

## CURRICULUM VITAE

**Prof (Dr) S. ANBU KUMAR**

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<b>Areas of Interest</b>
<ul style="list-style-type: none"><li>➤ Hydraulics &amp; Water Resources Engineering</li><li>➤ Fluid Structure Interaction</li><li>➤ Hydraulic Structures</li></ul>

### **Work Experience**

<b>Organization</b>	<b>Designation</b>	<b>Profile</b>	<b>Duration</b>
Deptt. of Civil Engg., Delhi Technological University (Formerly Delhi College of Engineering), Delhi	Professor	To teach & guide undergraduate & postgraduate engineering students	04 <sup>th</sup> January 2018 to till date
Deptt. of Civil Engg., Delhi Technological University (Formerly Delhi College of Engineering), Delhi	Associate Professor	To teach & guide undergraduate & postgraduate engineering students	30 <sup>th</sup> August 2012 to 03 <sup>rd</sup> January 2018
Deptt. of Civil Engg., Delhi Technological	Assistant Professor	To teach & guide undergraduate & postgraduate engineering students	30 <sup>th</sup> August 2009 to 30 <sup>th</sup> August 2012

University (Formerly Delhi College of Engineering) Delhi	(Selection Grade)		
Deptt. of Civil Engg., Delhi College of Engineering, Delhi	Senior Lecturer	To teach & guide undergraduate & postgraduate engineering students	30 <sup>th</sup> August 2004 to 30 <sup>th</sup> August 2009
Deptt. of Civil Engg., Delhi College of Engineering, Delhi	Lecturer	To teach & guide undergraduate & postgraduate engineering students	30 <sup>th</sup> August 1999 to 30 <sup>th</sup> August 2004
Deptt. of Ocean Engg., IIT MADRAS	Project Associate	To work and prepare consultancy for the sponsored research project	27 <sup>th</sup> January 1997 to 27 <sup>th</sup> August 1999

<b>Personal Details</b>	
<b>Date of Birth</b>	: 12 <sup>th</sup> March 1973
<b>Father's Name</b>	: Srinivasan .K
<b>Gender</b>	: Male
<b>Nationality</b>	: Indian
<b>Address for communication :</b>	Department of Civil Engineering, Delhi Technological University (Formerly Delhi College of Engineering) Bawana Road Delhi-110042, India

### **Papers published in International Journals and International Conference:**

1. M. Sivasankaravel, **S. Anbukumar**, R. Sundaravadivelu and A.K Patnaik, Environmental Risk Assessment of Sedimentation in Chlka Lake, Orissa, International Conference on Environment Challenges for the new millennium Nov. 25-27, 1999, pp. 504 to 510 organized by Faculty of Technology, Jamia Millia Islamia, New Delhi-110025.
2. Neelamani, S.R. Sundaravadivelu and **S. Anbukumar**. Hydro dynamics of Oscillating Water Column caisson Breakwaters supported on piles, International Conference on ship and marine Technology Dec. 19-20, 2000, Kochi, Kerala, pp 193-202, Cochin University of Science and Technology.
3. **S. Anbu kumar** and S.V. Srinivasan. Toxicity As a parameter for control of water pollution in Industries.3rd International Conference on Environment and Health Dec. 15-18, 2003, Chennai.
4. **S. Anbu kumar**, A. Chatterjee and N. Anand, Agri Chemical Approaches to reduce Agrichemical contamination of ground water. Second International Conference Ground Water for Sustainable Development - Problems, Perspectives and Challenges. S.,1-4 Feb. 2006 at India International Centre, organized by Jawahar Lal Nehru University.
5. **S. Anbu Kumar** and Amit Kumar Shrivastava, Agrichemical Contamination of coastal Groundwater, Coastal Zone Environment and Sustainable Development-Vulnerability, Adaptation and Beyond12-14 Feburary2007, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India-110067.
6. **S. Anbu kumar**, Carrier opportunities in Naval Architecture and Ocean Engineering, Article Published in Employment News, Vol. XXXIV NO.46, February 2010, Published by Ministry of I&B, Govt of India.
7. Ashok Kumar, **S. Anbu kumar**, and Amit Kumar Shrivastava, A Preliminary Study unveiling the Concept of Hemispherical Hull Structure For FPSOs - with special emphasis on Fatigue damage, ASME 2010, 29th International Conference on Ocean, Offshore and Arctic Engineering: Volume 2,Shanghai, China, June 6–11, 2010, pp. 363-368, ISBN: 978-0-7918-4910-1 | eISBN: 978-0-7918-3873-0.
8. Munendra Kumar, Amit kumar Shrivastava and **S. Anbu Kumar**, Stability of fluid flow through a compliant pipe with interface interventions by Energy Balance method for higher order of non-axisymmetric disturbances ( n=3 modes) Journal of ship Technology Vol.7, No.1, January 2011, pp 57-66.
9. **S. Anbu Kumar**, Munendra Kumar and Vivek Kumar Singh, Effect of Temperature on Strength & Stress-Strain Relationship for the Higher, Grade of Concrete., International Journal of Earth Sciences and Engineering, Vol. 05, No.02 April 2012, P.P. 322-326.

