

Bio-data

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Academic Qualification:

Sl No	University	Degree	Year	Specialization
1	IIT Madras	Ph D	2014	Concrete Technology
2	VIT Belgaum	M Tech	2004	Structural Engineering
3	M G University	B Tech	1999	Civil Engineering

Employment Record (Academic):

Sl No	Institution/College	Designation	Period
1	M A College of Engineering	Assistant Professor	July 2000 - Sept. 2000
2	M A College of Engineering	Assistant Professor	July 2004 – July 2015
3	M A College of Engineering	Associate Professor	Aug 2015 – till date

Research/Industrial Experience:

Sl No	Organization/Employer	Designation	Period
1	IIT Madras	Research Scholar	July 2008-July 2011
2	Lee Constructions (P) Ltd.	Project Engineer	Oct. 2000- May 2002
3	JKM Design Consortium	Quality Controller	Aug. 1999- June2000

List of Publications (National/International Journals)

1. E. John and R. Gettu (2014) “Effect of Temperature on Flow Properties of Superplasticized Cement Paste”, *ACI Materials Journal*, 111, 67-76
2. A. John and E. John (2013), “Study on the partial replacement of fine aggregate using induction furnace slag”, *American Journal of Engineering Research (AJER)*, 01-05
3. B. Jacob, A. Balaji, E. John(2013) “Behaviour of concrete structures under fire – a comparative study between IS 456: 2000 and finite element software ANSYS”, *American Journal of Engineering Research (AJER)*,3,62-66
4. A. Sukumar and E John (2014), “Fiber Addition and Its Effect on Concrete Strength”, *International Journal of Innovative Research in Advanced Engineering (IJIRAE)*,1,144-149
5. B. Johny and E. John (2014),”Study on properties of sustainable concrete using slag and recycled concrete aggregate”, *International Journal of Engineering Research & Technology (IJERT)*,3,68-72
6. I. S. Raj and E. John (2014),”Study on properties of air-entrained concrete for masonry blocks” *International Journal of Engineering Research & Technology (IJERT)*,3, 1367-1370
7. G. M. Devi and E. John (2014),” Effect of Re-Dosing Superplasticizer to Regain Slump on Concrete”, *International Journal of Innovative Research in Advanced Engineering (IJIRAE)*,1,139-143
8. M. K. Abraham, E. John, B. Paul (2014),” A Study on the Influence of Mineral Admixtures in Cementitious System Containing Chemical Admixtures”, *International Journal of Engineering Research and Development*,10, 76-82
9. S. K. Sam, D. Varkey and E. John (2014),” Self Compacting Concrete with Recycled Coarse Aggregates”, *International Journal of Engineering Research & Technology (IJERT)*,3,105-107
10. S. Sarika, E. John (2015), “A Study on Properties of Reactive Powder Concrete”, *International Journal of Engineering Research & Technology (IJERT)*,Volume 4, Issue 11, 110-113
11. M. Najeeb, E. John (2015), “Study on Performance of Prefabricated Ferrocement Slabs,” *International Journal of Engineering Research & Development (IJERD)*,Volume 11, Issue 10, 76-80.

12. G. Kallungal and E. John (2016), "Optimization of foam concrete masonry blocks", *International Journal of Engineering Research and General Science (IJERGS)*, Volume 4, Issue 5, 82-106.
13. S. Bhaskar, M . S. Smitha and E. John (2016), "Relevance of Sea Water as Mixing Water in Concrete", *International Journal of Innovative science, Engineering and Technology (IJIRSET)*, Volume 5, Issue 9, 17084-17090
14. A. Radhakrishnan, A. Das and E. John(2016), " Effect of Crumb Rubber and Silica Fume in Concrete for Masonry blocks ",*International Journal of Innovative science, Engineering and Technology (IJIRSET)*, Volume 5, Issue 9, 18923-18928.
15. A. Jacob, E. John (2016), "Mechanical Properties of Glass Fiber Reinforced Concrete Using Recycled Concrete " *International Journal of Innovative science, Engineering and Technology (IJIRSET)*, Volume 5, Issue 9, 1111-1118
16. Sreekumar K. K. et al., (2016), "Study on Correlating Properties of Cement Paste and Concrete", *Journal of Mechanical and Civil Engineering*, Volume 13, Issue 5, 66-73.
17. L. Thomas and E. John (2017), "Compatibility Of Cement And Water Reducers With Mineral Admixtures - A Review" , *International Journal of Science Technology & Engineering (IJSTE)*, Vol 3, Issue 10, 023
18. Aneesamol U. M. et al. (2017), "Study on Optimization and Properties of Foamed Concrete Incorporating Mineral Admixture, *International Journal of Science Technology & Engineering*, Volume 3, Issue 11, 137-139.
19. P. B. Pulliattu and E. John (2017), "Study on the Properties of Aerated Concrete Incorporating Fly Ash and Quarry Dust", *International Journal of Science Technology & Engineering*, Volume 3, Issue 10, 1-3.
20. Sarika. R. et al. (2017), "The Effect on the Properties of Aerated Concrete Developed by Partially Replacing Cement with Flyash and Fine Aggregate with Rubber Powder", *Global Research and Development Journal for Engineering*, Volume 2, Issue 12, 42-46.
21. V. Viswam and E. John (2017), "Study on the Effectiveness of Incorporation of Bacteria and Nano materials for Durability in Concrete", *International Journal of Science Technology & Engineering*, Volume 3, Issue 11, 71-76.

