

## FACULTY PROFILE

### **Dr.C.Chella Gifta**

Associate Professor  
Department of Civil Engineering  
National Engineering College  
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### **Personal Details:**

Age : 43  
Date of Birth : 23/06/1978  
Sex & Marital Status : Female & Single  
Citizenship : Indian  
Date of joining : 19.05.2017  
Present status : Associate Professor

### **Educational Qualification:**

Course	Institution	University	Year of completion	Percentage
<b>Ph.D</b> (Civil Engineering)	Mepco Schlenk Engineering College Sivakasi	Anna University	2020	-
<b>M.E</b> (Structural Engineering)	Mepco Schlenk Engineering College Sivakasi	Madurai Kamaraj University	2002	85.40 (First class with distinction)
<b>B.E</b> (Civil Engineering)	Govt College of Engineering	Manonmaniam University	2000	71.40 (First class)

### **Professional Experience (Total 18 Years)**

Name of the College	Designation	Duration
National Engineering College Kovilpatti Tuticorin	Associate Professor	May2022 – Till date
National Engineering College Kovilpatti Tuticorin	Assistant Professor (Sr.Grade)	May2017 – April 2022

Einstein Engineering College Tirunelveli	Assistant Professor	May 2011 – April 2017
Mepco Schlenk Engineering College Sivakasi	Assistant Professor	July 2010 – May 2011
St.Peters Engineering College Chennai	Assistant Professor	June 2004 – April 2010

**Details of Industrial Experience: (Total 2 Years)**

Name of the College	Designation	Duration
Tarapore Company Chennai	Trainee Engineer	Jan 2003 – May 2004
Tirunelveli Spun Pipes Pvt Ltd	Works Engineer	July 2000 – June 2001

**Ph D Thesis Title :**

- Investigation on Strength and Energy absorption capacity of Steel –polyester Hybrid Fiber Reinforced Concrete Lateral Plate Test

**Project Work Done:**

- **Bachelor of Engineering:**  
Lateral Plate Test
- **Master of Engineering**  
Investigation on Slag based High Performance Concrete including its bond characteristics” at CSIR Structural Engineering Research Centre – Chennai.

**Ares of Research interest**

- Fiber reinforced composite
- Supplementary cementitious materials
- Durability studies of Concrete
- High Performance Concrete

**Courses Taught**

Course Taught	UG. or PG.
Design of Steel Structures	UG
Design of Reinforce Concrete Structures	UG
Soil Mechanics and Foundation Engineering	UG
Mechanics of solids	UG
Strength of Materials	UG
Basics of Dynamics and Aseismic Design	UG
Pre stressed concrete structures	UG & PG
Experimental Techniques and Instrumentation	PG
Structural Analysis I and II	UG

Storage Structures	UG
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### **NPTEL Courses Completed:**

- Soil Mechanics /Geotechnical Engineering 1 with a consolidated score of 83% (Elite) in April 2019.
- Completed Geotechnical Engineering Laboratory with a consolidated score of 87% (Elite +silver) in October 2019.
- Electronic Waste Management with score of 83% (Elite +silver) in Jan - Feb 2021.
- Completed Reinforced Concrete Road Bridges with score of 75% (Elite +silver) in Sep 2021.
- Completed Concrete Technology with score of 75% (Elite ) in Jan -June 2022

