



Dr.K.Sudalaimani

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Educational Qualification

DEGREE	BRANCH	INSTITUTE	YEAR
B.E	Civil Engineering	Thiagarajar College of Engineering	1989
M.E	Structural Engineering	Thiagarajar College of Engineering	1992
Ph.D	Civil Engineering	Madurai Kamaraj University	2009

Experience

PERIOD	NO OF YEARS	DESIGNATION	INSTITUTION
12-12-2009 to Till date	9 years	Professor	Thiagarajar college of engineering
07-04-2006 to 11-12-2009	3 years 8 months	Associate Professor	Thiagarajar college of engineering
01-11-2004 to 06-04-2006	2 years 6 months	Assistant Professor (Selection grade lecturer)	Thiagarajar college of engineering
01-10-1998 to 31-10-2004	6 years	Senior grade lecturer	Thiagarajar college of engineering
01-04-1993 to 30-09-1998	5 years 6 months	Lecturer	Thiagarajar college of engineering
01-09-1984 to 31-03-1993	9 years 5 months	Junior drafting officer	Thiagarajar college of engineering
07-04-1993 to 28-03-2007	14 years	Building engineer - To look after construction & maintenance of buildings	Thiagarajar college of engineering
01-03-2008 to 30-06-2013	5 years	Professor-in-charge maintenance, Development and restoration cell	Thiagarajar college of engineering

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Publications

Journals

1. Rajapriyadharshini.J.R & K.Sudalaimani, "Numerical Study on the suitability of DualSPHysics for Disaster Risk Management Program", Regional Studies in Marine Sciences (Under Review)
2. Rajapriyadharshini.J.R & Sudalaimani.K, "LSQ based SPH approach in evaluating the impact of sea wall for Tsunami bores", Gradevinar (Accepted)
3. Rajapriyadharshini.J.R & K.Sudalaimani, "Dam break analysis of Mullaiperiyar reservoir for environmental protection - A Numerical Approach", Journal of Environmental Protection & Ecology, Volume 21, Issue no.4, 1404 - 1413 pp, 2020
4. S.P. Murali Kannan, K. Sudalaimani, "Spatial Time Dependent Reliability Analysis of Carbonation with Climate Change", Polish Journal of Environmental Studies, 2020
5. Sugila Devi, K.Sudalaimani & Shanmuga Sundaram, "Investigation on calcined magnisium - based mineral powder and its behaviour as alternative binder", Advances in Material Science and Engineering, August 2020
6. Rajapriyadharshini.J.R, N. Yugesh kanna & K.Sudalaimani, "Review on Tsunami wave propagation and their interaction with structures", American Journal of Engineering Research, Vol.9, Issue 3, 289 - 298 pp, 2020
7. Application of Mesh-free particle Methods in Structural Engineering, Journal of Applied Science and Computations, Vol. VI, Issue V, 1234 - 1238 pp, May 2019
8. Numerical Assessment of Dam Safety Risk by Smoothed Particle Hydrodynamics (SPH) method, Journal of Applied Science and Computations, Vol. VI, Issue V, 1239 - 1244 pp, May 2019
9. Effect of bio-additives on physico-chemical properties of fly ash-ground granulated blast furnace slag based self cured geopolymer mortars, Journal of Hazardous materials, 361 (2019), 56 - 63
10. Properties of fiber reinforced high performance concrete - A case study, International Journal of Engineering Research & Technology, Vol.8, Issue 2, Feb, 2019
11. Oil spill trajectory forecast with the aid of GNOME, Research journal of marine sciences, vol.5(3), 1-6, Nov 2017
12. An investigation on self - compacting concrete using Ultrafine natural Steatite powder as replacement to cement, Journal for Advances in Material Science and Engineering, Volume 2017, Article ID 8949041, 1-8 PP, August 2017
13. Investigation on mechanical properties of fly ash - ground granulated blast furnace slag based curing bio-geopolymer concrete, Journal of Construction and Building materials, Elsevier, 140(2017), 338 - 349 PP, May 2017