22. Dr. E. John et al., (2018), "Engineered cementitious composite (ECC) mix design for link slabs in bridge deck", *International Research Journal of Engineering and Technology (IRJET)*, Volume: 05 Issue: 03, 1-3.
23. K. John et al. (2019), "Study on shrinkage properties of concrete with and without mineral admixtures" *International Journal of Advance Research, Ideas and Innovations in Technology*, volume5, issue 2, 1840-1849.
24. A. Sidheeq M. S. et al. (2019), "Utilisation of various industrial waste materials as filler in aerated concrete: A review" *International Research Journal of Engineering and Technology (IRJET)*, Volume: 06 Issue: 04, 4274-4277.
25. B. M. Thomas and E. John (2019), "Optimization of foam volume in foam concrete" *International research journal of engineering and technology*, Volume 6, Issue 4.
26. I. S. Raj and E. John (2019), "Evaluation of properties of concrete partially replaced by cement with fly ash", *International Journal of Advanced Research in Engineering and Technology*, Volume 10, Issue 1, 223-229.

International conference papers:

1. R. Gettu, Jayasree C., E. John, Bhaskar S., B. Eshete and Vinayak S., "More sustainable concrete technology through the effective use of superplasticizers", *Third International Conference on Sustainable Construction Materials and Technologies*, Kyoto, Japan, Japan Concrete Institute, 2013.
2. B. Johny, M. V. George and E. John, "Study of properties of sustainable concrete using slag and recycled coarse aggregate", *International Conference on Structural engineering and construction Management*, M. A. College of Engineering Kothamangalam, 2016.
3. A. John and E. John, "Study on the partial replacement of fine aggregate with quarry dust", *International Conference on Structural engineering and construction Management*, M. A. College of Engineering Kothamangalam, 2016.
4. Sarika S. and E. John, "Superplasticizer saturation dosage for reactive powder concrete using Marsgcone test", *International Conference on Structural engineering and construction Management*, M. A. College of Engineering Kothamangalam, 2016.

5. A. Sukumar and E. John, "Study on use of steel fibre and basalt mesh in concrete", *International Conference on Structural engineering and construction Management*, M. A. College of Engineering Kothamangalam, 2016.

National conference papers

1. A. John, E. John," Study on the partial replacement of fine aggregate using induction furnace slag", CUSAT National Conference *on Recent Advances in Structural Engineering RASE* 2013.
2. B. Jacob, A. Balaji, E. John ," Behaviour of concrete structures under fire - a comparative study between IS 456: 2000 and finite element software ANSYS", CUSAT *National Conference on Recent Advances in Structural Engineering RASE* 2013.
3. Tom et al. "Study on the Properties of Aerated Cement Paste Incorporating Fly Ash and PVC Granules" *National conference on recent emerging advancements in Civil Engineering and Technology*, APRIL 2018, Vidhya Academy of Science and Technology, Trissur.
4. Arya E. K. et al., "Study on the Effectiveness of Shrinkage Reducing Admixtures on Plastic Shrinkage of Concrete", *SECON'19*, April 2018, Federal Institute of Technology, Angamaly.
5. Sreerekaha S. and E. John, "Evaluation of early age hydration behaviour of cementitious systems by using temperature sensors", *National conference on developments and innovations in civil engineering*, April 2019, MBC CET Kuttikanam.