10. **S. Anbu Kumar**, Munendra Kumar, Hydrodynamic Stability of Fluid Flow through A Flexible Tube by Energy Method for Non-Axisymmetric Disturbances, International Journal of Earth Sciences and Engineering, Vol. 10, No.03 June 2017, P.P. 693-696.
11. **S. Anbu Kumar**, Munendra Kumar, Hydrodynamic Stability of Complaint Pipe for Normal Compliance paper published in the Open Journal of Ocean and Coastal Sciences (OCS) P.P. 48-60, Volume 2, Number 1 2015, ISSN(Print): 2377-0007 ISSN(Online):2377-0015
12. **S. Anbu Kumar**, Munendra Kumar, Stability of Visco-elastic material through a pipe flow with axi-symmetric disturbances published in the Journal of (Elsevier), Materials Today: Proceedings 4 (2017) 10202–10206, Volume 4/5, August 2017, ISSN(Print): ISSN(Online).
13. **S Anbu kumar**, Siddharth Upadhyay, Restricting Hydraulic Jump Location inside stilling Basin for Maximum Energy Dissipation International Research Journal of Engineering and Technology, Volume:04, Issue:08, August 2017, e-ISSN: 2395-0056, p-ISSN: 2395-0072
14. **S. Anbu Kumar**, N.Thakural, Mohd. Izharuddin Ansari, Trend Analysis of Rainfall for the Chaliyar Basin, South India International Journal for Research in Applied Science & Engineering Technology ISSN: 2321-9653; IC Value: 45.98, Volume 6 Issue VII, PP-91-100, July 2018.
15. Mohd Izharuddin Ansari, L. N. Thakural and **S. Anbu Kumar**, Streamflow Modelling for a Peninsular Basin in India Lecture Notes in Civil Engineering, Smart Cities – Opportunities and Challenges Select Proceedings of ICSC 2019, Volume 58,P.P 645-660, Indexed by Scopus and Compendex, ISSN 2366-2557, ISSN 2366-2565 (electronic), Springer Nature Singapore Pte Ltd.
16. Piyush Ghiya, **S. Anbu Kumar**, Pratik Joshi, Samiksha Shrivastava “Effect of Rainfall on Groundwater Quality in the Delhi-NCR Region”, International Journal of Pharmaceutical Research, ISSN: 0975-2366, 2020.
17. Aakshi Ravi Rai, Aakarsh Singh, Himanshu Meena & **S. Anbu Kumar**, A Comparative Study Between Morning and Evening Traffic Flow at a Major Arterial Road Section in New Delhi International Journal of Advanced Science and Technology Vol. 29, No.4, (2020), pp. 4878 – 4888.
18. Abhishek Singh, S Anbu Kumar, Design & Analysis of 100KW Hydro Power Energy Production in Rural Sectors of Ganga River Basin, Solid State Technology Vol.63.No.2s(2020), 3400-3414
19. Kotra Girish, **S. Anbu Kumar**, Soil Loss Assessment in Kesinga Watershed Using USLE, Solid State Technology Vol.63.No.2s (2020), pp. 5127-5140.

20. Uzair Khan, Rajat Verma, Rizwan Ahmad Khan, **S. Anbu Kumar**, Harshit Varsheny, Application of machine learning and artificial intelligence in civil engineering: Review (2021). Recent Trends in Communication and Electronics: Proceedings of the International Conference on Recent Trends in Communication and Electronics (ICCE-2020), Ghaziabad, India, 28-29 November, 2020 (1st ed.). CRC Press. <https://doi.org/10.1201/9781003193838>
21. Pal, S., Raj, R., and **Anbukumar, S.** (2021). Comparative study of wind induced mutual interference effects on square and Fish-plan-shape tall buildings, Sādhanā, Indian Academy of Sciences 46:86. <https://doi.org/10.1007/s12046-021-01592-6>
22. **S. Anbu Kumar**, Abhay Kumar, Aditya Dhanraj, Ashish Thakur Earthquake Prediction using Machine Learning International Research Journal of Engineering and Technology (IRJET) Volume: 08 Issue: 05 | May 2021, e-ISSN: 2395-0056, p-ISSN: 2395-0072 P.P 3105-3122
23. Aggarwal, A., Mandal, A. and **S. Anbu kumar**, Relation of downscaled temperature and precipitation, and aerosol optical depth with mass balance of an eastern Himalayan glacier, Abstract ID 883133, Paper no. C34C-10, Accepted in Session: C025 Observations and Models of Glacier Change III (session id 124694), American Geophysical Union, New Orleans, LA, USA 13-17 Dec 2021, presented on 15th Dec 2021. <https://agu.confex.com/agu/fm21/webprogrampreliminary/Session124694.html>
24. Anubha Aggarwal, Anubha Mandal, **S. Anbu kumar**, Estimation of Past and Future Mass Balance of Glaciers of Sikkim Himalaya Using Energy Balance Modelling Approach and Regional Climatic Projections, poster no. PALSEA-A-0003, presented in PALSEA (Paleo-sea level and Ice sheets for Earth's future) 2022 on 18 July in Annual meeting held from 17-20 July 2022 in Singapore.
25. Anubha Aggarwal and **S. Anbu kumar**, Relation of downscaled temperature and precipitation, and aerosol optical depth with mass balance of an eastern Himalayan glacier, presented in Session: 09\_Atmospheric dynamics over cold regions in a large-scale context, id: 246, IMC 2022, Innsbruck, Austria.
26. Lal D., Regmi B., Bhat H.F., **Anbu Kumar S.** (2022) Analysis of Seismic Behavior of Buildings With and Without Shear Walls in Various Seismic Zones and Soil Types. In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering, vol 196. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6557-8\\_17](https://doi.org/10.1007/978-981-16-6557-8_17)
27. Meena, R. K., Raj, R., & **Anbu kumar, S.** (2022b). Estimation of air flow around the tall buildings of different shapes. Proceedings of The International Conference on Research

