

CURRICULUM VIATE

Name: Dr. SAURAV
Ph.D: CIVIL ENGINEERING
M.Tech: STRUCTURAL ENGINEERING
B.Tech: CIVIL ENGINEERING
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CAREER OBJECTIVE

Endeavour to make the best use of my skills and capabilities to contribute towards the holistic development of my organization and to pursue a deep rooted career in the field of Teaching.

BASIC ACADEMIC CREDENTIALS

Qualification	Board/University	Year	Percentage
Ph.D	Jaypee University of Information Technology	2012-2018	Awarded
M.Tech (Structural Engineering)	IIT, BHU	2010-2012	8.05/10 With Honours
B.Tech Civil Engineering	BIT Sindri (Gov. of Jharkhand)	2005-2009	72% Distinction
12 th	Bihar Intermediate Education Council	2001-2003	69%
10 th	CBSE	2001	86%

EXPERIENTIAL LEARNING (SUMMER INTERNSHIP PROGRAM)

- Company Name :- Acon Engineers and consultants
 - Project Title :- STRUDS
 - Duration :- Oct- Nov 2008
- Company Name :-Indo-Danish Tool Room
 - Project Title :-AUTOCAD 2007
 - Duration :- 24.09.07 to 06.10.07

PROJECT REPORT

- ❖ **Ph.D Thesis:** Experimental studies of strength and durability analysis of concrete incorporating ultrafine slag
- ❖ **M.Tech Thesis:** Finite element analysis of confined brick masonry through ANSYS.
- ❖ **B.Tech Thesis:** Purification of coal washery water and making it potable.

COMPUTER PROFICIENCY

- ❖ Microsoft Office Word, Microsoft Office Excel, Microsoft Office Power Point
- ❖ **Software skills : AUTOCAD, STADD PRO AND ANSYS**

SUBJECT OF INTEREST

- ❖ Strength of materials, Structural Analysis, Design of reinforced concrete structures, Prestressed concrete, Finite Element Analysis and Advanced Concrete Technology

ACHIEVEMENTS

- ❖ Stood **All India rank 41st in mathematics and science test** organized by Institute for proficiency in English language(CIPEL)
- ❖ Stood a remarkable position in National mathematics Olympiad contest organized by Delhi Association of Mathematics teachers.
- ❖ **Gate qualified.**

RESEARCH INTEREST

- ❖ Concrete Materials and its application.
- ❖ Analysis and Design of Composite Structures.

PAPER PUBLISHED/UNDER REVIEW IN PEER REVIEWED JOURNALS

- ❖ “The effects of corrosion in steel fiber reinforced concrete with addition of mineral admixture”, *International journal of Civil Engineering*, **Springer** (2020). [**Under Review**]
- ❖ “Experimental and Numerical study to Improve Lateral Load Resistance of Masonry Stack”, *International journal of civil engineering*, **Springer** (2020). [**Under Review**]
- ❖ “Optimization Assessment of a Jib Crane Beam with Variable Web Corrugations using Finite Element Analysis”, *Journal of Failure Analysis and Prevention*, **Springer Nature**. [**Web of Science ESCI, Scopus**] [**2021**]
- ❖ Failure Analysis of Unconfined Brick Masonry with Experimental Verification, *Journal of Failure Analysis and Prevention*, Vol 21 (1), **Springer Nature**. [**Web of Science ESCI, Scopus**][**2021**]
- ❖ Experimental study of corrosion in steel fiber reinforced concrete incorporating alccofine using half cell potential method, *Journal of Structural Engineering*, Structural engineering Research Center CSIR(2020) Vol 47(2), 144-151 [**Scopus Indexed**]
- ❖ A Review Paper on Early-Stage Corrosion Detection in Reinforced Concrete Structure with Piezo-Electric Sensor, *Test Engineering and Management*, The Mattingley Publishing Co., Inc., USA, 82, 9973-9985, 2020 [**Scopus Indexed**]
- ❖ “A Comprehensive Cost Benefit Analysis of Green Buildings”, *Journal of Civil Engineering and Environmental Technology*, 5(4), 171-176.(2018) [**UGC Approved**]

- ❖ “Experimental investigation to find the optimum dose of steel fibers in concrete incorporating ultrafine slag”. *Journal of Engineering science and Technology*,13(1),187-195.(2018)
[Web of Science ESCI, Scopus]
- ❖ “Experimental study to find the Flexural strength of reinforced concrete beam incorporating ultra
International journal of engineering and Technology, 8(6), 2772-2778. (2016) **[Scopus Indexed]**
- ❖ “Economic Design of RCC Box Culvert through Comparative Study of Conventional and Finite Eleme
International Journal of Engineering and Technology, 9 (3), 1707-1713. (2017) **[Scopus Indexed]**
- ❖ “Experimental study of strength relationship of concrete cube and concrete cylinder using ultrafine slag .
International Journal of Scientific & engineering Research, 5(5), 102-107.(2014) **[GOOGLE Scholar]**
(9 Citation)
- ❖ “Comparative study of effect of floating columns on the cost analysis of a structure designed on STADI
IJSER, volume 5, Issue 5, ISSN 2229-5518. (2014) **[GOOGLE Scholar] (4 Citation)**
- ❖ “Application of Nano Technology in building materials”. *International journal of Engineering res
applications*, 2(5), 1077-1082. (2012) **[GOOGLE Scholar] (6 Citation)**

