



Faculty Profile on University Website

www.kmclu.ac.in



Name	Dr. Aayush Kumar
Designation	Assistant Professor
Department	Civil Engineering
Contact Details	
Email	aayushkumar@kmclu.ac.in ; aayush.yadavv@gmail.com
Mobile No.	9453476358; 9984888801
Portfolio	INFO AAYUSH ; AAYUSH INFRA-BUILD
LinkedIn Profile Link	Dr. Aayush Yadav LinkedIn
Twitter Profile Link	Aayush yadav (@aayush_yadavv) / X
Detailed Curriculum Vitae	INFO AAYUSH- Downloads 



Educational Qualification

Exam	Board/University	Subject	Passing Year
High School	State Board	Science & Mathematics	2013
Diploma	Board of Technical Education	Civil Engineering	2016
B. Tech	AKTU, Lucknow	Civil Engineering	2019
M. Tech.	MMMUT, Gorakhpur	Seismic Design & Earthquake Engineering	2021
Ph.D.	MMMUT, Gorakhpur	Civil Engineering	2025

Gate Qualified

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Technical Skills

Auto CAD, STAAD-Pro, SAP 2000, E-Tab, OPTUM G2 & G3, MIDAS GTX NX

Details of Service

Employer's Name and City	Designation	Date(from)	Date (up to)	Total Experience
KMCLU, Lucknow	Assistant Professor	01/07/2026	Till date	--
Integral University Lucknow	Assistant Professor	21/08/2025	30/07/2026	1 year
MMMUT Gorakhpur	Assistant Professor (Contract / Guest faculty)	16/07/2025	20/08/2025	1 month
	RCTF	15/09/2022	15/07/2025	3 years

Academic Details



Teaching Area/Specialization	Rock Engg, Underground Space Technology, Geotechnical Engg, Earthquake Engg, Structural Engg.
Teaching Experience	4 years 1 month.
Research Area	Rock Engg, Underground Space Technology, Geotechnical Engg, Earthquake Engg, Structural Engg.
Orcid ID	Aayush Kumar (0000-0002-6939-885X) - ORCID
Google Scholar Profile	Dr. Aayush kumar - Google Scholar
Research Details	
No. of Research Publications	24
Books Chapter	01
No. of PhD./M.Tech. Awarded under Supervision	02
Projects and Their Details	--
No. Conferences/Seminars/Workshops Participated	23
Patent	01 [Applied]
Honours /Awards	02


Signature



DETAILED CIRRCULUM VITAE

DR. AAYUSH KUMAR (SMASCE, MDFI, MIGS)

Assistant Professor, CED, Khwaja Moinuddin Chisti Language University

Former Assistant Professor, CED, Integral University & M.M.M.U.T (Contract)

Ph.D. in Civil Engineering

E-mail: aayush.yadavv@gmail.com; aayushkumar@kmclu.ac.in

Contact No: +91- 9453476358, +91- 9415985237, +91-9984888801; +91 9451813907

DOB: 05th September 1999 Status: Unmarried

Correspondence Address: Ward No. 12, Majhauri Raj,
Badwa Tola, Salempur, Deoria, U.P, India Pin code- 274506

Portfolio: <https://sites.google.com/view/info-aayush> ; <https://sites.google.com/view/aayush-infra-build/>

Area(s) of Interest: Rock Engg, Underground Space Technology, Geotechnical Engg, Earthquake Engg



ACADEMIC QUALIFICATION

Educational Qualifications	Year	Board/ Institution	CGPA / %
Ph.D. (Civil Engineering)	2025	MMMUT, Gorakhpur-273010	9.23 in course work
M. Tech (Seismic Design and Earthquake Engineering)	2021	MMMUT, Gorakhpur-273010	7.78
B. Tech (Civil Engineering)	2019	Institute of Technology and Management Gida Gorakhpur Affiliated to AKTU Lucknow	74.24
Diploma (Civil Engineering)	2016	Mahamanav Gautam Buddha Polytechnic Gorakhpur Affiliated to BTEUP Lucknow	71.00
Matriculation (X)	2013	Uttar Pradesh State Board of High School and Intermediate Education	82.66

ADDITIONAL ACADEMIC QUALIFICATION

Course Name	Year	Board/ Institution	CGPA / %
Underground Space Technology	2024	NPTEL (SWAYAM) IIT Roorkee	55
Rock Engineering	2023	NPTEL (SWAYAM) IIT Roorkee	67 (Elite)

CERTIFICATION COURSES

Course Name	Year	Board/ Institution	Grade
Course on Computer Concepts (CCC)	2020	National Institute of Electronics and Information Technology	'D'
AutoCAD (Civil Engineering)	2017	ACME Computer Institute	'A'

