



# Arpan Pradhan

Ph.D., Aff.M.ASCE, MIAHR, MIAHS

Professor (Assistant)

*Department of Civil Engineering,  
School of Engineering and Technology,  
CHRIST (Deemed to be University)  
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**Website** [pradhanarpan.github.io](http://pradhanarpan.github.io)  
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**Blog** [drarpanpradhan@blogspot.com](mailto:drarpanpradhan@blogspot.com)  
**Skype** [arp\\_pradhan](#)

## OBJECTIVE

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Looking for a challenging career in the domain of education and research on a long-term perspective, and contribution towards the development of the organization all the while.

## PROFESSIONAL PROFILE

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With over 10 years of experience in fluvial hydraulics, I have authored 15+ articles in SCI/Scopus-indexed journals. My expertise lies in developing robust theoretical and analytical models with experimental validations, focusing on stage-discharge modeling and flow resistance. I also have field experience and specialized training in stream gauging and river hydraulics from IAHR-WMO-IAHS, France, enhancing my contributions to water resources engineering.

## PERSONAL DETAILS

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Date of Birth : 04 August, 1990  
Permanent Address : Cuttack Chandi, Kanika Road,  
Cuttack (Below Royal Computers),  
P.O. Buxi Bazaar  
Odisha, India  
Pin-code:753001  
Nationality : Indian  
State of Domicile : Odisha  
Languages Known : English, Odia, Hindi  
Belief : Christianity  
Marital Status : Married

## EDUCATION

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**PhD in Civil Engineering** 2014-2019

*National Institute of Technology Rourkela, India*

**Thesis Title:** Stage-Discharge Modelling of Meandering Compound Channels with Differential Roughness (Synopsis)

**Supervisor:** Dr Kishanjit Kumar Khatua, Professor

**M.Tech. in Civil Engineering** 2012-2014

*National Institute of Technology Rourkela, India*

**Major:** Water Resources Engineering

**Thesis Title:** Analysis of Flow along the Meander Path of a Highly Sinuous Rigid Channel

**Supervisor:** Dr Kishanjit Kumar Khatua, Professor

**CGPA:** 9.13

**Bachelor of Technology** 2008-2012

*Biju Patnaik University of Technology, India*

*College of Engineering Bhubaneswar*

**Major:** Civil Engineering

**Thesis Title:** Bhubaneswar-Puri Four Lanning-A Report on Construction of Flexible Pavement

**Supervisor:** Er Bhabani Shankar Sahani, Assistant Professor

**CGPA:** 8.10

**Intermediate** 2006-2008

*Council of Higher Secondary Education, Odisha, India*

*Stewart Science College, Cuttack*

**Major:** Science

**Percentage:** 67.33%

**Matriculation** Class of 2006

*Council For The Indian School Certificate Examinations, India*

*Stewart School, Cuttack*

**Major:** General

**Percentage:** 87.66%

## TEACHING EXPERIENCE

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Assistant Professor, 12(2)

03 January 2020 - Till Date

Department of Civil Engineering,

School of Engineering and Technology,

CHRIST (Deemed to be University), Bangalore

Assistant Professor

15 July 2019 - 23 December 2019

Department of Civil Engineering,

MVJ College of Engineering, Bangalore

## RESEARCH INTEREST

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1. Fluvial Hydraulics
2. Experimental Fluid Mechanics
3. Open Channel Hydraulics
4. Urban Flooding
5. Ground Water Hydrology
6. Remote Sensing and GIS

## SOFTWARE SKILLS

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1. AutoCAD
2. GeneXPro Tools 5.0
3. CCHE2D-Flow
4. HEC-RAS
5. CES/ AES
6. ArcGIS
7. ANSYS-Fluent
8. MIKE-FLOOD and MIKE-BASIN

## PATENTS AND COPYRIGHTS

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**Patent: Published** December 2022  
*Intellectual Property India*  
**Title of Invention:** A Disease Vulnerability and Combat Mapping Model for Tribal Fortification Using Geospatial ([Publication Document](#))  
**Patent Number:** 202231069849  
**Affiliation:** Christ University

**Patent: Published** October 2023  
*Intellectual Property India*  
**Title of Invention:** A Process for Producing Bricks using Iron Ore Tailing and Waste Foundry Sand ([Publication Document](#))  
**Patent Number:** 202341067676  
**Affiliation:** Christ University

**Design Patent: Granted** March 2024  
*Intellectual Property India*  
**Title of Invention:** Manual Washing Machine ([Certificate of Registration of Design](#))  
**Design Number:** 382140-001  
**Date:** 23 March 2023  
**Affiliation:** Christ University

## PUBLICATIONS

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### SCI/Scopus Indexed Journals

1. **Arpan Pradhan**, Kishanjit Kumar Khatua, Kirti Kanta Sahoo , Abinash Mohanta, Beulah M., Sudhir M. R., “[Bed shear stress distribution across a meander path](#)”, *Journal of Water*

*and Climate Change* , ISSN 20402244 (2024).