### **Papers Presented/Published (As a Faculty)**

<b>S.No</b>	<b>Title</b>	<b>Organiser</b>	<b>Period</b>	<b>National/ International Conference</b>
1	Manufactured Sand for The Development of Reinforced Concrete Spun Pipes	School of Civil Engineering Vellore Institute of Technology, Vellore	25 <sup>th</sup> to 26 <sup>th</sup> Nov 2021	<b>International</b>
2	Effect of Steel- Polyester Fiber Combination on the Fresh and Mechanical Properties of Concrete	Department of Civil Engg. Shri Vishnu Engineering College for Women AP India	14 <sup>th</sup> to 16 <sup>th</sup> Oct 2021	<b>International</b>
3	Self -Compacting Concrete with Partial Replacement of Limestone and Quarry Dust Powder	Department of Civil Engg. Easwari Engineering College Chennai	9 <sup>th</sup> to 10 <sup>th</sup> April 2021	<b>International</b>
4	Flexural behaviour of Septic tank wall panels reinforced with Glass fibers	Department of Civil Engg, Amity University Gwalior	15 <sup>th</sup> to 16 <sup>th</sup> Oct 2020	<b>International</b>
5	Characterization of Strength and toughness properties of Metalized Plastic fiber reinforced concrete	Department of Mechanical Engg, Bannari Amman Institute of Tech.Erode	10 <sup>th</sup> Oct 2020	<b>International</b>
6	Planning and Scheduling of one multipurpose geotextile reef at the coast of MIRYA Bay using PRIMAVERA	Department of Civil Engg. Tamizhan College of Engineering and Technology	19 th and 20 th February 2015	<b>International</b>
7	Experimental Investigation on Mechanical Properties of Steel – Polymeric Hybrid Fiber Concrete Composites	Department of Civil Engg, Nehru Institute of Technology Coimbatore	5 <sup>th</sup> to 6 <sup>th</sup> Dec 2014	<b>International</b>

8	Behaviour of Multiscaled Hybrid Fiber –Reinforced Concrete Composites	Department of Civil Engg, Mepco Schlenk Engineering College Sivakasi	18 <sup>th</sup> to 20 <sup>th</sup> April 2013	<b>International</b>
9	Retrofitting of R.C.Beams under Shearfailure Using FRP Composites	Department of Civil Engg, Mepco Schlenk Engineering College Sivakasi	30 <sup>th</sup> March 2011	<b>International</b>
10	Behaviour of Masonry Structures Using GFRP Wrapping	Department of Civil Engg Anna University Tiruchirappalli	8 <sup>th</sup> to 9 <sup>th</sup> April 2011	<b>International</b>
11	Development of Prefabricated System-Ferro Cement Technology	Department of Civil Engg Alagappa Chettiar College of Engg&Tech ,Karaikudi	09 <sup>th</sup> April 2010	<b>National</b>
12	Improved Road and Motor Vehicle Safety – An Overview	Department of Civil Engg , Sri Ram Engineering College Chennai	28 <sup>th</sup> to 30 <sup>th</sup> Oct 2009	<b>National</b>
13	Study on Flyash based Geopolymer Concrete	Department of Civil Engg IRTT Erode	27 <sup>th</sup> August 2008	<b>National</b>
14	Study on Bond Characteristics of Slag basedHigh Performance Concrete	Department of Civil Engg Hindustan College of Engineering Chennai	24 <sup>th</sup> to 25 <sup>th</sup> Dec,2008	<b>International</b>

**Seminars/workshop FDP attended**

S.No	Title of the Course	Organiser	Period
1	Current Trends in Research and Innovation -Research paper Publications ,IPR & Patents , Research Projects and Fund Raising (online)	Institute of Academic Excellence	27 th – 31 st August 2021.
2	Innovation in Civil Engineering Materials & Techniques for Sustainable Development (online)	National Institute of Technology Silchar	18 th -22 <sup>nd</sup> November 2021
3	Short term course on sustainable practices (online )	Indian Institute of Technology Indore	12 <sup>th</sup> – 18 th Oct ,2020
4	Two days course on Engineering of Precast Concrete for Mass housing: Train the Trainers	CSIR -Structural engineering Research Centre Chennai	03 <sup>rd</sup> - 04 th February 2020
5	One week faculty development program : Fiber reinforced concrete and its applications	National Institute of Technology Karnataka, Surathkal	18th -22 nd November 2019
6	5 th Concrete Research in India (CRI) symposium	Indian Institute of Technology Madras	14 th September 2019
7	Short term course on Structural Engineering for Fire induced loads	Indian Institute of Science Bangaluru	04th -08th February 2019

