

National Institute of Technology, Tiruchirappalli: Performa for CV of Dr.S.Jayalekshmi



Curriculum Vitae

Brief Profile:

Dr.S.Jayalekshmi, serving the Institute for past 22 years is currently, Professor, Department of Civil Engineering, N.I.T., Tiruchirappalli. She is a recipient of Bharat Jyoti Award, Thiru Meenakshi Sundaram Pillai Merit Prize for securing University first rank in M.E. She is currently guiding 6 Ph.D. Scholars and has guided 3 Ph.D. Scholars. She is also a recipient of many awards and prizes including the prestigious International Geosynthetic Student Award at GEOASIA 2004, Korea. She specializes in the field of Geotechnical Engineering. Her research interests include Geosynthetics, Lunar Simulants, Environmental Geotechnique. She has also secured a certificate of Appreciation from the Institution of Engineers (India). She has guided 2 Ph.D. students in the field of Terramechanics and developed India's first Lunar Simulant (TRI-1) or Tiruchirappalli 1 as part of her guidance. She was instrumental in setting the creep testing facilities of IIT Madras as part of her research and in developing a Lysimeter, as part of M.Tech. Guidance. Another Ph.D. Scholar completed his Ph.D. in Structural Engineering stream, on Studies on Behaviour of Circular Concrete filled Steel Tubular Columns. She has submitted a report to ISRO which was well received. She was instrumental in bringing the ISRO Project related to Chandrayaan – 2 to the Civil Engineering Department. A simple experimental setup for wheel soil interaction studies on Lunar Simulants has been developed. She is highly enthusiastic about her teaching and has handled 29 subjects (Theory and Laboratory) in the U.G., P.G. and Ph.D. Curricula and introduced seven new courses including 1. Simulant Materials, 2. Constitutive Modeling of Geologic Materials 3. Soil-Structure Interaction 4. Marine Foundations 5. Microbial Geotechnology and Ground Improvement 6. Environmental Geotechnical Engineering and 7. Geotechnical Earthquake Engineering. She has guided 61 M.Tech. Projects, in Geotechnical Engineering, Transportation Engineering and Management, Environmental Engineering and Structural Engineering and Construction Engineering and Management specialisations. A Collaborative Project has been completed with Ms. Golcha Associates, India's largest Talc Manufacturer. An innovative floating concrete canoe fabricated under her guidance was awarded a certificate of appreciation by Indian Concrete Institute and I.I.T. Madras. A certificate of Appreciation was awarded for her article contribution by the Institution of Engineers (India). She has also mentored students and developed the communication skills of students as the Faculty in charge of Weekly Seminar Activities of P.G. Students and Research Scholars for two years (2007 – 2009). Her B.Tech. Project at Government College of Engineering in 1990 is on the Application of Geosynthetics to Shallow Foundations. Her M.E. Project is on Finite Element Analysis of Rigid Pavements, in which she explored the Soil Structure Interaction Effect of Civil and Military Aircrafts on the Rigid Airport Pavement using GIFTS (Graphic Interactive Finite Element Total System). Her Ph.D. Studies culminated in fabrication of an Innovative Creep Testing Rig which is of a self compensating nature. Dr.S.Jayalekshmi represented the Institute in the ISRO – Respond Exploratory Meeting at V.I.T. Vellore on 08.09.2016. She is a Member of the Committee for Safety and Security of the Institute from 25.11.2016. Dr.S.Jayalekshmi was in the Organising Committee of ACE 2016, International Conference, Singapore and is Track Co-Chair for Civil Engineering in FEAST 2017 and 2018. She has reviewed for Institution of Engineers (Series A) and Canadian Journal of Geotechnical Engineering. She is Life Member of IGS, IGS (Chennai Chapter) and Member of Institution of Engineers (India) and ISTE.

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1. Name: Dr.S.Jayalekshmi
2. Designation: Ph.D.
3. Office Address: Dr. S. Jayalekshmi,
Professor,
Room No.207, Annexe
Building, Civil Engineering
Department, N.I.T,
Tiruchirappalli -620015
4. Telephone (Direct) (Optional):
Telephone Extn (Optional): 0431 2503164 (Office)
Mobile (Optional):
5. Email (Primary): jaya@nitt.edu Email (Secondary) :jaynagu@gmail.com
6. Field(s) of Specialization: Geotechnical Engineering
7. Employment Profile

Job Title	Employer	From	To
Lecturer	R.E.C., Tiruchirappalli (Now – N.I.T. Tiruchirappalli)	04-02-2000	30-06-2005
Senior	Lecturer R.E.C., Tiruchirappalli (Now – N.I.T. Tiruchirappalli)	01-07-2005	30-06-2009
Assistant Professor	N.I.T. Tiruchirappalli	01-07-2009	30-06-2012
Associate Professor	N.I.T. Tiruchirappalli	01-07-2012	29.9.2019
Professor	N.I.T. Tiruchirappalli	30.09.2019	Till date

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7. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D. (Geotechnical Engineering)	I.I.T. Madras	2004	International Geosynthetic Society Student Award (1000 U.S. Dollars + 1 Citation received at GEOASIA 2004, Seoul, KOREA)	Geotechnical Engineering based and Structural Engineering based subjects – Geotechnical Specialisation
M.E. (Geotechnical Engineering)	Department of Structural Engineering, Annamalai University	1995	First Class with Distinction University First, Thiru Meenakshi Sundaram Pillai Merit Prize	Geotechnical Engineering based
B.E. (Civil Engineering),	Govt. College of Engineering, Tirunelveli/ Madurai Kamaraj University	1990	First Class	Civil Engineering related
H.S.C.	St.Joseph's Convent G.H.S.School Nagercoil	1986		English, French, Maths Physics, Chemistry, Biology.
S.S.L.C.	S.L.B.Govt. H.S.School, Nagercoil	1984	National Merit Scholarship Certificate Holder -State Rank	English, Tamil, Maths, Science, History & Geography
Others				
Rashtrabasha Praveen in Hindi	Dakshin Bharat Hindi Prachar Sabha	1984	Second Class	Hindi
Nagari Lipi Parikshay	Hindi Prachar Sangh, Kanyakumari	1980	First Class	Hindi Nagari Lipi

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Post - Ph.D. Training cum Research Experience

Sl. No.	Duration		Description
	From	To	
1.	1-1-2009	30-1-2009	Underwent training cum Research on 'Creep of Geosynthetics' in the Department of Civil Engineering, I.I.T. Madras under TEQIP
2.	1-2-2009	28-2-2009	Deputed by the Institute (N.I.T., Tiruchirappalli) and under Underwent training cum Research on 'Creep of Geosynthetics' in the Department of Civil Engineering, I.I.T. Madras.

8. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Lecturer	1.Faculty / Civil Engineering/ R.E.C. Tiruchirappalli (Now N.I.T.)	2000	2005
	2.Served as Officer in Charge of Stock Verification for Estate Maintenance, Guest House, P.G. Guest House, Electrical Maintenance	2002	2003
	3. Served as Officer in Charge of Stock Verification for Architecture Department	2003	2004
	4. Served as Officer in Charge of Stock Verification for Architecture Department	2004	2005
	5. Member, Officer's Club		
	6. Staff in Charge, Cultural Committee	2002	2005
	7. Assistant Staff Advisor, Civil Engineering Association	2004	2005
	8. Staff in Charge Deputed to accompany and guide College Team for SAARANG 2002 to IIT Madras	2002	

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Senior Lecturer	1. First Year Co-ordinator for the Subject - Basics of Civil Engineering	July 2005	December 2005
	2. First Year Co-ordinator for the Subject - Engineering Graphics (July 2006-December 2006) (July 2005-December 2005)	July 2006	December 2006
	3.M.Tech. Weekly Seminars/Ph.D.- Student Seminar - Co-ordinator (2007 onwards - July 2009) (This work involves development of overall Communication skills and improvement in Academic Content, content monitoring and guidance on the topics specified and is a highly time consuming work)	2007	2009
	4. Member, Officer's Club.	2000-	
Assistant Professor (2009 to 2012)	1. Chairperson – I M.Tech. (Environmental Engineering)		
Associate Professor (2012 -2019)	1. Performance Analysis Committee – Chairperson IV Semester B.Tech. (Civil) – 2013a	January 2013	July 2013
	2. Performance Analysis Committee – Class committee M.E.(Transportation Engineering and Management)	July 2013	December 2013
	3. Performance Analysis Committee - Class Committee IV Semester, B.Tech (Civil) 2014a	January 2014	July 2014
	4. Performance Analysis Committee – Chairperson V Semester B.Tech. (Civil) – July 2014 to Dec.2014	July 2014	December 2014

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	5. Performance Analysis Committee – Chairperson VI Semester B.Tech. (Civil) – January 2015 to July 2015	January 2015	July 2015
	6. Performance Analysis Committee – Chairperson -VI Semester B.Tech.(Civil) January 2016 to July 2016	January 2016	July 2016
	7. Performance Analysis Committee – Chairperson –V Semester, B.Tech.(Civil) July 2016 to December 2016	July 2016	December 2016
	8. Department Project Evaluation Committee, M.Tech.. (Construction Technology and Management)	July 2016	December 2016
Coordinator	Weekly Research Talks by Faculty and Students	2007	2009
Class Committee Chairman	B.Tech.	2012	2016
Coordinator	Annual Women’s Day Celebration 2017	2017	
DC Member	3 Doctoral Commitees	2008	2019
DPEC member	National Institute of Technology, Tiruchirappalli.	2015	2017
Data collection for CSG Requirements of computers	National Institute of Technology, Tiruchirappalli.	2016	2017
Lab Incharge	Geotechnical Laboratory	2018	2019
Member	Campus Safety and Security Committee	2016	Till date
Professor		30 Sept 2019	Till date
Class Committee Chairperson	M.Tech. Transportation Engineering and Management	2020	2022

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9. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
D.C. Member / Ph.D. Scholar	Anna University	2016	Till date
Question Paper setting to various Universities / Supplied Questions for Question Bank of U.P.S.C.		2001	2019 at various times
Expert in the Board of Studies	Kamaraj College of Engineering and Technology- Virudhunagar	2021	2022
Expert	National Research Development Corporation -Technology Development, Validation and Commercialization (TDVC) Program (NRDC Awards 2020)	2021	2022
Revision of Codes sent to self as a stakeholder	Bureau of Indian Standards	2015	2016
D.C. Member / Ph.D. Scholar	SASTRA University	2014	Completed
Viva Voce Examinar For Mr.D.Mohan Babu	Anna University	2015	Completed

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10. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1984	National Scholarship Scheme Merit certificate, State Award	Education Department, Government of Tamilnadu
25.2.1984	Second Prize Winner, Mahakavi Bharathiyar Celebration, Competition	Information, Tourism and (Tamil) Culture Department. Government of Tamilnadu Awarded by District Collector, Kanyakumari District
1985	First Prize in Kanyakumari District in the State Level fire Services Day Competition held by the Tamilnadu Fire Service Department	Tamilnadu Fire Service Department Government of Tamilnadu As per the Govt. order issued on 11.4.1985 by Sri.C. Seetharaman, I.A.S.
1995	Thiru Meenakshi Sundaram Pillai Merit Prize, University First, M.E. (Geo-Tech.)	Annamalai University, Annamalainagar.
2004	International Geosynthetic Society Student Award. (Ph.D.- International Award)	International Geosynthetic Society.
31.05.2008	Bharat Jyoti Award	India International Friendship Society, New Delhi
2015	Certificate of Appreciation For guiding the team from N.I.T. Tiruchirappalli at ICI – IITM National Concrete Canoe Competition	Indian Concrete Institute and I.I.T. Madras
2016	Certificate of Appreciation For significant contribution in Annual Technical Volume (2015-2016) of Civil Engineering Division Board of the Institution of Engineers (India) on “Traditional Irrigation Systems in India”.	Institution of Engineers (India)

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Others		
1994	A pass in the U.P.S.C. Civil Services Examination (Preliminary) in 1994	U.P.S.C.
1983 – 1990	<p>Various prizes won in Intramural Competitions in Tennikoit, Throw-Ball, Volley Ball, Long Jump and High Jump at School Level</p> <p>Represented School and College at Inter-District Meets in Tennikoit</p> <p>Represented College in Inter-District Meet at Nagercoil–in Tennikoit</p> <p>Represented College in TIES – 89 Tamil Nadu Inter Engineering Meet at Coimbatore</p> <p>Various Prizes won in College Level competitions- in Sports (Ball Badminton, Tennikoit, Long Jump, High Jump and Javelin Throw) and in Culturals (Music, Essay Competition)</p>	
1980	Nagari Lipi Parikshay – Certificate	Hindi Prachar Sangh, Kanyakumari
1989	Represented College in Exquizit-89 Quiz Competition conducted by All India Radio, Tirunelveli and YMCA, Tirunelveli.	
1984	Rashtrabasha Praveen Certificate in Hindi	Dakshin Bharat Hindi Prachar Sabha

11. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
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12. Details of Academic Work

(i) Curriculum Development

1.	Member, Board of Studies
2.	Introduced the following New Courses 1. Simulant Materials 2. Consitutive Modeling of Geologic Materials 3. Soil-Structure Interaction 4. Marine Foundations 5. Microbial Geotechnology and Ground Improvement 6. Environmental Geotechnical Engineering 7. Geotechnical Earthquake Engineering
3.	As per the demands of the Civil Engineering students, Advanced Foundation Engineering was introduced as an Elective for the Final Semester from 2002 onwards and is still continuously offered.
4.	Course Plan Developed for the Course taught – Concrete Technology
5.	Assisted in Proof checking Syllabus, Compilation of Syllabus and Updating Syllabus
6.	Provided inputs for the preparation of the Course Material (Soil Lab.and Transportation Lab.) for Pradhan Mantri Gram Sadak Yojana Training Programmes conducted by the Department of Civil Engineering, N.I.T. Tiruchirappalli in 2005.