SJR: 0.65

2. Shashi Shankar Ojha, Mani Bhushan, Sovan Sankalp, Bibhuti Bhusan Sahoo, **Arpan Pradhan**, “[Addressing challenges and opportunities in enhancing water quality for irrigation](#)”, *AIP Conference Proceedings* , ISSN 0094-243X (2023).  
SJR: 0.16
3. **Arpan Pradhan**, Sirisha Uppaluri, Sovan Sankalp, Shibu K. Mani, Kirtikanta Sahoo, “[Mapping of built-up area and change detection in Bengaluru using semi-automatic classification](#)”, *AIP Conference Proceedings* , ISSN 0094-243X (2023).  
SJR: 0.16
4. M R Sudhir, **Arpan Pradhan**, Kirtikanta Sahoo, M Beulah, Abinash Mohanta, Kaliprasanna Sethy, “[Experimental investigation of boundary shear stress in meandering channels](#)”, *AIP Conference Proceedings* , ISSN 0094-243X (2023).  
SJR: 0.16
5. Satish Kumar, **Arpan Pradhan**, Jnana Ranjan Khuntia and Kishanjit Kumar Khatua, “[Evaluation of Flow Resistance using Multi-Gene Genetic Programming for Bed-load Transport in Gravel-bed Channels](#)”, *Water Resources Management –(00)*, 000 (2023).  
(Q1) SJR: 0.89, Impact Factor: 4.426
6. Abinash Mohanta, **Arpan Pradhan** and Kahnu Charan Patra, “[Closure to “Determination of Discharge Distribution in Meandering Compound Channels Using Machine Learning Techniques” by Abinash Mohanta, Arpan Pradhan, and K. C. Patra](#)”, *Journal of Irrigation and Drainage Engineering* **148(12)**, 07022013 (2022).  
(Q2) SJR: 0.39, Impact Factor: 1.34
7. Abhijeet Prasad Dash, KirtiKanta Sahoo, Himanshu Sekhar Panda, **Arpan Pradhan** and Biswajit Jena, “[Experimental study on the effect of superplasticizer on workability and strength characteristics of recycled coarse aggregate concrete](#)”, *Materials Today: Proceedings* , ISSN 2214-7853 (2022).  
SJR: 0.36
8. Abinash Mohanta, **Arpan Pradhan** and Kahnu Charan Patra, “[Determination of Discharge Distribution in Meandering Compound Channels Using Machine Learning Techniques](#)”, *Journal of Irrigation and Drainage Engineering* **148(1)**, 04021063 (2022).  
(Q2) SJR: 0.39, Impact Factor: 1.34
9. Abinash Mohanta, **Arpan Pradhan**, Monalisa Mallick and Kahnu Charan Patra, “[Assessment of Shear Stress Distribution in Meandering Compound Channels with Differential Roughness Through Various Artificial Intelligence Approach](#)”, *Water Resources Management* **35(13)**, 4535–4559 (2021).  
(Q1) SJR: 0.89, Impact Factor: 4.426
10. Abinash Mohanta, Kahnu Charan Patra and **Arpan Pradhan**, “[Enhanced Channel Division Method for Estimation of Discharge in Meandering Compound Channel](#)”, *Water Resources Management* **34(1)**, 1047–1073 (2020).  
(Q1) SJR: 0.89, Impact Factor: 4.426

11. **Arpan Pradhan** and Kishanjit K. Khatua, “[Discharge Estimation at the apex of Compound Meandering Channels](#)”, *Water Resources Management* **33(10)**, 3469–3483 (2019).  
(Q1) SJR: 0.89, Impact Factor: 4.426
12. **Arpan Pradhan** and Kishanjit K. Khatua, “[Discharge prediction in meandering compound channels](#)”, *International Journal of Water* **13(3)**, 209-220 (2019).  
(Q3) SJR: 0.18
13. **Arpan Pradhan** and Kishanjit K. Khatua, “[An analytical solution for flow estimation of a meandering compound channel](#)”, *In E3S Web of Conferences IAHR Proceedings*, 40(06043) (2018).  
SJR: 0.17
14. **Arpan Pradhan** and Kishanjit K. Khatua, “[Reply to the discussion by Kumar on “Gene expression programming to predict Manning's  \$n\$  in meandering flows”](#)”, *Canadian Journal of Civil Engineering* **45(8)**, 703 (2018).  
(Q2) SJR: 0.32, Impact Factor: 1.028
15. **Arpan Pradhan** and Kishanjit K. Khatua, “[Gene expression programming to predict Manning's  \$n\$  in meandering flows](#)”, *Canadian Journal of Civil Engineering* **45(4)**, 304-313 (2018).  
(Q2) SJR: 0.32, Impact Factor: 1.028
16. **Arpan Pradhan**, Kishanjit K. Khatua and Sovan Sankalp, “[Variation of Velocity Distribution in Rough Meandering Channels](#)”, *Advances in Civil Engineering* **2018**, 1569271 (2018).  
(Q3) SJR: 0.34, Impact Factor: 1.104
17. **Arpan Pradhan** and Kishanjit K. Khatua, “[Assessment of Roughness Coefficient for Meandering Compound Channels](#)”, *KSCE Journal of Civil Engineering* **22(5)**, 2010-2022 (2018).  
(Q2) SJR: 0.51, Impact Factor: 1.428
18. **Arpan Pradhan**, Kishanjit K. Khatua and Saine S. Dash, “[Apparent shear stress analysis in meandering compound channels](#)”, *In proceedings of River Flow 2016 (IAHR) CRC Press*, 472-479 (2016).  
SJR: 0.18