TRAINING COURSES

Course Name	Year	Board/ Institution	Grade
'C'- Certificate-National Cadet Crops (NCC)	2016	Ministry of Defence	'A'
'B'- Certificate-National Cadet Crops (NCC)	2015	Ministry of Defence	'A'
'A'- Certificate-National Cadet Crops (NCC)	2013	Ministry of Defence	'A'

INTERNSHIPS

Training	Year	Organisation	Durations
Summer Internship (B.Tech)	2018	PWD Siddharth Nagar	4 Weeks
Summer Internship (Diploma)	2015	PWD Gorakhpur	4 Weeks

PROJECTS

Curriculum	Topic
Ph.D.	Numerical Stability Assessment of Rock Tunnels: Impact of Overlying Foundations, Excavation Damage, Support Systems, and Ground Inclination [INFLIBNET ; SHODHGANGA OR PDF]
M.Tech	Numerical Simulation of the Seismic Response and Soil-Pile-Structure Interaction for a High-Rise RCC Building
B.Tech	Effective Utilization of Waste Plastic with Partial Replacement of Bitumen in Flexible Pavement"
Diploma	Design of the Proposed hostel Building



SKILLS

Software's	OPTUM G-2 & G-3	MATLAB	GEO5	E-TAB'S	SAP- 2000	Rocscience
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EXPERIENCE

Position / Role	Duration	Institution / Organization	Department / Division	Location / Mode	Remarks / Website
Assistant Professor	01/07/2026 – Till date	Khwaja Moinuddin Chisti Language University (KMCLU) State Univ.	Civil Engineering	Lucknow, (U.P) - India /Onsite	—
Assistant Professor	21/08/2025 – 30/06/2026	Integral University (IUL)	Civil Engineering	Lucknow, (U.P) - India /Onsite	https://www.iul.ac.in/C/E/Faculty.aspx
Assistant Professor (on Contract / Guest Faculty)	21/07/2024 – 20/08/2024	Madan Mohan Malaviya University of Technology (MMMUT) State Univ.	Civil Engineering	Gorakhpur (U.P) -India /Onsite	—
Research Scholar cum Teaching Fellow (RCTF)	22/09/2022 – 10/06/2025	Madan Mohan Malaviya University of Technology (MMMUT) State Univ.	Civil Engineering	Gorakhpur (U.P) -India/Onsite	—
Principal Chief Executive Officer (CEO)	01/01/ 2016 – Till date	Aayush Infra Build & Group of Consultant's	Civil Engineering	India / Hybrid	https://sites.google.com/view/aayush-infra-build

PROJECT ASSISTANTSHIP

- Project assistant under the project of C/NRRL in civil engineering department of **Indian Institute of Technology, Kharagpur (IITKGP)**

LIST OF PUBLICATIONS

INTERNATIONAL JOURNALS

- Aayush Kumar**, Vinay Bhushan Chauhan, Piyush Kumar; Akhilesh Kumar Chauhan, and Pradeep Singh "Interplay of Tunnel Geometry and Shallow Foundation Stability in Rock: Comparative Insights into Failure Modes" *International Journal of Geomechanics, ASCE*, 24(9), 04024185 (2024). <https://doi.org/10.1061/IJGNALGMENG-9815>. SCIE, Impact factor: **3.5** (5Years) **Q1** Journal. ISSN (print/online): 1532-3641/ 1943-5622
- Aayush Kumar** and Vinay Bhushan Chauhan " Evaluating the impact of eccentric loading on strip footing above horseshoe tunnels in rock mass using adaptive finite element limit analysis and machine learning" *Earth Science Informatics* **17**, 4441–4471 (2024) <https://doi.org/10.1007/s12145-024-01380-w> Indexing: **SCIE** Impact factor: **3.0** (5Years) **Q2** Journal. ISSN (print/online): 1865-0481 / 1865-0473
- Aayush, Kumar**, Vinay Bhushan Chauhan, and Piyush Kumar. "Integration of AFELA and machine learning for analysis of shallow foundation over horseshoe tunnel in rock mass." *Modeling Earth Systems and Environment* **10**, 651–670 (2024). <https://doi.org/10.1007/s40808-023-01802-6> **ESCI**, Impact factor: **3.0** (5Years) **Q1** Journal. ISSN (print/online): 2363-6211/ 2363-6203