- Advances In Engineering And Technology - ITechCET 2021.  
<https://doi.org/10.1063/5.0102942>
28. Meena, R.K., Raj, R., **Anbu kumar, S.** (2022). Numerical Investigation of Wind Load on Side Ratio of High-Rise Buildings. In: Gupta, A.K., Shukla, S.K., Azamathulla, H. (eds) Advances in Construction Materials and Sustainable Environment. Lecture Notes in Civil Engineering, vol 196. Springer, Singapore. [https://doi.org/10.1007/978-981-16-6557-8\\_76](https://doi.org/10.1007/978-981-16-6557-8_76)
  29. Verma, A., Meena, R. K., Dubey, H., Raj, R., & **Anbu kumar, S.** (2022). Wind Effects on Rectangular and Triaxial Symmetrical Tall Building Having Equal Area and Height. Complexity, 2022, 1–20. <https://doi.org/10.1155/2022/4815623>
  30. Meena, R. K., Raj, R., & **Anbu kumar, S.** (2022). Estimation of air flow around the tall buildings of different shapes. Proceedings of The International Conference on Research Advances In Engineering And Technology - ITechCET 2021. <https://doi.org/10.1063/5.0102942>
  31. Meena, R.K., Raj, R. & **Anbu kumar, S.** Effect of wind load on irregular shape tall buildings having different corner configuration. *Sādhanā* **47**, 126 (2022). <https://doi.org/10.1007/s12046-022-01895-2>
  32. Aggarwal, M., **Anbu kumar, S.** & Vijaya Kumar, T. Heavy metals concentrations and risk assessment in the sediment of Ganga River between Kanpur and Prayagraj, U.P., India. *Sādhanā* **47**, 195 (2022). <https://doi.org/10.1007/s12046-022-01972-6>
  33. Anubha Aggarwal, **S. Anbu kumar**, Monika Koul, Glaciology: An interesting and adventurous career, *Science reporter*, vol. 59, issue 11, pp. 29-31, November 2022
  34. Kasana, D., Tayal, D., Choudhary, D., Raj, R., Meena, R. K., & **Anbu kumar, S.** (2022b). Evaluation of aerodynamic effects on a tall building with various cross-section shapes having equal area. *Forces in Mechanics*, 9, 100134. <https://doi.org/10.1016/j.finmec.2022.100134>
  35. Meena, R. K., Raj, R., & **Anbu kumar, S.** (2022b). Comparative Study of Wind Loads on Tall Buildings of Different Shapes. *Lecture Notes in Mechanical Engineering*, 225–235. [https://doi.org/10.1007/978-981-19-3410-0\\_18](https://doi.org/10.1007/978-981-19-3410-0_18)
  36. Meena, R. K., Raj, R., & **Anbu kumar, S.** (2022b). Wind Excited Action around Tall Building Having Different Corner Configurations. *Advances in Civil Engineering*, 2022, 1–17. <https://doi.org/10.1155/2022/1529416>
  37. Pal, S., Raj, R., **Anbu kumar, S.** (2023). Effect of Isolated Wind Incidence on Local Peak Pressure. In: Ranadive, M.S., Das, B.B., Mehta, Y.A., Gupta, R. (eds) *Recent Trends in Construction Technology and Management. Lecture Notes in Civil Engineering*, vol 260. Springer, Singapore. [https://doi.org/10.1007/978-981-19-2145-2\\_70](https://doi.org/10.1007/978-981-19-2145-2_70)

