

M.VELUMANI
 16/23, Kuppchi Palayam
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EDUCATIONAL QUALIFICATION:

S. No.	Degree	Degree-Specialization	Institutions	University / Board	Year of Study		Year of Passing		Percentage	Class
					From	To	@ Mon	Yr		
1	Ph.D	Pursuing	Kongu Engineering College, Perundurai, Erode.	Anna University of Technology Coimbatore.	2011	-	-	-	THESIS SUBMITTED	
2	PG	ME – Structural Engineering	Kumaraguru College of Technology, Coimbatore	Anna University, Coimbatore.	2008	2010	April	2010	78	<i>First</i>
3	UG	BE – Civil Engineering	PSNA College of Engineering and Technology, Dindigul	Anna University, Chennai.	2005	2008	April	2008	67	<i>First</i>
4	DCE	Diploma in Civil Engineering	TRN Polytechnic College, Dharapuram	DOTTE	2003	2005	May	2005	71	<i>First</i>

EXPERIENCE IN TEACHING:

Sl.No	Name of the College	Designation/Department	Period		Experience	
			From	To	Years	Month
01	K.S.Rangasamy College of Technology	Assistant Professor/Civil Engineering	28.05.2010	Till Date	09	02

PROJECTS DETAILS:

- ❖ Design of Septic Tank for Colony in **Polytechnic.**
- ❖ Design of Shell Foundations – in **UG**
- ❖ Design and Construction of Pile and Pile Cap (for NHAI -Chennai) – in **UG**

- ❖ Design of Hostel Building using STADD Pro – in PG
- ❖ Utilization of Copper Slag as Fine Aggregate in Concrete – in PG
- ✓ **Durability and Characteristics of Copper Slag as Fine Aggregate and Fly Ash as Cement in Concrete - Ph.D (THESIS SUBMITTED-07.11.2018).**

PUBLICATIONS:

INTERNATIONAL JOURNAL PUBLICATIONS:

1. M. Velumani, K. Nirmalkumar, “**Feasibility Studies of Copper Slag as Fine Aggregate Replacement in Concrete**”, Poll Res. 33 (1): 17-21 (2013).
2. M. Velumani, K. Nirmalkumar, “**Workability and Mechanical Performance of Concrete with copper slag**”, International Journal of Earth Sciences and Engineering, Volume 07, June, 2014, N0.3, P.P.1216-1222.
3. Tashi Choden Curung, M.Velumani, “**Experimental Study on Low Velocity Impact Behavior of Cementations Composite Beams and Panels**” Integrated Journal of Engineering Research and Technology, ISSN no.2348-68211, April -2015.
4. M.Velumani, K.Nirmalkumar, “**Strengthening of Corroded RC Beams Using Copper Slag as Fine Aggregate-Review**” International Journal of Scientific and Engineering Research (IJSER), ISSN 2229-5518, August-2015.
5. M.Maheswari, M.Velumani, “**Mechanical and Durability Properties of RC Beams Using Copper Slag as Fine Aggregate in Concrete-Review**” International Research Journal of Engineering and Technology (IRJET), Volume 3 Issue 3, March 2016.
6. M.Velumani, “**An Experimental Study of Copper Slag and Discarded Tyre Materials for the Manufacturing of Concrete Brick**” International Journal for Scientific Research and Development-ID IJSRDV3I120720, Volume 3, Issue 12 Feb 2016.
7. M.Velumani, K.Nirmalkumar “**Investigation on the Mechanical and Durability Properties of Concrete Using Fly Ash and Copper Slag**” to Asian Journal of Research in Social Sciences and Humanities, DOI NUMBER: 10.5958/2249-7315.2016.00667.5
8. M.Velumani, J.Abdul Bari “**Strengthening of RC Elements Using Carbon Fiber Reinforced Polymer-Review**” to International Journal of Engineering Technology, Management and Applied Sciences, January 2017, Vol.5, (1), ISSN 2349-4476.
9. M.Velumani, M.Selva Ganesh “**Performance of Masonry Structure–Review**” to International Journal of Advance Engineering and Research Development, Volume 4, Issue 7, July -2017, ISSN (P): 2348-6406.