4. **Aayush, Kumar**, and Vinay Bhushan Chauhan. "Advanced finite element limit analysis and machine learning for assessing the stability of square tunnels in rock slope." *Transportation Infrastructure Geotechnology* **11**, 11 (2024). <https://doi.org/10.1007/s40515-023-00338-7> Indexing: **ESCI**, Impact factor: **2.6** (5Years) **Q2** Journal, ISSN (print/online): 2196-7210/2196-7202
5. **Aayush, Kumar**, and Vinay Bhushan Chauhan "Stability Analysis of Unlined Circular Tunnels in Sloping Rock Mass Using Adaptive Finite Element Limit Analysis" *Indian Geotechnical Journal* **55**, 1–29 (2025) <https://doi.org/10.1007/s40098-024-00903-y>. Indexing: **ESCI** Impact factor: **1.6** (5Years) **Q2** Journal, ISSN (print/online): 2277-3347 / 0971-9555
6. **Aayush Kumar**, Vinay Bhushan Chauhan and Piyush Kumar "Influence of Eccentrically Inclined Loading on Foundations Above Tunnels: A Combined Finite Element Analysis and Machine Learning Approach" *Transportation Infrastructure Geotechnology*. **12**, 69 (2025) <http://dx.doi.org/10.1007/s40515-024-00512-5>. Indexing: **ESCI**, Impact factor: **2.6** (5Years) **Q2** Journal, ISSN (print/online): 2196-7210/2196-7202
7. Piyush Kumar, Vinay Bhushan Chauhan, **Aayush Kumar**, "Assessing Foundation Behaviour under Complex Loading Near Tunnels: FEM Analysis, Insights, and Recommendations" *Journal of Mountain Science*. **21**, 3503–3520 (2024) <http://dx.doi.org/10.1007/s11629-024-8757-y>. Indexing: **SCIE**, Impact factor: **2.7** (5Years) **Q2** Journal, ISSN (print/online): 1993-0321 / 1672-6316
8. Nimisha Dwivedi, Vinay Bhushan Chauhan, **Aayush Kumar**, Sagar Jaiswal, and Trisha Singh. "Enhancing strip footing bearing capacity on soil slopes with geogrid reinforcement: insights from finite element analysis and machine learning." *Innovative Infrastructure Solutions* **9**, 440 (2024). <http://dx.doi.org/10.1007/s41062-024-01769-y>. Indexing: **ESCI**, Impact factor: **2.2** (5Years) **Q2** Journal, ISSN (print/online): 2364-4184 / 2364-4176
9. **Aayush Kumar** and Vinay Bhushan Chauhan "Numerical Investigation and Design Recommendations for Steel Linings in Single and Multiple Tunnels Under Surcharge Loading" in *Geotechnical and Geological Engineering*; 43, 457 (2025) <https://doi.org/10.1007/s10706-025-03431-5> Indexing: **ESCI**, Impact factor: **2.3** (5Years) **Q1** Journal. ISSN (print/online): 1573-1529 / 0960-3182
10. **Aayush Kumar** and Vinay Bhushan Chauhan "Twin Tunnel Stability and Support Requirements: Insights from Limit Analysis" in *Journal of Mountain Science*; (2025) <https://doi.org/10.1007/s11629-025-9720-2>. **In press** Indexing: **SCIE**, Impact factor: **2.7** (5Years) **Q2** Journal, ISSN (print/online): 1993-0321 / 1672-6316.
11. Anish Kumar, Vinay Bhushan Chauhan and **Aayush Kumar** "Machine Learning Framework for Stability Prediction of Circular Tunnel in Sloping Rock Mass under Surcharge Loading" in *Transport infrastructure and Geotechnology*. <https://doi.org/10.1007/s40515-026-00889-5> Indexing: **ESCI**, Impact factor: **2.6** (5Years) **Q2** Journal, ISSN (print/online): 2196-7210/2196-7202.
12. Piyush Kumar, Anupam Kumar Singh and **Aayush Kumar** Assessment and Mitigation of Cavity Induced Sinkhole Effects on Shallow Foundations Using FELA and Machine Learning. *Geotech Geol Eng* **44**, 250 (2026). in *Geotechnical and Geological Engineering*; 44, 250 (2026) <https://doi.org/10.1007/s10706-026-03763-w> Indexing: **ESCI**, Impact factor: **2.3** (5Years) **Q1** Journal. ISSN (print/online): 1573-1529 / 0960-3182
13. Aayush Kumar and Vinay Bhushan Chauhan "Performance-based tunnel lining design and recommendations for horseshoe tunnels in rock mass using limit analysis" *Journal of Mountain Science*. (2026) <https://doi.org/10.1007/s11629-025-0197-9>. Indexing: **SCIE**, Impact factor: **2.7** (5Years) **Q2** Journal, ISSN (print/online): 1993-0321 / 1672-6316
14. **Aayush Kumar** and Shriram Chaurasia. "Numerical Simulation for Seismic Response of Soil-Foundation-Structure Interaction on Seismic Design of High-Rise RC Building." *i-Manager's Journal on Civil Engineering* **11**(2) 8-22 (2021) <https://doi.org/10.26634/jce.11.2.18040>. ISSN (print/online): 2231-1068 / 2249-0779
15. **Aayush Kumar**. "Seismic hazard assessment of Uttar Pradesh local and active seismic gaps" *International Journal of Engineering Applied Sciences and Technology*, 4(11): 151-159 (2020). <https://www.ijeast.com/papers/151-159.Tesma411,IJEAST.pdf> (ISSN No. 2455-2143).
16. **Aayush Kumar**. "Seismic Isolation & Energy Dissipation System for Earthquake Resistant Design" *International Journal of Engineering Applied Sciences and Technology*, 4(12) 362-372, (2020). <https://www.ijeast.com/papers/362-372.Tesma412,IJEAST.pdf> (ISSN No. 2455-2143).