(ii) Courses taught at Postgraduate and Undergraduate levels

P.G.Courses

1.	Pavement Analysis and Design (M.Tech. – Transportation Engineering and Management)
2.	Environmental Geotechnical Engineering (M.Tech. – Environmental Engineering)
3.	Soil – Structure Interaction (M.Tech.) Structural Engineering (M.Tech. – Transportation Engineering and Management)
4.	Analysis of Deep Foundation (M.Tech.) Structural Engineering (M.Tech. – Transportation Engineering and Management)
5.	Microbial Geotechnology and Ground Improvement
6.	Fracture Mechanics
7.	Simulant Materials
8.	Consitutive Modeling of Soils and Geologic Materials
9.	Microbial Geotechnology and Ground Improvement
10.	Soil properties and its behaviour
11.	Geotechnical Earthquake Engineering
12.	Dynamics of Soils and Foundations
13.	Soil Exploration and Instrumentations
14.	Marine Foundations

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U.G. Courses

A. Theory Courses

15.	Basics of Civil Engineering
16.	Introduction to Civil Engineering
17.	Engineering Mechanics
18.	Mechanics of Solids and Fluids (for EEE Students)
19.	Geotechnical Engineering
20.	Concrete Technology
21.	Advanced Foundation Engineering
22.	Geotechnical Earthquake Engineering

B. Laboratory Courses

23.	Engineering Graphics
24.	Civil Lab (for Chemical Engineering Students)
25.	Geotechnical Engineering Laboratory
26.	Survey Laboratory
27.	Strength of Materials Laboratory (for Production Department)
28.	Fluid Mechanics Laboratory (Civil Engg. Students)
29.	Fluid Mechanics Laboratory (other dept.)

(iii) Projects guided at Postgraduate level

Sl. No.	Name of Student	Title of M.Tech. Thesis	M.Tech	Year
1.	S.Vijayabaskaran	A Study of the Crack Patterns in Rigid Pavement at Tiruchirappalli Airport	TEM	2002
2.	V.Durga Prasad	Stabilisation of Problematic Soils	TEM	2003
3.	V.Durga Prasad	A Study on the Engineering Properties and Improvement of Problematic Soils	TEM	2003
4.	Jemy Mathew	Coir Geotextile for Subgrade Improvement	TEM	2004
5.	N.Anjaneyulu	Studies on Fibre Reinforced Bituminous Mixes	TEM	2004
6.	N.Anjaneyulu	A Study on Effect of Pavement Unevenness on Capacity of Two Lane Roads	TEM	2005
7.	S.Pawan Kumar	Study on Bituminous Emulsions using Various Emulsifying Agents and Bituminous Emulsion Mixes	TEM	2008
8.	S.Pawan Kumar	Study on Geotechnical Properties of Silty Clay and Clayey Sand with Bioenzyme as a Stabiliser	TEM	2008
9.	Marie Gerard Cyril Perera	Seismic Analysis of Geosynthetic Reinforced Retaining Wall Using Modal Response Method	SE	2007

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10.	Marie Gerard Cyril Perera	Seismic Analysis of Geosynthetic Reinforced Retaining Wall Using Plaxis	SE	May 2008
11.	Sam Jose G.	Soil Structure Inteaction of an Integral Bridge Abutment – Phase I	SE	May 2009
12.	Sam Jose G.	Soil Structure Inteaction of an Integral Bridge Abutment in Cohesive Soils	SE	December 2009
13.	BondalaSrinivasaRao	A Study on the Strengthening of Soil Subgades Beneath Flexible Pavements by Inclusion of Fibres	TEM	December 2009
14.	Arun T.	A Study on the Behaviour of Cantilever Retaining Wall with EPS Geofoam as Engineered Fill (Phase I)	SE	2009
15.	BondalaSrinivasaRao	A Study on the Strengthening of Soil Subgrades Beneath Flexible Pavements by Inclusion of Fibres	TEM	2010
16.	B. Anil Kumar	An experimental study on the Behaviour of Fibre Reinforced Concrete (Phase I)	SE	2009
17.	Arun T.	A Study on the Behaviour of Cantilever Retaining Wall with EPS Geofoam as Engineered Fill(Phase II)	SE	2010
18.	B.Anil Kumar	An experimental study on the Behaviour of Fibre Reinforced Concrete (Phase I)	SE	2010
19.	Kumar Rameswarapu	Modelling the Response of Buried Pipelines under fault displacement	SE	2010
20.	Md. Alam Khan Faisal	Experimental Studies Using Column Setup with Flyash as Liner Material	EE	2010
21.	DudamBharath Kumar	Studies on the effect of Leachates from Ariyamangalam Dumping Site	EE	2010
22.	P.Navaneeshwar Reddy	Modelling and Prototype Studies on Prototype of a 1.25 MW Wind Turbine	SE	2010
23.	Kumar Rameswarapu	Modelling the Response of Buried Pipelines under fault displacement	SE	2011
24.	Md. Alam Khan Faisal	Experimental Studies Using Column Setup with Flyash as Liner Material	EE	2011
25.	DudamBharath Kumar	Instrumented Study on the contaminated soil under temperature and moisture control by using small scale lysimeter in the laboratory	EE	2011
26.	MethkuAnvesh Reddy	Initial Study on Soil to be Stabilised by a Polymer based Chemical Stabiliser	TEM	2011
27.	D.Saravanakumar	A Study on Geotechnical Characterisation of Lunar Simulant	SE	2011

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28.	Emmaniyelu Betapudi	Soil Stabilisation Using a Polymer Based Chemical	SE	2011
29.	MethkuAnvesh Reddy	Studies on Polymer Based Chemical Treated Clay Soil	TEM	2012
30.	D.Saravanakumar	A Study on Interference Effect of Shallow Foundations Resting on Cohesive Soil	SE	2012
31.	EmmaniyeluBetapudi	Study on the Behaviour of Steel Fibre Reinforced Concrete (Pile) in Cohesionless Soil Under Combined Loading	SE	2012
32.	Shruthy O.A.	Electrokinetic Remediation of Lead Contaminated Soil	EE	2013
33.	Vyshak R.S.	Phosphate Adsorption Characteristics of Various Soils from South India	EE	2013
34.	Sreekanth E.M.	Domestic Wastewater Treatment Using Modified Magnesium Oxide Coated Sand Filter	EE	2013
35.	Shruthy O.A.	Electrokinetic Remediation of Lead inContaminated Soil	EE	2014
36.	Vyshak R.S.	Study on Removal of Phosphate from Wastewater Using Soil and Magnetite	EE	2014
37.	Sreekanth E.M.	Domestic Wastewater Treatment Using Modified Magnesium Oxide Coated Sand Filter	EE	2014
38.	Santhosh M.B.	Study on phytoextraction and phytoremediation using a soil contaminated by zinc	EE	Dec 2014
39.	Sri Raam Pandian P.	Effect of Sugarcane Bagasse Ash(SCBA)and PET Fibre on Soft Soils	TEM	Dec.20 14
40.	Santhosh M.B.	Study on phytoextraction and phytoremediation using a soil contaminated by zinc	EE	May 2015
41.	Sri Raam Pandian P.	Effect of Sugarcane Bagasse Ash(SCBA)and PET Fibre on Soft Soils	TEM	May 2015
42.	Pallavi Anand	Integrated Approach on Planning with Design for a Typical Highway Project	CTM	Dec. 2015
43.	Amrutha Krishnan	Deflouridation of Water using Adsorption by Clay Minerals	TEM	Dec. 2015