PAPER PUBLISHED IN NATIONAL/ INTERNATIONAL CONFERENCE

- ❖ “Evaluation of cost Effectiveness of using autoclave aerated concrete (ACC) blocks in building construction”, 1st International Conference on Computations in Materials and Applied Engineering-2021, Materialstoday: Proceedings, Science Direct, Elsevier [**In Press**]
- ❖ “Structural Health Monitoring Through the Application of Piezoelectric Sensors – State of the Art Review”, *Advances in Construction Materials and Sustainable Environment*, Select Proceedings of ICCME 2020, Lecture Notes in Civil Engineering, Springer Nature. pp. 657-673.
- ❖ “Mechanical Properties and Development of Light Weight Concrete by using Autoclaved Aerated Concrete (AAC) with Aluminum Powder”, “International Conference on Design and Materials-2021, Materialstoday: Proceedings, Science Direct, Elsevier [**Accepted**]
- ❖ “An experimental approach to improve seismic resistance of unconfined brick masonry”, International conference on “Trends and Recent Advances in Civil Engineering TRACE-2018” 2nd International Conference held at Amity University, August 23rd & 24th, 2018, New Delhi **[Springer]**
- ❖ “A comparative study of fire resistance of concrete incorporating ultrafine slag”, 2nd International conference on “Advances in the field of health, safety, fire, environment, and allied sciences (HSFEA 2018)”, held at University of Petroleum and Energy Studies (UPES) Dehradun, November 16-17, 2018. **[Springer]**
- ❖ “Finite Element analysis of beam with corrugated web of a Jib crane”, National Conference on Advances in Structural Technologies (CoAST-2019)under TEQIP-III”, held at National Institute of Technology (NIT) Silchar, 1st -3rd February, 2019 **[Best Paper award, Springer]**
- ❖ “Finite Element analysis of Unconfined Brick Masonry with Experimental Verification”, National Conference on Advances in Structural Technologies (CoAST-2019)under TEQIP-III”, held at National Institute of Technology (NIT) Silchar, 1st -3rd February, 2019. **[Springer]**

❖ “Experimental study of the use of Alccofine as a corrosion inhibitor in steel fiber reinforced concrete”, National Conference on Advances in Structural Technologies (CoAST-2019) under TEQIP-III”, held at National Institute of Technology (NIT) Silchar, 1st -3rd February, 2019. [Springer]

BOOK CHAPTERS

❖ “Experimental and Numerical Study to Improve Lateral Load Resistance of Masonry Stack”, *Lecture Notes in Civil Engineering in Advances in Structural Engineering and Rehabilitation*, Volume 38, ISBN 978-981-13-7615-3, Page 1-13 **Springer Nature Singapore Pte Ltd.**

❖ “A Comparative study of fire resistance of concrete incorporating ultrafine slag” *Advances in Industrial Safety - Select Proceedings of HSFEA 2018*, **Springer Nature Pte. Ltd.**

❖ “Structural Health Monitoring Through the Application of Piezoelectric Sensors – State of the Art Review”, *Advances in Construction Materials and Sustainable Environment, Lecture Notes in Civil Engineering 2021*, pp 657-673, **Springer Nature Pte. Ltd.**

WORKSHOPS ATTENDED

❖ Recent advancement in civil engineering (RACE) organized at IITBHU

❖ Recent developments in design and construction techniques of brick masonry buildings organized at IITBHU

❖ IUCEE workshop on Introduction to finite element Analysis for civil engineers

❖ Rock mechanics and Dam foundation, JUIT 2014

❖ Multifunctional materials for future Applications (ICMFA-2015), IITBHU

❖ “Activities Planning Workshop for Unnat Bharat Abhiyan for Village Clusters” Conducted by Department of Rural development in collaboration with IIT Delhi.

EXPERT/INVITED LECTURES DELIVERED:

❖ Expert lecture on “Finite Element Analysis” in the symposium on “ Introduction to Structural Engineering” held at Kashi institute of Technology.

❖ Expert lecture on “ Recent trends in Concrete Technology organized by SHEAT College of Engineering, Varanasi.

❖ Expert lecture on “Understanding Viscoelastic Modeling of Creep at Low Temperature and Constitutive Equations” at One Week Online Workshop on Innovative Solutions for Sustainable Constructions in Civil Engineering 4th October 2021 – 9th October 2021 organized by Jaypee University of Information Technology.