NATIONAL CONFERENCE'S

17. Piyush Kumar, Vinay Bhushan Chauhan, **Aayush Kumar**, "Stability Analysis of Strip Footing Above Circular Tunnels in Rock under Various Load Conditions" *Indian geotechnical conference* (2023) **Paper ID- 270**, Accepted for publication in Scopus indexed book chapter as lecture note in civil engineering.

COMMUNICATED



18. **Aayush Kumar** and Vinay Bhushan Chauhan “Adaptive FEA and Machine Learning-Based Analysis of Strip Footing Behavior on the Single Lined Horseshoe Shaped Tunnel in Rock Mass under Uniform Distributed Load” *Journal of Mountain Science*; Manuscript ID: **25-10197 Major Revision (Status: Revision Submitted)**
19. **Aayush Kumar** and Vinay Bhushan Chauhan “Analysis of Excavation Damage Zone Around Horseshoe Shaped Tunnels Below Shallow Foundation Using FELA and ML” communicated in *Mechanics Based Design of Structures and Machines*; Manuscript ID: **263835877 (Status: Under Review)**
20. **Aayush Kumar** and Vinay Bhushan Chauhan “Potential Utilization of Structural Skirts Under Concentric & Eccentric Loading to Enhance the Bearing Capacity of Shallow Foundation over Reinforced Sand Using FELA” will be communicated in *Journal of Structural Integrity and Maintenance*. Manuscript ID: **266830080 (Status: Under Review)**
21. Anish Kumar, **Aayush Kumar** and Vinay Bhushan Chauhan “Machine Learning Framework for Stability Prediction of Square Tunnel in Sloping Rock Mass under Surcharge Loading” will be communicated in *Transport infrastructure and Geotechnology*. Manuscript ID: **65d01072-16fe-464b-ac2b-b11afe84b2e4 (Status: Under Review)**
22. Samreen Bano, Vikas Singh, Aayush Kumar and Zishan Raza Khan “High-Volume Recycling of Construction and Demolition Waste in Paver Block Production” communicated in *Journal of Materials in Civil Engineering*; Manuscript ID: **MTENG-23059 (Status: Submitted)**
23. Vikash Singh, Samreen Bano, Vinay Bhushan Chauhan, Aayush Kumar and Madan Chandra Maurya “Sustainable Stabilization of Silty Sand Soil Using Plant-Based Enzyme Terrazyme” communicated in *Indian Geotechnical Journal* Manuscript ID: **IGTJ-D-25-00607 Major Revision (Status: Under Review)**
24. Vikash Singh, Samreen Bano, **Aayush Kumar**, Syed Aqeel Ahmad and Zishan Raza Khan “Red Mud in Sustainable Construction: Potential and Challenges in Pavement and Geotechnical Applications” *Discover Civil Engineering*, Manuscript ID: **e57562e2-2200-4e16-b239-7e4824f1817d (Minor Revision) (Status: Submitted)**

YET TO BE COMMUNICATED

25. Nabeel Ahmad and **Aayush Kumar** “Design Optimization and Stability Evaluation of Footing–Tunnel Systems in Soil Mass Using Limit Analysis” will be communicated in *Transport infrastructure and Geotechnology*.
26. Shahbaz Ahmad Mir and **Aayush Kumar** “Tunnel Stability and Support Requirements for Square Tunnels: Insights from Limit Analysis” will be communicated in *Geotechnical Geological Engineering*.
27. Manubolu Monicasree and **Aayush Kumar** “Performance-Based Design of Tunnel Geometry and Lining Thickness for Foundation Stability Using AFELA” will be communicated in *Geotechnical Geological Engineering*.
28. Arshad Hameed and **Aayush Kumar** “Machine Learning-Aided Limit Analysis of Dual Tunnel Stability and Tunnel Support Design” will be communicated in *Transport infrastructure and Geotechnology*.