## Peer-Reviewed Journals

1. **Arpan Pradhan**, Kishanjit K. Khatua and Saine S. Dash, “[Distribution of Depth-Averaged Velocity along a Highly Sinuous Channel](#)”, *Aquatic Procedia* **4**, 805-811 (2015).
2. Sovan Sankalp, Kishanjit K. Khatua and **Arpan Pradhan**, “[Boundary Shear Stress Analysis in Meandering Channels at the Bend Apex](#)”, *Aquatic Procedia* **4**, 812-818 (2015).
3. Sovan Sankalp, Kishanjit K. Khatua and **Arpan Pradhan**, “[Variation of Flow Profile along a Highly Sinuous Meander Path](#)”, *International Journal of Civil and Structural Engineering Research* **3(1)**, 95-99 (2015).

4. Sumit K. Jena, Kishanjit K. Khatua and **Arpan Pradhan**, “[Longitudinal Velocity Distribution Modeling of a Highly Sinuous Meandering Channel using CFD](#)”, *IOSR Journal of Mechanical and Civil Engineering AETM'15*, 01-06 (2014).
5. **Arpan Pradhan**, Kishanjit K. Khatua and Saine S. Dash, “[Boundary Shear Force Distribution Along Different Reaches of A Highly Meandering Channel](#)”, *International Journal of Scientific Engineering and Technology Special Issue*, 202-207 (2014).
6. **Arpan Pradhan**, Saine S. Dash and Kishanjit K. Khatua, “[Water surface profile along a meander path of a sinous channel](#)”, *IOSR Journal of Mechanical and Civil Engineering ICAET'14*, 48-52 (2014).
7. **Arpan Pradhan**, Kishanjit K. Khatua and Debashish Khuntia, “[Study of Variation in Velocity Profile along a 120° Meandering Path](#)”, *INROADS- An International Journal of Jaipur National University* **4(1)**, 157-160 (2014).

### Proceedings of International Conferences (Peer-Reviewed)

1. Chamarthi Sarat Chandra, **Arpan Pradhan**, Anurag Handique and Kishanjit K. Khatua, “[Discharge Estimation in Compound Meandering Channels based on Energy Concept](#)”, *HYDRO 2018, 23rd International Conference on Hydraulics, Water Resources and Coastal Engineering NIT Patna*, India (2018).
2. Anurag Handique, **Arpan Pradhan**, Chamarthi Sarat Chandra and Kishanjit K. Khatua, “[Depth-Averaged Velocity Distribution in a Meandering Compound Channel using Calibrating coefficients](#)”, *HYDRO 2018, 23rd International Conference on Hydraulics, Water Resources and Coastal Engineering NIT Patna*, India (2018).
3. Sandeep Kumar, **Arpan Pradhan** and Kishanjit K. Khatua, “[Assessment of Friction Factor for Straight Channels Under No-Load Condition](#)”, *HYDRO 2018, 23rd International Conference on Hydraulics, Water Resources and Coastal Engineering NIT Patna*, India (2018).
4. Bharat K. Vishwakarma, **Arpan Pradhan** and Kishanjit K. Khatua, “[Modelling of Momentum and Energy Correction Coefficients in Meanders](#)”, *HYDRO 2017, 22nd International Conference on Hydraulics, Water Resources and Coastal Engineering LD College of Engineering Ahmedabad*, India (2017).
5. Shival K. Gurmaita, **Arpan Pradhan** and Kishanjit K. Khatua, “[Prediction of Manning Roughness Coefficient in Meandering Compound Flow](#)”, *HYDRO 2017, 22nd International Conference on Hydraulics, Water Resources and Coastal Engineering LD College of Engineering Ahmedabad*, India (2017).
6. Ravi Rajesh, Awadesh Kumar and **Arpan Pradhan**, “[Determination of Parameters for Boundary Layer Development in Rough Plates](#)”, *HYDRO 2017, 22nd International Conference on Hydraulics, Water Resources and Coastal Engineering LD College of Engineering Ahmedabad*, India (2017).
7. Shovam Mohapatra, Kanhu Charan Patra and **Arpan Pradhan**, “[Flow Analysis and its Prediction Methods for Compound Channels](#)”, *HYDRO 2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering CWPRS Pune*, India (2016).

