CURRICULUM VITAE



Name	: Dr. SUBHA V	
Designation	: Professor in Civil Engineering	
Official Address	: Division of Civil Engineering, School of	
	Engineering, Cochin University of Science and	
	Technology, Cochin-22, Kerala	
Home Address	: 'Tattva- Palaparambil', Orient Park, Popular	
	Road, Vaduthala, Cochin-23, Kerala	
Telephone No.	: 9447292584(M), 484 2405500 (R)	
Email Id	: v.subha@cusat.ac.in	
	: subhakamal@gmail.com	
Area of Research	: water resources, solid waste management,	
	materials and construction, sustainable	
	development in civil engineering – Housing, Green buildings	
	oreen bundings	

Educational Qualification:

PhD – Delft University of Technology (TUD), The Netherlands, 2006.

Master - College of Engineering (CET), Trivandrum, Kerala University, India, **1995**.

B.Tech - Mar Athanasius College of Engineering (MACE),Mahatma Gandhi University, India, 1991.

PhD Thesis:	Sustainable Watershed Management-An illusion or Reality- case of			
	Kerala state in India			
Chief Promotors	Prof. dr. ir. H. H. G. Savenije &			
	Prof. dr. ir. P. van der Zaag			
	Delft University of Technology, The Netherlands &			
	UNESCO- IHE- The Institute of Water Education,			

Awards and Professional Recognition:

- 1. IV Rank for B.Tech (Civil), M. G. University 1991
- 2. Dutch Scholarship for pursuing PhD in Netherlands , 2003-2006

The Netherlands

- Appreciation speech from Chief Promotor, Prof. H H G Savenije, Professor and Head, Water Resources Section, TU Delft, The Netherlands dated 19 Dec 2006.
- Governing Body Member National Coir Research Management Institute, (NCRMI)Trivandrum – Since April 2017, Technical committee member, NCRMI, Trivandrum (2007 – 2016)
- 5. The chapter entitled 'Use of Coir Geotextiles for Soil and Water Conservation for Crop Production Case Studies from Kerala, South India'.(accepted in 2016, published in feb.2018) In Advances in Irrigation Management of Horticultural Crops: An Overview under book series Innovations in Agriculture & Biological Engineering., Apple Academic Press, CRC publication, New Jersey, USA Hardback Price: \$159.95 US, Hard ISBN: 9781771885928, E-Book ISBN: 9781315204307
- **6. Appreciation Certificate from IGBC**, India for active involvement and contribution in IGBC student chapter initiatives on green concepts, 2019
- 7. Member, Board of Studies- Civil Engineering, APJ Abdul Kalam Technological University, Kerala.

No. of Publications	: 80
International Journals	: 29
International Conferences	: 28
National Conferences	:10
Book (International)	:1
Chapter (in International Book Publication)	:1
Article in book (International)	:7

Designation	Institution	Duration		Total period
		From	То	yr. m. days
Professor	School of Engineering (Department under CUSAT	26-12-2014		Till date
Associate Professor	School of Engineering (Department under CUSAT)	26-12-2011	25-12-2014	3 yrs
Reader	School of Engineering (Department under CUSAT)	26-12-2008	25-12-2011	3yrs
Lecturer (Senior Scale)	School of Engineering (Department under CUSAT)	26-12-2003	25-12-2008	5yrs
Lecturer	School of Engineering (Department under CUSAT)	07-06-1999	25-12-2003	5yrs
Lecturer	Rajiv Gandhi Institute of Technology, Govt. College, Kottayam, Kerala	16-09-1998	01-03-1999	5 months, 15 days

Employment Details - Teaching

Research Experience – 19 Yrs

- PhD awarded to two research scholar (part- time) by CUSAT in the area of sustainable solid waste management (2017) and sustainable building materialgeopolymer binder and building blocks from terracotta tile waste (2018).
- *Research Project* Completed–(Principal Investigator)
 - Use of Coir fibre as reinforcement in cement mortar, Funding Agency-National Coir Research Management Institute, Government of Kerala, Trivandrum - 18.08 lakhs

 Development of self-healing bacterial concrete for durable and sustainable construction, Funding Agency-TEQIP – Phase III– Seed Money for research projects- 1.00 lakh

➢ Ongoing research −

- Feasibility study of enhancing properties of Coir in building construction as a sustainable alternative to cement mortar.
- Feasibility study of bacteria based self healing concrete sustainable solution to reduce seepages in canal lining.
- Coastal Community Resilience Analysis: A tool to measure and enhance resilience of coastal communities
- Research Scholars (part-time) 6
- P G Dissertation Impact of conversion of low lying areas for residential development in Trivandrum city with special reference to surface drainage.
- **B. Tech Project** Design of Idamalyar Irrigation Project

Industrial Experience – 5 Years

Project Engineer- Link India Homes (P) Ltd (1995-1998)

- Planning, design and supervision of high rise apartments.
- Interior design of flats and residences.
- Water and Sanitation planning and implementation
- Trainee Engineer Cochin Port Trust, W. Island (1992-1993)
 - Design of Structures Auditorium of Kendriya Vidyalaya & staff quarters
 - Soil Investigation
 - Construction and Maintenance of buildings
 - Hydrographic Surveying

Trainee Engineer – A V Thomas & Company ,W. Island (1991-1992)

- Tendering
- Estimation and Measurements
- Scheduling and Report preparation

Research paper presented/ invited talk in International Conferences in India and Abroad