CONFERENCE/SYMPOSIUM ATTENDED:

❖ Attended two day symposium on Introduction to Structural Engineering (ITSE-2016) held at Kashi Institute of Technology.

❖ Active participation in the lectures on “ Concrete Mix design” organized by department of civil engineering in association with HEIDELBERG CEMENT AT Kashi Institute of Technology on May 6, 2016.

- ❖ Participated two day Symposium on “ Recent Trends in Civil Engineering Towards Sustainable Environment” Organized at Jaypee University of Information Technology held on 16-17 October 2018.
- ❖ INDOROCK-2013 4th Indian Rock conference organized by ISRM TT, held at Jaypee University of Information Technology.
- ❖ Recent trends and advances in Civil Engineering, 2nd International Conference held at Amity University, sponsored by Springer.

EXPERIENCE:

1. **2.5 Years** of teaching experience both at UG and PG level in the post of **Assistant Prof. (I)** at JUIT, Wagnaghat
2. **3.5 Years** of teaching experience both at UG and PG level in the post of **Assistant Prof. (II)** at JUIT Wagnaghat.
3. **3.5 Years** of teaching at UG and PG level in the post of **Assistant Prof. (Senior Grade)** till date.

INTERPERSONAL SKILL

- ❖ Ability to rapidly build relationship and set up trust.
- ❖ Confident and Determined

Ph.D THESIS SUPERVISION

S.No	Name	Year of Completion	Title of thesis	Co-Guides (if any)
1	Aishwarya Thakur	Ongoing	Real Time Corrosion Detection of RCC Structure Using Artificial Smart Sensors	-----
2	Abhishek Thakur	Ongoing	Influence of compressive load on concrete filled steel tubular column with variable thickness	-----
3	Saurabh Kareer	Ongoing	Reliability Of Steel Building Subjected to Blast Loading	Dr. Tanmay Gupta

M.TECH THESIS SUPERVISION:

S.No	Name	Year of Completion	Title of thesis	Co-guides (if any)
1	Abhishek Kapil	2021	Utilization and Testing of materials using Concrete block Technology	Dr. Tanmay Gupta
2	Vishal	2021	Numerical Simulation of Projectile Penetration on Concrete Panel by Using Abaqus	-----
3	Nitin Kumar	2021	Stability Analysis of a Gravity Dam using MATLAB Programming	-----
4	Aishwarya Thakur	2020	Early Detection of Real time corrosion in reinforced concrete structures using Pezio electric smart sensors	-----
5	Ajay Vikram	2019	To determine the mechanical properties of pervious concrete using concrete waste and superplasticizers	-----
6	Nimisha sharma	2018	Effect of corrosion on reinforced concrete with addition of fiber and mineral admixtures	-----
7	Damini Talwar	2018	Finite element analysis of tapered beam with corrugated web of a jib crane	-----

8	Aakansha Thakur	2018	Identification and Comparison of Accidents on Dam and Highway construction	Dr. Saurabh Rawat
9	Ishan Pandey	2017	Analysis of box culvert with and without haunches	-----
10	Rohit Harbla	2017	Experimental study on properties of steel fiber reinforced concrete	-----
11	Pawan Gupta	2017	An Experimental study on potential of magnesium oxychloride cement with bagasse as an additive	-----
12	Vinay Kumar	2017	Experimental study of potential of glass powder as partial replacement of cement	-----
13	Pratyush Malviya	2015	Experimental study of flexural strength of High performances concrete	-----

ACADEMIC RESPONSIBILITIES:

- ❖ Hostel Warden , Shastri Bhawan, JUIT, Wagnaghat
- ❖ Faculty Co-Coordinator of “**Unnat Bharat Abhiyan**” Under MHRD
- ❖ Faculty in charge of disciplinary and anti ragging committee, JUIT
- ❖ Faculty in charge of mess supervising committee, JUIT
- ❖ M.Tech Departmental Project Coordinator.
- ❖ Virtual Lab Coordinator

REFERENCES

1. Dr. P R Maiti, Associate Professor, Department of Civil Engineering, IIT BHU, Mob: 9956949290
2. Prof. (Dr.) Ashok Kumar Gupta, Dean- Academic and Research, JUIT, Wagnaghat, Mob: 9857700016
3. Prof. (Dr.) Ashish Kumar, Head of Department, Civil Engineering, , JUIT, Wagnaghat, Mob:9805884286

PERSONAL DETAILS

Father's Name: Late Ashish Kumar Chatterjee
 DOB : 26/03/1986
 Language known: Bengali, English and Hindi
 Marital status: Married
 Nationality: Indian

DECLARATION

I do hereby declare that the above information is true to the best of my knowledge.

Place:Varanasi.....

Dr. Saurav