8. **Arpan Pradhan**, Kishanjit K. Khatua and Saine S. Dash, “[Effect of Roughness on Velocity Distribution in a Highly Meandering Channel](#)”, *HYDRO 2015, 20th International Conference on Hydraulics, Water Resources and River Engineering IIT Roorkee*, India (2015).
9. Sovan Sankalp, Kishanjit K. Khatua and **Arpan Pradhan**, “[An Investigation of Velocity Distribution in a Rough Meandering Channel using Hydrodynamic Numerical Model](#)”, *HYDRO 2015, 20th International Conference on Hydraulics, Water Resources and River Engineering IIT Roorkee*, India (2015).
10. Aishwarya Nayak, Kishanjit K. Khatua and **Arpan Pradhan**, “[Evaluation of Discharge Prediction Methodologies for Compound Meandering Channels](#)”, *HYDRO 2015, 20th International Conference on Hydraulics, Water Resources and River Engineering IIT Roorkee*, India (2015).
11. Preeti Patel, Kishanjit K. Khatua and **Arpan Pradhan**, “[Discharge Prediction in Straight Compound Channels using Artificial Neural Network](#)”, *HYDRO 2015, 20th International Conference on Hydraulics, Water Resources and River Engineering IIT Roorkee*, India (2015).
12. Saine S. Dash, Kishanjit K. Khatua and **Arpan Pradhan**, “[Roughness Variation in a Meandering Compound Channel](#)”, *HYDRO 2014, 19th International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering MANIT Bhopal*, India (2014).
13. Saine S. Dash, Kishanjit K. Khatua and **Arpan Pradhan**, “[Depth Averaged Velocity Prediction for Highly Sinuous Meandering Channels](#)”, *9th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering Ubertone, France*, 185-188 (2014).
14. **Arpan Pradhan**, Saine S. Dash and Kishanjit K. Khatua, “[Transverse Water Surface Profile of a Meandering Channel](#)”, *Proceedings of International Symposium on Integrated Water Resources Management (IWRM) CWRDM Kerala*, India (2014).

## **INTERNATIONAL CONFERENCES ATTENDED**

### **Abroad**

1. [River Flow 2018](#), *Ninth International Conference on Fluvial Hydraulics* organised by IAHR Committee on Fluvial Hydraulics at Lyon-Villeurbanne, France. (2018)
2. *International Symposium on Compound Channel Flows* organised by EPSRC Grant holders at [Loughborough University](#), UK. (2016)

### **Within India**

1. [ICATMSE 2024](#), *International Conference on Advanced Technology in Material Science and Engineering* organised by the Department of Civil Engineering, [Siksha 'O' Anusandhan \(Deemed to be University\)](#), Bhubaneswar, India. (2024)  
Certificate

2. *ICATMSE 2024, International Conference on Advanced Technology in Material Science and Engineering* organised by the Department of Civil Engineering, [Siksha 'O' Anusandhan \(Deemed to be University\)](#), Bhubaneswar, India. (2024)  
Certificate
3. *ICATMSE 2024, International Conference on Advanced Technology in Material Science and Engineering* organised by the Department of Civil Engineering, [Siksha 'O' Anusandhan \(Deemed to be University\)](#), Bhubaneswar, India. (2024)  
Certificate
4. *One Day Symposium on "Earthquake Preparedness in India"* organised by the Department of Civil Engineering, [CHRIST University](#), Bangalore, India. (2024)  
Certificate
5. *AIAET-2024, International Conference on AI Applications in Engineering and Technology* organised by the Department of Civil Engineering, [CHRIST University](#), Bangalore, India. (2024)  
Certificate
6. *SMARTME-2023, 7th International Conference on Sustainable Materials for Advanced Research & Technologies* organised by [REVA University](#), Bangalore, India. (2023)  
Certificate
7. *ETETI 2023, International conference on Emerging Trends in Engineering and Technology; Industry 4.0* organised by [Indira Gandhi Institute of Technology Sarang](#), India. (2023)  
Certificate
8. *ICCRCBM, International Conference on Climate Resilient Construction and Building Materials* organised by [NITK Surathkal](#), India. (2023)  
Certificate
9. *ICWRCOE'15, International Conference on Water Resources, Coastal and Ocean Engineering* organised by [NITK Surathkal](#), India. (2015)
10. *HYDRO 2015, 20th International Conference on Hydraulics, Water Resources, and River Engineering* organised by [IIT Roorkee](#), India. (2015)
11. *ICAET'14, International Conference on Advances in Engineering and Technology* organised by [Anjuman College of Engineering & Technology](#) Nagpur, Maharashtra, India. (2014)
12. *HYDRO 2014, 19th International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering* organised by [MANIT Bhopal](#), India. (2014)
13. *IWRM, International Symposium on Integrated Water Resources Management* organised by [CWRDM](#) Kerela, India. (2014)