PEER-REVIEWED INTERNATIONAL JOURNALS’ REVIEWER

S. No.	Journal Name	Library	ISSN	Impact Factor/ Indexing	No of papers
1.	Scientific Reports	Nature	ISSN 2045-2322 (online)	3.8 (5 years) Q1 SCIE	04
2.	International Journal of Geomechanics	ASCE	ISSN (print): 1532-3641 ISSN (online): 1943-5622	3.5 (5 years) Q1 SCIE	01
3.	Environmental Earth Science	Springer	ISSN (print): 1866-6299 ISSN (online): 1866-6280	3.0 (5 years) Q2 SCIE	01
4.	Geotechnical and Geological Engineering	Springer	ISSN (print): 1573-1529 ISSN (online): 0960-3182	2.0 (5 years) Q1 ESCI	02
5.	Discover Civil Engineering	Springer	ISSN (online): 2948-1546	NA	04
6.	International Journal of Geo-Engineering	Springer	ISSN (online): 2198-2783	7.1 (2024) Q1 ESCI	04
7.	Discover Geoscience	Springer	ISSN (online): 2948-1589	NA	03
8.	Discover Artificial Intelligence	Springer	ISSN (online): 2731-0809	NA	02



9.	Transportation Infrastructure Geotechnology	Springer	ISSN (online): 2196-7210 ISSN (print): 2196-7202	2.3 (5 years) Q2 ESCI	01
10.	Bulletin of Engineering Geology	Springer	ISSN (online): 1435-9537 ISSN (print): 1435-9529	4.8 (5years) Q1 SCIE	02
11.	Processes	Springer MDPI (Switzerland)	EISSN 2227-9717	2.8 (5years) Q2 SCIE	04
12.	Innovative Infrastructure Solutions	Springer	ISSN (print): 2364-4176 ISSN (online): 2364-4184	2.2 (5years) Q2 ESCI	01
13.	Symmetry	Springer MDPI SUSY (Switzerland)	(ISSN 2073-8994)	2.2 (5years) Q2 ESCI	02
14.	Discover Materials	Springer	Electronic ISSN 2730-7727	5.1 (5years) Q1 ESCI	01
15.	Discover Applied Science Formerly <i>SN Applied Sciences</i>	Springer	Electronic ISSN 3004-9261	2.8 (5years) Q* ESCI	01
16.	Engineering Applications of Artificial Intelligence	Elsevier	Online ISSN: 1873-6769 Print ISSN: 0952-1976	8.0 (cite score 9.5) Q1 SCIE	02
17.	CMES - Computer Modeling in Engineering and Sciences	Elsevier	Online ISSN: 1526-1506 Print ISSN: 1526-1492	5.3 (cite score 9.5) Q1 SCIE	01
Total reviewed papers					= 36*

CONFERENCE/ WORKSHOP/ FDP / STTP CONDUCTED

- Served as an **Organising Secretary/Member** for the All-India Conference on *Advanced Civil Engineering Practices for Sustainable Infrastructure Development (ACED-2025)*, jointly organised by The Institution of Engineers (India), U.P. State Centre, and the Indian Geotechnical Society (Allahabad & Lucknow Chapters), held on 28–29 November 2025. Received a *Certificate of Appreciation* in recognition of valuable contribution to the conference's success.

CONFERENCE/ WORKSHOP/ FDP / STTP ATTENDED

- Participated in NEP 2020: Orientation and Sensitization Programme under Malaviya Mission Teacher Training Programme (MMTTP) of UGC organized by UGC Malaviya Mission Teacher Training Centre, Aligarh Muslim University, Aligarh from 2nd September 2025 to 11th September 2025 and obtained Grade 'A+'.
- Attended Faculty Development Program on 'Geotechnical Innovations for Sustainable & Disaster-Resilient Infrastructure (GeoInnovate2025)' organized by Sasi Institute of Technology and Engineering, Tadepalligudem, AP in association with Indian Geotechnical Society Tadepalligudem Chapter from 15th September 2025 to 19th September 2025.
- Attended online training program on Become a Smart Researcher: Essential Tips to navigate Springer Nature Platforms Organised by Springer Nature for One Nation One Subscription (ONOS) member institutions on 15th July 2025.
- Attended online training program on “Navigate the World of Scientific Article Writing: From Manuscript Structure to publication” Organised by Springer Nature for One Nation One Subscription (ONOS) member institutions on 15th May 2025.
- Attended online training program on “Become a Smart Researcher: Essential Tips and Step-by-Step to ONOS and Springer Nature Platforms” Organised by Springer Nature for One Nation One Subscription (ONOS) member institutions on 17th April 2025.
- Attended online training program on “How to Navigate Springer Nature Platforms to access all journals” Organised by Springer Nature for One Nation One Subscription (ONOS) member institutions on 19th March 2025.



