

## FACULTY PROFILE

**Dr. V. KANNAN., M.E., PhD, FIE., C.Engg.**

**Professor**

**Department of Civil Engineering**

**National Engineering College, K.R.Nagar, Kovilpatti,**

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**Vidwan ID:**

**<https://vidwan.inflibnet.ac.in/profile/373503>**

**Google Scholar ID: Qd5DN74AAAAJ**

**Web of Science:**

**<https://www.webofscience.com/wos/author/record/G-3966-2018>**



### **EDUCATIONAL QUALIFICATION:**

<b>Degree</b>	<b>Specialisation</b>	<b>Institution/University</b>	<b>Year of Pass</b>	<b>Marks (%) /Class</b>
Ph.D.	Civil Engineering	Anna University Chennai	2014	Highly Commended by Indian Examiner (IISc Bangalore)
M.E	Structural Engineering	The Rajaas Engg. College / Anna University, Chennai	2008	81/ First with Distinction
B. E	Civil Engineering	The Indian Engg. College, Tirunelveli/ M.S University	2002	64/ First Class

**Ph.D Thesis Title:** Durability Performance of Self Compacting Concrete Containing Rice Husk Ash and Metakaolin

**M.E Thesis Title:** Neural Network Model for design of cold formed steel compression member

**B.E Project Title:** Analysis and Design of Steel vehicle rack.

<b>ACADEMIC &amp; INDUSTRIAL EXPERIENCES-20 Years 07 Months</b>			
<b>DURATION</b>	<b>POSITION</b>	<b>INSTITUTION/ UNIVERSITY</b>	<b>EXPERIENCE (Year &amp;Month)</b>
10.07.2024 to till date	Professor	National engineering college, K.R. Nagar, Kovilpatti	1.0
17.08.2022 to 10.07.2024	Associate professor	National engineering college, K.R. Nagar, Kovilpatti	1.11
25.03.2022 to 16.08.2022	Professor	Maria College of Engineering and Technology, Kanyakumari	0.5
20.11.2020 to 21.03.2022	Associate Professor	Dr.B.R.Ambedkar Institute of Technology, Port Blair	1.4
28.06.2019 to 28.10.2020	Professor and HoD	Francis Xavier Engineering College, Tirunelveli	1.4
20.04.2019 to 25.06.2019	Professor and HoD	National College of Engineering, Tirunelveli	6.11
28.03.2014 to 19.04.2019	Associate Professor & HoD	National College of Engineering, Tirunelveli	
18.07.2012 to 27.03.2014	Assistant Professor	National College of Engineering, Tirunelveli	
19.01.2011 to 31.05.2012	PhD Research Scholar (Full Time)	Government College of Engg., Tirunelveli	1.6
05.07.2008 to 13.01.2011	Assistant Professor and HOD	Infant Jesus College of Engineering and Technology., Tuticorin	2.7
02.04.2002 to 24.07.2006	Site Engineer / Project Engineer	Sundararajan State level class1 Govt. Contracts	4.3

### **PhD SCHOLAR DETAILS**

Sl. No .	Name of the PhD Scholar	Reg. No.	Sessio n	Mode (Part time /Full Time)	Universit y	Area of Research	Status (Complete d / Doing)
<b>1</b> .	Moham ed Sahibull	161818910 1	Jan'1 8	Part time (Externa	Anna Universi ty	Structural Engineerin g	Comple ted on 04.08.202

	a SM.			l)	Chennai		3
2	Raja Priya P	24231897131	July 24	Part time (External)	Anna University Chennai	Construction materials & Structural engineering	Course work
3	Krishna Sankar V	24131897113	July 24	Part time (External)	Anna University Chennai	Structural Engineering	Course work
4	Tamilselvi M	24221897126	July 24	Full time	Anna University Chennai	Structural Engineering	Course work

## SOFTWARE SKILL

AutoCAD, STAAD Pro, ETAB, Origin Pro, and Basic computer knowledge.

## PUBLICATIONS (PATENT-6, TEXT BOOKS -2 & INTERNATIONAL JOURNALS-36)

### PATENT:

Sl. No.	Title of the patent	Year	Published / granted
1.	<b>STAIRCASE STEPS RULER</b>	06.02.2025	filed
2.	Spanner with key holes	14.03.2024	Granted
3.	Solar radiation measuring Instrument	20.02.2023	Granted
4.	A new plumb bob to measure the verticality in a curved structures (concave side) during the construction process	02/12/2022	Published
5.	An eco-friendly fly ash brick based solar distillation system	24/09/2021	Published
6.	Tiled solar distillation system	11/06/2021	Published
7	Production of amorphous silica-based rice husk ash for cement replacement using self-combustion techniques.	12/06/2020	Published

### BOOK:

1. **Dr.V.Kannan (2024), ‘Concrete Technology and Testing Methods’**, got approval from Raja Rammohun Roy National Agency for ISBN, Department of Higher Education, MHRD, Government of India in August 2024. ISBN: 978-93-341-1313-6 on

02.08.2024

2. **Dr.V.Kannan (2021), ‘Construction Techniques and Practices’**, got approval from Raja Rammohun Roy National Agency for ISBN, Department of Higher Education, MHRD, Government of India in January 2021. ISBN: 978-93-5437-443-2. Online Publication in Amazon Kindle on 03.02.2021 (Available at Amazon Kindle).
3. **Dr.V.Kannan (2016), ‘Construction Techniques and Practices’**, Sruthi Publishers, Chennai -95. Published in June 2016. ISBN: 978-81-933710-0-8. (paper print)

**BOOK CHAPTER/PROCEEDING:**

1. **Kannan V** and Karthiga Shenbagam (5<sup>th</sup> February 2021), Effects of Chemical Curing on the Mechanical Properties of Mineral Admixtures Blended Concrete, Springer - Advances in Materials Research, Springer Proceedings in Materials 5, DOI: [https://doi.org/10.1007/978-981-15-8319-3\\_48](https://doi.org/10.1007/978-981-15-8319-3_48). Vol.: 5, PP-477-484.