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14. Experimental Investigation on Durability and Mechanical properties of Self Compacting Concrete using Mineral Admixtures, SSRG International Journal of Civil Engineering, April 2017, 759 - 764 PP, ISSN: 2348-8352.
15. Mechanical properties of high performance concrete using steatite powder, SSRG International Journal of Civil Engineering, April 2017, 732 - 737 PP, SSN: 2348-8352.
16. Experimental Investigation on Strength Characteristics of Hybrid Fiber Reinforced Self Compacting Concrete, IJSTE - International Journal of Science Technology & Engineering, Vol 3, Issue 05, November 2016
17. A study on natural Adsorbents for the removal of Chloride ion in water, International Journal of Engineering Research and Technology, vol 1 issue5, july 2012
18. A Study on Effect of Ultra Fine Steatite on High Performance Concrete, Jokull journal, vol 63, No.7, july 2013
19. Influence of Ultra Fine Natural Steatite Powder on Setting time and Strength Development of Cement, Journal of advances in material science and Engineering, 2014.
20. An Investigation on High Performance Concrete with Ultra Fine Natural Steatite Powder, An International Interdisciplinary Journal, vol 17, issue 6, 2014.

Conferences

1. RAJAPRIYADHARSHINI.J.R & SUDALAIMANI.K, "NUMERICAL STUDY ON THE SUITABILITY OF DUALSPHYSICS FOR DISASTER RISK MANAGEMENT PROGRAM", SECOND ASCE INDIA CONFERENCE ON CHALLENGES OF RESILIENT AND SUSTAINABLE INFRASTRUCTURE, MARCH 2020
2. Rajapriyadharshini.J.R, Sudalaimani.K, "Application of SPH model for Dam break flows at Mullaiperiyar reservoir", International Conference on Advances in Coastal Research with special reference to Indo - Pacific AdCoRe IP, at NIOT, Chennai, Dec 17 - 19, 2019
3. Rajapriyadharshini.J.R, Sudalaimani.K, "LSQ based SPH approach in evaluating the impact of sea wall for Tsunami bores", Sixth Biennial Conference of Ocean Society of India, CMLRE, Kochi, Dec 12 - 14, 2019
4. K.Sudalaimani, A study of concrete filled steel box beams , National Conference on Recent Developments in Civil Engineering 2009 NCRCE 09, Kalasalingam University Krishnan Kovil , April 2009
5. K.Sudalaimani, Experimental Investigation of FRP jacketed concrete column, National conference on advances and Innovations in Civil Engineering 2009 AICE 09 at Mepco Schlenk Engineering College Sivakasi, March 2009
6. K.Sudalaimani, Experimental Investigation on Concrete filled steel box beams, National Conference on recent trends in Civil Engineering 2009 NCRTCE 09 at Dr. Sivaiah Adinarayana College of Engineering Thiruchenthrur , April 2009

March 2009

7. K.Sudalaimani, Experimental study on concrete filled steel box members , National Seminar on Disaster Mitigation and Rehabilitation of Structures, Annamalai University Annamalai Nagar, March 2009

8. K.Sudalaimani, Flexural strength of RCC Beam made of high volume flyash concrete , National Conference on NCIMMDRS 2008 at Kongu Engineering College Perundurai , April 2008

9. K.Sudalaimani, A comparative study on strength and shrinkage properties of high volume flyash concrete with control concrete , National Conference on NCIMMDRS 2008 at Kongu Engineering College Perundurai , April 2008

10. K.Sudalaimani, Influence of Environmental parameters on chloride induced corrosion over RCC structures , National conference on the state of Art about the recent theories, techniques and design in Structural Engineering 2007 RTTDSE 2007 at Bannariamman Institute of Technology Sathyamangalam , April 2007

11. K.Sudalaimani, Flexural behaviour of SCFRC beam using recron 3s fibers , National Conference on RTCCSS 2007 at Kongu Engineering College Perundurai , March 2007

12. A.Rajasekar, Dr.K.Arunachalam, S.Herald Lessly and Dr.K.Sudalaimani (2014), "Durability study on Ultra High Strength Concrete with waste granite sand as partial substitute for aggregate", Seventeenth National Congress on Corrosion Control, NCCI, CSIR-CECRI, Karaikudi, 21st to 23rd August 2014

Books

1. Durability study on coal fly ash - blast furnace slag geopolymer concrete with bio-additives, Ceramics International, Elsevier, 43(2017) 11935-11943 PP, June 2017.