10. Velumani, M & Nirmalkumar, K, “**Effect of Copper Slag in Structural Behaviour of Reinforced Concrete Beams**”, Ecology, Environment and Conservation, vol. 24, February 2018, pp. S381-S383.
11. Velumani. M “**Explorer Experimental Study on Strength and Durability of Concrete by Partially Replacing Fine Aggregate with Copper Slag, Industrial Sludge and Using Treated Water**”, International Journal of Innovative Research, Vol.5, (4), April-2018, ISSN: 2347-6060.
12. Velumani. M “**Experimental Investigation of Plastic Waste as Replacement of Fine Aggregate in Manufacturing of Bricks**”, Journal of Applied Science and Computations, vol. 05, Issue 3, June 2018, pp. S303-S310, ISSN 0076-5131.
13. Velumani. M “**Studies on the Mechanical Properties of Polyvinyl Alcohol Fiber Concrete-Review**” Journal of Emerging Technologies and Innovative Research, July 2018, Volume 5, Issue 7, ISSN 2349-5162.
14. Velumani. M “**A Review of Geopolymer Cement as Precursor in the Development of Green Concrete**” Journal of Emerging Technologies and Innovative Research, August 2018, Volume 5, Issue 8, ISSN 2349-5162.
15. Velumani. M “**Experimental studies on Concrete Containing – Glass Powder and Fly Ash-Review**” Journal of Emerging Technologies and Innovative Research, August 2018, Volume 5, Issue 8, ISSN 2349-5162.
16. Velumani. M “**Experimental and Comparative Study of Self Healing of Bacterial Concrete**” International Journal of Scientific Research and Review Volume 07, Issue 03, March 2019, ISSN 2279-543.
17. Velumani. M “**Experimental Study on Strength and Durability of Concrete by Partially Replacing Fine Aggregate with Copper Slag, Industrial Sludge and Using Treated Water**” International Journal of Scientific Research and Review Volume 07, Issue 03, March 2019, ISSN 2279-543.

INTERNATIONAL CONFERENCE PAPERS:

1. Presented a paper in the International conference on “**Advances in Civil Engineering Materials and Processes**” held at Coimbatore Institute of Technology, Coimbatore during 7, 8 & 9 January 2015.
2. Presented a paper in the International conference on “**Earth Sciences and Engineering (ICEE-2015)**” during 20th-21st march, 2015 at Nehru Institute of Technology, Coimbatore.
3. Presented a paper in the International conference on “**Infrastructure Development for Environmental Conservation & Sustenance**” (INDECS-2015) during 28th-30th October, 2015 at Adhiyamaan College of Engineering, Hosur.

4. M.Velumani, J.Abdul Bari “**Strengthening of RC Elements Using Carbon Fiber Reinforced Polymer-Review**” to 4th International Conference on Recent Development in Engineering, Science, Management and Humanities (ICRESMH-2017), India International Centre, Max Muller Marg, Delhi.
5. M.Velumani, J.Abdul Bari “**An Investigation on Effects of Cement Concrete with an Addition of Corrosion Inhibitors – Review**” to 4th International Conference on Recent Development in Engineering, Science, Management and Humanities (ICRESMH-2017), India International Centre, Max Muller Marg, Delhi.
6. M.Velumani, “ **An Experimental Investigation on Self Compacting Concrete Short Column Using Rice Husk Ash**” to International Conference on Engineering, Energy & Environment (ICEEE-2017) held during 31st March to 02nd April 2017, at TRP Engineering College, Tiruchirappalli-621 105.
7. M.Velumani, “**Strengthening of RC Short Columns With Partial Replacement of Fine Aggregate by Copper Slag Using CFRP**” to International Conference on Engineering, Energy & Environment (ICEEE-2017) held during 31st March to 02nd April 2017, at TRP Engineering College, Tiruchirappalli-621 105.
8. M.Velumani, “**Strengthening of RC Short Columns with Partial Replacement of Fine Aggregate by Copper Slag and Cement by Flyash**” in the 2nd International Conference on Sustainable Practice in Civil Engineering (SPICE 2017), at KPR Institute of Engineering and Technology, Coimbatore on 10th & 11th April 2017.
9. M.Velumani, “**Experimental Examination of Concrete Manufacture with Dyeing Industrial Waste Sludge and Copper Slag Using Treated Water**” in the 7th International Conference on Advanced Science and Engineering Research (ASER-2018), Organized by the Department of Civil Engineering, Al-Ameen Engineering College Erode, on 5th April 2018.
10. Velumani. M “**A Review of Geopolymer Cement as Precursor in the Development of Green Concrete**” International Conference on Recent Research and Innovations in Social Science, Humanities & Education (ICRRISHE-2018), Osmania University Centre for International Programmes, Osmania University Campus, Hyderabad, Telangana State, India on 5th August 2018, ISBN: 978-93-87433-33-5.
11. Velumani. M “**Studies on the Mechanical Properties of Polyvinyl Alcohol Fiber Concrete-Review**” International Conference on Engineering Technology, Science and Management Innovation (ICETSMI-2018) Maharashtra Chamber Of Commerce Industries & Agriculture, Senapati Bapat Road, Pune, Maharashtra, India on 22nd July 2018, ISBN: 978-93-87433-30-4.
12. Velumani. M “**Experimental Study on Strength and Durability of Concrete by Partially Replacing Fine Aggregate with Copper Slag, Industrial Sludge and Using Treated Water**” International Conference on Nexgen Technologies held on 8th – 9th March 2019 at Sengunthar Engineering College, Tiruchengode , Namakkal, Tamilnadu, India, ISBN:978-93-87793-75-0.