**CONSULTANCY WORKS:**

Sl. No.	Consultancy Work details	Industry/Party	Status	Date of completion	Amount
1	Re-vetting Report on Structural Design and Drawing - Construction of Bridge across Ammalpatti Odai at 0/4 of Ammalpatti to Therukumailoadai Road Bridge work taken up in Kalappaipatti Panchayat at Ottapidaram Block in thoothukudi district.	Thiru.T.Sasikumar Block Development Officer (B.P), Ottapidaram.	Completed	26.02.2025	25000
2	Structural design vetting for 1. Construction of Bridge across T.Puthupatti surplus along T.Puthupatti Chinnaiyapuram at Thalakkattapuram in Vilathikulam Block at Thoothukudi Dist. 2. Construction of Bridge across Arumugamangalam tank supply channel along 0/0 of Arumugamangalam Shanmugapuram Road at Arumugamangalam Panchayat in	Thiru.A.Murugan, B.E., Executive Engineer (RD), District Rural Development Agency, Thoothukudi.	Completed	9.12.2024	50000

	Srivaikundam Block at Thoothukudi Dist				
<b>3</b>	Construction of Bridge across T.Puthupatti surplus along T.Puthupatti Chinnaiyapuram at Thalakkattupuram in Vilathikulam Block at Thoothukudi Dist.	Selvi.R.Iswarya , I.A.S, Additional Collector (Dev)/ Project Director, District Rural Development Agency, Thoothukudi.	Completed	<b>12.11.2024</b>	<b>100000</b>
<b>4</b>	Construction of Bridge across Arumugamangalam tank supply channel along 0/0 of Arumugamangalam Shanmugapuram Road at Arumugamangalam Panchayat in Srivaikundam Block at Thoothukudi Dist.	Selvi.R.Iswarya , I.A.S, Additional Collector (Dev)/ Project Director, District Rural Development Agency, Thoothukudi.	Completed	<b>12.11.2024</b>	<b>60000</b>
<b>5</b>	Construction of Bridge across Kallaru River along Vadakku Kalmedu Panchayat in Ottapidaram Block at Thoothukudi Dist.	Selvi.R.Iswarya , I.A.S, Additional Collector (Dev)/ Project Director, District Rural Development Agency, Thoothukudi.	Completed	<b>12.11.2024</b>	<b>100000</b>
<b>6</b>	Structural Consultancy on Steel Bar Quality Assessment for Proposed Multi-Specialty Hospital at Kadayannallur	SIDONE Infrastructure Pvt. Limited 59/G5, Adura Regent Apartment, Perumalpuram Tirunelveli-7	Completed	<b>28.08.2024</b>	<b>5000</b>
<b>7</b>	Structural design vetting for Proposed Construction of Bridge across Kurinchan Odai at Km 2/600 of Perurani to Melathattaparai Road Km 0/0/-5/0 in	The Director, Rural development & Panchayat Raj (RD&PR), Panagal	Completed	<b>15.11.2024</b>	<b>80,000.00</b>

	Melathattaparai Panchayat, Thoothukudi block	Building, Saidapet, Chennai-15			
<b>8</b>	Structural design vetting for Proposed Construction of Bridge across South Main Channel at Km 0/800 of TB to Angamangalam Road in Puraiyur Panchayat.	The Director, Rural development & Panchayat Raj (RD&PR), Panagal Building, Saidapet, Chennai-15	Completed	<b>15.11.2024</b>	<b>40,000.00</b>
<b>9</b>	Structural Design vetting for the Proposed Construction of Bridge across Uppodai Branch Channel along Madurai Kanyakumari Road to Nagampatti Road (KM 0/6 to 0/8) in Savalaperi Panchayat.	The Director, Rural development & Panchayat Raj (RD&PR), Panagal Building, Saidapet, Chennai-15	Completed	<b>15.11.2024</b>	<b>80,000.00</b>
<b>10</b>	Structural Design vetting for the Proposed Construction of Bridge across Uppodai Branch Channel along Madurai Kanyakumari Road to Nagampatti Road (KM 1/2 to 1/4) in Savalaperi Panchayat.	The Director, Rural development & Panchayat Raj (RD&PR), Panagal Building, Saidapet, Chennai-15	Completed	<b>15.11.2024</b>	<b>80,000.00</b>
<b>11</b>	Structural Design vetting for the Proposed Construction of Bridge across Ammalpatti Odai at 0/4 of Ammalpatti to Therkumailodai Road in Kalappaipatti Panchayat	The Director, Rural development & Panchayat Raj (RD&PR), Panagal Building, Saidapet, Chennai-15	Completed	<b>15.11.2024</b>	<b>80,000.00</b>
<b>12</b>	Structural Design vetting for the Proposed Construction of Bridge across T.Puthupatti Tank Surplus Course Channel along Thalaikattupuram to Thangammalpuram Road in	The Director, Rural development & Panchayat Raj (RD&PR), Panagal Building,	Completed	<b>15.11.2024</b>	<b>80,000.00</b>

