec



Development Consultants Private Limited
Certified to ISO 9001-2015, 14001-2015 and BS OHSAS 18001-2007



**Intercontinental Consultants and
Technocrats Private Limited**
Innovative, Creative & Technologically Sustainable Infrastructure Solutions

**Dorsch Gruppe
DC India**



TECHTURE



List of collaborators:

- University of Dundee, UK**
- University of Bath, UK**
- University of Virginia, USA**
- University of Bengurion Negav, Israel**
- University of Dublin, Trinity College, Ireland**
- Central Building Research Institute, India**
- Central Road Research Institute, India**
- Central Electronics Engineering Research Institute, India**
- University of Minnesota**
- Hilti India**

Ph.D. Programmes:
Institute Fellowship:

- Rs. 37,000 per month from starting**
- Based on the DRC approval, fellowship may be increased to Rs. 40,000 per month after publication in Q2 journal**
- Based on the DRC approval, fellowship may be increased to Rs. 42,000 per month after publication in Q1 journal**
- Contingency: Rs. 20,000 per year**

Pattern 1: Semester-wise course registration pattern (from admission in the Ph.D. programme) for Ph.D. students holding Higher Degree

Year	First Semester	Second Semester
I	BITS C797T Ph.D. Seminar BITS C791T Teaching Practice – I (FT) BITS E793T Practice Lecture Series – I (PT/Aspirant)	BITS C797T Ph.D. Seminar BITS G661 Research Methodology – I
II	BITS C797T Ph.D. Seminar BITS C799T Ph.D. Thesis	BITS C797T Ph.D. Seminar BITS C799T Ph.D. Thesis
III	BITS C797T Ph.D. Seminar BITS C799T Ph.D. Thesis	BITS C797T Ph.D. Seminar BITS C799T Ph.D. Thesis

FT = Full Time; PT – Part Time

Pattern 2: Semester-wise registration pattern (from admission in the Ph.D. programme) for Ph.D. students holding First Degree as the highest degree

Year	First Semester	Second Semester
I	Three courses (as recommended by Departmental Research Committee)	Three courses (as recommended by Departmental Research Committee)
II	BITS C797T Ph.D. Seminar BITS C791T Teaching Practice – I (FT) BITS E793T Practice Lecture Series – I (PT/Aspirant)	BITS C797T Ph.D. Seminar BITS G661 Research Methodology – I
III	BITS C797T Ph.D. Seminar BITS C799T Ph.D. Thesis	BITS C797T Ph.D. Seminar BITS C799T Ph.D. Thesis

FT = Full Time; PT – Part Time

Regarding all other aspects, prospective candidates can refer to the institute website.

For Further Information,

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Contact details of individual faculty are available at "**Faculty**" page.



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Department of Civil Engineering
– Pilani campus