38. Aggarwal, A., **Anbu kumar, S.**, and Mandal, A. 2023, A Climate Change Study: Downscaling of Climatic Parameters and Their Assessment Over East Rathong Glacier of Eastern Himalayan Region, vol. 9, issue 2, pp. 1 – 9. (IF: 0.6, ESCI, <https://www.iospress.com/catalog/journals/journal-of-climate-change>)
39. Pujari, S., Kaushik, V., **Kumar, S. Anbu.** A Review of Energy Dissipation on Different Types of Spillways. International Conference on Advances in Civil Engineering, held on 20-22 December 2022, organized by Technology Research and Innovation Centre, India and hosted by LSKBJ College of Engineering, Chanwad, Nashik, India.
40. Pujari, S., Kaushik, V., **Kumar, S. Anbu.** (2023). Prediction of Energy Dissipation over Stepped Spillway with Baffles Using Machine Learning Techniques. *Civil Engineering and Architecture*, 11(5), 2377-2391. DOI: 10.13189/cea.2023.110510.
41. Aggarwal, M., Anbukumar, S., & Kumar, T. V. (2023). Analysis and pollution assessment of heavy metals in suspended solids of the middle stretch of river Ganga between Kanpur to Prayagraj, UP, India. *Sādhanā*, 48(4), 257.
42. Aggarwal, A., Anbukumar, S., & Mandal, A. (2023). A Climate Change Study: Downscaling of Climatic Parameters and Their Assessment Over East Rathong Glacier of Eastern Himalayan Region. *Journal of Climate Change*, 9(2), 1-9.
43. Khan, Z. A., Jain, N., & Anbu Kumar, S. (2022). Optimization of convergent angle of the Venturi meter for best coefficient of discharge. *Water Supply*, 22(12), 9023-9040.
44. Kasana, D., Tayal, D., Choudhary, D., Anbukumar, S., Raj, R., & Meena, R. K. (2023, July). Impact of wind effects on high-rise buildings having varying cross sections. In *AIP Conference Proceedings* (Vol. 2721, No. 1). AIP Publishing.
45. Singh, I., Paswan, A. P., Raj, R., Anbukumar, S., & Meena, R. K. (2023). Evaluating the impact of wind effects on tall buildings with various plan shapes. *Materials Today: Proceedings*.
46. Aggarwal, M., Anbukumar, S. & Vijaya Kumar, T. Measurement of Heavy Metals Content in Suspended Sediment of Ganges River Using Atomic Absorption Spectrometry. *MAPAN* (2024). <https://doi.org/10.1007/s12647-024-00771-0>
47. Rahul Kumar Meena, Ajay Pratap, Ritu Raj, S. Anbukumar (2024).. Influence of corner geometry on wind-induced forces in tall building models. *Asian J Civ Eng* (2024). <https://doi.org/10.1007/s42107-024-01208-4>

### **Membership of professional Societies**

1. Member, American Society of Civil Engineering (India Section, ASCE-IS:770).
2. Member, Institution of Engineers, India. (M-132849-7)
3. Member, India Geo-Technical Society,(LM – 295) Chennai Chapter.
4. Member, Indian Association for Air Pollution Control, Delhi Chapter.
5. Member, Indian Geo-Technical Society, Delhi Chapter.
6. Life member, Indian Society of Earthquake Technology (LM-1286).
7. Advisory Board Member, International Journal of Engineering, Science and Innovative Technology, ISSN No: 2319-5967 (ISO 9001: 2008 Certified).
8. Associate Editorial Board, International Journal of Research in Engineering & Technology ISSN 2319 – 1163.
9. Advisory Board Member International Journal of Engineering and Innovative Technology (IJEIT) ISSN: 2277-3754
10. Reviewer, Clean Technologies and Environmental Policy, Springer International Journal, ISSN: 1618-954X (Print) 1618-9558 (Online).

### **Conference, Workshop and Seminar participated**

1. International Conference on Ocean Engineering. Dec17-20,1996 at IIT Madras Chennai-36.
2. International Conference on New Perspectives on Water for Urban and Rural India 18-19 Sep. 2001, New Delhi.
3. Seminar on Phased Environmental Management Systems - British Standard 8555, 27-28 Nov. 2003, New Delhi.
4. 3rd International Conference on Environment and Health, Dec. 15-18, 2003, Chennai.
5. Orientation program for engineering teachers organized by Delhi College of Engineering Govt. of NCT of Delhi, during 16-17 Sep. 2003.
6. National Conference on Innovative Approach in the Management of Environment. 17-18 October, 2003 organized by Delhi College of Engineering.
7. An awareness workshop on “Intelligent Transportation Systems - New Horizons” on 5th April, 2005 at Delhi College of Engineering.
8. Workshop on Environmental Justice for Technical Institution at Delhi College of Engineering on 19 Jan. 2006.Govt.of NCT of Delhi.
9. Workshop on Vision India - Construction Industries and Disaster Management on 19th Nov. 2005 at Delhi College of Engineering, Govt.of NCT of Delhi.