	Thalaikattupuram Panchayat	Saidapet, Chennai-15			
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### JOURNAL PUBLICATION:

Sl. No.	Name of the authors	Title of the paper	Journal Name, Vol, year and DOI	Year of Publication	SCI / Scopus	Impact factor	ISSN No.
<b>SCI JOURNAL PUBLICATION: 13</b>							
1	Karthiga Shenbagam Natarajan, Raja Priya P, Kannan V	Studies on strength aspect and effective use of medical face mask to make a sustainable green fiber reinforced concrete	Sigma Journal of Engineering and Natural Sciences, Vol. 43, Issue No. 1, pp. 260–268, February, 2025 DOI: <a href="https://doi.org/10.14744/sigma.2024.00048">https://doi.org/10.14744/sigma.2024.00048</a>	2025	SCI	0.6	<b>1304-7205</b>
2	Karthiga Shenbagam N, Mohanraj A & <b>Kannan V</b>	Durability performance of self-compacting concrete using binary and ternary blended pozzolanic and waste material	Innovative Infrastructure Solutions. Volume 8, article number 271, (Sep' 2023) DOI: <a href="https://doi.org/10.1007/s41062-023-01239-x">https://doi.org/10.1007/s41062-023-01239-x</a>	2023	SCI	2.4	2364-4176
3	B. Venkatesan, <b>V. Kannan</b> , M. Sophia	Application potentials of conch shell powder as a bacterial carrier for enhancing the Micro-Mechanical performance of biogenic gypsum plaster	Construction and Building Materials., <a href="#">Volume 399</a> , 5 October 2023, 132561. DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2023.132561">https://doi.org/10.1016/j.conbuildmat.2023.132561</a>	2023	SCI	7.4	0950-0618
4	<b>Kannan V</b> , Raja Priya P,	Prediction And Validation of	Innovative Infrastructure	2023	SCI	2.4	2364-4176

	Venkatesan B	Constituent Materials for Concrete Manufacturing Using Artificial Neural Network	Solutions. Volume 8, article number 160, (May' 2023) DOI: <a href="https://link.springer.com/article/10.1007/s41062-023-01127-4">https://link.springer.com/article/10.1007/s41062-023-01127-4</a>				
5	Karthiga Shenbagam N, <b>Kannan V</b>	Effect of fracture and elastic modulus properties on geopolymers reinforced with basalt fibers for an ecofriendly environment	Innovative Infrastructure Solutions. Volume 8, article number 150, (April, 2023) DOI: <a href="https://doi.org/10.1007/s41062-023-01103-y">https://doi.org/10.1007/s41062-023-01103-y</a>	2023	SCI	2.4	2364-4176
6	<b>Kannan V.</b> ; P. Raja Priya; Tharkeshwari K.; Bineta Mazumder; P. Gayatri; Jackline Neha	Assessment of water demand and potential water sources to face future water scarcity of hilly region	AQUA - Water Infrastructure, Ecosystems and Society. <b><u>Volume 72, Issue 3</u></b> 1 March 2023 DOI: <a href="https://doi.org/10.2166/aqua.2023.212">https://doi.org/10.2166/aqua.2023.212</a>	2023	SCI	4.3	<b>2709-8028</b>
7	<b>Kannan V</b> , Mohamed Sahibulla S, Raja Priya P, Julyes Jaisingh S	Effects of metakaolin on the shear capacity of EBFRC beams: An experimental and numerical investigation	Construction and Building Materials. <b><u>Volume 367</u></b> , 27 February 2023, 130291. DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2023.130291">https://doi.org/10.1016/j.conbuildmat.2023.130291</a>	2023	SCI	7.4	0950-0618



8	Dr Venkatesan B, <b>Dr Kannan V</b> and Dr Shopia	Utilization of granite powder and glass powder in reactive powder concrete: Assessment of strength and long term durability properties	Canadian Journal of Civil Engineering. <a href="#">Volume 49, Number 6, June 2022.</a> DOI : <a href="https://doi.org/10.1139/cjee-2021-0258">https://doi.org/10.1139/cjee-2021-0258</a>	2022	SCI	1.4	0315-1468
9	<b>V.Kannan</b>	Strength and durability performance of self-compacting concrete containing self-combusted rice husk ash and metakaolin,	Construction and building materials. <a href="#">Volume 160</a> , 30 January 2018, Pages 169-179. DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2017.11.043">https://doi.org/10.1016/j.conbuildmat.2017.11.043</a>	2018	SCI	7.4	0950-0618
10	V.Kannan and K.Ganesan	Effect of Tricalcium Aluminate on Durability Properties of Self-Compacting Concrete Incorporating Rice Husk Ash and Metakaolin	Journal of Materials in Civil Engineering. Volume 28, Issue 1 DOI: <a href="https://doi.org/10.1061/(ASCE)MT.1943-5533.0001330">https://doi.org/10.1061/(ASCE)MT.1943-5533.0001330</a>	2015	SCI	3.2	0899-1561
11	V.Kannan and K.Ganesan	Mechanical properties of self-compacting concrete with binary and ternary cementitious blends of metakaolin and fly ash	Journal of the South African Institution of Civil Engineering. vol.56, n.2, pp.97-105. DOI: <a href="https://scielo.org.za/scielo.php?script=sci_abstract&amp;pid=S">https://scielo.org.za/scielo.php?script=sci_abstract&amp;pid=S</a>	August'2014	SCI	0.14	1021-2019