# **WORKSHOPS AND TRAININGS ATTENDED**

## **Abroad**

1. Attended *Master Class on River Morphology and Morphodynamics* at [IRSTEA](#) (Lyon-Villeurbanne Centre of the National Research Institute of Science and Technology for Environment and Agriculture), France organised by [IAHR](#) on 04 September 2018.
2. Attended three-days *4th IAHR-WMO-IAHS Training Course on Stream gauging* at France from 02 to 03 September 2018.

## **Within India**

1. Attended a workshop on “[Leadership Workshop](#)”, organized by the CHRIST University Higher Education Leadership Institute (CUHELI), CHRIST (Deemed to be University), Bangalore, during 03 to 04 November 2023
2. Attended workshop on *New Trends in Transportation and Geotechnical Engineering*, Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
3. Attended symposium on “*Rivers-2016*”, organized by the Department of Civil Engineering, [NIT Rourkela](#), during February 2016
4. Short term course on “*Flow measurements and modelling in Water Resources Engineering*”, organized by the Department of Civil Engineering, [NIT Rourkela](#), during September 2014.
5. Applied training program on “*MIKE-FLOOD & MIKE-BASIN*”, organized by the Department of Civil Engineering, [NIT Rourkela](#), during January 2014.
6. Seminar on “*Embedded Electronics System for Water Resources Engineering*”, organized jointly by Department of Civil Engineering, [NIT Rourkela](#) and Water Resources Engineering Department (Govt. of Odisha, India), during March 2013.
7. Short term course on “*Advances in Water Resources Engineering*”, organized by Department of Civil Engineering, [NIT Rourkela](#), during May 2012.
8. Practical training under M/s. Bhubaneswar Expressways Pvt. Limited with supervision of [M/s. Arkitechno Consultant \(I\) Pvt. Limited](#) for the project work of *Bhubaneswar Puri Four Lanning Works* during April-May 2012.
9. Practical training under SCB Medical (R&B), Section No. III, Office of the Executive Engineer, Cuttack during August 2011.
10. Internship project on “*Building Construction*” by [ARSS Developers Limited](#), Bhubaneswar during June-July 2011.
11. Practical training at [GMR Kamalanga Thermal Power Project](#) during April-May 2011.
12. Training Programme on “*STAAD.Pro*” conducted by [OCAC](#), Technical Directorate of Information Technology Department, Govt. of Odisha, India.

13. Training Programme on *“AutoCAD 2D Drafting, Solid Modeling & AutoLISP Programming”* conducted by OCAC, Technical Directorate of Information Technology Department, Govt. of Odisha, India.

## **MASSIVE OPEN ONLINE COURSES**

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1. *“Introduction to Tableau”* on Coursera
2. *“AI for Everyone”* on Coursera
3. *“Intro to AR/VR/MR/XR: Technologies, Applications and Issues”* on Coursera
4. *“Linear Regression and Modeling”* on Coursera
5. *“Data Visualization in Tableau: Create Dashboards and Stories”* on Coursera
6. *“Create Charts and Dashboards Using Microsoft Excel”* on Coursera
7. *“Introduction to Data Analysis using Microsoft Excel”* on Coursera
8. *“Write Smarter with Overleaf and LaTeX”* on Coursera
9. *“Energy and Environment”* on Coursera
10. *“Population, Food, and Soil”* on Coursera
11. *“Environmental Science”* on Coursera
12. *“Air Pollution – a Global Threat to our Health”* on Coursera
13. *“Create environmental awareness content with Canva”* on Coursera
14. *“Generative AI in Education”* on Coursera
15. *“OpenFOAM Intermediate”* on Udemy
16. *“The Complete Introduction to OpenFOAM”* on Udemy
17. *“Hec-RAS from zero for River Analysis”* on Udemy
18. *“Hec-RAS and ArcGIS for Hydrologic Engineering”* on Udemy
19. *“LaTeX for dissertation, publication, and presentation”* on Udemy
20. *“Understanding Research Methods”* on Coursera
21. *“Initiating and Planning Projects”* on Coursera
22. *“Epidemics, Pandemics and Outbreaks”* on Coursera
23. *“Multiple Linear Regression with scikit-learn”* on Coursera
24. *“Predicting Salaries with Simple Linear Regression in R”* on Coursera
25. *“How to Create Animated Videos with Powerpoint”* on Udemy
26. *“COVID-19 What You Need to Know (CME Eligible)”* on Coursera