1. Watershed management conference, ASCE, USA (2005)

- 2. World Ecological Restoration Conference, SER, Spain (2005)
- 3. World Water Congress, New Delhi, India (2005)
- 4. IWRM conference, Germany (2006)
- 5. GEOMATE Conference, Australia(2014)
- 6. WGBC -IGBC congress, Jaipur, India (2017) Delegate invitation
- 7. Future Earth Workshop, Japan (2018)- Invited Talk
- 8. Indian Green Building Congress Hyderabad (2018)
- 9. Water Resources Modelling, TUDelft, The Netherlands (2018)
- 10. Micro-irrigation conference, Aurangabad, India Delegate Invitation(2019)
- 11. Indian Green Building Congress Hyderabad (2019) Delegate invitation
- 12. Innovative Technologies for Clean and Sustainable Development, Chandigarh (2020)
- 13. G20 C20 Civil Engineering Innovations for Sustainable Communities with Net Zero Targets, (2023), Banglore

Editorial Board –International Journal/ conference

- 1. Journal of Muli-disciplinary Research (CJMR), Sri Lanka
- 2. Teresian Journal of Community Research (TJCR), India

Reviewer –International Journal/ conference

- Journal of Cleaner Production, since 2008.
- Journal Physics and Chemistry of Earth, since 2008
- Journal of Sustainable Cities and Society since 2019
- Journal of Construction and Building Materials 2018
- Materials Today Proceedings
- SECON conference, Since 2017
- Geomate conference, Australia since 2014.
- Architecture and Civil Engineering conference, organized by Global Science and Technology Forum, since 2013.
- JCCME annual conference organized by The International Academy of Science and Engineering for Development (IASED) since 2016.
- International Conference on Civil Engineering Advancements in Sustainable
- Infrastructure Development and Environment CEASIDE, 2018
- Emerging Trends in Engineering, Science & Technology (ICETEST_2018) Kerala
- International conference on Innovative Trends in Engineering for sustainability (ICITES-2021),India Jan 9-11, 2021

Memberships in professional bodies:

Life Member Indian Geotechnical Society (IGS) Life Member Indian Society of Technical Education (ISTE) Life Member Indian Society of Systems for Science and Engineering (ISSE) Life member European Water Resources Association (EWRA)

Invited Lectures / Chairmanships / Subject Expert at National / International/ Regional level

Details of event	International/ National /Regional
I. INVITED SPEAKER/ KEYNOTE ADDRESS	
Invited Lecture 'Sustainable Design and Practices in Construction', Centre for Water Resources Development and Management, Kottayam, 09-08-2023	Regional
Key note 'Sustainable concepts in Civil Engineering- Role to attain SDGs, G20 C20 International conference on Civil Engineering Innovations for Sustainable Communities with Net Zero Targets, Bangalore 7-8, July 2023.	International
Panel Discussion 'Effluent Management and Eco-restoration', Organised by Technology Innovation Foundation of IIT Palakkad, 25 February 2023.	National
Panel Discussion 'Energy conservation Building Code & Eco Nivas Samhitha', Asian School of Architecture and Design Innovation, 20 Dec 2022	Regional
Invited talk 'Online Webinar on "Mind The Gap. Leave No One And No Place Behind", World Habitat Day, The Institution Of Engineers (India), Kochi Local Centre, 03-10- 2022	Regional
Panel Discussion "Pedestrian Pathways: The Right To Life And A Road To Sustainability" 11- 06- 2022,Centre for Environmental Efficiency, Kochi	Regional
Technical talk on 'Sustainable Development in Civil	Regional

Engineering -Need of the hour' – Government polytechnic first year one week internship programme , Kalamassery on 04-05-2022	
Technical Talk on Birth Anniversary celebration of Mahatma Gandhi on Water Conservation, 30-09-2019	Regional
Technical presentation 'Use of coir geotextiles for soil and water conservation' Wayanad Action Plan- jointly organized by TU Delft and mByom Consulting and Management Services LLP, Chennai, August 2019	Regional
Key note on Sustainable development concepts in the FDP on "Emerging Trends In Utilization & Conservation Of Energy For Sustainable Development" Toch Institute of Technology, 15- 19July 2019.	National
Keynote in the International Conference on Sustainable Innovations in Civil &Mechanical Engineering (ICSICM2019) Mangalam College of Engineering, Kerala 16 -17, May 2019	International
Technical Talk on World Water Day , Watershed Management, 22-03-2019, Kerala Water Authority, Ernakulam	Regional
Technical Talk on World Water Day, 21-03-2019, water conservation – need of the hour Albertian Institute of Technology, Ernakulam	Regional
Resource person in STTP on Green, Energy, Environment, Technology & Engineering for Sustainable future , 10-12- 2018, SOE CUSAT	Regional
Rajadhani College of Engineering, Attingal-(2018) Water Crisis and management techniques-Need of the Hour, 29-01- 2018.	Regional
Faculty Development Programme-Sustainable Development through Green Technology, AISAT, Ernakulam(2017) Water Resources Management, 13-12-2017.	Regional
Technical Talk on World Town Planning Day –The Blue Spaces as an element of Planning, Govt. Engineering college, Thrissur(2017) Rain bow of water, 10-11-2017.	Regional
UGC sponsored National seminar on Sustainable Resource	National

Management-Tools and Techniques, St. Therasa's college,	
Kochi (2014) Water Resources Management, 08-10-2014.	
Short Term course on Modern Trends in Energy	
Environment and Green Technlogy, CUSAT, (2014), 24-04-	National
2014.	
K.R. Gouriamma College of Engineering for Women	
Cherthala, (2014)- Water Crisis and Management Techniques	Regional
-Need of the hour, 23-10-2014.	_
Laurie Baker International School of Habitat Studies,	
Trivandrum in the theme organized by Institutes of	
Engineers, Palghat(2014), Water Resources Management, 01-	Regional
03-2013.	
Laurie Baker International School of Habitat Studies	
(LABISHaS), Ernakulam (2013) Waste Management in	National
Construction, 19-02-2013.	
K.R. Gouriamma College of Engineering for Women,	Regional
Cherthala, (2013), 11-10-2013.	C
Short Term Course on Modern Materials & Methods in	
Engineering, ISTE, CUSAT (2011)- Water Crisis and	National
management techniques, 09-05-2011.	
II. CONFERENCE CHAIR	
International conference on Recent Advances in Civil	
Engineering, ICRACE 2022, 01-03 December 2022	International
Innovative Technologies for Clean and Sustainable	International
Development, 19-21, February, Chandigarh (2020)	
International conference on Recent Advances in Civil	International
Engineering ICRACE 2020, 15-17 July CUSAT, India	mematona
International conference on Sustainable Innovations in Civil &	
Mechanical Engineering, ICSICM-2K19,16-17 May 2019,	International
India	
International conference on Green buildings and Sustainable	Tata
Engineering GBSE'19, 19-20 Feb 2019, India	International
	T 1
11-2014.	International
International conference GEOMATE, Australia (2014), 20-	International