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44.	Pallavi Anand	Integrated Approach on Planning with Design for a Typical Highway Project	CTM	May 2016
45.	Amrutha Krishnan	Deflouridation of Water using Adsorption by Clay Minerals	TEM	May 2016
46.	S.Aravind (203415009)	Electrokinetic Remediation of Copper Contaminated Soil integrated with an Adsorption Zone	EE	May 2017
47.	Akhila A Rahim(203416024)	Simulation of Vehicular Pollution in Kollam City by Using The Operational Street Pollution Model	EE	December 2017
48.	Krishna Kumar M.(203516006)	Lean Techniques For Productivity Improvement In Construction Projects	CTM	December 2017
49.	Akhila A Rahim(203416024)	Simulation of Vehicular Pollution in Kollam City by Using The Operational Street Pollution Model	EE	May 2018
50.	Krishna Kumar M.(203516006)	Assessment And Analysis of Precast Concrete Construction- A Case Study	CTM	May 2018
51.	Manisha Malik (203417008)	A Comparative Study of Barrier Properties Of Starch And Gelatin Based Nanocomposite Films Modified By Chitosa,Nanocellulose And Glycerol (Phase I)	EE	December -2018
52.	Manisha Malik (203417008)	A Comparative Study of Barrier Properties Of Starch And Gelatin Based Nanocomposite Films Modified By Chitosa,Nanocellulose And Glycerol (Phase II}	EE	May -2019
53.	Manika Moniga (203418013)	Extraction of Nanocellulose from synthesized fruit waste and its comparative characterization with commercially available cellulose	EE	December 2019
54.	Mhaisne Priyanka Bhanudas (203418014)	Acid Phosphate Inhibition Based Electrochemical Biosensor for the Detection of Pesticides	EE	December 2019
55.	Manika Moniga (203418013)	Extraction of Nanocellulose from synthesized fruit waste and its comparative characterization with commercially available cellulose	EE	May 2020

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56.	Mhaisne Priyanka Bhanudas (203418014)	Acid Phosphate Inhibition Based Electrochemical Biosensor for the Detection of Pesticides	EE	May 2020
57.	Gaurav Agarwal (203519013)	Client Delay Impact Analysis on Project Performance	CTM	December 2020
58.	Gaurav Agarwal (203519013)	Client Delay Impact Analysis on Project Performance	CTM	November 2021
59.	Ankita Mandal (203620002)	Tractive Performance of Seabed Tracked Trencher in Different Seabed Soils	GE	December 2021
60..	Kanika Joshi (203620011)	Statistical Analysis of Performance Characteristics of Soils from Bevameter Test Results	GE	December 2021
.61.	R Roshan (203620017)	Modelling of Tension Crack Propagation in Clayey Soils	GE	December 2021
62.	Roshan Ranwa (203620016)	Fine Tuned Trajectory Tracking Controllers and Terrain Trafficability on Different Type of Soils	GE	December 2021
63..	Sahil Hussain (203620019)	Traction Estimation Using Tire Ice Model	GE	December 2021
64..	Vimal Kumar (203620024)	Studies on the Thermo-Mechanical Response of Soil	GE	December 2021
65..	Paneer Selvam Jaya Solomon (203520016)	Productivity Benchmarking in Underground Metro	CTM	December 2021
66.	Ankita Mandal (203620002)	Tractive Performance of Seabed Tracked Trencher in Different Seabed Soils	GE	May 2022

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67.	Kanika Joshi (203620011)	Statistical Analysis of Performance Characteristics of Soils from Bevameter Test Results	GE	May 2022
68.	R Roshan (203620017)	Modelling of Tension Crack Propagation in Clayey Soils	GE	May 2022
69.	Roshan Ranwa (203620016)	Fine Tuned Trajectory Tracking Controllers and Terrain Trafficability on Different Type of Soils	GE	May 2022
70.	Sahil Hussain (203620019)	Traction Estimation Using Tire Ice Model	GE	May 2022
71.	Vimal Kumar (203620024)	Studies on the Thermo-Mechanical Response of Soil	GE	May 2022
72.	Paneer Selvam Jaya Solomon (203520016)	Productivity Benchmarking in Underground Metro	CTM	May 2022

(iv) Other contribution(s)

- Conducted Foundation Engineering Course for Part - time B.E. Students of Bharathidasan University.
- Conducted Soil Mechanics and Foundation Engineering (Theory) and Strength of Materials Laboratory classes for Part - time B.E. Students of Indira Gandhi National Open University (IGNOU)
- Developed Lysimeter
- One report submitted to ISRO, which was well received
- TN032 / ISRO Project Short Proposal - Shortlisted

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13. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Project No. 334/NITT/GOLCHA/CIV/SJ Study to Utilise Talc in Cement	M/s. Golcha Associates, Rajasthan	June 2016	December 2016	completed

14. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
Sugali Sreenivasulu	Development and Characterisation of TRI – 1: An Engineered Lunar Soil Simulant and Studies on Wheel Soil Interaction	Supervisor	2014 (10.12.2014)
J.S.Sankar Jegadesh	Studies on the Behaviour of Circular Concrete Filled Steel Tube Columns	Supervisor	2016 (19.10.2016)
Pala Gireesh Kumar	Stress Distribution and Trafficability Studies of Rigid Wheels on TRI-1 Lunar Soil Simulant	Supervisor	2018 (16.11.2018)
6 Nos	-	Supervisor	Ongoing

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15. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.
(mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
	Foundation Engineering Course	Local (Bharathidasar University)	Faculty	Civil Department, R.E.C., Trichy	Civil Dept., R.E.C., Trichy
	Soil Mechanics and Foundation Engineering (Theory)	National (Indira Gandhi National Open University)	Faculty	Civil Department, R.E.C., Trichy	Civil Dept., R.E.C., Trichy
	Strength of Materials Laboratory classes	National (Indira Gandhi National Open University)	Faculty	Civil Department, R.E.C., Trichy	Civil Dept., R.E.C., Trichy
2005	Preparation of the Course Material (Soil Lab. and Transportation Lab.) for PradhanMantri Gram SadakYojana Training Programmes	Local	Provided Inputs	Civil Department, R.E.C., Trichy	Civil Dept., R.E.C., Trichy
November 11, 2000	Current Trends in Environment Geotechniques	Local	Participant	IGS Chennai Chapter	Anna University
November 11, 2000	Modelling of geosynthetics at Current Trends in Environment Geotechniques	Local	Speaker	IGS Chennai Chapter	Anna University

