

Aniket Kumar Patel

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Research Scholar

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EDUCATION

- 1. Master of Science** [July 2022- Present]
Division : Building Technology and Construction Management
Institute : Indian Institute of Technology, Madras
CGPA : Pursuing
- 2. Bachelor of Technology** [July 2017 – May 2021]
Department : Civil Engineering
Institute : Bhilai Institute of Technology, Durg, Chhattisgarh
CGPA (in a scale of 10) : **9.52 (88.21%)**
- 3. Senior Secondary** [July 2015 – May 2017]
School : Ramkrishna Vivekananda Vidyapeeth
Board : Central Board of Secondary Education
Percentage : **88.0%**

RESEARCH INTERESTS

- Concrete Technology
- Repair and Rehabilitation
- Heritage Structures
- Structural application of construction materials

NPTEL ONLINE COURSES

- Hydration, Porosity and Strength Of Cementitious Materials (IIT Kanpur)
- Strength Of Materials (IIT Kharagpur-**GOLD MEDILIST**)

VOCATIONAL TRAINING

- Successfully completed Vocational Training from Public Works Department (PWD). [May 2019 – June 2019]

RESEARCH EXPERIENCES

1. Modified steel table for I-Sections.

- B.Tech major project work under the guidance of Dr. M K Gupta (Professor, Bhilai Institute of Technology, Durg, Chhattisgarh, India): July 2020 – July 2021

This modified steel table contains some additional sectional properties, some graphs so one can observe the trend of variation of some of the properties (design bending moment and design shear force) of given I-section. It also includes the proper comparison between tapered and parallel flange sections which makes it unique. It also helps to choose the section at a single glance for a particular loading by observing the variation of maximum design parameters from graph in different sections. So, this modified form of steel table helps to design the I-Section effectively with proper time management.

2. Concrete Production from the waste of Bhilai Steel Plant.

- B.Tech minor project work under the guidance of Dr. M K Gupta (Professor, Bhilai Institute of Technology, Durg, Chhattisgarh, India): Jan 2019 – July 2020

This Project deals with the idea of substitution of different raw materials of concrete from waste of steel industry. i.e. ordinary cement was replaced by blast furnace slag cement, drinking water was replaced by waste water which is used for washing of clinkers, fine and coarse aggregates were replaced by appropriate size of slag. These substitution elements are tested individually to know whether they possess similar properties as that of original elements of concrete or not. There were many properties which were not possessed by these waste raw materials. But a cube specimen with waste substitution was casted and tested after 28 days and compared with standard concrete which gives a sufficient strength.

PUBLICATION

- MK Gupta, Aniket Kumar Patel, "Modified Steel Tables for I-Sections," Research Journal of Engineering Sciences, ISSN NO. 2278-9472, Vol 10(2) MAY(2021).
- Aniket Kumar Patel, Anusha Pandey, "Concrete Production from waste production of Bhilai Steel Plant," International Journal of Management, Technology and Engineering, ISSN NO. 2249-7455, Vol IX, MARCH(2019).

ACHIEVEMENTS AND AWARDS

- 1st Position in **State level Hackathon – "NAVONMESH 2019"** in Chhattisgarh.
- 2nd position in Technical Paper Presentation organized by CREDA-2020.
- 1st position in Technical Paper Presentation (Engineering for Change) .
- 1st position in Speech competition organized Civil Engineering Association.
- 1st position in Technical Paper Presentation in College fest – "OJAS 2019."
- 1st position in POP-SI-LINK in College fest – "OJAS 2019."
- 2nd position in Debate Competition organized by CEA..
- 2nd position in Technical Paper Presentation (Energy Efficiency & Energy Conservation) organized by CREDA.
- Qualified 1st round in **International Mathematics Olympiad** organized by IYMC.
- Member of State-level winning team in **CBSE Heritage India Quiz 2015** held at Indore and represented Madhya Pradesh (MP) at the regional level.

WORKSHOPS

- Attended and Participated in workshop “Structural Engineering & Design Theory and Practice.”
- Attended live webinar on Applied Aerodynamics & design of aerospace vehicles.
- Participated in HULT PRIZE Competition organized by **UNITED NATION 2020**
- Participated in IDEA FOR NEW INDIA CHALLENGE 2020 organized by **GOVT. OF INDIA**

PROFESSIONAL EXPERIENCES

- Working as a teaching assistant for course CE 2080 (Surveying) [July 2022– Dec 2022]
- Worked as Literacy Committee Member in college magazine “PANORAMA” 2018-2019.

REFERENCES

- **Dr. Manu Santhanam**
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BTCM division,
Department of Civil Engineering,
IIT Madras.
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DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibilities for the correctness of the above mentioned particulars.

- Aniket Kumar Patel