2. Experimental Investigation on Strength Characteristics of Hybrid Fiber Reinforced Self Compacting Concrete, International Journal of Science Technology and Engineering, Volume 3, Issue 05, November 2016

Industry Interactions

COMPANY NAME	NATURE OF WORK	PERIOD	DETAILS
Annamalai University	Meeting	21-02-2016 to 21-02-2016	Member, Board of Examiner
Madurai Housing Unit of Tamilnadu Housing Board	Meeting	18-12-2015 to 18-12-2015	Technical Committee member
K.L.N.College of Information Technology	Selection of Teaching Staff	09-09-2015 to 09-09-2015	Staff Selection Committee member

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COMPANY NAME	NATURE OF WORK	PERIOD	DETAILS
The Gandhigram Rural Institute	Meeting	14-03-2015 to 14-03-2015	Building Committee Member
Anna University, Chennai	Inspection	09-03-2015 to 09-03-2015	Member of Inspection Committee
Anna University, Chennai	Inspection	09-03-2015 to 09-03-2015	Member of Inspection Committee
K.L.N.College of Information Technology	Meeting	01-10-2014 to 01-10-2014	Technical Organiser
St.Mother Therasa Engineering College	Meeting	26-08-2014 to 26-08-2014	Chief Guest
Anna University Regional office Madurai	Inspection Duty	02-02-2014 to 03-04-2014	Member
Sethu Institute of Technology	Meeting	28-11-2013 to 28-11-2013	Question paper Scrutiny Board
Bharathidasan University	Meeting	17-04-2013 to 17-04-2013	Member, Adhoc Committee

Seminar, Conference, Workshop Attended

1. Rajapriyadharshini.J.R., Sudalaimani.K, "Application of SPH for dam break flows at Mullaiperiyar reservoir", International conference on Advances in Coastal Research with special reference to Indo - Pacific AdCoRe IP 2019, NIOT, Chennai, Dec 17 - 19, 2019., 17-12-2019 to 19-12-2019
2. Rajapriyadharshini.J.R., Sudalaimani.K., "LSQ based SPH approach in evaluating the impact of seawall for Tsunami bores", Sixth biennial conference of the Ocean Society of India, CMLRE, Kochi, Dec 12 - 14, 2019, 12-12-2019 to 14-12-2019
3. J.R.Rajapriyadharshini, K.Sudalaimani, "Numerical Assessment of dam safety risk by SPH method", International conference on recent trends in engineering technology and management, March, 2019, 29-03-2019 to 30-03-2019
4. J.R.Rajapriyadharshini, K.Sudalaimani, "Application of Mesh free Particle Method in Structural Engineering", International conference on recent trends in engineering technology and management,, 29-03-2019 to 30-03-2019
5. Durability of concrete structures, ITM, Chennai,
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6. Durability of concrete structures, ITM, Chennai,