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February 25-26,2006.	International Seminar on Earthquake Engineering	International	Participant	SASTRA Deemed University	Thanjavur
31-5-2008	Seminar on Economic Growth and National Integration	National	Participant, Invitee for Bharat Jyoti Award	New Delhi	New Delhi
26 July, 2008	Seminar on Segmental Precast Driven Piles	Local	Participant	Indian Geotechnical Society, Chennai Chapter	IIT Madras
1-1-2009 to 30-1-2009	Training and Research work – Creep of Geosynthetics’	Local / Deputed by TEQIP	Researcher and Trainee (post-doctoral experience)	Department of Civil Engineering, I.I.T. Madras	I.I.T. Madras, Chennai
1-2-2009 to 28-2-2009.	Training and Research work – Creep of Geosynthetics’	Local / Deputed by Institute	Researcher and Trainee (post-doctoral experience)	Department of Civil Engineering, I.I.T. Madras	I.I.T. Madras, Chennai
10th August 2009 to 14th August 2009.	Short Term Training Programme on Role of Geosynthetics in Civil Infrastructure Geoenvironmental Protection Projects	National	Participant	Sponsored by AICTE New Delhi organized by the Department of Civil Engineering, I.I.T., Madras	I.I.T. Madras, Chennai
7th September 2009.	Regional Seminar on "Intellectual Property and Innovation Management in Knowledge Era"	National	Participant	N.I.T., Tiruchirappalli and National Research Development Corporation	Hotel Femina, Trichy
2-5 May 2010	National Earthquake Engineering Program under Continuing Education Programme	National	Delivered Keynote Address	N.I.T., Raipur	N.I.T., Raipur
14th February 2014	Creep of Geosynthetics and Infrastructure Development	Local	Delivered Keynote Address	N.I.T. Tiruchirappalli under the aegis of Indian Geotechnical Society (Tiruchirappalli Chapter)	N.I.T. Tiruchirappalli

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26th September 2014	One Day Seminar Programme on Basics of Geotechnical Earthquake Engineering	Local	Delivered Keynote Address and served as Resource Person	Kongunadu College of Engineering and Technology	Thottiam, Namakkal
December 26 - 29, 2000	45th ISTAM International Congress	International	Participant, paper presenter	Mepco Schlenk Engineering College, Sivakasi	Sivakasi
June 21 – 23, 2004	workshops conducted in GEOASIA 2004, Third Asian Regional Conference on Geosynthetics	International	Participant, Awardee	Seoul, Korea	Seoul
August 3-5, 2006	Tenth East Asia Pacific Conference on Structural Engineering and Construction	International	Attended and presented paper	A.I.T, Bangkok,	Bangkok, Thailand
17.07.2010	Regional Awareness Conference on IWWA – Chennai Water Convention – 2011	Local	Participant	IWWA	Tiruchirappalli
18th to 20th October 2010	Conference cum Workshop CISTUP@CiSTUP 2010	International	Paper presenter, Participant	IISc, Bangalore	Bangalore
6th to 8th January 2011	Workshop cum International Conference on Trends in Industrial Measurements and Automation, TIMA – 2011	International	Paper presenter, Participant	CSIR	Vigyan Auditorium, CSIR Complex, Taramani, Chennai
21.8.2014 to 22.8.2014	International Conference on Inter Disciplinary Research in Engineering and Technology	International	Participated and Presented	Professional College of Engineerin, Palladam, Tirupur	Tirupur

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December 15-17, 2004	National Conference on Climate change and its impact on Water Resources in India,	National	Participated in the deliberations for framing policy recommendations submitted to the Central Government	Madurai Kamaraj University	Madurai Kamaraj University, Madurai
March 5, 2005	Short term course on Ground Improvement Techniques	National	Participant	V.I.T., Vellore	V.I.T., Vellore
June 13 - 17,2005	One Week Short Term National Programme on Earthquake Engineering Education (NPEEE on Soil Dynamics and Earthquake Engineering (SDEE 2005)	National	Participant	IIT Madras, Chennai	IIT Madras, Chennai
March 20 - 24, 2006	Short Term Course, National Programme on Earthquake Engineering Education (NPEEE), FESA 2006	National	Participant	IIT Madras, Chennai	IIT Madras, Chennai
July 17 – 21, 2006	Short term Course on Geosynthetics and their Applications in Infrastructure Projects	National	Participant	IIT Madras Chennai	IIT Madras Chennai
February 19 – 23, 2007	Short term (QIP) Course on Recent Advancements in Environmental Engineering	National	Participant	Dept. of Civil Engineering	N.I.T., Tiruchirappalli

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June 12-16, 2012	one-week short term course on Self-Awareness and Higher Goals in Education (SAHGE 2012) conducted by Centre for Continuing Education,	National	Participant	I.I.T., Madras	I.I.T., Madras
5th – 6th October 2012	Two-days Faculty Orientation Programme on – Class room Management and Communication	Local	Participant	N.I.T., Tiruchirappalli	Hotel Sangam, Thanjavur
4th to 9th February 2013	QIP Short term Course on Numerical and Experimental Modeling in Geotechnical Engineering,	National	Participant	conducted by the Department of Civil Engineering, I.I.T., Kanpur.	I.I.T., Kanpur.
8th to 12th July 2013	One-week Short term Course on Seismic Design of Reinforced Concrete Buildings,	National	Participant	Dr.B.R.Ambedkar National Institute of Technology, Jalandhar - 144011, Punjab under the aegis of TEQIP-II	N.I.T., Jalandhar
10th October, 2014	One Day Course on Microscopic Techniques in Material Characterisation	National	Participant	organized by Department of Materials and Materials Engineering, National Institute of Technology, Tiruchirappalli	N.I.T. Tiruchirappalli
14th October, 2014	One Day Course on Structural Characterisation,	National	Participant	Organized by Department of Materials and Materials Engineering, National Institute of Technology, Tiruchirappalli	N.I.T., Tiruchirappalli

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May 3, 2005	National Workshop on Geosynthetics in Infrastructure Projects	National	Participant	IIT, Madras, Chennai	IIT, Madras, Chennai
June 3, 2005	GEOPREDICT 2005, National Symposium on Prediction Methods in Geotechnical Engineering	National	Participant	IIT, Madras, Chennai	IIT, Madras, Chennai
October 22 - October 23, 2005	Workshop on Seismic Analysis and Structural Design, SESTRAD 2006	National	Participant	Department of Civil Engineering, N.I.T., Tiruchirappalli	Department of Civil Engineering, N.I.T., Tiruchirappalli
February 19, 2006	Workshop on Concrete Mix Design (CONMIDE - 2006),	National	Participant	Department of Civil Engineering, N.I.T., Tiruchirappalli	Department of Civil Engineering, N.I.T., Tiruchirappalli
1stand 2nd February 2007	Finite Element Methods for Engineers (under TEQIP)	Local	Participant	Dept. of Civil Engg., N.I.T., Tiruchirappalli	Dept. of Civil Engg., N.I.T., Tiruchirappalli
, February 26 – 27, 2007	Testing of Construction Materials	Local	Participant	N.I.T., Tiruchirappalli	N.I.T., Tiruchirappalli
February 28, 2008	Workshop on Nanomaterials Characterisation and their Process Applications	National	Participant	Dept. of Chemical Engineering, N.I.T. Tiruchirappalli	Dept. of Chemical Engineering, N.I.T. Tiruchirappalli
29th April, 2009.	One day National Workshop on Patent Information	National	Participant	Patent Cell, Bharathidasan University, Tiruchirappalli, National Institute of Technology Tiruchirappalli and Tamil Nadu State Council for Science and Technology	Tiruchirappalli