	1
Trends and Advances in Civil Engineering (TRACE 2014) Jan 24-25, SNGCE, Kadayirippu, Kolencherry, India.	National
National Conference on Technological Trends (NCTT2014), Trivandrum, 22-08-2014.	National
National workshop on Modern Techniques in Geotechnical and Construction Engineering, CUSAT (2013), 27-09-2013.	National
Recent Advances in Structural Engineering RASE2013, CUSAT, (2013), 14-12-2013.	National
III. SUBJECT EXPERT	
Chairman, Board of Adjudicators of the PhD defense Kerala University, Trivandrum on 27-07-2022	State
Interview Board , Professor, Mahatma Gandhi University, Kerala, 14-01-2022	State
Interview board for the selection of Assistant Engineer, Devasom Board, Kerala 30-11-2021	State
Interview board for the selection of faculty members various posts in Civil Engineering MGM College of engineering and technology, Pampakuda, Ernakulam 20-09-2020	State
Oruma Programme under Mezhuveli Grama Panchayat, Pathanamthitta, technical gudence to construction works, 2017	State
Kerala Technological University Inspection Team in Rajagiri College of Engineering and Technology (2017), 02-05-2017.	State
Kerala Technological University Inspection Team in SCMS College of engineering and Technology (2017), 03-05-2017.	State
Interview board for the selection of Assistant Professor (contract) in Civil Engineering Model Engineering College, Thrikkakara, Ernakulam (2016), 21-07-2016.	State
Interview board for the selection of Assistant Professor in Civil Engineering Department, KMEA Engineering College, Ernakulam (2015), 03-08-2015.	Regional

PaperPresentationContestforStudentsinAVANZA'14,AISAT, Ernakulam,-(2014), 15-02-2014.	Regional
Reviewer in International conference ICMF 2013 – Govt. Engineering college, Thrissur (2014), 6-8 Nov2013.	National
Interview board The Kerala Minerals and Metals Ltd, for the selection of Executive Trainee –Civil (2014), 19-09-2014.	National
Interview Board Member, Rajiv Gandhi Centre for Aqua Cuture, Govt of India undertaking), Kochi, (2013), 02-07- 2013.	National
Inspection Committee of provisional Recognition in Kallupara Engineering College ,CUSAT(2011), vide letter dtd 26-07- 2011.	Regional
Board of Examiners of M.Tech Thesis, Anna University, 2011, vide proceedings dtd 24-6-2011.	National
IV. EXTERNAL EXAMINER	
Doctoral Committee Member, TKM college of Engineering, Kollam, Since 2021	Regional
Doctoral Committee Member, Government college of Engineering, Thrissur, Since 2019	Regional
Doctoral Committee Member, Kerala University of Fisheries and Ocean Studies, Kochi, Since 2019	Regional
M.Tech Viva-Voce Examination, Government College of Engineering,(GEC) Thrissur (2017), 16 Sep2022	Regional
B.Tech Project external subject Expert, TochH Institute of Science & Technology, Cochin, 11-12 June 2019	Regional
B.Tech Project external subject Expert, Rajagiri school of Engineering & Technology, Cochin, 28Mar2019	Regional

VI. JUDGE	
National Seminar organized by Coir Development Department, Alleppey (2017), 04Feb2017.	National
V. MODERATOR	
M Tech Thesis evaluation, Anna University(2012), vide letter 28June2012.	National
B.Tech Viva - voce, Toch- Institution of Technology Ernakulam (2014), 21-23 Apr 2014.	Regional
MSc. Environmental Technology Dissertation Evaluation,CUSAT (2015), 01Aug2015.	Regional
M.Tech final semester Viva voce examination, College of Engineering, CET- TVM (2015), 16Nov2015.	Regional
M.Tech final semester Viva voce examination, College of Engineering, CET- TVM (2015), 18Nov2015.	Regional
B.Tech Viva - voce, Toch- Institution of Technology, Ernakulam (2017), 26-28 Apr 2017.	Regional
M.Tech Viva-Voce Examination, Government College of Engineering,(GEC) Thrissur (2017), 22Aug2017.	Regional
PhD Thesis Evaluation, Mahatma Gandhi University, Kerala	Regional
M.Tech Viva-Voce Examination, Government College of Engineering,(GEC) Thrissur (2017), 14Aug2018.	Regional
M.Tech Viva-Voce Examination, Federal Institute of Science and Technology (2018), 21Dec2018.	Regional
M.Tech Viva-Voce Examination, Government College of Engineering,(GEC) Thrissur (2017), 19Aug2019	Regional

CBSE-Regional Science Exhibition- 2018, Toch Public School, Ernakulam (2018), 04-05 Jan 2018.	State
Staff Co-ordinator Scienza 2018 in events, CUSAT Bridge Gap, Jam, CAAD Lab in Science Week	Regional