			1021-20192014000200011				
12	V.Kannan and K.Ganesan	Chloride and chemical resistance of self-compacting concrete containing rice husk ash and metakaolin	Construction and Building Materials. <a href="#">Volume 51</a> , 31 January 2014, Pages 225-234. DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2013.10.050">https://doi.org/10.1016/j.conbuildmat.2013.10.050</a>	Jan' 2014	SCI	7.4	0950-0618
13	V.Kannan and K.Ganesan	Synergic effect of pozzolanic materials on the structural properties of self-compacting concrete	Arabian Journal for Science and Engineering. Volume 39, pages 2601–2609, (2014) DOI: <a href="https://doi.org/10.1007/s13369-013-0928-z">10.1007/s13369-013-0928-z</a>	Jan' 2014	SCI	2.9	2193-567X
14	M. Muthu Kumar, S. Rajesh1 · S. Joe Patrick Gnanaraj, <b>V. Kannan.</b>	Enhanced thermal management in solar still-pond systems for sustainable infrastructure and water purification	International Journal of Energy and Water Resources <a href="https://doi.org/10.1007/s42108-025-00357-9">https://doi.org/10.1007/s42108-025-00357-9</a>	April 19, 2025	Scopus	0	2538-3604
15	Venkatesan B, <b>Kannan V</b> , Raja Priya P, and Karthiga Shenbagam N.	Utilizing Agricultural Waste Materials for the Development of Sustainable Sound Absorption Materials	Nature Environment and Pollution Technology. Vol. 24 No. S1, pp. 285-394 2025. DOI: <a href="https://doi.org/10.46488/NEPT.2024.v24iS1.030">10.46488/NEPT.2024.v24iS1.030</a>	2025	Scopus	0.25	0972-6268
16	<b>Kannan V</b> and	Gravimetric weight	Environmental	2022	Scopus	5.03	0944-

	Karthiga Shenbagam Natarajan	loss of steel in self-compacting concrete blended with wood ash and silica fume”	science and pollution control. Volume 30, pages 9483–9495, (Sep’ 2023) DOI: <a href="https://doi.org/10.1007/s11356-022-22780-9">https://doi.org/10.1007/s11356-022-22780-9</a>				1344
17	Karthiga Shenbagam N, Sam Issac Benjamin Yacinth and <b>Kannan V</b>	Strength and durability characteristics of steel fiber-reinforced geopolymer concrete with addition of waste materials	Environmental science and pollution control. Volume 30, pages 99026–99035, (August’ 2023). DOI: <a href="https://doi.org/10.1007/s11356-022-22360-x">https://doi.org/10.1007/s11356-022-22360-x</a>	2022	Scopus	5.03	0944-1344
18	V.Kannan and P.Raja Priya	Evaluation of the Permeability of High Strength Concrete Using Metakaolin and Wood Ash as Partial Replacement for Cement	SN Applied Sciences (Springer). Volume 3, article number 90, (Jan’ 2021) DOI: <a href="https://doi.org/10.1007/s42452-020-04024-y">https://doi.org/10.1007/s42452-020-04024-y</a>	2021	Scopus	2.6	2523-3971
19	B. Venkatesan, M. Venuga, P.R. Dhevasenaa, V. <b>Kannan</b>	Experimental study on concrete using partial replacement of cement by Alccofine fine aggregate as iron powder	Materials Today: Proceedings, (Elsevier). <a href="#">Volume 37, Part 2</a> , 2021, Pages 2183-2188. DOI: <a href="https://doi.org/10.1016/j.matpr.2020.07.648">https://doi.org/10.1016/j.matpr.2020.07.648</a>	2021	Scopus	-	2214-7853

20	B. Venkatesan, V.J. Lijina, V. <b>Kannan</b> , P.R. Dhevasenaa	Partial replacement of fine aggregate by steel slag and coarse aggregate by a walnut shell in concrete	Materials Today: Proceedings, (Elsevier). <a href="#">Volume 37, Part 2</a> , 2021, Pages 1761-1766. DOI: <a href="https://doi.org/10.1016/j.matpr.2020.07.361">https://doi.org/10.1016/j.matpr.2020.07.361</a>	2021	Scopus	-	2214-7853
21	S. Gopikumar, S. Raja, P. Ebby Darney, R. Sheela Daniel, V. <b>Kannan</b>	Effective Utilization of Debris as Biased Proxy Aggregate in Optimizing the Vigor of Concrete	International Journal of Scientific and Technology Research. Volume 9, Issue 04, April 2020	2020	Scopus	-	2277-8616
22	<b>Dr.V.Kannan</b> , Sahira Banu, A.Jahana Jasmine	Effects of rice husk ash and lime on clay stabilized soil	International journal of engineering trends and technology. Vol.67, Issue:6, 2019. DOI: <a href="#">10.14445/22315381/IJETT-V67I6P207</a>	2019	Scopus	0.15	2349-0918
23	P.Raja Priya and <b>Dr.V.Kannan</b>	Performance and microstructural analysis of Portland slag cement mortar induced with pozzolanic additives	International Journal of Recent Technology and Engineering	2019	Scopus	-	2277-3878
24	Dhanalakshmi <b>K, Kannan V</b>	Influence of GFRP rebars diameter on bond characteristics of reinforced cement concrete	Materials today: Proceeding	2023	Scopus	-	2214-7853
25	N. Karthiga @ Shenbagam, M. Arun Siddharth, V.	Experimental investigation of self-compacting concrete (SCC) using fly ash	Materials today: Proceeding	2023	Scopus	-	2214-7853

