



1. Name : **Dr. Jayamohan. J**
2. Designation : Professor
3. Official address : Department of Civil Engineering
LBS Institute of Technology for Women
Thiruvananthapuram
4. Field of specialization : Geotechnical Engineering
5. Date of birth : 22-03-1970

Academic Qualifications

Degree	University/ Institute	Year	%Marks/ Class	Subject of Specialization
PhD	NITK Surathkal	2014		Geotechnical Engineering
M.Tech	Mangalore University (KREC Surathkal)	1996	First Class with Distinction	Geotechnical Engineering
B.E	Mangalore University	1992	First Class	Civil Engineering

Administrative Positions Held

- **Principal (in charge)** from June 2016 to October 2019, January 2020 till date
- **Head of Department** of Civil Engineering from June 2009 onwards
- **Dean (General Administration)** from November 2019 to January 2020
- **Dean (R&C)** from June 2014 to June 2016

Experience

Nature of work	Name of institution / industry	Post held	Period
Construction Work	ARTECH Group	Site Engineer	1-1-1993 to 15-11-1993
	Kerala State Electricity Board	Graduate Apprentice	17-11-1993 to 30-07-1994
	RELCON Foundations Pvt. Ltd	Site Engineer	09-04-1996 to 17-10-1996
	L.G Foundations Pvt. Ltd	Site Engineer	21-10-1996 to 20-02-1998
Teaching	Karunya Institute of Technology, Coimbatore	Lecturer in Civil Engineering	08-06-1998 to 15-09-2000
	LBS Engineering Colleges at Kasaragod & Thiruvananthapuram	Assistant Professor in Civil Engineering	20-09-2000 to 15-12-2010
	LBS Institute of Technology for Women, Thiruvananthapuram	Associate Professor in Civil Engineering	16-12-2010 to 20-05-2015
	LBS Institute of Technology for Women, Thiruvananthapuram	Professor in Civil Engineering	21-05-2015 to till date
Administration	LBS Institute of Technology for Women, Thiruvananthapuram	Head of Department of Civil Engineering	05-06-2012 to 21-06-2016
		Principal in Charge	22-06-2016 to till date

Conferences organized:

Sl No	Title/Topic	Year & duration	sponsors
1.	National Conference on Geotechnical Engineering and Modelling <i>GEM-2016</i>	2016 2 days	TEQIP
2	International Conference on Geotechniques for Infrastructure Projects <i>GIP-2017</i>	2017 2 days	TEQIP
3	International Conference on Geotechnics for High Speed Corridors <i>GHC-2019</i>	2019 2 days	AICTE
4	National Conference on “Geotechnics and Concrete Structures” <i>GeoCon-2020</i>	2020, 2 days	TEQIP
5	International Conference on Transportation Geotechnics – <i>GeoTrans 2022</i>	2022, 3 days	TEQIP

Symposium/ Workshops organized:

Sl No	Title/Topic	Year & duration	sponsors
1	Workshop on Designing with Geosynthetics	2013 1day	TEQIP
2	Workshop on Computational Geosynthetics and Soil Dynamics	2014, 2 days	TEQIP
3	Workshop on Advances in Geotechnical and Transportation Engineering	2014, 2 days	TEQIP
4	Symposium on Laterites and Lateritic Soils , by the Technical Committee TC 107 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)	2018 One day	TEQIP
5	TS Ramanatha Iyer Annual Lecture of Indian Geotechnical Society- Thiruvananthapuram Chapter	2018 One day	TEQIP
6	Symposium on Transportation Geotechnics , by the Technical Committee TC 202 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)	2019 One day	AICTE
7	Symposium on Laterites and other Tropical Soils , by the Technical Committee TC 107 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)	2020 One day	TEQIP
8	TK Gopalakrishnan Nair Annual Lecture of Indian Geotechnical Society- Student Chapter	2021 One day	TEQIP
9	TS Ramanatha Iyer Annual Lecture of Indian Geotechnical Society- Thiruvananthapuram Chapter	2021 One day	TEQIP

Workshops Attended

Sl. no:	Name of course	Organising Institution	From	To	No: of Days
1	Recent Trends in Structural Dynamics	Karunya Institute of Technology, Coimbatore	15-11-1999	28-11-1999	14
2	Geotechnical Investigations for Infrastructure Projects	College of Engineering, Thiruvananthapuram	13-06-2007	15-06-2007	3
3	Recent Advances in Flexible Pavement Engineering	Indian Institute of Technology, Madras	16-07-2007	21-07-2007	6
4	Seismic Soil-Structure Interaction	College of Engineering, Thiruvananthapuram	11-05-2009	15-05-2009	5
5	Total Station Surveying and Other Advanced Surveying Techniques	National Institute of Technology, Calicut	18-05-2009	29-05-2009	12