CO-ORDINATOR

Title of the programme	Duration	coordinator	Funding Agency
One day seminar on' RISE the CUP,	15-03-2023	Division of Civil Engineering, SOE, CUSAT	CUSAT
Joint Organising Secretary ICRACE 2022, CUSAT	01-03 December 2022	Division of Civil Engineering, SOE, CUSAT	CUSAT
One day seminar on Women Empowerment, Safety and Legal awareness	16-03-2022	Dr. Subha V& Dr. Deepa Balakrishnan	TEQIP-Phase –III, SOE, CUSAT
One day Webinar – Lecture Series on Formwork for Concrete Structures - Industry Practices in Technology and Safety	28January2021	Dr. SubhaV & Dr. Abdu Rahiman	TEQIP – Phase –III, SOE, CUSAT
One day Webinar – Lecture Series on Bridging the Gap between theory and Practice in Construction Industry	21January2021	Dr. Subha V& Dr. Abdu Rahiman	TEQIP – Phase -III
One day Webinar – Lecture Series on Planning and	27August2020	Dr. Subha V & Dr. Abdu Rahiman	TEQIP – Phase -III

Procurement aspects in Construction Industry			
One day workshop on HSE in Construction Industry	03January- 2020	Dr. Subha V & Dr. Madhu G	TEQIP – Phase -III
One day workshop on Innovations in Construction Industry	03January2020	Dr. Subha V & Dr. Abdu Rahiman	TEQIP – Phase -III
Two day workshop on Challenges and Opportunities in Construction Industry,	03-04 September 2019	Dr. Subha V & Dr. Abdu Rahiman	TEQIP – Phase -III
One day workshop on Resilient Infrastructure Development	25-07-2019	Dr. Subha V & CPPR, Kochi	Teqip-III
Erudite Scholar in Residence Programme – Scholar Dr. Bert Enserink, TU DELFT, The Netherlands	04-09 February 2019	Dr. Subha V	Kerala State Higher Education Council, Trivandrum
STTP on Green, Energy, Environment, Technology & Engineering for Sustainable future	10-14 December 2018	Dr. Subha V & Dr. Roy M Thomas	TEQIP – Phase -III
Scienza 2018	16-02-2018 to 01-03-2018	Staff co-ordinator JAM	SOE, CUSAT
Scienza 2018	16-02-2018 to 01-03-2018	Staff co-ordinator Auto CAD	SOE, CUSAT

Sasthrayaan	27-28 February 2018	Faculty coordinator	CUSAT Science week celebration
IGBC monthly events for Students of SOE	14 March 2018	6 March 2019	IGBC student chapter, SOE CUSAT
STTP in Geosynthetics in Civil Engineering with special reference to Natural Geotextiles	2-13 December 2002	Dr. Beena K S & Subha V	AICTE-ISTE
STTP in Sustainable Technologies in Engineering	18-22 March 2013	Dr. Deepa G Nair & Dr. Subha V	TEQIP – Phase -II

ORGANIZING COMMITTEE MEMBER/ADVISORY COMMITTEE MEMBER

Organizing Committee Member

- National Conference in Recent Advancement in Civil Engineering, Biennial conference organized by Division of Civil Engineering, School of Engineering, CUSAT – Since 2004
- Organizing/ Technical committee member, International Conference on Energy, Environment, Materials, and Safety, ICEEMS'14 organized by School of Engineering, CUSAT
- Organizing/ Technical committee member- International Conference On Recent Trends In Engineering & Technology, ICORTET-2016, organized by School of Engineering, CUSAT
- International Conference Recent Advancement in Civil Engineering (ICRACE'2016, ICRACE'2020, ICRACE2022 organized by Division of Civil Engineering, School of Engineering, CUSAT

Advisory Committee Member

Annual International Conference on Emerging Research Areas(AICERA,18-20 July2019)

Technical Committee Member

International Joint conference on Civil and Marine engineering, (JCCME2020) November 23-25,2020, New Zealand International conference on Innovative Trends in Engineering for sustainability (ICITES-2021),India Jan 9-11, 2021

Responsibilities other than Teaching in University & Division

Work Committee Member: School of Engineering 2017 onwards P. T. A Executive committee member: School of Engineering (from 2017) onwards) Science week : Event in charge (civil engg) 2018 IGBC student chapter : Initiative taken to launch IGBC chapter in SOE & staff Co-ordinator (2018) NBA committee member : 2012-2016 Alumini staff co-ordinator : 2012-2016 Staff Advisor (i) 2018 batch (ii) 2012-2016 (iii) 2005-2009. Setting up laboratory: Building Technology & NDT Laboratory (2000-2002)Lab - in- Charge :Building Technology & NDT Laboratory (2000-2003 & 2006-2015) Planning & implementation of Interior Design works : Seminar Hall, Laboratory Block, SOE Organising committee member/ Session committee chairman& :RACE-Biennial National/ International Technical committee member conference organized by Division of Civil Engineering, CUSAT since 2004 Subject Expert Inspection Team : Kallupara Engineering College CUSAT Affiliation (2011) B.Tech Curriculam :Syllabus revision – 1999 onwards Chairman Valuation camp : IV sem & VI sem (2014, 2015) Research committee member : School of Engineering CUSAT Doctoral committee member : Division of Civil Engineering, CUSAT Question Paper Setter : CUSAT & Kerala University. Project Guide :B.Tech and M.Tech students, SOE. Organising/ Technical committee :ICEEMS'14,ICORTET'16 Co-ordinating and accompanying students for industrial visits to Idukki dam, ready mix concrete plant, airport and other construction sites. Placement Co-ordinator B Tech Civil 18-22 batch Duties assigned by Division Head/ Principal of SOE in connection with all extracurricular activities in school.