- vii. Attended faculty development program on "*Sustainable Construction and Materials and Green Technologies in Civil Engineering*" organized by Department of Civil Engineering, Integral University Lucknow in association with SERB India on August 24, 2024.
- viii. Attended Indian Geotechnical Conference 2023 on "*Geotechnical Advances in sustainable Infrastructure Development and Risk Reduction*" organized by IIT Roorkee UP India held on 14-16 December 2023.
- ix. Attended one day workshop on "*Empowering through Standards: A comprehensive sensitization workshop*" organized by University Standard Club (USC) MMMUT & Bureau of Indian Standards (BIS) on 8th December 2023.
- x. Attended faculty development program organized by ISRO-DMS Capacity Building Programme Awareness workshop on "*Geotechnical Engineering Revolution: Harnessing Geospatial Techniques*" in MNIT, Prayagraj, Uttar Pradesh, India held on October 31, 2023.
- xi. Attended Academic and Professional Development Webinar Series-2023 on "*Deep foundation construction for modern bridges*" organized by Deep foundation institute of India held on 20th April 2023.
- xii. Attended Academic and Professional Development Webinar Series-2023 on "*A Review of Ground Anchors: Design and Construction*" for modern bridges" organized by Deep foundation institute of India held on 17 March 2023.
- xiii. Participation in the "*National IP Awareness Mission*" (NIPAM) held on 15/12/2022 Sponsored by Govt. of India, Ministry of Commerce and Industry, Department for Promotion of Industry, and Internal Trade.
- xiv. Attended AICTE Sponsored one-week faculty development programme on "*Technological Advancements in Civil Engineering*" organized by Department of Civil Engineering MMMUT Gorakhpur, Uttar Pradesh, 273001 Held in between 05/12/2022 to 9/12/2022.
- xv. Attended one day National Workshop on "*Sustainable Technology Development for Energy & Water Sector*" (STDEWS-2022) organized jointly by Mechanical and civil engineering departments, KIPM engineering college and Indian Desalination Association (InDA) in association with AKTU Lucknow and MMMUT, Gorakhpur on 24th November 2022.
- xvi. Attended one week Faculty Development Program on "*Laboratory Experiments Using Virtual Lab in Civil Engineering*" organized by Department of Civil Engineering Madan Mohan Malaviya University of Technology (MMMUT) Gorakhpur, Uttar Pradesh, India held on 21 to 25 September 2020.
- xvii. Attended an international webinar on "*Earthquake early warning system: Its relevance for India*" organized by Indian society of earthquake technology (ISET), IIT Roorkee, U.K, India held on 27th June 2020.
- xviii. Attended an international webinar on "*Supplemental Damping and Energy dissipation Devices*" organized by Indian society of earthquake technology (ISET), IIT Roorkee, U.K, India held on 20th June 2020.
- xix. Attended an international webinar on "*Seismic Response of Retaining Walls*" organized by Indian society of earthquake technology (ISET), IIT Roorkee, U.K, India held on 6th June 2020.
- xx. Participated in National Level E-Quiz on Engineering Certification(S) on "*Hydrology & Irrigation Engineering*" Organized by Institution of engineers in association with Institute of technology & Management (ITM) securing 88%. Held on 6th – 13th June 2020.
- xxi. Attended an international webinar on "*Engineering Preparedness for Earthquake Disaster Mitigation*" organized by Indian society of earthquake technology (ISET), IIT Roorkee, U.K, India held on 3rd June 2020.
- xxii. Attended seminar on "*Advance Professional Writing workshop*" jointly organized by Humanities and Management Science Department, Madan Mohan Malaviya University of Technology (MMMUT) Gorakhpur, U.P, India & IEEE India council on May 12, 2020.
- xxiii. Attended one-week short term training program under twinning activity of TEQIP-III on "*Performance Evaluation for Improved Design and Engineering of Buildings*" organized by Department of Civil Engineering Madan Mohan Malaviya University of Technology (MMMUT) Gorakhpur, Uttar Pradesh, India held on 16th – 20th September 2019.

AWARDS & RECOGNITIONS

S. N	Award Type	From	Date
1.	Primer Research Award	MMMUT, Gorakhpur	7 th April 2025
2.	Commendable Research Award	MMMUT, Gorakhpur	7 th April 2025

Note: Received all the research award by **Chief Minister** of Uttar Pradesh **Shri Yogi Aditya Nath Ji Maharaj** with a price money of **90000/- Rupees**.