13. Velumani. M “**Experimental and Comparative Study of Self Healing of Bacterial Concrete**” International Conference on Nexgen Technologies held on 8th – 9th March 2019 at Sengunthar Engineering College, Tiruchengode , Namakkal, Tamilnadu, India, ISBN:978-93-87793-75-0.
14. Velumani. M “**Experimental investigation of cement Mortar with Polyethylene Terephthalate (PET) of Cement Bottle by Using Copper Slag As Fine Aggregate**” Second International Conference on Civil, Structural and Environmental Engineering (icsee-2019) Organized by the Department of civil Engineering, K.S.R.College of Engineering, Tiruchengode on 15th March 2019.

NATIONAL CONFERENCE PAPERS:

1. Presented a paper in the National conference on “**Emerging Technologies in Civil Engineering (ETCE-14)**” at K.S.Rangasamy College of Technology, on 5th April 2014.
2. Participated in the National conference on “**Role of Biotechnology Tools and Techniques in Wastewater Management**” conducted by the Department of Civil Engineering and Biotechnology at K.S.Rangasamy College of Technology, Tiruchengode during 3rd and 4th February 2015.
3. Presented a paper in the National conference on “**Advanced Techniques in Civil Engineering**” (NCATCE-15), at Karpagam University, Coimbatore, on 10th March 2015.
4. Presented a paper in the National Conference on “**Recent Advancement in Civil Engineering**” (RACE-2018), Department of Civil Engineering, Karpagam Academy of Higher Education, Coimbatore, held on March-18.
5. Presented a paper in the National Conference on “**Innovations in Concrete and Construction**” (ICON 2018), Department of Civil Engineering, Sona College of Technology, Salem, held on 6th and 7th March, 2018.
6. Presented a paper in the National Conference on “**Technical Innovations and Research in Civil Engineering Department of Civil Engineering**”, M.Kumarasamy College of Engineering, Thalavapalayam, Karur on 15.03.2019.

FACULTY DEVELOPMENT PROGRAMMES ATTENDED:

1. Participated in the AICTE-Sponsored Staff Development Programme on “**Applied Hydraulic Engineering**” held from 22nd November to 5th December 2010 at Sona College of Technology Salem-05.
2. Participated in AICTE Sponsored Two week Faculty Development Programme on “**Disaster Management**” at KSR College of Engineering, Tiruchengode from 11.05.2013 to 24.05.2013.

3. Participated in AICTE Sponsored Faculty Development Training Programme on “**CS2253-Applied Hydraulic Engineering**” at K.S.Rangasamy College of Technology, Tiruchengode from 09th to 16th December-2013.
4. Participated in Faculty Development Training Programme on “**Engineering Mechanics**” at K.S.R. Institute for Engineering and Technology on 17th & 18th December 2015.
5. Participated in a TWO-Week ISTE STTP on “**Introduction to Structural Engineering**” conducted by Indian Institute of Technology Kharagpur from 30th November, 2015 to 9th January, 2016.
6. Participated in Faculty Development Training Programme on “**CE 6505-“Design of Reinforced Concrete Elements”**” at K.S.Rangasamy College of Technology, Tiruchengode from 02nd to 08th June-2016.
7. Participated in Faculty Development Training Programme on “**Health Monitoring and Forensic Engineering of Concrete Structures**” at CIT Coimbatore, from 12th to 18th September, 2016.
8. Participated in the QIP **Short Term Course** on “**Solid Mechanics**” during 01.05.2017 to 05.05.2017 at Centre for Continuing Education, Indian Institute of Science (IISc)-Bengaluru.
9. Participated in the AICTE Sponsored one-week QIP **Short Term Course** on “**Finite Element Methods and Applications in Civil Engineering**” during 26.06.2017 to 30.06.2017 at Centre for Continuing Education, IIT-Bombay.
10. Participated in the AICTE-ISTE approved Induction/Refresher Programme “**Modern Construction Materials, Techniques, Equipment and Practices**” held during 21.05.2018 to 26.05.2018 Organized by Velalar College of Engineering and Technology, Erode.
11. Participated in the Department of Technical Education, Kerala, Sponsored one-week QIP Short Term Course on “**Sustainable Construction Materials**” from 16.07.2018 to 20.07.2018 held at Department of Civil Engineering Organized by the College of Engineering Trivandrum.
12. Participated in NITTTR (MHRD), Sponsored One week Faculty Development Programme on “**Practical Training on Geosynthetics and Building Materials**” Conducted during 19th-23rd November, 2018 by the Department of Civil Engineering, SRM IST, Kattankulathur.
13. Participated in NITTTR (MHRD), Short Term Training Programme Through ICT Mode on “**NBA Accreditation**” at K.S.Rangasamy College of Technology, Tiruchengode from 22.04.2019 to 26.04.2019.
14. Participated in AICTE Sponsored Short Term Training Program on “**An Integrated Approach of Engineering towards: Water, Food, Energy & Climate Nexus in a**