10. National Program on Knowledge Power in the World of learning held during August 25-26,2008 at Delhi College of Engineering, Govt. of NCT of Delhi.
11. International Built Environment Technologies Seminar: BETNET 2008 Organized by The Institution of Engineering and Technology (The IET) in association with The IET DCE student on 18th October 2008.
12. A Two day national seminar on Information Security from 02 to 03 February, 2009 at Delhi College of engineering, Delhi.
13. International Workshop on Climate Change and Water Resources in South Asia, 8-10 August, 2009 New Delhi.
14. One day Seminar on CAN and CAN open Technology, organized by department of electrical engineering, DTU on 29<sup>th</sup> September, 2010.
15. Participating in the National Seminar on Sustainable and Innovative Solutions for water woes held on 28<sup>th</sup> March, 2011, at DTU.
16. Seminar-cum-workshop on Mathematics and Computing, held at Department of Applied Mathematics, Delhi Technological University, Delhi on March 22, 2012.
17. International Symposium on Concentrated Solar Power (CSP): Opportunities for India on 23 January, 2012 at Delhi Technological University, Delhi, India.
18. International Symposium on Standards in Engineering and Technology, held at Delhi Technological University from 4-6 October 2012.
19. 2<sup>nd</sup> National Summit on Academia Corporate Interface for Up skilling Leaders of Tomorrow organized by PHD Chamber of Commerce and Industry on 12<sup>th</sup> December 2012 at PHD House, New Delhi.
20. Indo-European workshop on advanced tools for wastewater treatment held at department of chemical engineering, National Institute of Technology, Tiruchirappalli, January 28 – 29, 2013.
21. Attended FARO 3D User Conference 2014, on 19 September 2014, held at THE ASHOK- New Delhi.
22. Participated in the UGC Sponsored One Day "National Seminar on Recent Advances in Physics (NSRAP-2015) held on 16-02-2015 at DTU, Delhi.
23. Attended One day Workshop on “Raising Awareness on Plagiarism and Copyrights Organized by Department of Electronics and Communication Engineering, DTU, Delhi on March 20, 2018.
24. Coordinate the Workshop on “Professional Excellence Through values, Meditation and Self-Management” organized by Centre for Value Based Education, DTU, Delhi on 26<sup>th</sup> July 2019.

### **Short Term Courses attended**

1. Short term course on Port and Harbor Structure under the Continuing Education Program at Ocean Engineering Centre, IIT Madras from 7-11, Dec. 1998.
2. Short term course on Ocean Dynamics for Offshore and Coastal Engineering Applications under the Quality Improvement Program at Ocean Engineering. Center IIT, Madras from 5-9 Jan. 2000.
3. Short term training program on Ocean Engineering, Sponsored by AICTE through ISTE at Dept. of Ocean Engineering, IIT Madras 14-25 May 2001.
4. Training Program on Application GIS and Remote Sensing Technologies for Natural Disasters mitigation's from 31st Mar. to 5th Apr. 2003, Sponsored by Dept. of Science and Technology, New Delhi.
5. Short term Course on Seismic Analysis and design of structure sponsored by NPEEE, at Dept. of Civil Engg., IIT Delhi, from 8-12 Dec. 2003.
6. A short term training program on Script writing and video film production conducted by NITTTR, Chandigarh from 12-23, Jan. 2004.
7. Short term training course on Soil Dynamics and Earthquake Engineering sponsored by NPEEE, at Department of Civil Engineering, IIT Madras from 13th to 17th June 2005.
8. Short term course on Seismic Retrofitting of Building at IIT, Guwahati from 5-9 Dec. 2005 sponsored by NPEEE.
9. Short term course on Structural Dynamics in Earth quake engineering, at IISc Bangalore from Jan. 30 to Feb. 03 2006.
10. Short term course on Earthquake Resistant Design of RC Buildings at IIT Roorkee from 24-29 July 2006.
11. Short term course on Seismic Resistant Design of Masonry and Reinforced Concrete Buildings at IISc Bangalore from 8-13 January 2007.
12. Short term course on Advanced Mechanics of Materials at IIT Madras from 17-22 December 2007.
13. One week training program on "Content Generation for Edusat Network" from 14<sup>th</sup> to 18<sup>th</sup> October, 2008 at Delhi College of engineering.
14. Short term course on To Disseminate New Approach and Provisions of IS: 800-2007(General Construction in Steel) during 2-6, March 2009 at Delhi College of Engineering, Delhi.
15. Short term course on Graphics and Animation for video production at NITTTR, Chennai from 11-10-2010 to 15-10-2010.