	<b>Kannan, C. Dhanusree</b>						
26	V.Kannan	Relationship between UltraSonic Pulse Velocity and Compressive Strength of Self Compacting Concrete incorporate Rice Husk Ash and Metakaolin	Asian Journal of Civil Engineering. <a href="#">Volume 16, Number 8- December C 2015</a> . DOI: <a href="https://link.springer.com/journal/42107">https://link.springer.com/journal/42107</a>	2015	Scopus	0.2	1563-0854
27	<b>V.Kannan</b>	Soft Computation of Permissible Stresses of Cold-Formed Compression Members Using Back Propagation System	International Journal of Innovative Science, Engineering & Technology	2015	Scopus	-	
28	<b>V.Kannan</b> and K.Ganesan	Effects of Binary and Ternary Cementitious Blends on the Mechanical Properties of Self Compacting Concrete	Australian Journal of Basic and Applied Sciences	2014	Scopus	-	
29	<b>V.Kannan</b> and K.Ganesan	Evaluation of mechanical and permeability properties of self-compacting concrete containing metakaolin	Scientific Research and Essays	2012	Scopus	-	
30	Karthiga @ Shenbagam N, Santhosh R and <b>Kannan V</b>	Comparison of seismic performance of reinforced concrete frame structure and composite frame structure using response spectrum analysis	Materials Science and Engineering	2020	-	-	
31	<b>Dr.V.Kannan</b> , Dr.B.Venkatesan, V.Krishnasankar, and P.Raja Priya	An Experimental Study on the Strengthening of Concrete Column Using Glass Fibre Wrapping	GEDRAG & ORGANISATI E REVIEW	2020	-	-	
32	S. M. Mohamed	The Consistency, Setting Time and	Journal of Cement Based	2022	-	-	

	Sahibulla, I, S. Julyes Jaisingh, <b>V. Kannan</b>	Compression Strength of Pozzolanic Materials: A Taguchi Gray Validation	Composites				
33	<b>V.Kannan</b>	Strength Properties of Concrete Using Ternary System	Asian Journal of Science and Technology	2017	-	-	
34	<b>V. Kannan, K.Ganesan</b>	Strength and water absorption properties of ternary blended cement mortar using rice husk ash and metakaolin	Scholarly Journal of Engineering Research	2012	-	-	
35	<b>Kannan V, Ganesan K</b>	Mechanical and transport properties in ternary blended self-compacting concrete with metakaolin and fly ash	IOSR Journal of Mechanical and Civil Engineering	2012	-	-	
36	<b>V.Kannan</b>	Design of Cold Formed Steel Compression Members Using Artificial Neural Network	International Journal of Engineering Sciences & Research Technology	2015	-	-	

#### GUEST LECTURE

1. **Dr.V.Kannan** has acted as a Resource Person for 5 days FDP on AI Application and Recent Trends in Civil Engineering held from 05.02.2025 to 09.02.2025 at J.P. College of Engineering, Tenkasi. Topic: Application of Artificial Neural Network (ANN) in the prediction of Compressive strength of concrete. Date:05.02.2025.

#### INTERNATIONAL LEVEL CONFERENCES-6

1. **V.Kannan**, presented a paper on “Sustainable Geopolymer Concrete Incorporating Ceramic and Concrete Waste and Its Influence on Mechanical and Microstructural Properties” in 6th International Conference on “**SUSTAINABLE ENVIRONMENT & CIVIL ENGINEERING**” Organized by **Department of Civil Engineering, Easwari Engineering College, Ramapuram, Chennai, India** held on 27th & 28th March 2025.
2. **V.Kannan**, “Experimental investigation of self-compacting concrete using fly ash and granite waste”, Second International Conference on Construction Materials and Structures (ICCMS- 2022), National Institute of Technology Calicut, Kerala, held on 13-19 December 2022
3. **V.Kannan**, “Prediction of constitution materials for self-compacting concrete using Artificial Neural Network”, International conference on emerging trends in material science, organized by department of civil engineering, Rohini College of Engineering and Technology, Kanyakumari, held on 18<sup>th</sup> and 19<sup>th</sup> August 2021.

4. **Karthiga @ Shenbagam N, Santhosh R and Kannan V (March 2020)**, *Comparison of seismic performance of reinforced concrete frame structure and composite frame structure using response spectrum analysis*, IOP Conference Series: Materials Science and Engineering 764 (2020) 012057, doi:10.1088/1757-899X/764/1/012057 (ISSN 1757-899X, Scopus indexed),
5. **V.Kannan**, “Durability assessment of self-compacting concrete containing metakaolin and fly ash” International conference on recent innovations in science engineering and technology – ICRISSET’15, held on Immanuel Arasar JJ College of Engineering, Marthandam, 05<sup>th</sup> to 06<sup>th</sup> March 2015.
6. **V.Kannan**, “Permeability properties of high performance concrete containing mineral admixtures” International conference on Recent innovations in science engineering and technology – ICRISSET’14, held on Immanuel Arasar JJ College of Engineering, Marthandam, 02<sup>nd</sup> to 03<sup>rd</sup> April 2014.
7. **V.Kannan**, “Dynamic modulus of elasticity of metakaolin blended high-performance concrete” International conference on Emerging trends in engineering and technology, held on Trabancore engineering college, 31<sup>st</sup> March to 01<sup>st</sup> April 2014.