Course handled in the last 5 years

Water Resources & Irrigation Engineering	- V semester
Building planning and Drawing	- IV semester

Fluid Mechanics	- IV semester
Architecture and Town planning	- VIII Semester
Highway Engineering Laboratory	- V Semester
Building technology & NDT laboratory	- VIII Semester
Civil Engineering Workshop	- I semester
Structural Engineering Laboratory	- VIII Semester
Retrofitting & Rehabilitation of Structures	- VIII Semester

Details of Publications

Type of publications	Year	Papers published
Journal coir fiber rein strengths of n		 Lekshmi M.S. Subha Vishnudas and Anil K R. Effect of coir fiber reinforcement on flexural and compressive strengths of masonry mortar, Journal of Materials in Civil Engineering, Accepted for publication.
		2. Lekshmi M.S. Subha Vishnudas and Anil K R. Experimental investigation on acoustic performance of coir fiber and rice husk acoustic panels, Applied Acoustics, Volume 204, 109244.
	2021	3. Lekshmi M.S. Subha Vishnudas and Anil K R, Lignocellulosic materials as reinforcement and replacement for binders in masonry mortar, Journal of Construction and Building Materials, 282 (2021) 122607.
	2020	4. Lekshmi M.S. Subha Vishnudas and Deepa G.Nair, Strength, Sorptivity and shrinkage characteristics of cow dung stabilized mud mortar, materials Today Proceedings, Materials Today: Proceedings,Volume 32, Part 4, 2020, Pages 782-787
	2018	5. Athira Ravi, Subha Vishnudas (2018)., Ecological Footprint And Waste Footprint of Kochi City, India–A Combined Analysis, The Journal of Solid Waste Technology and Management, Volume 44, Number 4,pp 343-355
	2017	6. Athira Ravi, Subha Vishnudas (2017). Policies and Strategies for Sustainable Solid Waste Management in

Urban Residential Areas – A Case Study of Kochi City, Kerala, India, International Journal of Engineering and Technology (IJET), Vol 9 Issue 3, ISSN (Print) : 2319- 8613, ISSN (Online) : 0975-4024, DOI: 10.21817/ijet/ 2017/v9i3/170903204, pp 1917-1924. (Scopus Indexed)
7. Athira Ravi, Subha Vishnudas(2017). Waste Footprint Model for Calculating the Waste Footprint of Urban Residential Areas, International Journal of Civil Engineering and Technology (IJCIET) Volume 8, Issue 5, <i>ISSN Print: 0976-6308 pp. 14–21. (Scopus Indexed)</i>
8. Athira Ravi, Subha Vishnudas (2017). Conceptual framework for evaluating the sustainability of domestic organic waste management techniques. International Journal of Civil Engineering and Technology 8, 283-289. <i>ISSN Online: 0976 -6316 (Scopus Indexed)</i>
 9. Athira Ravi, Subha Vishnudas, C E Ajith Kumar (2017). Waste Footprint of Kochi City, Kerala, India – A Statistical Analysis, Global journal for research analysis, Volume : 3 Issue : 11, ISSN No 2277 - 8179, pp644-647
 10. Athira Ravi, Subha Vishnudas (2017). Sustainable options for reducing the waste footprint in urban residential areas, International Journal of Scientific and Research Publications, Vol 7, Issue 7, ISSN 2250-3153.
11. Athira Ravi, Subha Vishnudas (2017). Biogas technology as a sustainable domestic organic waste management measure for developing countries, Civil Engineering and Urban Planning: An International Journal (CiVEJ), Vol.4, No.2, pp 79-90.
12. Lekshmi M S, Subha Vishnudas, Deepa G. Nair (2017). An investigation on the potential of mud as sustainable building material in the context of Kerala, Int. J. Energy Technology and Policy, Vol. 13, Nos.1/2, pp107-122. (<i>Scopus Indexed</i>)

	 13.S Usha, Deepa GNair, SubhaVishnudas (2017). Study on Development of GeopolymerBinder from Terracotta, Roof Tile Waste by Experimental and Statistical Method, IOP Conf. Series: Materials Science and Engineering 225 012120, DOI:10.1088 / 1757-899X/225/1/012120
	14. S Usha, Deepa GNair, SubhaVishnudas (2017). Feasibility Study of geopolymer binder from terracota roof tile waste, Procedia Technology 25. pp 186-193. (Scopus Indexed)
2016	15. Lekshmi M S, Subha Vishnudas, Deepa G. Nair (2016). Experimental study on the physical properties of mud mortar in comparison with the conventional mortars, Civil Engineering and Urban Planning: An International Journal (<i>CiVEJ</i>) Vol.3, No.2,pp127-135
2016	16. Meera C. M, Subha V (2016). Strength And Durability assessment of Bacteria Based Self-Healing Concrete, IOSR Journal of Mechanical and Civil Engineering, <i>e-ISSN:</i> 2278-1684,p-ISSN: 2320-334X, PP 01-07
2014	17.S Usha, Deepa G. Nair, Subha Vishnudas, (2014). Geopolymer Binder From Industrial Wastes: A Review, International Journal of Civil Engineering And Technology, ISSN 0976, – 6308 (Print), ISSN 0976– 6316(Online) (Scopus indexed)
2013	18. Athira Ravi, Subha V. Ecological Foot Print Analysis- An Overview, American Journal of Engineering Research (AJER) e-ISSN: 2320-0847 p-ISSN: 2320-0936 pp-12-19
	19. Athira Ravi, Subha V. Sustainable Development through the environmental management tool Ecological foot print analysis- A study in Kochi City, India, International Journal of Scientific & Engineering Research, Vol 4, Issue 4, pp 776-783 DOI:10.14299/ijser.2013.03.
	20. Athira Ravi, Subha V. Sustainable solid waste management solutions to Kochi city, through environmental management tool ecological foot print analysis, International journal of civil, structural, environmental and