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7. Faculty training program on instructional design nad delivery, Thiagarajar College Of Engineering, Madurai, Oct 25-31, 2004
8. Modern surveying and computer applications, NITTR, Chennai, Sep 6-7, 2004
9. Hazardous waste management, IITM, Chennai, July 7-18, 2003
10. Advance in concrete technology with emphasis on HPC, Pondicherry Engineering College, Pondicherry, Dec 3-14, 2001
11. Reduction on corrosion in steel reinforcement using zinc coating, INSDAG, Bangalore, Oct 3-14, 2001
12. Workshop on steel composite structures, Anna University, Chennai, March 22-25, 2000
13. Ground water potential and evaluation techniques, Thiagarajar College Of Engineering, Madurai, 2 weeks, March 1998
14. Strategic quality management of technical education, PSG College of Technology, Coimbatore, May 16-31, 1997
15. Modern trends in computer aided Non-linear analysis and design of structures, CIT, Coimbatore, Dec 16-31, 1996
16. Construction materials testing (Theory and Practice), IITM, Chennai, June 15-30, 1996
17. Interior design practice, NIT, Calicut, May 16-31, 1995
18. Advanced reinforced composites and design techniques, NIT, Calicut, May 1-15, 1995
19. Teqip sponcered workshop on Utilisation of Solid Wastes in Concrete, Thiagarajar College of Engineering, Madurai, Dec 16, 2013, 01-01-0001 to 01-01-0001
20. Teqip sponcered workshop on Outcome based Education, Thiagarajar College of Engineering, Madurai, NOV 4-5, 2013, 01-01-0001 to 01-01-0001
21. Influence of cement content and curing regimes on compressive behavior of ultra high strength concrete, National conference NCSSBMM, march 2014, Kamarajar College of Engineering, Virudhunagar, 01-01-0001 to 01-01-0001
22. One week workshop on Entreprenership Development, Vikram College of Engineering, Sivagangai, Dec 5-11, 2011., 01-01-0001 to 01-01-0001
23. Professional Development Programme on Bridges an Culverts- Planning Design and Execution, Engineering Staff College of India, Hydrabad, 28-30 oct, 2013, 01-01-0001 to 01-01-0001
24. Recent Development in Construction Technology, Pondichery Engineering College, Puduchery 23 Nov-27 nov, 2015, 01-01-0001 to 01-01-0001

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25. Introduction to Structural Engineering, IIT, Karakpur, Nov30- Jan 9, 2016., 01-01-0001 to 01-01-0001
26. 15.Introduction to Structural Engineering, IIT, Karakpur, Nov30- Jan 9, 2016., 01-01-0001 to 01-01-0001
27. Construction Planning and management, KLU, Krishnankoil, May 2-14, 2016., 01-01-0001 to 01-01-0001
28. Durability and its Implications in Reinforced Concrete Design, IIT Chennai, jan 3-8, 2008, 01-01-0001 to 01-01-0001
29. Compressive Behavior of Ultra-High Performance concrete with varying cement content, National conference on the Advancement in material, construction, and sustainable environment, march 2014, KLU, Krishnankoil., 01-01-0001 to 01-01-0001
30. K.Sudalaimani, Flextural behaviour of SCFRC beam using recron 3s fibers , National Conference on RTCCSS 2007 at Kongu Engineering College Perundurai , March 2007 , 01-01-0001 to 01-01-0001
31. K.Sudalaimani, Influence of Environmental parameters on chloride induced corrosion over RCC structures , National conference on the state of Art about the recent theories, techniques and design in Structural Engineering 2007 RTTDSE 2007 at Bannariamman Institute of Technology Sathyamangalam , April 2007, 01-01-0001 to 01-01-0001
32. K.Sudalaimani, Flexural strength of RCC Beam made of high volume flyash concrete , National Conference on NCIMMDRS 2008 at Kongu Engineering College Perundurai , April 2008, 01-01-0001 to 01-01-0001
33. K.Sudalaimani, A comparative study on strength and shrinkage properties of high volume flyash concrete with control concrete , National Conference on NCIMMDRS 2008 at Kongu Engineering College Perundurai , April 2008, 01-01-0001 to 01-01-0001
34. K.Sudalaimani, Experimental study on concrete filled steel box members , National Conference modern trends in Civil Engineering 2009 NCMTC 09 at Dr. Sivanthi Aditanar College of Engineering Thiruchenthur , March 2009, 01-01-0001 to 01-01-0001
35. K.Sudalaimani, Experimental study on concrete filled steel box members , National Seminar on Disaster Mitigation and Rehabilitation of Structures, Annamalai University Annamalai Nagar, March 2009 , 01-01-0001 to 01-01-0001
36. K.Sudalaimani, Experimental Investigation of FRP jacketed concrete column, National conference on advances and Innovations in Civil Engineering 2009 AICE 09 at Mepco Schlenk Engineering College Sivakasi, March 2009 , 01-01-0001 to 01-01-0001
37. K.Sudalaimani, A study of concrete filled steel box beams , National Conference on Recent Developments in Civil Engineering 2009 NCRUDE 09, Kalasalingam University Krishnan Kovil , April 2009, 01-01-0001 to 01-01-0001
38. Workshop on Active Learning Strategies in Engineering and States, 16 Oct, 2009, 01-01-0001 to 01-01-0001