Changing World” Organized by the Department of Civil Engineering, Nandha Engineering College, Erode from 27.05.2019 to 01.06.2019.

15. Participated in AICTE Sponsored Faculty Development Programme on **“Success Mantra to Promote Higher Education in Digital Era: Teach to Learn and Learn to Teach”** Organized by the K.S.R. School of Management, K.S.Rangasamy College of Technology, Tiruchengode from 08.07.2019 to 21.07.2019.

WORKSHOP/SEMINAR:

1. Participated in the Regional level Seminar on **“Sustainable Energy Technologies and Low Carbon Buildings for Climate Change Mitigation”** organized by RVS Educational Trusts Group of institutions RVS Faculty of Engineering, Coimbatore, on 10th December 2011.
2. Attended a One Day National Level Workshop on **“Energy Conservation Technology for Global Sustainability”** at K.S.Rangasamy College of Technology, Tiruchengode on 24 August 2012.
3. Attended a CSIR National Seminar on **“Opportunities and Challenge for Self-Consolidating Concrete in Highway Structures”** at Kongu Engineering College, Perundurai on 22-12-2012.
4. Attended a CSIR National Seminar on **“Innovative site Remediation Techniques (NSISRT-13)”** at K.S.Rangasamy College of Technology, Tiruchengode on 19th January 2013.
5. Attended a CSIR National Seminar on **“Advanced Membrane Bioreactor for Waste water Treatment”** at K.S.Rangasamy College of Technology, Tiruchengode on 16th March 2013.
6. Attended a CSIR National Seminar on **“Renewable Energy Technologies for Rural Development”** at K.S.Rangasamy College of Technology, Tiruchengode on 23th August 2013.
7. Participated in the National Seminar on **“Biodiversity Conservation: Status, Future and Way Forward”** held during 19-20th July 2014 at K.S.Rangasamy College of Technology, Tiruchengode.
8. Participated in the **“National Programme on Technology Enhanced Learning (IIT-MADRAS) NPTEL Workshop”** Conducted on 9th August 2014 at K.S.Rangasamy College of Technology, Tiruchengode.
9. Attended a One Day National Workshop on **“Renewable Energy Sources: India Scenario (NWRES-14)”** at K.S.Rangasamy College of Technology, Tiruchengode on 22th August 2014.