	infrastructural engineering research and development, Vol3, issue1, ISSN 2249-6866,pp67-78.
201.	2 21. Subha Vishnudas, Hubert H.G. Savenije, , Pieter Van der Zaag, K.R. Anil. Coir geotextile for slope stabilization and cultivation – A case study in a highland region of Kerala, South India, Physics and Chemistry of the Earth,Volumes47–48,Pages135–138,(<i>Scopus indexed</i>) DOI:10.1016/j.pce.2012.05.002 (impact factor 1.888)
201.	 22. Subha Vishnudas, Hubert H.G. Savenije, Pieter Van der Zaag Watershed development practices for ecorestoration in a tribal area – A case study in Attappady hills,, SouthIndia, Physics and Chemistry of the Earth, Volumes 47–48, Pages 58–63. DOI:10.1016/j.pce.2012.04.001 (impact factor 1.888), (Scopus indexed)
201	23. Athira Ravi, Subha V Ecological Foot Print Analysis-A Sustainable Environmental Management Tool for Kochi City, ACEEE Int. J. on Transportation and Urban Development, Vol. 01, Issue. 01,5-7. DOI: 01.IJTUD.01.01.10
201	 24. Lekshmi MS., V.Subha. Sustainable Building Materials in Kerala – An Overview, ACEEE Int. J. on Transportation and Urban Development, Vol.01, issue. 01, 8-11. DOI: 01.IJTUD.01.01.11
200	 25. Subha Vishnudas, Hubert H.G. Savenije, Pieter van der Zaag, Kunnathu R. Anil, Krishnan Balan, Participatory research using coir geotextiles in watershed management – A case study in south India, Physics and Chemistry of the Earth, Volume (33), Issues 1-2, Pages 41-47. DOI:10.1016/j.pce.2007.04.016, (impact factor 1.888), (Scopus indexed)
200	 26. Subha Vishnudas , Hubert H.G. Savenije , Pieter Van der Zaag , C.E. Ajith Kumar, K.R. Anil, Sustainability analysis of two participatory watershed projects in Kerala, Physics and Chemistry of the Earth Volume 33, Issues 1-2, Pages 1-12. DOI: 10.1016/j.pce.2007.04.004.(impact factor 1.888) ,(Scopus indexed)

	2007	27. Subha Vishnudas, Hubert. H. G. Savenije, Pieter Van Der Zaag, A conceptual framework for the analysis of sustainable watershed management projects, <i>Reducing the</i> <i>Vulnerability of Societies to Water Related Risks at the Basin</i> <i>Scale</i> , International Association of Hydrological Sciences, <i>LAHS Press</i> , Wallingford, UK ROYAUME-UNI, Volume 317 page 263-272, <i>ISSN: 01447815</i> .
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International Conference	2022	30. Subha Vishnudas and Midhun Joseph. Feasibility study of using white mortar as plaster mortar in building construction, Proceedings international conference in recent advances in civil engineering, ICRACE 2022, 01-03 Dec 2022
		31. Subha Vishnudas, Neenu Maria Jose. Study On The Effect Of Water Cement Ratio On Accelerated Curing Of Concrete., Proceedings international conference in recent advances in civil engineering, ICRACE 2022, 01-03 Dec 2022.
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		33. Geeja K George, V Subha, K U Abdu Rahiman. Comparison of Frequency Ratio Method and AHP techniques in identification of groundwater potential zone, Virtual International Conference on Innovative Trends in

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	34. Thankachan PJ, Subha Vishnudas, Renuka V. Planning and design of storm water drainage system in a town, - a case study in Ernakulam district, Virtual conference on Disaster Risk Reduction, VCDRR, Kerala,15-20 March 2021, Suratkal, India
	35. Sunith John David, Abdu Rahiman , Subha V.A Novel Statistical Approach for Infiltration Model Analysis, National Conference on Advanced Modelling and Innovations in Water Resources Engineering, 20 - 21 February 2021(AMIWRE – 2021), Jamshedpur, India
2020	36. Rajalakshmy. A, Subha. V, Lekshmi. M. S and Parvathy. A. Nair, Feasibility study of natural fibre reinforced mud blocks as a building material, ICRACE 2020, India.
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National Conference	2021	7. Lekshmi M S , Subha Vishnudas and Anil K.R Coir Reinforced Binder Based Masonry Mortar For Ceiling And Inside Wall Plastering, 9th International Seminar on Coir, organised by NCRMI, Government of Kerala, 18-02-2021					
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	2014	59. Subha Vishnudas. (2014), Water Crisis and management Techniques. Need of the Hour, Proceedings, UGC sponsored National Seminar, published by St.Therasa's College, Ernakulam, <i>ISBN 978-8172550660</i>					
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	2004	67. Subha V., Thampuran, A, L. (2004). Impact of urbanization on the environment of Kerala, conference proceedings, 1 st RACE conference, Directorate of Public relations and Publications, CUSAT, India
Book (International)	2006	68. Vishnudas, S.(2006), Sustainable Watershed Management Illusion or Reality, a case of Kerala State in India, PhD Thesis, Eburon Academic Publishers, The Netherlands. <i>ISBN-13: 978-90 -5972-154-8.</i> , Price- 19.50 Euro
Chapter (International)	2018	69. Subha Vishnudas, Anil K R, Hubert H G Savenije, Pieter Van der Zaag (2017). Use of Coir Geotextiles for Soil and Water Conservation for Crop Production – Case Studies from Kerala, South India, CRC publications, Apple Academic Press, New Jersey, USA (February 2018) <i>Hard</i> <i>ISBN: 9781771885928, E-Book ISBN: 9781315204307,</i>
Article in Book (International)	2022	 70. Antony, R., Abdu Rahiman, K.U., Vishnudas, S. (2022). Flood Hazard Mapping Using Geographical Information System (GIS) and Analytical Hierarchy Process (AHP). In: Kolathayar, S., Mondal, A., Chian, S.C. (eds) Climate Change and Water Security. Lecture Notes in Civil