## NATIONAL LEVEL CONFERENCES-9

The following papers were presented in national level conference,

1. **V.Kannan**, “Experimental and Numerical Evaluation of Retrofitted Reinforced Concrete Beam-column joint under cyclic loading”, National conference on Recent Advances in Construction Materials and Structures, during February 2-3, 2023 held at PSG college of Technology, coimbatore.
2. **V.Kannan**, “Corrosion of steel in self-compacting concrete”, National conference on Advances in Civil Engineering (NCACE T16), held at C.S.I Institute of Technology Thovalai, 1<sup>st</sup> April 2016
3. **V.Kannan**, “The influence of metakaolin and rice husk ash on fresh state properties of self-compacting concrete”, National conference on Recent Advancement in Civil Engineering, held on The Indian Engineering College, Tirunelveli, 8<sup>th</sup> April 2013
4. **V.Kannan**, “Prediction of mechanical properties using artificial neural networks”, National conference on communication, VLSI & Signal processing, The Rajaas Engineering college, Tirunelveli 15<sup>th</sup> & 16<sup>th</sup> April 2012.
5. **V.Kannan**, “Fresh state properties of self-compacting concrete containing rice husk ash and metakaolin in ternary systems”, National level conference on Recent Advances and techniques in Civil Engg., held on The Indian Engg. Col., Tirunelveli, 22<sup>th</sup> March 2012.
6. **V.Kannan**, “The relationship between silica ratio and chloride penetration of self-compacting concrete using Back propagation systems”, National conference on communication, VLSI & Signal processing, The Rajaas Engineering college, Tirunelveli 7<sup>th</sup> & 8<sup>th</sup> April 2011.
7. **V.Kannan**, “Durability Assessment of Self Compacting Concrete with Fillers”, National conference on Recent Advancement in Civil Engineering, held at The Indian Engineering College, Tirunelveli, 16<sup>th</sup> April 2010.
8. **V.Kannan**, “Neural Network model for design of steel compression members”,

“National Level Conference on Vision of India with technological excellences”, held at The Indian Engineering College, Anna University Tirunelveli, 7th & 8th February 2008.

9. **V.Kannan**, “Neural Network model for Distortional Buckling behaviour of compression members”, National Level Conference on “Advances in Steel, Concrete, Composite and Aluminium Structures”, held at Hindustan Engineering College, Tamil Nadu, 24th and 25th April 2008.

#### **WORKSHOP/ SEMINAR/ FDP ATTENDED / Online courses-39**

1. **Dr.V.Kannan**, Professor of National Engineering college, THOOTHUKUDI, TAMILNADU has participated in the “Five-Day Online Capacity Building Programme on Leveraging AI for Efficient Thesis Writing: Tools, Techniques & Strategies,” Organized by Anna University, Department of Industrial Engineering, Chennai, India in collaboration with CEDAAR, Chennai, India from 10th to 14th February 2025.
2. **Dr.V.Kannan** has been awarded Elite (62%) in the NPTEL online certification course / 12 weeks (Jan-April 2024) & Faculty Development Program on Maintenance and Repair of Concrete Structures.
3. **Dr.V.Kannan** has undergone one week of FDP on Nurturing Intent, Initiative, and Innovation for Business Startups" from January 8th to 12th, 2024, the training program organized by the EDIC Department of NITTTR, Chandigarh.
4. **Dr.V.Kannan** has been awarded the NPTEL online certification course / 12 week (July - Oct 2023) on Strength of Materials with Elite (66%) category.
5. **Dr.V.Kannan** has participated in, International Seminar on Quality Assurance through Accreditation held in hybrid mode at Dr. APJ Abdul Kalam Academic Complex, NITTTR, Chennai, India on November 24, 2022.
6. **Dr.V.Kannan** has participated in the Professional Development Programme on "Soft Skill for Teachers" - 17.10.2022 to 21.10.2022, conducted by NITTTR, chennai
7. V. Kannan has been awarded Elite in the NPTEL online certification course / 12-week (Jan-April 2023) faculty development program in Concrete Technology, IIT Delhi.
8. **Dr.V.Kannan** has participated in ATAL FDP on "Waste Management Practices for Future India" - 13.09.2021 to 17.09.2021, conducted by University College of Engineering, Anna University, Ramanathapuram.
9. **Dr.V.Kannan has participated in an International webinar on “In-situ Testing of Wire Ropes Used in Suspension Bridges and Other Installations” organised by the** Department of Civil Engineering, SRM Institute of Science & Technology. Ramapuram, Chennai and Indian Society for Non-Destructive Testing, in association with Intron Plus on 30th July 2021.
10. **Dr.V.Kannan has completed the workshop's requirements on “Effective and Efficient Online Teaching” on Saturday, 12th June 2021.** The workshop is supported by the “BodhiTree: A Platform for Improving Learning Outcomes using Online Interactive Courses and Assessed Labs” project funded by the Tata Centre for Technology and Design (IIT Bombay).
11. Dr.V.Kannan has participated in a three-day faculty development programme on



**Advances in Finite Element Methods** on 18<sup>th</sup> to 20<sup>th</sup> February 2021, conducted by vidya Jyothi institute of Technology funded by TEQIP-III, Jawaharlal Nehru technological university hyderabad