16. Short term course on surveying using Total Station & GPS at NITTTR Chennai from 08-11-2010 to 12-11-2010.
17. One week course on Advanced Signal Processing and Embedded Systems organized by IEEE Women in Engineering (WIE) Affinity Group of Delhi Section, from 9-04-2012 to 13-04-2012.
18. Short term course on Computer Aided Drafting and Building Information Modeling Using AutoCAD and revit Architecture Packages at NITTTR Chennai from 18-06-2012 to 29-06-2012.
19. Short term course on Building Maintenance, Water Proofing and general repairs at Pusa Polytechnic, Pusa, New Delhi, organized by NITTTR Chandigarh from 23-07-2012 to 03-08-2012.
20. Attended a QIP Short term course on “Water Resources Management Studies using Geospatial Techniques and Numerical Modeling”, organized by Department of Civil Engineering, IIT Bombay from 08-07-2013 to 12-07-2013.
21. Attended AICTE recognized short term course on Cloud Computing through ICT, conducted by NITTR Chandigarh from 29-07-2013 to 02-08-2013 at Delhi Technological University.
22. Attended AICTE sponsored QIP Short term course on “Modern Control Perspectives in Solid and Fluid Mechanics”, organized by Department of Applied Mechanics and Mathematics, IIT, Madras from 18-01-2014 to 22-01-2014.
23. Attended AICTE recognized short term course on Virtual Instrumentation through ICT, conducted by NITTR Chandigarh from 28-04-2014 to 02-05-2014 at Delhi Technological University.
24. Attended AICTE sponsored QIP Short term course on “Advanced Construction Project Management”, organized by Department of Civil Engineering, IIT, Delhi from 30-06-2014 to 04-07-2014.
25. Attended TEQIP-II sponsored short term course on “Advanced Web Designing Techniques”, organized by Department of Applied Mathematics, DTU, Delhi from 14-25 July 2014.
26. Attended UGC sponsored one week Short Term Training Programme on The Idea Tree: Journey from Inception to Publication from 09-02-2015 to 13-02-2015 organised by the Department of Humanities at DTU, Delhi.
27. Attended TEQIP-II sponsored FDP on “Automation in Manufacturing” organized by Mechanical engg Dept., DTU from May 04 - 15, 2015.

28. Attended TEQIP-II sponsored FDP on Urban Environmental Challenges and their control Strategies organized by Department of Environmental Engineering,DTU,Delhi, during July 13 -17, 2015.
29. Attended TEQIP-II sponsored FDP on Recent Advances and challenges in Power and Energy for Sustainable Growth, organized by Electrical Engineering Department, DTU from 1-6-2015 to 5-6-2015.
30. Attended a GIAN Course on “Intelligent Transportation Systems”, organized by Department of Electronics and Communication Engineering, DTU from 27-11-2017 to 01-12-2017.
31. Attended TEQIP-III sponsored FDP on Emerging trends in Internet of Things and Cyber Security applications in Smart Grid, organized by Electrical Engineering Department, DTU from 12-03-2018 to 16-03-2018.
32. Coordinated the TEQIP-III Sponsored One Day Workshop on “Networking of Technology and Education for Sustainable Development” Organized by Department of Civil Engineering, DTU, Delhi on 12 October 2018.
33. Attended TEQIP-III sponsored FDP on Advances in Surface Engineering, organized by Department of Mechanical Engineering, DTU, Delhi, during May 01 -05, 2019.
34. Attended TEQIP-III sponsored FDP on Earthquake Resistant Design of Structures, organized by Department of Civil Engineering, DTU, Delhi, during May 27 -31, 2019.
35. Member Organizing Committee in TEQUIP-III Sponsored One Week Faculty Development Programme on “Earthquake Resistant Design of Structures” organized by Department of Civil Engineering, DTU, Delhi during May 27-31, 2019.
36. Attended TEQIP-III sponsored FDP on ELECTRONIC DESIGN AUTOMATION AND DOCUMENTATION TOOL, organized by Department of Electronics and Communication Engineering, DTU, Delhi, during July 22 -26, 2019.
37. Attended five-day international webinar on “Sustainable Engineering” from 14-09-2020 to 18-09-2020, organized by Department of Civil Engineering, Andhra University and Department of Energy and Environmental Engineering, CSIR- Indian Institute of Chemical Engineering, Hyderabad.
38. Attended TEQIP-III sponsored FDP on Outcome Based Engineering Education and Accreditation (OBEEA 2020), organized by Electrical Engineering Department, National Institute of Technology Meghalaya from 21-09-2020 to 23-09-2020.
39. Attended online webinar programme on “Prime minister agenda point no. 10: Bring About Greater Cohesion in International Response to Disasters” on 29-09-2020, organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India.