Guidance of M Tech Final year project

No	Title of the project	University	Name of student	Year
1	Detection of damages from the mode shapes	M G University	Gayathri Achuthan	2007
2	Fire Resistance of concrete structures	M G University	Bobby Jacob	2013
3	A study on the influence of mineral admixtures in superplasticized cementitious system	M G University	Merin K Abraham	2013
4	Study on the partial replacement of fine aggregate with quarry dust and induction	M G University	Ansu John	2013

	furnace slag in concrete			
5	Cement-Superplasticizer compatibility	M G University	Hannah S Mattom	2013
6	Structural application of fiber reinforced concrete	M G University	Aiswarya Sukumar	2014
7	Strength aspects of fiber reinforced concrete	M G University	Fathima Irine I A	2014
8	Absorbance study of superplasticizer on cement paste using UV spectrometry and study on effect of redosing of superplasticizer on concrete	M G University	M Gayathri devi	2014
9	Self compacting concrete with recycled aggregates	M G University	Sija K Sam	2014
10	Properties of sustainable concrete containing fly ash, slag and recycled concrete aggregate	M G University	Basil Johny	2014
11	A study on the properties of air entrained concrete for masonry blocks	M G University	Indu Susan Raj	2014
12	A study on the effectiveness of rice husk and saw dust in concrete	M G University	Dinu Thomas	2014
13	Study on the performance of plastics as replacement for aggregates	M G University	Anumol S	2015
14	Study on the performance of pre-fabricated ferrocement columns and wall panels	M G University	Lakhan Murari	2015
15	Study on the performance of pre-fabricated ferrocement beams and slab panels	M G University	Najeeb M	2015
16	Study on the effectiveness of various curing methods on the properties of concrete	M G University	Princy K P	2015
17	Study on the structural performance of reactive powder concrete	M G University	Sarika S	2015
18	Study on the influence of mineral admixtures on aerated concrete for masonry	M G University	Sabarinath R	2016

	blocks			
19	Study on correlating properties between cement paste and concrete	M G University	Sreekumar K K	2016
20	Optimization of foam concrete masonry blocks	M G University	Geethu Kallunkal	2016
21	Relevance of seawater as mixing water in concrete	M G University	Selin Baskar	2016
22	Study on optimization and properties of foamed concrete incorporating mineral admixture	KTU	Aneesamol	2017
23	Compatibility of cement and superplastizier with supplementary cementitious materials	KTU	Leny Thomas	2017
24	Study on the optimization and properties of aerated concrete incorporating mineral admixture	KTU	Paul Ben Pulliattu	2017
25	Study on the effectiveness of incorporation of bacteria and nano-materials for durability in concrete	KTU	Vineeth Viswan	2017
26	The Effect on the Properties of Aerated Concrete Developed by Partially Replacing Cement with Flyash and Fine Aggregate with Rubber Powder	KTU	Sarika. R	2017
27	Study on the properties of aerated concrete with fly ash and PVC granules	KTU	Richards Jose	2017
28	Study on the properties of aerated concrete incorporating fly ash and quarry dust	KTU	Shiveji J S	2018
29	Study on the properties of aerated concrete with PVC granules	KTU	Tom Damian	2018
30	A study on aerated concrete incorporating fly ash and rubber powder	KTU	Jaya Ann Thomas	2018
31	Study on the effect of shrinkage reducing admixtures in concrete with and without supplementary cementitious materials	KTU	Arya E K	2019
32	Experimental study on foam concrete adding supplementary cementitious material as filler	KTU	Berlina Mary Thomas	2019

33	Study on aerated concrete incorporating GGBS with rubber powder, quarry dust and plastic granules	KTU	Aboobacker Sidiqqe	2019
34	Evaluation of early age hydration behavior of cementitious systems using temperature sensors	KTU	Sreerekha Raj S	2019

Guidance of B Tech Final year project

No	Title of the project	University	Name of student	Year
1	Design and construction of concrete canoe using light weight concrete	MG University	Deena Mathew Nimisha Ann Sunny Raiza Susan George Saimy Davis Sumin V M Shewtha Saju	2013
2	Optimisation of scc mix with quarry dust as filler using the concept of particle packing density	MG University	Akhila Vijayan Devisree J R Ishline Shajan Nithu K P	2014
3	A cement concrete garden chair- Analysis, design and construction	MG University	Binisha P S Sachin H Roshni Baby Sreeraj S	2014
4	Transperant Concrete	MG University	Akhila K Murali Amiya Fathima Anna Paul Minu Mol Raju	2015
5	Decorative Concrete using recycled glass aggregates	MG University	Aswathy K M Prathipa V Rinu Issac Rita Rose Jacob	2015
6	Bending of concrete for precast elements	MG University	Abijith Ajikumar Achyut N Aswathy R Deepa K Nambiar	2016
7	Analysis and design of a floating residence	MG University	Deepika Ravi Iryn Mary Ruby Sujeesh A S Vinoop K S	2016