10. Participated in One Day Workshop on **“Cement and Concrete New Trends and Industrial Applications”** conducted by the Department of Civil Engineering at PSG College Technology, Coimbatore, on 11.10.2014.
11. Attended a **MOES National Seminar on “Recycling of Construction and Demolition Waste”** at Kongu Engineering College, Perundurai on 27-02-2015.
12. Attended a **CSIR National Workshop on “Smart Renewable Energy Technologies: Opportunities and Challenges (NWSRT-15)”** at K.S.Rangasamy College of Technology, Tiruchengode on 28th August 2015.
13. Participated in One Day Workshop on **“Recent Advancement in Experimental Methodologies for Concrete Structures”** conducted by the Department of Civil Engineering at Kongu Engineering College, Perundurai on 15.03.2017.
14. Attended a **CSIR National Seminar on “Sustainable Solid Waste Management Technologies for Clean India (NSSWMT-17)”** conducted by the Department of Civil Engineering at K.S.Rangasamy College of Technology, Tiruchengode on 23th June 2017.
15. Participated in a One day National Level Workshop on **“Recent Advances in Structural and Environmental Engineering”** conducted by the Department of Civil Engineering in association with ICI Student’s Chapter at K.S.Rangasamy College of Engineering, Tiruchengode on 08th Sep 2017.
16. Participated in NICMAR sponsored a Two day Workshop on **“Construction Project Management-Present and Future”** conducted by Builders Engineering College, Kangayam in Association with Builders Association of India, Erode Centre and NICMAR, Pune held on 01 & 02 SEP 2017.
17. Participated in AICTE sponsored a Two day National Seminar on **“Current Trends, Prospects and Challenges of Swachh Bharat”** organized by the Department of Civil Engineering, K.S.Rangasamy College of Technology on 14 & 15th September 2017.
18. Participated in a CSIR sponsored One Days National Level Seminar on **“Water Borne Diseases- Causes and its Prevention”** conducted by the Department of Civil Engineering at Nandha Engineering College, Erode on 25.01.2019.
19. Participated in a One Day Workshop on **“Smart Water Management”** conducted by the Department of Civil Engineering at K.S.Rangasamy College of Technology on 13th March 2019.
20. Participated in a Two Days Workshop on **“Publishing Articles in SCI Indexed Journals & Filing IPR”** Organized by Research and Development Cell and Department of Library held on July 25th & 26th, 2019 at KSR Institute for Engineering and Technology, Tiruchengode.

GUEST SPEAKER:

1. Deliver an Informative & Thought Provoking Lecture as Guest Speaker on “**Emerging Trends in Concrete Technology**” held on 4th Sep, 2014 at Hosur Institute of Technology and Science, Hosur.
2. Deliver an Informative & Thought Provoking Lecture as Guest Speaker on “**Mechanics of Fluid**” held on 5th & 6th Sep, 2015 at Sengunthar Engineering College, Tiruchengode.
3. Taking part as a resource person for the Coaching Class organized by us to “**TANGEDCO**” for Assistant Engineering Recruitment 2016, held on 13.01.2016 at KSR Polytechnic College, Tiruchengode.
4. Participated as a mentor for the topic “**Basic Design of Steel Structures**” of the initiative in the phase between Jan to April 2016 organized by us to (QEEE) is a Ministry of Human Resource Development.

AWARD

- ❖ **Outstanding Teacher Award for 100% Result- 9 (Times)**

BOOK:

- ❖ **First author of Airport, Docks & Harbours- ISBN-9789388413312 (FEB-2019)**

PROGRAMME ORGANIZED

- ❖ *Co-ordinator for “National Seminar on Integrated Building Solution [NSIBS-19]”* 01st March 2019, Department of Civil Engineering, K.S.Rangasamy College of Technology, Tiruchengode-637 215, Namakkal, Tamil Nadu.

EXTRA CURRICULAR ACTIVITIES:

- ❖ Life Member in the **Indian Society for Technical Education (MISTE)**.
- ❖ Life member in the **Indian Society of Systems for Science and Engineering (ISSSE)**.
- ❖ Department Coordinator for **9th Criteria in NBA TIER-01 (OBE)**.
- ❖ Department Assistant Coordinator for **5th Criteria in NBA TIER-01 (OBE)**.
- ❖ Department Coordinator for **Placement Training (2015-2016)**
- ❖ Department Coordinator in Career Competency Development (**CCD (2012-2016)**)
- ❖ Class Advisor Student Mobilization and Control Committee Member in Department Level for last **Nine** years.
- ❖ Active Participation in **NAAC** and **AICTE** work.

- ❖ Responsibilities held outside the College for **Anna University Practical & Theory Examiner.**
- ❖ Department Assistant Coordinator for **BOS** (Board of Study's).
- ❖ Department **Module Coordinator for** Design of Steel Structures, Applied Mechanics, Construction Materials and Practices, Airport, Docks & Harbours, Concrete Technology.
- ❖ Department Coordinator for **Internet of Things (IOT).**
- ❖ Department Coordinator for **PALS.**
- ❖ Department Coordinator for **Department Library in Charge.**
- ❖ **Transportation Laboratory Incharge.**

PERSONALS:

Name : M.VELUMANI
Date of Birth : 13.03.1984
Sex : Male
Address : S/o. K.Murugesan,
16/23, Kuppchi Palayam
Nanjiyam Palayam (P.O)
Dharapuram (T.K)
Tiruppur Dist-638657

Languages Known : Tamil, English.

DECLARATION:

HERE BY I DECLARE THE ABOVE THE DETAILS ARE TRUE UP TO MY
KNOWLEDGE.

Place: Tiruchengode

Date: 13.08.2019

Signature
(M.VELUMANI)