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23.1.2014 to 24.1.2014	Workshop on Innovation, Sustainability, Solutions, Adoption, Implementation in Energy Environment Ecosystem and Human Life	National	Participant	National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
17th October 2014	One Day Workshop on Prediction, Prevention and Post Analysis of Engineering Failures	National	Participant	Society for Failure Analysis, Tiruchirappalli Chapter in association with National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli
26 July, 2008.	Attended International Workshop on Horizontal Directional Drilling	International	Participant	Indian Geotechnical Society, Chennai Chapter at IIT, Madras in association with Digital Control Incorporated, Vermeer Manufacturing and ISTT, The International Society for Trenchless Technology	IIT, Madras
January 2008	12 day yoga program	Local	Participant	Isha Yoga Foundation, Coimbatore	NIT Trichy
2013	National Conference on New Trends in Civil Engineering and Earth Sciences NTCE 2013	National	Participant	Vasavi Engineering College Hyderabad	Vasavi Engineering College Hyderabad
2015	Proceedings of The International Conference On Advances In Civil Engineering, Materials And Processes ICACEMAP 2015	International	Participant	Department of Civil Engineering	CIT Coimbatore

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2015	Second International Conference on Earth Sciences And Engineering ICEE 2015	International	Participant (Best paper Award)	Department of Civil Engineering	Nehru Institute of Technology, Coimbatore
2015	International Conference On Engineering Technology And Sciences ICETS 2015	International	participant	Department of Civil Engineering Muthayammal College of Engineering	Muthayammal College of Engineering Rasipuram
2015	International Conference of Innovative Trends in Mechanical, Material, Manufacturing Automobile and Aeronautical Engineering	International	participant	Department of Civil Engineering Bapatla Engineering College	Bapatla Engineering College GUNTUR
2015	International Conference on Technological Convergence for Information, Health, Food and Energy Security TCIFES 2015	International	participant	CSIR	CLRI Chennai
2017	Proceedings of International Conference on Frontiers in Engineering, Applied Science and Technology FEAST 2017	International	participant	NIT Tiruchirappalli	NIT Tiruchirappalli
2018	Proceedings of International Conference on Frontiers in Engineering, Applied Science and Technology FEAST 2018	International	participant	NIT Tiruchirappalli	NIT Tiruchirappalli

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16. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Conducted AIGEE – 2014 Advances in Geotechnical Earthquake Engineering under TEQIP II	National	January 8th to 9th 2014	Co-ordinator	Department of Civil Engineering, N.I.T., Tiruchirappalli
Geotechnical Engineering for the Civil Engineering students of NIT, Tiruchirappalli under TEQIP Tribal Development Plan	Local	November 13,2007	organizer	N.I.T., Tiruchirappalli
Art of Living Yoga Classes	Local	17.08.2015-23.08.2015	Faculty Co-ordinator	N.I.T., Tiruchirappalli
International Conference on Architecture and Civil Engineering (ACE 2015)	International	13.04.2015-14.04.2015	Program committee	Hotel Fort Canning, Singapore
Short term Course on Subsurface Investigation for Pavements and Buildings (SIPB)	National	10.03.2016-12.03.2016	Co-Ordinator	Department of Civil Engineering, N.I.T., Tiruchirappalli
FEAST 2018	International	27.04.2018 - 28.04.2018	Track Chair/Civil Engg.	National Institute of Technology Tiruchirappalli
FEAST 2017	International	31.03.2017 - 01.04.2017	Track Chair/Civil Engg.	National Institute of Technology Tiruchirappalli
Online Workshop on Intellectual Property and Rights	National	26-07-2022	Co-ordinator	National Institute of Technology Tiruchirappalli

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17. Invited Talks delivered

Topic	Date	Inviting Organization
Delivered Keynote Address and served as Resource Person deputed to the one Day Seminar Programme on Basics of Geotechnical Earthquake Engineering	26th September, 2014	Kongunadu College of Engineering and Technology at Thottiam, Namakkal
Delivered Keynote Address on Creep of Geosynthetics and Infrastructure Development	14th February, 2014.	N.I.T. Tiruchirappalli under the aegis of Indian Geotechnical Society, Tiruchirappalli Chapter
Delivered Keynote Address on the Earthquake Engineering Program under Continuing Education Programme	2-5 May, 2010	N.I.T., Raipur
Delivered Keynote Address on Recent Advances in Civil Engineering and Geosynthetics	March, 2010	K.L.N. College of Engineering, Pottapalayam, Madurai
Delivered Keynote Address on Recent Advances in Civil Engineering and Geosynthetics	24th March 2011	P.S.N.A., Dindigul
ISRO Respond Exploratory Cluster Program – deputed to represent the proposals of NIT, Tiruchirappalli	08.09.2016	V.I.T., Vellore
Resource person for invited lecture for STTP on Soft Computing in Civil Engineering Techniques	14.11.2016	Kamaraj College of Engineering and Technology, Virudhunagar

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Resource person for invited lecture for two days UGC National Seminar on Gender and Social Barriers of Women Scientists and Technocrats Strategies and Concern	2017	Bharathidasan University, Tiruchirappalli
Delivered Keynote address in Sustainable Construction technology and Advancements in Civil Engineering in collaboration with Indian Concrete Institute - Student Chapter	10/10/2020	Shri Vishnu Engineering college for women (autonomous), Bhimavaram, Andhra Pradesh
Resource person in Four Days Online FDP on Recent Trends in Computational Intelligence and Analytics (17th to 20th January 2022)	17/01/2022	Department of Master of Computer Applications, RV College of Engineering (An Autonomous Institution Affiliated to Visveswaraya Technological University), Belagavi(Approved by AICTE, New Delhi)
Student Research Conclave 2021 Indian Concrete Institute - Student Chapter	17/02/2022	Shri Vishnu Engineering college for women (autonomous), Bhimavaram, Andhra Pradesh 17/02/2022
Sustainability and Geosynthetics	National Seminar on Applications of Geosynthetics and Natural Fibers in Infrastructure Development 24 June 2022, ICSR Hall-3, Indian Institute of Technology Madras, Chennai	IIT Madras

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18. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Geotechnical Society	LM-3647
Life Member	Indian Geotechnical Society - Chennai Chapter	LM-233
Life Member	Indian Society for Technical Education	LM 44509
Member	Institution of Engineers (India)	M 1395550

19. Academic Foreign Visits

Country	Duration of Visit	Programme
KOREA	June 21 – 23, 2004 (3 days)	GEOASIA 2004, Korea Receiving International Geosynthetic Student Award, Participation and Presentation of Paper
THAILAND	August 3-5, 2006 (3 days)	EASEC 2010 International Conference Paper Presentation