8	Analysis and design of portable scissor bridge	MG University	Anjali J Sarath M K Sreehari T K Sruthy Sojan	2017
9	Development of high performance grout for post tensioning applications	MG University	Ashique A P Sachin Jose Susan George	2017
10	ECC mix design for link slabs in bridge deck	MG University	Ciphins P Nasar Elizabeth Eldhose Elvin Eldho	2018
11	Study on the effectiveness of shrinkage reducing admixtures on the properties of concrete with and without admixtures	KTU	Amrutha Sivan John Kurian Veliyath Leanda JPayyappilly Liya Mary P L	2019

Memberships in Professional Societies: ICI, GRACE

Short Term Courses / Conferences / Workshops Attended

1	Sustainable Environmental management at NITTTR Chandigarh
2	Solar technologies at IIT Delhi
3	Structural restoration of monuments at IIT Madras
4	Structural steel design for university faculty at NIT Nagpur
5	Teaching effectiveness improvement techniques At MACE
6	Teaching –learning methodologies at IIT Madras
7	Self-awareness and higher goals in education at IIT Madras
8	Advancements in concrete technology and special concretes
9	Advances in building science and rehabilitation and restoration of structures at IITM
10	Transportation system managements and operations at MACE
11	Art of effective teaching at MACE
12	Seismic retrofitting of buildings at IIT Gauhati
13	Seismic soil-structure interactions at IIT Gauhati

Short Term Courses / Conferences / Workshops Coordinated

1	One day national colloquium on Concrete Construction for Coastal Constructions
2	5-day STTP on Advanced Concrete Technology
3	5-day STTP on Project Management
4	Two day national workshop on Special Concretes
5	Two day international conference on structural engineering and construction management
6	Two week faculty development programme on Advanced Concrete Technology

Consultancy and Sponsored Research

Year	Organisation	Project Title
2014	Kottapady Panchayat	Proof checking of shopping complex
2014	Vazhathoppu Panchayat	Proof checking of shopping complex
2014	Kothamangalam Municipality	Recommendation for the foundation depth of waste disposal unit
2013	Perumbavoor Municipality	Proof checking of shopping complex cum auditorium
2013	Thripunithura Municipality	Proof checking of shopping complex cum auditorium
2013	Engineers India Ltd	Concrete Mix Design
2013	Jayachandran and Associates	Concrete Mix Design
2013	PWD	Concrete Mix Design
2013	Pithavadian and Partners	Concrete Mix Design
2012	GKG Consultancy services Pvt. Ltd	Concrete Mix Design
2012	BSNL	Concrete Mix Design
2013	Ultratech Cements	Third Party testing
2013	Neptune Ready Mix Concrete	Third Party testing

Interaction with Outside World

1	Subject expert for the visiting of Engineering college for M G University
2	Keynote Speak in National Conference in VJCTE
3	Keynote speak in National Conference in SNGCE
4	Chairing of conference in VJCTE
5	Chairing of national conference in SNGCE
6	Chairing of national conference in Ilahia College of Engineering
7	Inaugurated the tech fest in VJCTE
8	Several invited talks at Govt. Poly tech Chelad
9	Invited talk in VJCTE
10	Judge for tech fest in VJCTE
11	Talk in Conclave 2012 at Chennai organized by FICCI
12	Talk in Compatibility workshop at Hyderabad organized by ICI
13	Technical talk at Mangalam College of Engineering Ettumanoor
14	Key note speak at ITI aluva

Other Duties

1	Presently heading the Research centre at M A College of Engineering
2	In-charge of construction and maintenance from 2004-2008 & 2012-2016
3	NSS programme officer from 2004 - 2008
4	Lab-in charge of concrete research lab at M A College of Engineering from 2014 till date

Subjects Handled

1	Advanced Concrete Technology
2	Material science and microstructure of concrete
3	Structural Analysis I
4	Structural Analysis II
5	Strength of Materials
6	Design of Steel Structures
7	Engineering Mechanics
8	Basic Civil Engineering