8	Pedagogy for Teaching learning Process	Indian Institute of Technology, madras.	1st Nov- 03rd Nov 2017
9	Technology Enabled Teaching Learning Process	NITTTR , Chennai at National Engineering College , Kovilpatti	27th May -29th May 2017
10	One day workshop on Research Methodology	Anna University Chennai	15 th December 2014.
11	Earthquake Resistant structures	Mepco Schlenk Engineering College Sivakasi	20 th May – 02 June 2013
12	Teaching Methodologies & Research	Einstein College of Engineering Tirunelveli	24 th June 2013
13	Research Methodology and Funded Projects	Jeyaraj Annapackiam CSI College of Engineering Nazareth	17 th Aug – 18 <sup>th</sup> August 2012
14	Faculty Development Programme on Basics of Dynamics and SeismicDesign	Anna University Chennai	30th May -06th June 2012
15	Short term course on Geotechnical Investigation	Indian Institute of Technology Madras	30 th January - 05th Feb 2011
16	40th ISTE National Annual Convention	Mepco Schlenk Engineering College Sivakasi	02 <sup>nd</sup> Dec - 04 <sup>th</sup> Dec 2010
17	Structural Steel Design by Limit state method	St.Peters Univeristy Chennai	6 <sup>th</sup> – 08 th November 2008
18	Application of GIS, GPS and Remote Sensing for Disaster Management of Coastal Region	St.Peters Engineering College Chennai	24 th September – 23 October 2007.
19	Background to limit state design of Cold Formed Steel members	CSIR -SERC & IITM	17 th December 2007
20	Application of Geomatics in urban Environment Management	St.Peters Engineering College Chennai	21 st August – 09 th September 2006
21	Advanced Computing Techniques in Civil Engineering	St.Peters Engineering College Chennai	01 March 2006
22	Instructional Design and Delivery	NITTTR , Chennai at St.Peters Engg College Chennai	06 <sup>th</sup> June 2005 to 10 <sup>th</sup> June 2005.
23	Students guidance and Counseling	NITTTR , Chennai at St.Peters Engg College Chennai	05 <sup>th</sup> August - 07 <sup>th</sup> August 2005

**Guest speaker/Resource talk**

Sl.No	Name of the Institution	Date	Topic	Programme
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1	Thamirabharani Engineering College Tirunelveli	21.12.2021	Fiber Reinforced Concrete	Guest Lecture (online)
2	Sai Ram Engineering College , Chennai	16.12.2021	Toughness Characterization of Hybrid Fibre Reinforced Concrete	Guest speaker in FDP (online)
3	National Engineering College ,Kovilpatti	14.10.2019	SIFCON	Tech Talk - Technological Forum
4	Mepco Schlenk Engineering College Sivakasi	26.03.2018	Slurry Infiltrated fiber reinforced Concrete	Invited Guest Lecture

### **Membership in Technical Society**

Sl.No	Technical Society	Membership
1.	ISTE	Life
2.	International Society for Research and Development	Life
3.	IA-ENG, International Association of Engineers	Life

### **Journal publications**

1. Deepan Rajendran , Chella Gifta Christopher Malaiappan Sindhu Muthu Self - compacting concrete made with partial replacement of lime stone and quarry dust powder, / Research on Engineering Structures & Materials .Online first. <http://dx.doi.org/10.17515/resm2022.346ma1001>. (**Scopus indexed**)
2. Effect of Steel- Polyester Fiber Combination on the Fresh and Mechanical Properties of Concrete" Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering, vol 233. Springer, Singapore. <https://doi.org/10.1007/978-981-19-0189-8> (**Scopus indexed**)
3. Mechanical Properties of Prosopis Juliflora Fiber Reinforced Concrete , Journal of Natural Fibers Publishers :Taylor Francis online 10 January 2021.**Impact Factor 5.323**. <https://doi.org/10.1080/15440478.2020.1856267>.
4. Modelling of strength and energy absorption capacity of hybrid fibre-reinforced concrete, Magazine of Concrete Research, Volume 73 ,Issue 8 ,April 2021 ,pp 410 -419. **Impact Factor 2.503**. <https://doi.org/10.1680/jmacr.20.00191>.
5. Flexural behaviour of ferrocement septic tank wall panels reinforced with glass fibers, Volume 47, Part 19, 2021, Pages 6664-6669. Materials Today: Proceedings Elsevier. <https://doi.org/10.1016/j.matpr.2021.05.109>. (**Scopus indexed**)
6. Characterization of strength and toughness properties of metalized plastic waste fibre reinforced concrete, IOP Conf. Series: Materials Science and Engineering, 1059 (2021) 012011, doi:10.1088/1757-899X/1059/1/012011. (**Scopus indexed**)
7. Study on energy absorption capacity on steel- polyester hybrid fiber reinforced concrete, <https://doi.org/10.1007/s40030-018-0310-y>. Journal of The Institution of Engineers (India): Series A volume 99, pages547–553 (2018). (**Scopus indexed**)
8. Waste water treatment using banana stem extract from textile industries, Vol 13,No1 (2018),