12. **V.Kannan**, participated four days online workshop on "Train the Trainers on Examination Reforms" on 4, 5, 6 and 7<sup>th</sup> Dec 2020 Conducted by BVB college of engineering and technology, Hubballi in collaboration with National Project Implementation Unit (NPIU)- Online
13. V.Kannan, has successfully completed the AICTE Sponsored STTP on Structural Health Monitoring and Seismic Protection of Structures and Infrastructural Systems - Phase II" during 3-8 August 2020 conducted by the Civil Engineering Department, Bannari Amman Institute of Technology-Online
14. V.Kannan, participated one day hands on training on "The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop" on 20<sup>th</sup> June 2020 (3 days of pre- and post- workshop online activities) Conducted by IIT Bombay India – Online
15. V.Kannan, participated one day hands on training on "Effective and Efficient Online Teaching in the Age of Corona a Hands-on Workshop" on 16<sup>th</sup> May 2020 Conducted by IIT Bombay India - Online
16. V.Kannan, Participated in a Two days online workshop on "Fuzzy Logic and Neural Network Approaches for Engineering Solutions" on 3<sup>rd</sup> & 4<sup>th</sup> May 2020 Conducted by Journal of advanced engineering research and Hexacube India. – Online.
17. V.Kannan, Participated in a Four days online workshop on “Examination Reforms” From 22<sup>nd</sup> April. to 25<sup>th</sup> April, 2020 Conducted by AICTE, Bangalore. - Online
18. V.Kannan, participated in a two days workshop on Intellectual Property Rights & Entrepreneurship, organized by the PMO-IEDP (Programme Monitoring Office – Innovation & Entrepreneurship Development Programme) From 28<sup>th</sup> Nov. to 29<sup>th</sup> Nov. 2019 at Anna University Regional Campus, Tirunelveli hub.
19. V.Kannan, Participated and completed a **twelve-week** AICTE approved online NPTEL course (Equivalent to one and half week FDP) by IIT Kharagpur on Design of Reinforced Concrete Structures, July 2019 to October 2019
20. **V.Kannan**, Participated and completed a **twelve-week** AICTE approved online NPTEL course (Equivalent to one and half week FDP) by IIT Kharagpur on Soil mechanics and geotechnical engineering, Jan 2019 to April 2019
21. **V.Kannan**, has successfully completed “**C2CFL1xS19: Financial Literacy**”, an online course, under the ‘College to Corporate’ Program, conducted from 19 February 2019 to 18 March 2019. This course is offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay.
22. **V.Kannan**, has successfully completed “**C2CEN1xS19: English for Oral Communication**”, an online course, under the ‘College to Corporate’ Program, conducted from 19 February 2019 to 17 April 2019. This course is offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay.
23. **V.Kannan**, has successfully completed “**C2CHP1xS19: Handling Large Projects**”, an online course, under the ‘College to Corporate’ Program, conducted from 26 March 2019 to 22 April 2019. This course is offered by IITBombayX, an online learning initiative of Indian Institute of Technology Bombay.

24. **V.Kannan**, participated in a **twelve-week** AICTE approved online NPTEL course (Equivalent to one and half week FDP) by IIT Madras on Advanced Concrete Technology, July 2018 to Oct. 2018
25. **Dr. V.Kannan**, Participated in a **Four Week** AICTE approved FDP by IIT Bombay on - Use of ICT in Education for Online and Blended Learning Conducted by IIT Bombay on National College of engineering, Tirunelveli, 2<sup>nd</sup> May 2016 to 10<sup>th</sup> July, 2016.
26. **Dr.V.Kannan**, Participated in **five days** Train –the- Trainer Program (Workshop) on Foundation Skill in Integrated Product Development (FSIPD) conducted by ANNA UNIVERSITY REGIONAL CAMPUS- TIRUNELVELI, 26.03.2016 to 30.03.2016.
27. **V.Kannan**, participated in **five days** ISTE COORDINATOR WORKSHOP on INTRODUCTION TO STRUCTURAL ENGINEERING Conducted by IIT Kharagpur on IITK Campus Kharagpur, 27 Sep to 02 Oct- 2015.
28. **V.Kannan**, participated in **five days** ISTE COORDINATOR WORKSHOP on ENVIRONMENTAL STUDIES Conducted by IIT Bombay on IITB Campus Bombay, 23<sup>rd</sup> to 28<sup>th</sup> March 2015.
29. **V.Kannan**, participated in a **Two-Week** ISTE WORKSHOP on FLUID MECHANICS Conducted by IIT KARAGPUR on National college of engineering, Tirunelveli, 20<sup>th</sup> to 30<sup>th</sup> May, 2014.
30. **V.Kannan**, participated in a **Two-Week** ISTE WORKSHOP on ENGINEERING MECHANICS Conducted by IIT Bombay on National college of engineering, Tirunelveli, 26<sup>th</sup> Nov to 06<sup>th</sup> Dec, 2013.
31. **V.Kannan**, participated in **one day** All India Council for Technical Education (AICTE) Sponsored seminar on OPTIMIZATION TECHNIQUES IN ELECTRICAL SYSTEMS, Conducted by National College of engineering, Tirunelveli, 12<sup>th</sup> Nov 2013.
32. **V.Kannan**, Participated in the faculty development training program on “CE 2202-MECHANICS OF FLUIDS” at Department of Civil Engineering, Anna University Thoothukudi Campus from 19th to 26th June 2013.
33. **V.Kannan**, participated in a **one day** workshop on “Internal auditing system” conducted by National College of engineering, Tirunelveli, 16<sup>th</sup> and 17<sup>th</sup> Nov, 2012.
34. **V.Kannan**, participated in a **Two days** ISTE Workshop on “Aakash for Education”, Conducted by IIT Bombay on National college of engineering, Tirunelveli, 10<sup>th</sup> and 11<sup>th</sup> Nov 2012.
35. **V.Kannan**, participated in **one days** NPTEL workshop on “National Program on Technology Enhanced Learning (IIT Madras)” conducted by National College of engineering, Tirunelveli, 5th Oct 2012.
36. **V.Kannan**, participated in the national level seminar on “Recent Development in Soft Energy Technology and ENERGY EXPO-2012” on 26<sup>th</sup> July 2012 on National College of Engineering, Tirunelveli.
37. **V.Kannan**, participated in a one-day workshop on “*GIS & REMOTE SENSING*”, conducted by Dr. Sivanthi Aditanar College of Engineering, Tiruchendur on 18<sup>th</sup> September 2010.
38. **V.Kannan**, participated in a **one Day** workshop on “Recent trend in internal