20. Publications

(A) Refereed Research Journals:

	Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
1	S.Jayalekshmi and K.Rajagopal	Modelling of Geosynthetics using True Findley and Onaran and Findley Models	International Journal of Geotechnical Engineering Print ISSN: 1938-6362 Online ISSN: 1939-7879 (scopus)	Volume 03 Issue 03	405-415	July 2009	DOI: 10.3328/IJGE. 2009.03.03.40 5-415 Online: 04 Sep 2013 http://dx.doi.org/10.3328/IJGE.2009.03.03.405-415

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2	S.Jayalekshmi and K.Rajagopal	Failure Surcharge pressures and FE Analyses of a reinforced retaining wall	International Journal of Earth Sciences and Engineering ISSN 0974 – 5904 (scopus)	Volume 02 Number 04	376-383	August 2009	https://www.yumpu.com/en/document/view/38542921/02020412-cafet-innova/7
3	S.Sreenivasulu, S.Jayalekshmi, R.Jayasankar	Effect of Thickness and Addition of Fly Ash and Rice Husk Ash on Temperature Differential and Warping Stresses in Rigid Pavements	International Journal of Engineering Studies. Online ISSN: Print ISSN: 0975- 6469 (scopus)	Volume 4, 2	97-112	2012	http://www.is-scholar.in/index.php/index/search/authors/view?firstName=S.&middleName=&lastName=Sreenivasulu
4	S.Jayalekshmi, Sugali Sreenivasulu and D.Saravanakumar	Development of New Lunar Simulant from Terrestrial Soil – A Comparative Study	IRACST – Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498,	Vol.2, No.6	993-997	2012	http://www.estij.org/vol2no6.htm www.estij.org/papers/vol2no62012/7vol2no6.pdf 0.356 (2012) 0.654 (2016)
5	SJayalekshmi and Methku Anvesh Reddy	Studies on Polymer Based Chemical Treated Clay Soil	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181	Vol. 1 Issue 10	1-3	Dec. 2012	https://www.ijert.org/for-authors/ijert-statistics-impact-factor 1.76(2012 - 2013) 2.70(2013-2014) Cross Ref DOI Prefix : 10.17577
6	Sugali Sreenivasulu and S.Jayalekshmi	Characterization and Shear Investigations on a Lunar Soil Simulant	International Journal of Earth Science Engineering ISSN 0974-5904(scopus)	Volume 06, No. 01 (01)	1992-1999	Feb. 2013	0.18 (2013) Source: https://www.researchgate.net/journal/0974-5904_International_Journal_

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							of_Earth_Sciences_and_Engineering
7	Sruthy O.A. and Dr.S.Jayalekshmi	Electrokinetic Remediation of Heavy Metal Contaminated soil	International Journal of Structural and Civil Engineering Research ISSN 2319-6009.	Vol. 3, No. 1,	103-111	February 2014	http://www.ijscer.com/uploadfile/2015/0429/20150429083822925.pdf
8	Saurabh Kumar Singh, Vijay Pal Sagar, Ranjeet Kumar, Sena Anvesh Kumar and S.Jayalekshmi	A Review On Effect Of Mineral Admixture On Self Compacting Concrete	International Journal of Civil Engineering (IJCE) ISSN(P): 2278-9987; ISSN(E): 2278-9995	Vol. 3, Issue 3	79-90	May 2014	aset.us/.../Call forPapers-1394689794-Effect%20of%20mineral%20admi https://www.scribd.com/document/220900779/7-Civil-IJCE-A-Impact Factor (JCC) 2.6676 Index Copernicus Value(ICV) = 3
9	Sudeep Sapkota Madhukar Dhingra and S. Jayalekshmi	Review On Soil Stabilization Techniques	International Journal of Civil Engineering (IJCE) ISSN(P): 2278-9987; ISSN(E): 2278-9995	Vol. 3, Issue 3	63-78	2014	Impact Factor (JCC) 2.6676 Index Copernicus Value(ICV) = 3
10	Sankar Jegadesh J S and S Jayalekshmi	Study On Properties Of Concrete With Colour Adsorbed Fly Ash, Rice Husk Ash, Steel Slag And	International Journal of Civil Engineering (IJCE) ISSN(P): 2278-9987; ISSN(E): 2278-9995	Vol. 3, Issue 3	9-18	May 2014	Impact Factor (JCC) 2.6676 Index Copernicus Value(ICV) = 3

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		Polypropylene Fibres					
11	Sugali Sreenivasulu and S Jayalekshmi	Terramechanics on Lunar Soil Simulants: A Review	International Journal of Structural and Civil Engineering Research ISSN 2319-6009.	Volume 3, Issue 2,	pp.92-103	May 2014	
12	Vyshak R S and S Jayalekshmi	Soil - An Adsorbent for Purification of Phosphate Contaminated Water	International Journal of Structural and Civil Engineering Research ISSN 2319-6009	Volume 3, Issue 2	65-77	May 2014	
13	Sankar Jegadesh J S and S. Jayalekshmi	Advancements in Concrete Filled Steel Tubular (CFST) Columns - A Review	International Journal of Structural and Civil Engineering Research ISSN 2319-6009	Volume 3, Issue 2, May 2014	57-64	May 2014	
14	S.Jayalekshmi, and SankarJegadesh J.S	A Review On Investigations Of Concrete Filled Steel Tubular Columns,	International Journal of Earth Science Engineering.	Volume8, Issue 3,	1372-1378	2015	scopus
15	Pala Gireesh Kumar and S.Jayalekshmi, International Conference ., ISSN: 2350 – 0077 ;	A Review on Travelling Performance of Planetary Rovers	Journal of Basic and Applied Engineering Research Online : ISSN: 2350 – 0255, ..	Vol. 2, No.9,	710 – 714	April – June Issue, 2015	
16	P.Chandrasekaran, S.Jayalekshmi, and SankarJegadesh J.S.,	Behaviour Of Colour Adsorbed Fly Ash With Polypropylene Fibers	International Journal of Earth Science Engineering.	Volume 8, Issue 3	1372-1378	2015	scopus

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17	Sankar Jegadesh J.S. and S.Jayalekshmi, "A"	Study on Design Principles of Concentricall y Loaded Circular Concrete Filled Steel Tubular Columns	International Journal of Applied Engineering Research	Volume2, Issue62	400-407	2015	
18	Sankar Jegadesh J.S. and S.Jayalekshmi, "	State of the Art on Design Standards of Concrete Filled Steel Tubular Columns"	International Journal of Applied Engineering Research	Special Issue, Volume 10, No.9	6537-6542	2015	scopus
19	Sankar Jegadesh J.S. and S.Jayalekshmi, ""	Application of Artificial Neural Network for Calculation of Axial Capacity of Circular Concrete Filled Steel Tubular Columns	International Journal of Earth Science and Engineering, (ISSN 0974-5904,)	Volume 8, Issue 2	35-42	2015	Scopus Journal Rating-0.15 & CSIR-NISCAIR, INDIA IF-0.13
20	Sankar Jegadesh J.S., P.Chandrasekaran, S.Jayalekshmi "	Behaviour of Colour adsorbed flyash RCC beams with fibres".	Proceedings of Institution of Civil Engineers: Construction Materials, ICE , London	Volume 169, Issue 6	285 - 292	2016	scopus
21	Sankar Jegadesh J.S. and S.Jayalekshmi	A Review on Artificial Neural Network Concepts in Structural Engineering Applications	International Journal on Applications in Civil and Environmental Engineering, ISSN(online): 2395-3837	Vol.1, Issue 4, April	6-11	2015	