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39. National Conference on Latest Emerging Trends and Sustainable Development in Civil Engineering College, Bannari amman institute of technology, Sathyamangalam, 26Mar, 2016., 01-01-0001 to 01-01-0001

40. National Conference on Recent Advances in Civil Engineering, P.S.R Engineering Collrge, Sivagasi, 21 Mar, 2014., 01-01-0001 to 01-01-0001

41. Workshop on Recent developments in concrete Technology, Thiagarajar College of Engineering, Madurai, and Indian Concrete Institute, Nov 29, 2007., 01-01-0001 to 01-01-0001

Seminar, Conference, Workshop Organised

1. National Conference on Corrosion Assessment And its Control,, Thiagarajar College of Engineering,, 21.12.09&22.12.09

Ph.D Guidance/Supervisorship

NAME OF SCHOLAR	COURSE	AREA OF RESEARCH	STATUS
M.Shanmugasundaram	Ph.D	Studies on high performance concrete using natural admixtures	Completed
P.Kumar	Ph.D	Self Compacting Concrete	Completed
S.P.Murali Kannan	Ph.D	Carbonisation Studies	Ongoing
A.Leelavathi	Ph.D	Concrete Technology	Ongoing
A.Karthik	Ph.D	Geo Polymer Concrete	Completed
J.R.Rajapriyadharshini	Ph.D	Coastal Engineering	Ongoing
G.Sukiladevi	Ph.D	Concrete Materials	Ongoing
C.Priya	Ph.D	High Performance Concrete	Ongoing

Lectures Delivered

TOPIC	DELIVERED AT	PERIOD
Low cost cement based building material	Ministry of Micro, Small & Medium Enterprise	26-10-2015 to 30-10-2015
Repair and rehabilitation of concrete structures- Earthquake resistant Design and Construction	PWD Staff Training Institute, Madurai.	24-06-2014 to 24-06-2014

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TOPIC	DELIVERED AT	PERIOD
Structural and Non-Structural Cracks in Building and Remedial Measures	PWD Staff Training Institute, Madurai.	27-11-2013 to 27-11-2013
Structural and Non-Structural Cracks in Building and Remedial Measures	PWD Staff Training Institute, Madurai.	27-11-2013 to 27-11-2013
Construction Engineering Management	District Science Centre, Anna University, Tirunelveli.	04-03-2013 to 04-03-2013
Construction Engineering Management	District Science Centre, Anna University, Tirunelveli.	04-03-2013 to 04-03-2013
Surveying and levelling.	PWD Staff Training Institute, TCE Campus	
NDT on concrete	PWD Staff Training Institute, Tallakulum	

Membership		
NAME OF SOCIETY	DETAILS	PERIOD
ISTE	Life Member	01-01-0001

Other Achievements
1. NTA observer
2. Velammal Engineering College - Advisory committee member
3. Gandhigram rural university - Doctoral committee member
4. AICTE - Staff selection committee
5. Anna university Madurai - Conference steering committee member
6. Madurai Kamaraj University - Building committee
7. Tamil Nadu Housing Board - Technical committee
8. AICTE - Expert visiting committee; scrutiny committee & standing committee
9. KLN college of engineering - staff selection committee
10. AC Tech College of Engineering & Technology - Academic advisory committee

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11. Gandhigram University - Building committee
12. Anna University - Affiliation committee
13. Bharathidasan university - Member - Ad hoc committee
14. TNSCST - Project evaluation committee
15. Kalasalingam university - staff selection committee
16. Arulmigu kallazhagar thirukovil (HR & CE) - Engineer expert committee
17. Anna University - Doctoral committee member