combustion Engine-RTICE'10", conducted by Infant Jesus College of Engineering and Technology, Tuticorin on 28<sup>th</sup> Aril 2010.

39. **V.Kannan**, took part in the "Career Guidance" seminar held at The Indian Engineering College, Tirunelveli, 15<sup>th</sup> March 2007.

#### ACHIEVEMENTS:

1. NPTEL Discipline Star in Civil Engineering Domain on July – Dec 2024
2. **V. KANNAN** has successfully completed the translation edit task Assigned by NPTEL in the **Machine Learning Tool – TransLingua** for the **Tamil** language. **Edited Hours: 11.5**  
**Date:** July 11, 2025. **Course:** Geosynthetics and Reinforced Soil Structures (105106052).

#### NPTEL COURSES:

Timeline	Name	Course Name	Assignment score out of 25	Exam score out of 75	Final Score out of 100
Jul-Oct 2024	KANNAN V	Introduction to Engineering Seismology, IISc Bangalore	22.78	57	80
Jan-Apr 2024	KANNAN V	Maintenance and Repair of Concrete Structures	25.00	37	62
Jul-Oct 2023	KANNAN V	Strength Of Materials - IITKGP	23.50	42	66
Jan-Apr 2023	KANNAN V	Concrete Technology	23.13	49.47	73
Jul-Oct 2019	KANNAN V	Design of Reinforced Concrete Structures	23.44	41.25	65
Jan-Apr 2019	KANNAN V	Soil Mechanics / Geotechnical Engineering I	22.06	23.25	45
Jul-Oct 2018	KANNAN V	Advanced Concrete Technology	22.25	24	46

#### PROFESSIONAL ASSOCIATED ACTIVITIES

1. Registered Structural Engineer (Grade-I), **Empanel Member in DCTP** Tamilnadu.
2. Indian Green Building Council (IGBC) Bearing Membership No IGBCIM01232243 This certificate shall be valid up to 31 October 2024
3. Member in **Institution of Engineers (India)**, **FIE** – Membership No.: F-1277797
4. EI chartered engineer (Membership No.: F-1277797)
5. Member in "**International Association of Engineering (IAENG)**"- membership

No.:134478

6. Member of “**Science and Engineering Institute (SCIEI)**”- membership No.:20130913002.
7. Doing consultancy for concrete structures and design of various Civil Engg. Structures like RCC framed structures, Bridges, Elevated Water Tanks etc.,
8. Plan and estimation for various civil Engineering structures were carried out.
9. Acting as a journal reviewer for reputed journal companies.

### Program Organized

Year	Department	Subject Name	Funded by	Total Amount Sanctioned by IIT's/AICTE
2015	Civil Engineering	Introduction to structural analysis	IIT Kharagpur	85,435
2015	Civil Engineering	Environmental studies	IIT bombay	1,30,336
2020	Civil Engineering	AICTE Funded short term training program on Basic of Remotes Sensing, Geographical Information System (GIS) and Global Navigation Satellite System (GNSS)	AICTE, Newdelhi	3,43,000

Also, as a Remote centre coordinator of Indian Institute of Remote Sensing (IIRS-ISRO) Dehradun, the following courses were conducted;

1. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Satellite Photogrammetry and its Application**” conducted by Indian Institute of remote sensing (IIRS) during June 29, 2020 to July 03, 2020
2. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Health GIS : Geoinformatics for COVID19**” conducted by Indian Institute of remote sensing (IIRS) during June 15, 2020 to June 19, 2020
3. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Overview of Planetary Geosciences with special emphasis to the Moon and Mars**” conducted by Indian Institute of remote sensing (IIRS) during June 08, 2020 to June 12, 2020.
4. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Machine Learning for Remote Sensing Data Classification**” conducted by Indian Institute of remote sensing (IIRS) on June 1, 2020.

5. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Basics of SAR Remote Sensing**” conducted by Indian Institute of remote sensing (IIRS) during May 26, 2020 to May 30, 2020
6. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Basic Principles of Remote Sensing Technology**” conducted by Indian Institute of remote sensing (IIRS) during April 13, 2020 to April 25, 2020.
7. **DR. V. KANNAN**, working with **FRANCIS XAVIER ENGINEERING COLLEGE**, has coordinated the online training course on “**Geo-processing and Visualization on Web Platform**” conducted by Indian Institute of remote sensing (IIRS) during January 27, 2020 to February 07, 2020.

**Dr.V.KANNAN**