- International Journal of Applied Environmental Sciences.
9. Performance Evaluation of Steel - Polyester Hybrid Fiber Reinforced Concrete, Feb 2017, Journal of Structural Engineering SERC, Vol. 43, No. 6, February - March 2017 pp. 1-5. **(Scopus indexed)**
  10. Study on Internal Curing of High-Performance Concrete using Super absorbent Polymers and Light Weight Aggregates, March 2011, Asian Journal of Civil Engineering Print ISSN: 15630854, Building and Housing Research Centre Iran, Islamic Republic. **(Scopus indexed)**
  11. Experimental Investigation on Cost effective Paver Block, March 2016, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) Vol. 3, Special Issue 2.
  12. An Experimental study on Fal-G Brick, April 2016, International journal of Innovations in Engineering and Technology. (IJIET) Volume 6, Issue 4.

### **Manuscript submitted for Journals**

2. Manufactured Sand for the Development of Reinforced Concrete Spun Pipes **submitted** for Materials Today : Proceedings through ICON 2021 ,VIT .
3. Performance Analysis of Sustainable Air-Purifying Paver Blocks Using Photocatalysis and Sensors Technology , Advances in Civil Engineering. Under Review.
4. Properties of self-compacting concrete with polyester fibers using artificial neural network submitted to Advanced Concrete Construction Techno Press. Under Review.

### **Awards and Appreciation**

- Honored with University Second Rank Holder in Under Graduate Civil Engineering Programme April 2000 by Manonmaniam Sundaranar University.

### **Project fund received**

- Received Rs 10,000 by Tamilnadu State Council for Science and Technology under student Project scheme 2016 -2017 for the project titled Toughness study on steel polyester hybrid fiber reinforced concrete in 2016 -2017.
- Received Rs 7500 Project Proposal titled Pozzolanic reactivity of corn husk ash as a supplementary cementitious material to TNSCTC STUDENT PROJECTS SCHEME 2021-2022,

### **Reviewer for Journal**

- Reviewer for Journal of The Institution of Engineers (India): Series A. Springer Nature , Switzerland AG. (Scopus indexed)
- Advisory Board member of Journal of Research on Engineering Structures and Materials (RESM) MIM Research Group ,Turkey (Scopus indexed)

### **Research Proposal submitted**

- Submitted Project Proposal titled Manufacturing of interlocking paver blocks from treated Borosilicate Glass vials wastes and Demolished Construction wastes to Integrated Technology Interventions for Sustainable Environment (ITISE) Department of Science Technology . **Status : Rejected.**
- Submitted Project Proposal titled Effect of masonry debris as a fine aggregate on strength and durability properties of concrete to TNSCTC STUDENT PROJECTS SCHEME 2020-2021, **Under Review.**

- Production of Air Purifying Interlocking Concrete Paver Blocks under INNOVATION AND PRODUCT DEVELOPMENT, TNSCST in October 2021.  
**Under Review.**

**Positions held in Professional career :**

1. Dept Research Cell Co ordinator at NEC .
2. Dept Internal Examination Cell Co ordinator at NEC .
3. Associate Head of the Department /Department of Civil Engineering at Einstein College of Engineering Tirunelveli .
4. Sub warden in Girls hostel at Mepco Schlenk Engineering College Sivakasi from July 2010 -May 2011.
5. Concrete Technology, Soil mechanics lab , Model room establishment and Lab in charge roles .
6. Class in Charge and Tutorship roles



**Dr.C.Chella Gifta**