40. Participated in International Level Social Awareness Programme on “Yoga Practices as Exercise Medicine- An Antidote for Physical and Mental Health Management during Pandemic Times” organized by Department of civil Engineering, University College of Engineering, Thirukkuvalai, Nagapattinam on 30-09-2020.
41. Attended one-week international workshop on Durability of Concrete (IWODEC-2020) organized by the Department of civil Engineering, National Institute of Technology- Karnataka, Surathkal from 26-10-2020 to 30-10-2020.
42. Participated as a delegate in the International Workshop on “The joy, Opportunities and challenges in Field Hydrological Research” from 02-11-2020 to 06-11-2020 organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru, and IIT-Guwahati.
43. Attended one week online short-term training programme on Structural Audit for Earthquake safety, organized by National Institute of Disaster Management (MHA, GOI) and Delhi Technological University, Delhi from 24-11-2020 to 28-11-2020.
44. Attended AICTE sponsored Faculty Development Program on “Internet of Things: A Future Outlook in Civil Engineering”- Phase II from 30-11-2020 to 12-12-2020 organized by the Department of Civil Engineering, NSS College of Engineering, Palakkad.
45. Participated in 3<sup>rd</sup> International Conference on Engineering Challenges in Gulf Countries on 22-01-2021. Organized by The Institution of Engineers (India).
46. Attended one-week online Faculty Development Programme organized by University School of Education, GGSIP University on the theme of “National Education Policy 2020: A Road Map for Future India” from 25-31 October 2021.
47. Attended five-day Faculty Development Program (online) on “Sustainable Product Design and Manufacturing” from 10-01-2022 to 14-01-2022, organized by Shri Mata Vaishno Devi University
48. Participated in One Week Faculty Development Program on “Research Essentials” organized by Chandigarh University, Gharuan, Mohali, Punjab held from 31 January to 5 February 2022.
49. Participated in the Ecohydrology Symposium (EHS) 2022 during 28-02-2022 to 01-03-2022 organized by Department of Hydrology, IIT-Roorkee.
50. Participated in One Week Professional Development Program for Faculty (Virtual Mode) on Materials in Civil Engineering organized by Department of civil Engineering, Vignan Institute of Technology & Science, from 21 to 26 March 2022.
51. Attended International Youth Seminar on Heartfulness from 12<sup>th</sup> August to 14<sup>th</sup> August 2022 at Kanha Shanti Vanam and successfully completed 30 hours of Heartful campus module approved by AICTE.

52. Attended workshop on “Teaching the Science of Happiness Experimentation and Mind Lab”, organized by Rekhi Foundation for Happiness held at Delhi Technological University, Delhi on September 29, 2022.
53. Organized “Three Weeks Technical Training Programme: Attachment of DANICS (59<sup>th</sup> Batch) with Delhi Technological university” during 11-29 September 2023.
54. Participated in Training course on “Review of Safety of Hydro Power Projects” Organized by C.W. & P.R.S., Pune during 4<sup>th</sup> to 5<sup>th</sup> October 2023.
55. Attended National Conference on Social Responsibility of Educational Institutional in Context NEP 2020 on 12<sup>th</sup> January 2024, Organized by Centre for Extension and Field Outreach, Delhi Technological University, Delhi

**No. of PG (M.E/M.Tech) Thesis Completed (26)**

S.No.	Thesis Title	Name of the Candidate	Year
1	Design of Rubble Mound Jetty for Kodankulam Atomic Power Project		2002
2	Design of Passenger Jetty at Belugaon, Orissa		2003
3	Design of Trench Drain in Stratified Soil using FEM	Siva Kumar Kumarapu (2004HYD01)	2006
4	Study on Feasibility of Hemispherical Hull Structure for FPSOs	M Ashok Kumar	2009
5	Performance Analysis of Piled Raft Foundation		2010
6	Effect of Temperature on Strength & Stress-Strain Relationship for the Higher, Grade of Concrete	Vivek kr. Singh	2011
7	Comparative Study of Gamma Hydrograph and SUH Methods for Flood Estimation in Ungauged Catchments	Abhay Sharma (2K12/HFE/01)	2014
8	Hydrological Modelling of Sabarmati River using SWAT	NupurVerma ( 2K12/HFE/07)	2014
9	River Training Works with Submerged Vanes at Different Angles	Akhil Gupta (2K12/HFE/12)	2014

10	Study of Turbulent Flow Due to Expansion in Open Channel using Ansys Fluent	Apoorv Shubham Mittal (2K14/HFE/03)	2016
11	Spatio-Temporal Variability of Rainfall & Stream flow Modeling for a Peninsular Basin in India	Mohd Izharuddin Ansari (2K14/HFE/11)	2016
12	Role of Groynes in Controlling River Erosion	Mohd. Amir Jafri (2K13/HFE/10)	2016
13	Analysis of Boundary Shear Stress in Meandering Channel using Ansys Fluent	Yuvaraj (2K15/HFE/16)	2017
14	Controlling the Location of Hydraulic Jump in Rectangular Channel	Siddharth Upadhyay (2K15/HFE/15)	2017
15	Experimental Study on Single and Double Screen type Energy Dissipator for Hydraulic Structure	Ujjawal Kumar Singh (2K16/HFE/19)	2018
16	Experimental and Numerical Simulation of Spaced Rectangular Strip for Energy Dissipation Using Hydraulic Jump	Harshit Kumar Jayant (2K16/HFE/10)	2018
17	Experimental Study of Super-Critical flow through Channel Contraction	Shashank Shekhar (2K16/HFE/17)	2018
18	Prioritization of Sub-Watersheds of Shipra Basin Based on Linear and Shape Parameter using ArcGIS	Yogesh (2K14/HFE/18)	2018
19	Flood Frequency Analysis on River Yamuna	Amit Kumar (2K17/HFE/03)	2019
20	Optimization of Convergent Angle of Venturi meter for the Best Coefficient of Discharge	Naman Jain (2K17/HFE/11)	2019