- Qualified written exam and appeared in interview for position of **Assistant Professor** (Regular) in year 2025 of civil engineering department, MMMUT Gorakhpur.



- Qualified “**Preliminary Eligibility Test**” (PET) of 2025 organised by UPSSC in year 2025.

SKILLS & APPRICIATION

- Served as Event Coordinator for the college fest “ASTITVA 2021” at Mahamanav Gautam Buddha Polytechnic.

MEMBERSHIPS

- Senior Member (S.M. ASCE), American Society of Civil Engineers (ASCE), Member ID: 12355786.
- Individual Member, Deep Foundations Institute (MDFI), Membership ID: MBR-13527
- [Life membership of Indian Geotechnical Society](#) (IGS Membership No: LM6035) ([View](#))

POR/RESPONSIBILITIES

S. N	Position / Role	Organization / Department	Duration
1	Deputy Quality Manager (Dy. QM)	Civil Laboratories, Integral University, Lucknow (NABL Accredited)	19 Dec 25 to 30-June-26
2	NABL Coordinator	Civil Laboratories, Integral University, Lucknow	19 Dec 25 to 30-June-26
3	Departmental Sports Coordinator	Department of Civil Engineering, Integral University, Lucknow	21 Aug 26 to 30-June-26
4	Website & Social Media Coordinator	Department of Civil Engineering, Integral University, Lucknow	21 Aug 26 to 30-June-26

SUBJECT TAUGHT

S.N	Level	Code	Course Title	University/College	Remarks
1.	UG	CE231	Geotechnical Engineering	Integral University	Offered in Odd Sem
2.	UG	CE331	Advanced Design of Reinforced Concrete	Integral University	Offered in Odd Sem
3.	PG	CE550	Organization and Legislations	Integral University	Offered in Odd Sem
4.	PG	CE583	Ground Improvement & Geosynthetics	Integral University	Offered in Odd Sem
5.	PG	CE693	Tunnel Technology	Integral University	Offered in Odd Sem
6.	PG	CEE582	Clay Mineralogy and Expansive Soil	Integral University	Offered in Odd Sem
7.	PG	CE590	Rock Engineering	Integral University	Offered in Even Sem
8.	PG.	CE532	Design and Operations of Water and Wastewater Treatment	Integral University	Offered in Even Sem
9.	UG.	CE317	Ground Improvement Techniques	Integral University	Offered in Even Sem
10.	UG.	CE316	Sustainable Construction Techniques	Integral University	Offered in Even Sem
11.	UG.	CE234	Design of Reinforced Concrete Elements	Integral University	Offered in Even Sem
12.	UG.	AE259	Watershed Hydrology	Integral University	Offered in Even Sem

POSTGRADUATE & DOCTORAL THESIS SUPERVISION

S.N	Name of the Student(s)	Date of Registration	Date of Submission	Year of Completion / In Progress	Name of Institute	Title of Dissertation / Thesis	Guide / Co-guide
1	Arshad Hameed	28-07-2024	30-06-2026	Completed	Integral University, Lucknow	Machine Learning-Aided Limit Analysis of Dual Tunnel Stability and Tunnel Support Design	Guide
2.	Shahbaz Ahmad Mir	28-06-2024	30-06-2026	Completed	Integral University, Lucknow	Tunnel Stability and Support Requirements for Square Tunnels: Insights from Limit Analysis	Guide
3.	Manubolu Monicasree	28-07-2024	—	In Progress	Integral University, Lucknow	Performance-Based Design of Tunnel Geometry and Lining Thickness for	Guide



						Foundation Stability Using AFELA [Tentative]	
4.	Nabeel Ahmad Ansari	28-09-2025	—	In Progress	Integral University, Lucknow	Design Optimization and Stability Evaluation of Footing–Tunnel Systems in Soil Mass Using Limit Analysis [Tentative]	Guide
5.	Hamza Imran	28-09-2025	—	In Progress	Integral University, Lucknow	Advanced Numerical Analysis of Soil-Nailed Slopes: Parametric Insights into Design and Performance [Tentative]	Guide
6.	Ruban Khan	28-09-2025	—	In Progress	Integral University, Lucknow	Performance Evaluation and Design Optimization of Wrap-Around Geogrid Reinforced Slopes Supporting Shallow Foundations [Tentative]	Guide

RESEARCH PROFILE LINKS

Web of Science	Researcher ID: AEC-2193-2022 https://www.webofscience.com/wos/author/record/AEC-2193-2022
Scopus ID	58306689000 https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=58306689000
ORCID ID	https://orcid.org/0000-0002-6939-885X
ResearchGate	https://www.researchgate.net/profile/Aayush-Kumar-12
Google Scholar ID	https://scholar.google.com/citations?user=aeqGkCgAAAAJ&hl=en Total Citations: 150⁺; h-index: 10[*]; i10-index: 7[*] (29/07/2026)

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REFERENCES

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I do hereby declare that the information and facts stated here in above are true, correct and complete to the best of my knowledge and belief.