## **ONLINE WEBINAR ATTENDED**

1. *Advanced Design & Application of Pressure Sewer Systems*, 16 March 2021, organised by Environment One Corporation
2. *How Optical Fiber Technology Makes Life Easier?*, 10 February 2021, organised by IEEE CHRIST SIGHT Group, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore.
3. *Informing catchment management decisions based on ecosystem services modelling in the Himalayas*, 23 July 2020, organised by India-UK Water Centre, Ministry of Earth Science, Government of India.
4. *How to Write a Good Paper: An Editor's Perspective*, 16 July 2020, organised by International Association for Hydro-Environment Engineering and Research (IAHR).
5. *Understanding River System and Pollution Management: A case study of Water Quality of the Ganga River around Patna due to Lockdown, a natural remedy?*, 09 July 2020, organised by India-UK Water Centre, Ministry of Earth Science, Government of India.
6. *Construction Technology in Data Driven Era - The Next Frontier*, 08 July 2020, organised by Department of Civil Engineering, Francis Xavier Engineering College, Tirunelveli
7. *Hydraulic Model Studies in Coastal Engineering Development Projects*, 04 July 2020, jointly hosted by the Department of Civil Engineering, JSS Academy of Technical Education, Bengaluru in association with ACCE, Bangalore Center and Ramco Cements Ltd.
8. *Global Tech Talk on "Technology and Bussiness in Current Scenario"*, 26 June 2020, jointly hosted by the Department of Computer Science and Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
9. *How to get Research Grants from UGC, AICTE*, 09 June 2020, jointly hosted by Mar Basilio Institute of Technology and Science, Kothamangalam; and School of Management and Business Studies, Mahatma Gandhi University, Kottayam
10. *Biodiversity*, 06 June 2020, conducted on the occasion of World Environment Day by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore

## **FDPs / WORKSHOPS ATTENDED**

1. *Faculty Development Program on Mastering Innovative Online Course Development*, from 08 to 12 January 2024, organized by Centre for Digital Learning (CDL), CHRIST (Deemed to be University), Bangalore.
2. *Faculty Development Program (FDP-I) 2023*, from 26 June to 01 July 2023, organized by Center for Education Beyond Curriculum (CEDBEC) and Staff Development College (SDC), CHRIST (Deemed to be University), Bangalore.
3. *Hands-on Faculty Development Program on UI/UX*, from 13 to 15 June 2023, offered by L&T EduTech.

4. *Quality Improvement Program on “Applications of Civil Engineering using MATLAB”*, on 26 April, 28 April and 03 May 2023, organized by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore.
5. *5 days Faculty Development Program on Curriculum Design and Revision with specific focus on OBE*, from 05 to 09 December 2022, organized by Staff Development College (SDC), CHRIST (Deemed to be University), Bangalore.
6. *Faculty Development Program (FDP-I) 2022*, from 06 July to 11 July 2022, organized by Center for Education Beyond Curriculum (CEDBEC) and Internal Quality Assurance Cell (IQAC), CHRIST (Deemed to be University), Bangalore.
7. *Faculty Development Program (FDP-I) 2021*, from 16 to 21 June 2021, organized by Center for Education Beyond Curriculum (CEDBEC) and Human Resource Development Center (HRDC), CHRIST (Deemed to be University), Bangalore.
8. *3 days Course on ArcGIS Pro: Essential Workflows*, from 30 March to 01 April 2021, organized by ESRI, India.
9. *On-line Hands-on Workshop on Timetable Management*, 27 March 2021, organized by Nodal Office, CHRIST (Deemed to be University), Bangalore.
10. *6-day Orientation Program*, from 02 to 07 November 2020, organized by Staff Development College, CHRIST (Deemed to be University), Bangalore.
11. *Sustainability Aspects and Recent Trends in Civil Engineering - The Future Scenario*, from 14 to 18 July 2020, organized by BMS Institute of Technology and Management, Bengaluru in association with Paradigm Environmental Strategies (P) Ltd, Bengaluru.
12. *SIG Workshop: OpenFlows - Overview of Hydraulic Transient Analysis with HAMMER*, 10 July 2020, organized by Bentley Institute.
13. *Innovation, Creativity and Entrepreneurship - ICE2020*, from 06 to 10 July 2020, organized by Satya Institute of Technology and Management, Vizianagaram in association with NRDC, India.
14. *Microsoft Teams*, 09 July 2020, organised by 30M Training, Media Studies & IT Services, CHRIST (Deemed to be University), Bangalore.
15. *Digital Teaching Techniques*, from 29 June to 04 July 2020 organized by ICT Academy.
16. *Statistical Package for Social Science (SPSS): Fundamentals & Regression*, from 23 to 27 June 2020 by EdBhoomi.
17. *SIG Workshop: OpenFlows - Creating District Metered Areas to Better Manage Water Systems*, 18 June 2020, organized by Bentley Institute.
18. *5-day Quality Improvement Program on Online Teaching*, from 22 to 26 April 2020, organized by Academic Staff College, Media Studies & IT Services, CHRIST (Deemed to be University), Bangalore.