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22	Sankar Jegadesh J S and S Jayalekshmi	Finite Element Analysis and Codal Recommendations of Concrete Filled Steel Tubular Columns,	International Journal of Institution of Engineers (India) Series A ISSN 2250-2149,	Vol. 97, No. 1	33-41	2016	Scopus DOI 10.1007/s40030-016-0144-4.
23	Sankar Jegadesh J S and S Jayalekshmi	Load Bearing Capacity of Axially Loaded Circular Concrete Filled Steel Tubular Columns	Proceedings of Institution of Civil Engineers London Structures and Buildings, ICE London	Volume 169 Issue 7	508 to 523	2015	SCI
24	Sankar Jegadesh J S and S Jayalekshmi	Using fibres and Fly ash in Concrete Filled Steel Tube Columns	Proceedings of Institution of Civil Engineers London Structures and Buildings	Volume 169, Issue 10	741-755	2016	SCI
25	Pala Gireesh Kumar and S.Jayalekshmi	Modified Model for Shear Stress Distribu_on using TRI 1 Lunar Soil Simulant	Journal of Theore_cal and Applied Mechanics	Volume 56 Issue 1	137 to 146	2018	SCI
26	Pala Gireesh Kumar and S.Jayalekshmi	Studies on the Sinkages of Rigid Plain Wheels and Lugged Wheels on TRI 1 Lunar Soil Simulant	Journal of Terramechanics	Volume 82	35-42	2019	SCI

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27	Pala Gireesh Kumar and S.Jayalekshmi	Study on Wheel Sinkage and Rolling Resistance with Variations in wheel geometry for plain and lugged wheels on TRI 1 Soil Simulant	IOP Conference Series Materials Science and Engineering	Volume 330	1-3	2018	Scopus
28	S.Jayalekshmi , J. S. Sankar Jegadesh, Abhishek Goel	Empirical Approach for determining Axial Strength of Circular Concrete Filled Steel Tubular Columns	Journal of the Institution of Engineers (India) Series A	Volume 99 Issue 2	257 to 268	2016	Scopus
29	Pala Gireesh Kumar and S.Jayalekshmi	Study on mobility of planetary rovers - A review	International Journal of Innovative Research in Technology, Science and Engineering ISSN 2395-5619	Volume 2 Issue 6	84-90	2016	7.089
30	Pala Gireesh Kumar and S.Jayalekshmi	Study on Slip Ratio, Drawbar Pull And Stress Distribution Models Of Planetary Rovers- A Review	International Journal of Engineering Sciences & Management Research	Volume 4 Issue 4	24-30	2017	ISSN 2349-6193 Impact Factor: 2.805
31	Pala Gireesh Kumar and S.Jayalekshmi	Study of mobility performance parameters of Planetary Rovers - A Review	International Journal of Engineering Science, Advanced Computing and Bio-Technology	Volume 9 Issue 1,	33-45	2018	

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32	R. Deepha, S. Jayalekshmi, K. Jagadeesan	Nonlinear analysis of castellated ISMB150 – I beam with hexagonal openings – A finite element approach	Materials Today: Proceedings	Volume 27 Part 3	A8-A16	2020	Scopus
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(B) Conferences/Workshops/Symposia Proceedings

	Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
33	Jayalekshmi S.	Recent Trends in Analytical and Design Tools	U.G.C. Sponsored National Seminar on Innovations in Construction Engineering and Practice, ICEP-96,	205-223	Innovations in Construction Engineering and Practice	Annamalai University, Annamalain agar	January 24-25, 1996
34	Rajagopal K. and Jayalekshmi S.	Finite Element Evaluation of the Behaviour of Reinforced Retaining Wall	Indian Geotechnical Conference, Calcutta	151 – 154	Indian Geotechnical Conference	Calcutta	2000
35	Jayalekshmi (2000)	Modeling the mechanical Behavior of Polymers	Proceedings of One Day Seminar on Current Trends in Environmental Geotechniques		Indian Geotechnical Society, Chennai Chapter	Chennai	November 11, 2000
36	Jayalekshmi S. and Rajagopal K. (2005)	Modeling the Behaviour of Geosynthetics	International - Conference on Advances in Textile Materials Technology ATMT 2005	421-424	Department of Textile and Fashion Technology, KCT, Coimbatore	KCT, Coimbatore	July 8-12, 2005

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37	Jayalekshmi S. and N.Anjaneyulu	Study on the effect of Glass Fibre on the Stability of Bituminous Mixes	EASEC-10, Tenth East Asian Regional Conference on Structural and Engineering Construction	323 – 328	EASEC-10, Tenth East Asian Regional Conference on Structural and Engineering Construction	Bangkok, Thailand	August 2006
38	Jayalekshmi S. and V.Durga Prasad	Lime stabilization of Problematic Soils in Thanjavur and Nagappattinam Districts	Indian Geotechnical Conference	291-292	Indian Geotechnical Conference, IIT, Madras	Chennai	December 14-17, 2006
38	Jayalekshmi S., Samidurai V. and Harish Paravastu	Ground Improvement using Stone Columns for Infrastructural Development	CISTUP @ CiSTUP 2010		CISTUP @ CiSTUP 2010 International Conference	Indian Institute of Science, Bangalore	18th – 20th October 2010
39	SrinivasaRao B. and Jayalekshmi	Fibre reinforcement of soil subgrade beneath flexible pavements”	Proceedings of Indian Geotechnical Conference, Geotrendz,	575-578	Proceedings of Indian Geotechnical Conference	I.I.T., Bombay,	December 16-18, 2010.
40	Jayalekshmi S.	Automated Measurement of Creep Behaviour of Geosynthetics used in Civil Engineering Applications using Linear Variable Differential Transducers	Proceedings of Trends in Industrial Measurements and Automation – TIMA 2011		Trends in Industrial Measurements and Automation	Vigyan Auditorium, CSIR Complex, Taramani, Chennai	January 6 – 8, 2011

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41	Sugali.Sreenivasulu. and S.Jayalekshmi	Characterisation and Shear investigation on a Lunar soil Simulant	National conference on “New trends in Civil engineering & Earth Sciences (NTCE-2013)	page No.364	New trends in Civil engineering & Earth Sciences	Madurai Kamaraj University, Madurai.	2013 5-6 February
42	SankarJegadesh J.S. and S. Jayalekshmi	Theoretical Investigations on Design Approaches of Concrete Filled Steel Tubular Columns	Proceedings - International Conference on Inter Disciplinary Research in Engineering and Technology	122-125		Professional College of Engineering , Palladam, Tirupur	21.8.2014 to 22.8.2014 2014
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