Place: Lucknow

Date: **02nd / July / 2026**

(Dr. Aayush Kumar)



Media Coverage

Honoured and humbled to share that I've received the "Premier Research Award" & "Commendable Research Award" 2025 for excellence in research and innovation from Hon'ble CM Yogi Adityanath Maharaj Ji. This recognition from Madan Mohan Malaviya University of Technology, Gorakhpur marks a proud milestone in my academic journey.

सौ शिक्षकों व शोधार्थियों को सीएम ने किया पुरस्कृत
सीएम ने उत्कृष्ट शोध व पेटेंट के लिए सम्मानित किया। इलेक्ट्रॉनिक्स इंजीनियरिंग के विभागाध्यक्ष प्रो. एसके सोनी को सर्वाधिक 1,36,800 रुपये की पुरस्कार राशि प्रदान की। इनके अलावा केमिस्ट्री के प्रो. राजेश यादव, भौतिकी के प्रो. डीके द्विवेदी, इलेक्ट्रॉनिक्स की डा. पूजा लोहिया, सिविल के डा. विनय भूषण चौहान व मैकेनिकल इंजीनियरिंग के डा. देवेश कुमार को फैकल्टी प्रीमियम रिसर्च अवार्ड से सम्मानित किया। शोधार्थियों शोफाली मिश्रा, आयुष कुमार, रामजी त्रिपाठी, सुषमा स्वराज, अमित शर्मा और प्रज्ञा मिश्रा को भी सीएम ने सम्मानित किया। एमएमयूटी के करीब 100 शिक्षकों को उत्कृष्ट शोध व पेटेंट के लिए पुरस्कृत किया गया। विश्वविद्यालय द्वारा शुरू किए गए 'टैलेंट इंसेंटिव स्कीम' के तहत इन शिक्षकों व विद्यार्थियों को करीब 12.78 लाख रुपये की पुरस्कार राशि प्रदान की गई।



लेफ्ट: डा. सोनी जी। राइट: सीएम ने आज प्रमुख एमएमयूटी विभागों के अध्यक्षों को सम्मानित किया।

91.22 करोड़ रुपये की लागत से 13 विकास कार्यों के लोकार्पण-शिलान्यास कार्यक्रम में सीएम योगी आदित्यनाथ का अहान

एमएमयूटी देश के टॉप 50 संस्थानों में आए: योगी

संबोधन

गोरखपुर, मित्र समाजवादी पुरस्कार प्रोग्राम अतिथि के रूप में सीएम योगी आदित्यनाथ ने आज विश्वविद्यालय (एमएमयूटी) के अध्यक्ष, प्रमुख अधिकारी, शिक्षक व शोधार्थियों को सम्मानित किया।



एमएमयूटी में डा. सोनी जी। राइट: सीएम ने आज प्रमुख एमएमयूटी विभागों के अध्यक्षों को सम्मानित किया।

महर्षि मनीषा समक विकास की पोषक

वर्षों में उन्नति के लिए हमें विकास की आवश्यकता है। विकास ही हमारे देश की पहचान है। विकास ही हमारे देश की शक्ति है। विकास ही हमारे देश की गरिमा है। विकास ही हमारे देश की प्रतिष्ठा है। विकास ही हमारे देश की उन्नति है।

एआई पर फोकस करें छात्र: रयि किरण

आज के युग में छात्रों को एआई के प्रति जागरूक होना चाहिए। एआई ही हमारे देश की भविष्य है। एआई ही हमारे देश की शक्ति है। एआई ही हमारे देश की गरिमा है। एआई ही हमारे देश की प्रतिष्ठा है। एआई ही हमारे देश की उन्नति है।

कृषि में प्रसन्नता की प्राप्ति

कृषि ही हमारे देश की आधारशिला है। कृषि ही हमारे देश की शक्ति है। कृषि ही हमारे देश की गरिमा है। कृषि ही हमारे देश की प्रतिष्ठा है। कृषि ही हमारे देश की उन्नति है।

91.22 करोड़ की परियोजनाओं का लोकार्पण शिलान्यास किया

सीएम योगी आदित्यनाथ ने आज 91.22 करोड़ रुपये की लागत से 13 विकास कार्यों के लोकार्पण शिलान्यास किया।