# **PROGRAMMES ORGANIZED**

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## **Faculty Development Programme/ Workshops/ Conferences**

1. *AIAET-2024, International Conference on AI Applications in Engineering and Technology*, from 06 to 07 March 2024 by the Department of Civil Engineering, [CHRIST University](#), Bangalore, India. (2024)  
[Certificate](#)
2. *Applications of Remote Sensing and GIS in Civil Engineering*, from 19 to 21 December 2019 by the Department of Civil Engineering, MVJ College of Engineering, Bangalore  
[Certificate](#)

## **Seminars/ Webinars**

1. *Artificial Intelligence in Civil Engineering Applications*, on 09 February 2021 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
2. *Specialty Structures in Steel*, on 12 November 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
3. *Overview of Construction of Airport at Hyderabad*, on 04 November 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
4. *Recent Developments in Sustainable Soil Stabilization*, on 21 October 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
5. *Bamboo - A Sustainable Building Material*, on 16 October 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
6. *Introduction to Earthquake Engineering*, on 14 October 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
7. *Sustainable Advances and Requirements of Research in Concrete Technology in the Era of the 21st Century*, on 10 October 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
8. *Being an Impactful Engineer in the 21st Century*, on 05 October 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
9. *Blast Resistant Concrete*, on 18 September 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore

10. *Self-Sensing and Magnetic Concrete for Power Transfer*, on 04 September 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore
11. *AI, Deep Learning and Data Analytics as applicable to Civil Engineering*, 14 August 2020 by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore

## **MEMBER OF JOURNAL EDITORIAL BOARDS**

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1. *Insight - Civil Engineering*, PiscoMed Publishing
2. *Journal of Water Resources and Ocean Science*, Science Publishing Group

## **REVIEWER OF JOURNALS**

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1. *Advances of Civil Engineering*, Hindawi (Scopus & SCI)
2. *Canadian Journal of Civil Engineering*, NRC Research Press (Scopus & SCI)
3. *Open Geosciences*, De Gruyter (Scopus & SCI)
4. *Advances in Science, Technology and Engineering Systems Journal* (Scopus)
5. *ISH Journal of Hydraulic Engineering*, Taylor and Francis (Scopus)
6. *Asian Journal of Physical and Chemical Sciences*, Science Domain International

## **PROFESSIONAL CERTIFICATION**

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1. *Intel Unnati AI Course Trainer* by Intel-EdGate
2. *Specialization on Introduction to Environmental Science* by Dartmouth College, USA

## **PROFESSIONAL INVITATION**

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1. Invited as Resource Person for a 5 Days Faculty Development Program on “**FDP II - AR/VR/ MR**”, organized by the Department of Civil Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore held from 27 to 31 May 2024.
2. Invited as Resource Person for a Talk on ‘AI Tools for Effective Engagement’ for the “**7-Day FDP on Navigating the Teaching-learning Environments in HEIs**”, organized by the School of Social Sciences, CHRIST (Deemed to be University), Bangalore held from 01 to 07 April 2024.

3. Invited as Trainer on 'Formative and Summative Assessment' for the training program on ["Scaffolding Adult Learning Through Learner-Centered Approach"](#), organized by the Teaching Learning Enhancement Cell (TLEC), CHRIST (Deemed to be University), Bangalore held on 22 February 2024.
4. Invited as Trainer on 'Formative and Summative Assessment' for the training program on ["Scaffolding Adult Learning Through Learner-Centered Approach"](#), organized by the Teaching Learning Enhancement Cell (TLEC), CHRIST (Deemed to be University), Bangalore held on 26 February 2024.
5. Invited as Guest Speaker to deliver a Talk at the [Efficiency of Rainwater Harvesting Technique in Lowering Effective Runoff in Urban Cities](#), organized by the Department of Civil Engineering, Abacus Institute of Engineering & Management, Hoogly, West Bengal during on 04 November 2023.
6. Invited as [Reviewer for IACESD-2023](#), International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development, organised by Jyothi Institute of Technology, Bangalore, India during 07 to 08 July 2023.
7. Invited as Resource Person to deliver a Talk at the [National Workshop on Sustainability Materials and Environmental Engineering](#), organized by the Department of Civil Engineering, CHRIST (Deemed to be University), Bangalore during on 09 - 10 April 2021
8. Invited as a Member to the CHRIST (Deemed to be University), [Civil Engineering Board of Studies 2021](#)
9. Invited as [Reviewer for HYDRO-2020](#), 25<sup>th</sup> International Conference on Hydraulics, Water Resources and Coastal Engineering, organised by Department of Civil Engineering, NIT Rourkela, India during 26 to 28 March 2021.
10. Invited as [Session Chair for HYDRO-2020](#), 25<sup>th</sup> International Conference on Hydraulics, Water Resources and Coastal Engineering, organised by Department of Civil Engineering, NIT Rourkela, India during 26 to 28 March 2021.

