

Kings College of Engineering

Department of Civil Engineering

Name : D . NANDAKUMAR	
Designation:	Assistant Professor
Qualification:	M.E., (PhD)
Area of Specialization:	Structural Engineering.
Experience:	Teaching: 6 Yrs. UG: -5 yrs PG: -1 yrs
	Industry: -NIL
No. of workshop / Conferences / FDP attended :	11/11/30
Publication :	Journal National: NIL International: 07
	Conference National: 03 International: 08
Membership :	ISTE Life member, IEI Associate Member
Achievements	Published Books and Patents.

Workshop / Conferences / FDP attended : 11 / 11/ 30
WORKSHOP

- Attended a workshop on “**FORENSIC ENGINEERING OF STRUCTURES**” held at **Coimbatore Institute of Technology, Coimbatore (Mar 2015).**
- Attended a workshop on “**PRECAST CONCRETE CONSTRUCTION-**

OPPORTUNITIES AND CHALLENGES” held at Sona college of technology, Salem (Mar 2016).

- Attended a workshop on **“ENHANCING DURABILITY OF CONCRETE&DRYWALL CONCEPT** “held at **M.kumarasamy college of engineering,(feb 2016)**
- Attended a workshop on **“EARTHQUAKE RESISTANT STRUCTURES, APPLICATION FERROCENT ON STRUCTURES AND DEMONSTRATION OF HANDHELD GPS AND TOTAL STATION”** held at **Government college of engineering (march 2016)**
- Attended a workshop on **“SELECTION TOPICS FOR B.E.,M.E.,& Ph.D. PROJECTS IN CIVIL ENGINEERING”** held at **Bannari amman Institute of technology(July 2016)**
- Attended the **“Earthquake Engineering Literature Survey Workshop”** for Post graduate students from Engineering colleges across India held at **IIT Kanpur (June 7-june 16 2018)**
- Attended a Two days workshop on **“COMPUTATIONAL STRUCTURAL ENGINEERING USING MIDAS”** held at **AMIRTA Vishwa Vidyapeetham School Of Engineering (July 2018)**
- Attended a workshop on **“Special considerations of seismic analysis-Unreinforced masonry wall modelling”** held at **Bentley institute (May 2020)**
- Attended a workshop on **“Recent advances in science and technology of concrete”** held at **Indian Institute Of Technology, Madras (May 2020)**
- Attended a workshop on **“Role of Assessment and Accreditation towards Improving the Quality of Education and National Educational Policy Implementation in Higher Educational Institutions”** held at **KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY, Virudhunagar (Feb 2023)**

NATIONAL CONFERENCE

- Attended a National conference on **“INNOVATIVE TECHNOLOGIES AND DEVELOPMENTS IN CIVIL ENGINEERING** “held at **sri sakthi engineering college (march 2016)**
- Attended a National conference on **“INNOVATIONS IN CONCRETE AND CONSTRUCTION”** held at **Sona College of Technology. (March 2018).**
- Presented a paper entitled **“Development Of Low cost Bio Mineralised steel slag bricks”** in the National conference on **“INNOVATIONS IN CONCRETE AND CONSTRUCTION”** held at **Sona College of Technology. (March 2019)**

INTERNATIONAL CONFERENCE

- Presented a paper entitled **“STRENGTH DEVELOPMENT IN STEEL SLAG BRICKS USING MICP PROCESS”** in the international conference **“Industry 4.0**

Advancements in civil engineering (I4ACE'19)" held at PSG Institute of Technology and Applied Research (March 2019)

- Presented a paper entitled **"STUDY ON STRENGTH PARAMETERS OF LIME CONCRETE WITH SILICA FUME AND FLYASH"** in the international Virtual conference **"ASER-2020"** held at **Al-Ameen Engineering College. (March 2020)**
- Presented a paper entitled **"STUDY ON COMPRESSIVE STRENGTH OF LIME MORTAR WITH ADMIXTURE AND TILES POWDER"** in the international Virtual conference **"ASER-2020"** held at **Al-Ameen Engineering College. (March 2020)**
- Presented a paper entitled **"STUDY ON EFFECT OF GREEN CORROSION INHIBITORS USED IN STEEL REINFORCED CEMENT CONCRETE"** in the international Virtual conference **"ICON 2021"** held at **Sona College of Technology.(June 2021)**
- Paper presented in my Research Topic **"Prediction of Inhibition Efficiency of Organic Inhibitor on Mild Steel Corrosion Using Artificial Intelligence"** at International conference on Climate Resilient Construction and building materials organized by **NIT,Surathkal** on **3rd to 5th March 2023.**
- Paper presented in my Research Topic **"Experimental study on effect of Dracaena trifasciata as green corrosion inhibitor in steel reinforced cement concrete"** at International conference on Climate Resilient Construction and building materials organized by **NIT,Surathkal** on **3rd to 5th March 2023.**
- Paper presented in my Research Topic **"Prediction of Inhibition Efficiency of Plant extract in Limonia Acidissima on Mild Steel Corrosion Using Artificial Intelligence"** at International conference on Sustainable Innovative Practices (SIP-2023) organized by **Kumaraguru college of Technology, Coimbatore** on **19&20th April 2023.**
- Participated International conference Program and delivered seminar talk on **Study on effect of Dracaena Trifasciata as Green corrosion inhibitor in steel reinforced cement concrete under sea water medium** on **16th April 2025,** Organized by **Sona College of Technology, Salem.**