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2018	76. Meera C M & V. Subha (2018). Relationship between the modulus of elasticity and characteristic compressive

		strength of B. subtilis impregnated concrete, In Civil Engineering Advancements for Sustainable Infrastructure Development and Environment, Proceedings of the International Conference in Emerging Trends in Engineering, Science and Technology (ICETEST 2018), CRC publications, Taylor & Francis group, London, pp 6- 11, doi.org/10.1201/9781351124140.					
Article in Book (National)	2021	77. Subha Vishnudas (2021). Ecorestoration and watershed development practise in Attapady hills, Aranyam, Monthly magazine September 2021, <u>www.forest.kerala.gov</u> .in, vol 42, issue 1, pp 24-27.					
	2017	78. Subha V, Anil K R & Balan K (2017). Coir Geotextiles – a sustainable solution for soil and water conservation in Kerala,Compendim of research articles- Uses and established environmental friendly applications of coir geotextiles, National Coir Research Management Institute , Thiruvanthapuram, pp-119-127					
	2013	79. Subha V & Deepa G Nair (2013). Sustainable Development- Need of the present century, Article: Ed:Dr.Clement, Dr Benny Mathews Abraham, Prof.Anitha G Pillai,In On the trail of an institution Builder, published by AISAT, OCT.2013, pp273-278, <i>ISBN 978-81-928456-0-</i> <i>9</i>					
	2009	80. Deepa G Nair, Subha V. (2009). Sustaianble Housing and Watershed managemen -The case of Kerala t: Edited by Dr. Manoj P K, In Emerging technologies and Financing Models for Affordable Housing in India, Directorate of Public relations and Publications, CUSAT, <i>ISBN:978-93-80095-01-1</i>					

Poster: Subha Vishnudas 'Rainbow of Water, 2023, DOI: <u>10.13140/RG.2.2.36803.58409</u>

Short Term courses / Training Programme/conferences attended

A. International

Introduction to Policy Analysis, September- October, 2004 for 7 weeks, in Department of Policy and Management, Delft University of Technology, The Netherlands.

- Introduction to Water Resources Management, 10Th October to 10th November 2003, UNESCO-IHE, The Netherlands.
- Environmental Sanitation- Solutions & Management, International water and sanitation centre, organized by SEUF-IRC, The Netherlands, 2-12 July 2002, Thiruvananthapuram, Kerala.

B. Webinar – International

- Environment and Emergencies in the face of COVID-19: What do you need to know in the Panademic Context, (UNEP) 29 July 2020
- Environment And Emergencies In The Face Of Covid-19:Environmental Coordination In Emergencies: Localization and Lockdown Challenges, (UNEP) 19 August 2020
- Negative Emissions Webinar Series (NEWS-2020), August 2020, TU DELFT, The Netherlands
- Technical Webinar on 'Compressed Stabilized Earth Blocks for a Sustainable future', The Institution of Engineers India, 19 September 2020
- Environment And Emergencies In The Face Of Covid-19:Environmental Coordination In Emergencies: Preparing and Responding to Chemical Risks: Re starting Industry, (UNEP) 14 October 2020
- Environment And Emergencies In The Face Of Covid-19 -Enhancing The Sustainability Of Humanitarian Action, (UNEP), 25 November 2020
- Environment And Emergencies In The Face Of Covid-19- What have we learnt from past emergencies and future outlook (UNEP), 16 December 2020
- Waste Management during COVID-19: from crisis to opportunity, (UNEP), 22 December 2020
- Environmental Restoration and Circular Economy, Online seminar on 5 June 2021, International Society of Waste Management Air and Water, (ISWMAW), Centre for Sustainable Development and Resource Efficiency Management, Jadavpur University, India.

C. Online Conferences- National/ International

- National Conference On Advanced Modelling And Innovations in Water Resources Engineering, AMIWRE – 2021, organized by Department of Civil Engineering, National Institute of Technology Jamshedpur. 20 - 21 February 2021
- Virtual conference on Disaster Risk reduction- Civil Engineering for a Disaster Resilient Society, organissed by International Water management Institute and National Institute of Technology, Karnataka 15-20 march 2021,
- Online International Conference IGBC's Green Building Congress 2021, on Green Built Environment, Confederation of Indian Industry, IGBC, at CII HIVE,18-20 November 2021

International Conference on Indo-US relations: Change Continuity and Transformations, organized by CPPR, Kochi and US consulate General in Chennai, 19-20 April 2022.

C. National

Name of the Course/conferences	Conducted By	From	То	No of Days
FDP program on Computational Advances in Water Resources Modelling	Department of Civil Engineering, National Institute of Technology, Jamashedpur	21-06-2022	26-06-2022	6 days
Online Training Programme On "Automation Of Canal With Modern Measurement Methods And Control Techniques"	Central Water and Power Research Station (CWPRS), Pune	24-05-2022	25-05-2022	2 days
National Seminar on Disaster Resilient Infrastructure	Department of Civil Engineering, National Institute of Technology Puducherry, Karaikal	11 -03- 2022	12 -03- 2022	2 days
Online ATAL FDP on " Modelling of Water Resources Systems"	Central University of Jharkhand	01/11/2021	05/11/2021	5 days
Online ATAL FDP on "Stress Management: A Key for Personal & Professional Excellence"	Progressive Education Society's Modern College of Pharmacy,	18-10-2021	22-10-2021	5 days

	Pune			
Online training course on 'Ground water resource management'	Central Ground Water Board, Kerala, Government of India	28-07-2021	30-07-2021	3 days
Online Training Programme On "Automation Of Canal With Modern Measurement Methods And Control Techniques"	Central Water and Power Research Station (CWPRS), Pune	27-05-2021	28-05-2021	2 days
STTP (online)on Renewable Energy and Sustainable Development	NIT, Uttarakhand	01-03-2021	05-03-2021	5 days
STTP (online)on Sustainable composites: processing,characterization and Applications	NIT, Uttarakhand	22-02-2021	26-02-2021	5 days
STTP (online) on Teaching Effectiveness in a Digital World: A behavioral Perspective	SOE, CUSAT	07-09-2020	08-09-2020	2 days
Online FDP 'Bridging the Gap: Theory and Practices in Pavement Engineering'	Saint Gits College of Engineering, Kottayam, Kerala	24-08-2020	28-08-2020	5 days
STTP on Recent Advances in Environmental Engineering and Management	SOE, CUSAT	02 -03-2020	07-03- 2020	6 days
FDP on Robotics and Deep Learning Techniques	SOE, CUSAT	24-02-2020	29-02-2020	6 days