## **PROFESSIONAL MEMBERSHIP**

1. The Institution of Engineers (India), IEI	(Associate Member)	AM-3072021
2. Indian Society of Remote Sensing, ISRS	(Life Member)	L-5487
3. Association of Consulting Civil Engineers (India), ACCE	(Life Member)	6464-L
4. American Society of Civil Engineers, ASCE (EWRI)	(Affiliate Member)	11967808
5. Int. Assoc. for Hydro-Environ. Engg. and Research, IAHR	(Young Professionals)	80155
6. International Association of Hydrological Sciences, IAHS	(Member)	18096
7. International Association of Engineers, IAENG	(Member)	259215
8. Institute of Research Engineers and Doctors, the IRED	(Senior Member)	SNM2020058

## AWARDS

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1. Received Award as Mentor for Participation in [I-cu Contest of 2023](#) organised by [L&T Constructions](#), Water and Effluent Treatment, India on 08 September 2023.
2. Received Travel Grant from [CSIR-HRDG](#) to attend and present a paper at *River Flow 2018, Ninth International Conference on Fluvial Hydraulics* organised by [IAHR](#) Committee on Fluvial Hydraulics at Lyon-Villeurbanne, France from 05 to 08 September 2018.
3. Exchange programme under UGC Thematic Partnerships - [UKIERI](#) 2014 with University of Leeds, UK during January 2016.  
Also had an opportunity to visit two other universities; [Loughborough University](#) and [De Montfort University](#) during this period.
4. Received [MHRD](#) (Govt. of India) scholarship for pursuing PhD at [NIT Rourkela](#)
5. Certified for meritorious position in M.Tech. (Water Resources Engineering) at [NIT Rourkela](#)
6. Received [MHRD](#) (Govt. of India) scholarship for pursuing M.Tech. degree at [NIT Rourkela](#)
7. Qualified [GATE](#), 2013 (CE)

## PROFILES

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	<i>h</i> -index	Citations
1. Scopus ( <a href="#">57193627438</a> )	7	87
2. ResearchGate ( <a href="#">Arpan Pradhan</a> )	7	139
3. ResearcherID-Pubblons ( <a href="#">V-6822-2017</a> )	6	74
4. Google Scholar ( <a href="#">Arpan Pradhan</a> )	9	223
5. ORCID ( <a href="#">0000-0001-7435-2330</a> )	-	-
6. VIDWAN ( <a href="#">116809</a> )	-	-

## REFERENCES

---

1. [Dr Kishanjit Kumar Khatua](#) (*PhD Supervisor*)  
Professor,  
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National Institute of Technology Rourkela, India  
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e-mail: [kkkhatua@nitrkl.ac.in](mailto:kkkhatua@nitrkl.ac.in)
2. [Dr Kahnu Charan Patra](#) (*Chairman, Doctoral Scrutiny Committee*)  
Professor (HAG),  
Department of Civil Engineering  
National Institute of Technology Rourkela, India  
Phone: 0661-246-2317  
e-mail: [kcpatra@nitrkl.ac.in](mailto:kcpatra@nitrkl.ac.in)

3. **Dr C S P Ojha** (*PhD Examiner*)

Institute Chair Professor (HAG),  
Department of Civil Engineering  
Indian Institute of Technology, Roorkee, India

Phone: 0133-228-5494  
e-mail: [cojhafce@iitr.ernet.in](mailto:cojhafce@iitr.ernet.in)

4. **Dr Andrew P. Sleigh** (*PhD Examiner*)

Senior Lecturer,  
School of Civil Engineering  
University of Leeds, Leeds, UK

Phone: +44(0)113-343-2398  
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5. **Dr Koji Shiono**

Emeritus Professor of Environmental Hydrodynamics,  
School of Architecture, Building and Civil Engineering  
Loughborough University, UK

Phone: +44-1509-228744  
e-mail: [shiono45@gmail.com](mailto:shiono45@gmail.com)

Yours sincerely,

A handwritten signature in blue ink that reads "Arpan Pradhan". The signature is stylized with a large, sweeping initial 'A' and a horizontal line underlining the name.

Dr Arpan Pradhan  
December 21, 2024