JOURNAL PUBLICATION

- **D.Nandakumar,M.Arivoli.** " Eco friendly Bio Mineralised Steel slag bricks using Micp Process" Journal of Applied Science and Computations, Volume VI, Issue IV, April 2019

- **D.Nandakumar**,M.Arivoli.“Strength Development In Bio Mineralised Steelslag Bricks Using Micp Process” International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-4, Feb.2020.
- B.Prabu, **D.Nandakumar**, A.Aejaz Ahamed, M.Gnana Sundar, N.Javeeth Khan,T.V. Kishore Kumar, R.Akash. “Mapping Of Institutional Building Using UnmannedAerial Vehicle And Post Processing By Photogrammetry Software” Journal of xidian university, Vol.14, Issue.5, April 2020.
- Monisha M, Suganthi B, **Nandakumar D**, Henry Richard J, Divya M, Namasivayam R, Lokesh C,Raveen Kumar R. “Utilization of Treated Industrial Effluent water(TIEW) In concrete technology For construction purpose instead of using Tap/Fresh water (TW)”Vol.14, Issue.5, April2020.
- **D.Nandakumar**,M.Arivoli, S. Priscil Nidhu. “Development of Lowcost bio mineralised steel slag bricks using micp process” International Journal of advanced Research inEngineering and technology, Volume XI, Issue XI, November2020
- Arivoli Masilamani, **Nandakumar Durairaj**, Malathy Ramalingam. “A Novel Way To Exploit Steel Industry Waste: Microbial Mineralized SlagBlocks” Environmental Engineeringand management Journal, Volume 20,
- **D. Nanda Kumar**, S. Tamil Selvi, M. Sandeep Kumar. “Optimization of Pozzolime Concrete with Silica Fume and Brick Dust” International Journal of Research in Engineering, Science and Management, Volume-3,Issue-4, April-2020
- Ms. C. Priyadharshini , Mr. S. Gokul, **Mr. D. Nandakumar**. “Study On Strength Parameters Of Lime Concrete With Silica Fume And Fly Ash” International Journal of Advanced Science and Engineering Research, Volume: 5, Issue: 1, 2020
- **D. Nanda Kumar**, A. Aejaz Ahamed, M. Gnana Sundar. “Surveying using drones and providing results by using Photogrammetry software” International Research Journal of Engineeringand technology, Volume VII,Issue IV, April2020

INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME

S.No	Institute	Title	Date
1.	AVIT&Vinayaga mission Research foundation&Industry academia cell	Introduction to AR/VR & Its Enterprise use cases	08.05.2020
2.	AVIT&Vinayaga mission Research foundation&Industry academia cell	Techtonic IOT	09.05.2020

3.	AVIT & Vinayaga mission Research foundation & I industry academia cell	Artificial intelligence in 4 th dimensional approach	10.05.2020
4.	AVIT & Vinayaga mission Research foundation & Industry academia cell	Electric vehicles on grid challenges and opportunities	11.05.2020
5.	AVIT & Vinayaga mission Research foundation & Industry academia cell	Demystifying process automation	12.05.2020
6.	AVIT & Vinayaga mission Research foundation & Industry academia cell	Drone industry insights	14.05.2020
7.	AVIT & Vinayaga mission Research foundation & Industry academia cell	Opportunities in marine field	15.05.2020
8.	AVIT & Vinayaga mission Research foundation & Industry academia cell	UAV Communication	16.05.2020
9.	Anand International college of engineering and Technology	Future developments in civil engineering	06.02.2023-10.02.2023