Sustainable Technologies for waste to Energy & waste to Wealth- Challenges and opportunities	SOE, CUSAT	16-12-2019	16-12-2019	1 day
Machine Learning For Engineering Applications	IIT, Delhi	09-12-2019	13-12-2019	5 days
Sustainable concrete pavement	Indian concrete Institute	23-09-2019	23-09-2019	1 day
America with Kerala: Uniting for a Disaster Resilient Kerala: Smart Cities Workshop: Sustainable Urban Development'.	CPPR& Consulate of America	20-09-2019	20-09-2019	1day
FDP on Artificial Intelligence and Soft Computing Techniques (Theory & Practice)	SOE, CUSAT	29-08-2019	31 -08-2019	3 days
Challenges of Kolkatha Metro Construction	IGS Kochi CHAPTER	27-07-2019	27-07-2019	1 day
America with Kerala: Uniting for a Disaster Resilient Kerala: Policy Planning and Infrastructure Development	CPPR& Consulate of America	23-07-2019	24-07-2019	2days

	1			
Workshop on Teaching Excellence	SOE CUSAT	05-07-2019	05-07-2019	1 day
America with Kerala: Uniting for a Disaster Resilient Kerala: Curriculum on Disaster Management for Higher Education	CPPR& Consulate of America	24-06-2019	24-06-2019	1day
International conference on Energy, Environment and Safety (ICEEMS'19),	SOE, CUSAT	25-04-2019	27-04-2019	2 days
STTP on Technology Enhanced Learning Environment	SOE, CUSAT	07-01-2019	11-01-2019	5 days
STTP on Green, Energy, Environment, Technology & Engineering for Sustainable future	SOE, CUSAT	10-12-2018	14-12-2018	5 days
Landslides: Analysis, Mitigation and Case studies	SOE, CUSAT	01-12-2018	01-12-2018	1day
Housing Literacy for rebuilding of Kerala	SOE, CUSAT	16-11-2018	16-11-2018	1 day
Mechanobiology- Exploring the Relevance of Engineering in Biological Systems	SOE, CUSAT	22-10-2018	26-10-2018	5 days
Short Term Training Programme on 'Outcome based Education- A gateway to NBA accreditation	SOE, CUSAT	12-02-2018	16-02-2018	5 days
Sustainable Construction, Environment& Climate	SOE, CUSAT	08-12-2017	08-12-2018	1 day

Short Term Training Programme on 'Mathematical models in data mining process'	SOE, CUSAT	04-04-2016	08-04-2016	5 days
Faculty Development Programme- Pedagogy	IIT Madras	27-07-2015	29-07- 2015	3 days
Moodle- Open Source Learning management System	SOE, CUSAT	30-03-2015	30-03-2015	1 day
Management Development Programme on 'Communication Effectiveness lab for Managers'	IIM- Kozhikode, Kochi campus	25-08-2014	27-08-2014	3 days
GIS, GPS and remote sensing applications in Engineering	SOE, CUSAT	4-11-2013	10-11-2013	7 days
Advanced Engineering Materials and their Application	SOE, CUSAT	21.01.2013	25.01.2013	5 days
Energy Conservation Management	SOE CUSAT	5-11-2012	09- 11- 2012	1 week
STTP on Sustainable Technologies in Engineering	SOE, CUSAT	18-03-2013	22 -03- 2013	1 week
STTP on Advanced Engineering Materials and their Application	SOE, CUSAT	21- 01-2013	25 -01- 2013	1 week
STTP on Safety and Fire Protection in buildings	SOE, CUSAT	03 -12-2012	07 -12- 2012	1 week
STTP on Energy Conservation & Management	SOE, CUSAT	05 -11-2012	0 9 -11- 2012	1 week
Concrete Construction for Coastal Conditions- causes, concerns, & Challenges	Kochi	8Dec 2012	Indian Concrete Institute Chennai	1 day

Green Construction for a Greener World	Kochi	5Dec 2012	Cochin Cements	1 day
Counsellor Development Workshop for Engineering College Teachers	GCT, Thrissur	13-10-2012 & 14 -10 2012	DTE, Kerala	2 days
STTP on Safety Aspects in Engineering-Need and Practices	SOE, CUSAT	28- 03-2011	08-04-2011	2 weeks
STTP on Modern Materials and Methods in Engineering	SOE, CUSAT	02-05- 2011	14-05-2011	2 weeks
Participated in Seminar IGS, 2011, Kochi, Piling and Associated Problems	Kochi	07-05-2011	IGS , Kochi	1 day
Non- Destructive testing, welding Inspection and Quality Control & Site coating Inspection	SOE, CUSAT	04-05- 2011	ISTE	1 day
STTP on Modelling& Optimization Techniques in Engineering	SOE, CUSAT	18- 10-2010	30-10- 2010	2 weeks

Research profile URL

Scopus : <u>https://www.scopus.com/authid/detail.uri?authorId=14063977000</u> Google Scholar : <u>https://scholar.google.co.in/citations?user=OOBZAtoAAAAJ&hl=en</u> Research Gate : <u>https://www.researchgate.net/profile/Subha_Vishnudas</u> LiveDNA : <u>https://livedna.org/91.16772</u>

References

International

- 1. Prof. (Dr.) Huber H G Savenije, Delft University of Technology, The Netherlands
- 2. Prof. (Dr.) Pieter van Der Zaag, UNESCO IHE, The Netherlands
- 3. Prof. (Dr.) Philip Vergragt, Clark University, USA.

National

- 4. Dr. Anil K R, Former Director, National Coir Research management Institute, Trivandrum
- 5. Principal, School of Engineering, Cochin University of Science and Technology, Cochin -22, Kerala, India