21	Comparative Study of Low Head Turbine on Energy Production in Isolated Regions of Ganga River Basin	Abhishek Singh (2K18/HFE/01)	2020
22	Soil Loss Assessment in Kesinga Watershed Using Swat and Usle	Kotra Girish (2K18/HFE/07)	2020
23	Study of Aeration Efficiency over the Piano key Weirs	Kanchan Singh (2K19/HFE/11)	2021
24	Flood Frequency Analysis of Adyar River using Gumbel Method and Artificial Neural Network	S. Pragadeeswari (2K19/HFE/21)	2021
25	Study of hydraulic jump for different sequent depth ratios	Daisy Singh (2K20/HFE/03)	2022
26	Prediction of energy dissipation over trapezoidal stepped spillway with baffles	Saurabh pujari (2K21/HFE/04)	2023

#### **Ph.D. Thesis Guided**

<b>S.No.</b>	<b>Thesis Title</b>	<b>Name of the Candidate</b>	<b>Year</b>
1	Effects of Wind Induced Pressure on Tall Buildings with Various Geometries	Supriya Pal (2K18/PHDCE/20)	2022
2	Wind Effects on Tall Building Having Different Corner Configuration Using CFD	Rahul Kumar Meena (2K18/PHDCE/03)	2022



## Ph.D. Thesis On Going

S.No.	Thesis Title	Name of the Candidate	Year
1	Assessment Of Heavy Metal Pollution In Ganga River From Kanpur To Prayagraj Stretch, India	Mohit Aggarwal (2K17/PhD/CE/33)	On Going
2	A Study on Combating Urban Heat Island Effect in Indoor Environment By Green Walls and Roofs	Reenu Verna (2K20/PHDCE/512)	On Going
3	Study of Free Vibration Behaviour of Curved Composite and Sandwich Beams.	Ashish (2K2/PHDCE/507)	On Going

## Consultancy Projects

Sl. No.	Title of the project	Sponsoring Agency	Value of the Project in Lacs (Rs)	PI/Co-PI
1.	Design of two M30 concrete mix	Petron civil engineering Ltd, Mumbai	0.45	Co-PI
2.	Structural Design of underground reservoir	Delhi Jal Board, Govt of NCT of Delhi	0.10	Co-PI
3.	Testing of cement materials	Public Works Department, Delhi	0.10	Co-PI
4.	Testing of concrete cubes	Power Grid corporations of India Ltd,	0.28	Co-PI
5.	Proof checking of structural design of DCHFC office building	Irrigation and flood control Dept, Govt of NCT of Delhi	0.90	Co-PI
6.	Material Testing of cement, fine & coarse aggregate and bricks	Power Grid corporations of India Ltd, Bhiwadi	1.025	Co-PI

7.	Proof checking of structural Design	Pollucon	0.35	Co-PI
8.	TPQC of Construction of street and side drain in Rani Khera in Kanjhawal, Delhi	Irrigation &Flood Control Department, Govt. of NCT of Delhi	10.63	PI
9.	TPQC of Construction of street and side drain in street no. 1 to 106 in Begampur, Delhi.	Irrigation &Flood Control Department, Govt. of NCT of Delhi	10.92	PI
10.	TPQC of strengthening and widening of GT Karnal road to ochandi border, Delhi.	PWD, Govt. of NCT of Delhi	60	Co-PI
11.	Engagement of TPQA for construction of 750 Two BHK, 325 Three BHK & 412 EWS Houses (Design & Built Model) Earmarked in Pocket-13, at Sector A-1 to A-4, Narela.	Delhi Development Authority, Delhi	635 Crores	PI
12.	Engagement of TPQA for construction of 420 Two BHK, 225 Three BHK & 250 EWS Houses (Design & Built Model) Earmarked in Pocket-6, at Sector A-1 to A-4, Narela.	Delhi Development Authority, Delhi	383 Crores	PI
13.	Engagement of TPQA for construction of 1675 Multistoryed Dwelling Units of Slum Dwellers at Jailerwala Bagh, Ashok Vihar, New Delhi.	Delhi Development Authority, Delhi	175 Crores	PI
14.	Engagement of TPQA for construction of 520 Two BHK, 250 Three BHK & 294 EWS Houses (Design & Built Model) Earmarked in Pocket-	Delhi Development Authority, Delhi	425 Crores	Co-PI

	14, at Sector A-1 to A-4, Narela.			
15	Engagement of Third Party Quality Assurance in Respect of 11 Nos. Civil Works,	The Executive Engineer, CD-IV, I & FC Department, L. M. Bund Office Complex, Shastri Nagar Delhi -110031	Rs. 10,16,93,417/-	PI