NATIONAL FACULTY DEVELOPMENT PROGRAMME

S.No	Institute	Title	Date
1.	AICTE- NITTTR CHANDIGARH	Defect free Construction Repair and Maintenance	16-09-19 to 20-09-19 (One Week)
2.	AICTE- NITTTR CHANDIGARH	Application of Auto CAD in Engineering	04-11-19 to 08-11-19 (One Week)
3.	AICTE- NITTTR CHANDIGARH	Low cost Housing Techniques	23-09-19 to 27-09-19 (One Week)
4.	Kongu engineering college	Advancements in concrete technology	12.05.2020-16.05.2020
5.	Mohamed sathak AJ college of engineering	Behaviour of structural systems- Bridging the gap between theory and real time practice.	22.05.2020-24.05.2020
6.	AICTE- ATAL-FDP	Artificial Intelligence	05.10.2020-09.10.2020
7.	ANNA UNIVERSITY	CE8502 Structural Analysis-I	14.6.2021 - 19.6.2021

8	AICTE	Inculcating Universal Human Values in Technical Education	27.09.2021-01.10.2021
9.	AICTE-ATAL	Digital Transformation Trends in Construction Industry	04.10.2021-08.10.2021
10.	Quality Circle Forum of India	Formation and Implementation of Lean Quality Circles.	07.10.2022-08.10.2022
11.	AICTE- NITTTR CHANDIGAR	Recycling Materials in Highway Construction	06.03.2023-10.03.2023
12.	Naan Mudhalvan in partnership with Microsoft	Digital Productivity and AI Fluency	06.10.2023-14.10.2023
13.	Ballari Institute of Technology & Management	Advancements in Concrete Technology (AICT-2023	02.11.2023-07.11.2023
14.	Vardhaman College of engineering, Hyderabad.	Research and innovations in structural engineering	12.02.2024-17.02.2024
15.	Coimbatore Institute Of Technology	Recent Advances in Forensic Analysis of Substructures and Superstructures.	23.02.2024-29.02.2024
16.	AICTE- NITTTR CHANDIGAR	NAAC and Internal Quality Assurance	26.02.2024-01.03.2024
17.	Adichankara Institute of engineering and Technology	Environmental Pollution: Monitoring & Control	02.07.2024-03.07.2024
18.	AICTE	Universal Human Values-II	26.07.2024-02.08.2024
19.	National Institute Of Technology, Jamshedpur	Field Oriented Challenges In Civil Engineering	05.08.2024-09.08.2024
20	AICTE-ATAL	Sustainable Civil Engineering Construction Materials in Infrastructure and Industry	06.01.2025-11.01.2025
21.	AICTE-ATAL	Artificial intelligence for Science and Engineering	17.02.2025-22.02.2025

NPTEL & SHORT TERM COURSES

- Have completed the NPTEL 4 week course (Jan-Feb 2020) in the topic of Advanced topics in science and concrete technology.
- Have completed the NPTEL 8 week course (Feb-April 2020) in the topic of Digital Land Surveying and Mapping.
- Have completed the AICTE- NITTTR Module course (Feb 2021) in the topic of Orientation towards Technical Education.
- Have completed the AICTE- NITTTR Module course (SEP 2021) in the topic of Professional Ethics and Sustainability.
- Have completed the AICTE- NITTTR Module course (SEP 2021) in the topic of Communication Skills Modes and Knowledge Dissemination.

BOOK PUBLICATIONS

- Published a book in titled of Engineering mechanics by Charulatha Publications, Chennai in the March 2025.
- Published a book in titled of Basics Civil and Mechanical Engineering by Charulatha Publications, Chennai in the March 2025.

PATENT PUBLICATIONS

S.No	Patent Id	Patent Name	Year of Publication
01.	202341044743	IDENTIFICATION ON ANTI CORROSIVE PROPERTY OF LIMONIA ACIDISSIMA PLANT EXTRACT USING ANN	2023
02.	202541039680	AI BASED SMART GOGGLES FOR CONSTRUCTION LABOURS	2025

ORGANIZED EVENTS

- Webinar on Applications of Drone Technology in Advance Surveying 29th and 30th June 2020.
- Webinar on Sustainability in Civil Engineering on 30th July 2020.
- Webinar on Analysis & Design of Framed structures Using E tabs 19th August to 21st August 2020.
- Webinar on Gear Up for higher studies at International Universities challenges and Opportunities on 04.09.2020.
- Webinar on Basics of Revit Architecture cum structures on 24.08.2020 to 25.08.2020
- Webinar on Career Opportunities in Civil Engineering on 18.05.2021
- Webinar on 3D Modelling using Sketch up Software on May 31st to June 2nd 2021.
- Webinar on Career Opportunities after B.E/B.Tech Civil on 28.09.2021.
- Workshop on “Smart city- construction Perspective” on 17.02.2023.
- Paper Presentation event as a department ISTE Coordinator through the ISTE STUDENTS CHAPTER (TN 217) on 04.10.2023.
- Guest lecture on “Quantity Surveying- Billing & Tendering” as a department ISTE Coordinator through the ISTE STUDENTS CHAPTER (TN 217) on 20.03.2024.
- Kings project expo'24 organized as a coordinator on 03.05.2024