6	Creative Approaches in Teaching	College of Engineering, Thiruvananthapuram	06-12-2006	9-12-2006	4
7	Recent Advances in the Use of Geosynthetics in Transportation and Geotechnical Engineering	College of Engineering, Thiruvananthapuram	30-11-2011	13-12-2011	14

No. of Research Projects completed/ongoing as Principal Investigator:

Sl. No.	Name of the Funding Agency	Name of the Scheme	Project Title	Year of Funding	Duration	Amount Sanctioned	Status Complete d/ Ongoing
1	SERB, Government of India	Core Research Grant	Laser Speckle Interferometry based analysis of Embankments on Soft Soil Reinforced with Encapsulated Prestressed Geosynthetic	2022	3 years	49,77,741	Ongoing
2	Govt. of Kerala	CERD	Behaviour of Prestressed Reinforced Granular Beds Overlying Weak Soil	2014	2 years	200000	Completed
3	TEQIP	Research Seed Money	Effect of Underground Void on the Behaviour of Reinforced Granular Beds Overlying Weak Soil	2013	2 years	200000	Completed
4	TEQIP	Research Seed Money	Study of Pressure Distribution at the interface between Reinforced Granular Bed and underlying Weak Soil	2014	2 years	200000	Completed
5	TEQIP	Research Seed Money	Study of Geogrid Reinforced Granular Beds Overlying Weak Soil with Voids	2015	2 years	200000	Completed

Journal publications

Sl.no	Author(s)	Title	Name of Journal	Volume	Page	Year
1	R. Shivashankar and J. Jayamohan	Behaviour of Prestressed Reinforced Foundation Beds overlying Weak Soil	Ground Improvement and Geosynthetics (ASCE)	doi: 10.1061/9780784413401.039	389-403	2014
2	Ramaiah Shivashankar and Jayamohan Jayaraj	Effects of prestressing the reinforcement on the behaviour of reinforced granular beds overlying weak soil	Geotextiles and Geomembranes (Elsevier)	Vol 42, Issue 1	69-75	2014

3	Ramiah Shivashankar and Jayamohan Jayaraj.	Behaviour of Prestressed Geosynthetic Reinforced granular beds overlying weak soil	Indian Geotechnical Journal (Springer)	Vol 44, Issue-1	26-38	2014
4	R. Shivashankar and J. Jayamohan	Studies on Effects of prestressing the reinforcement on the behaviour of reinforced granular beds overlying weak soil	Indian Journal of Geosynthetics and Ground Improvement	Vol.2, No.2	3-13	2013
5	R. Shivashankar, J. Jayamohan and K. Srinath Shetty	Improving bearing capacity of footings on weak and soft soils	International Journal of Earth Sciences and Engineering	Volume 06 No. 06(01)	1694-1699	2013
6	Jayamohan,J and Shivashankar.R	Some Studies on Prestressed Reinforced Granular Beds Overlying Weak Soil	ISRN Journal of Civil Engineering	Volume 2012	Article id 436327	2012
7	Archana, Rugmini, Aarathi, Anciya and Jayamohan	Finite Element Analysis of Clay Reinforced with Geogrid encapsulated in thin layers of Sand	Indian Journal of Geosynthetics and Ground Improvement	Vol 5, No.2	16-21	2016
8	J Jayamohan, Thasneem Shajahan and Aswathy Sasikumar	Effect of Underground Void on the Internal Stress Distribution in Soil	Ground Improvement Techniques and Geosynthetics (Springer)	doi.org/10.1007/978-981-13-0559-7_6	45 - 56	2019
9	J. Jayamohan, S. Aparna and Aswathy Sasikumar	Influence of Properties of Infill Material on the Behaviour of Geocells	Ground Improvement Techniques and Geosynthetics (Springer)	https://doi.org/10.1007/978-981-13-0559-7_7	57-66	2019
10	Jayamohan J, Aiswarya Shaji, Soorya SR and Baln K	Additional settlement of footing due to loads acting on adjacent foundation	Geotechnics for Sustainable Infrastructure Development (Springer)	doi.org/10.1007/978-981-15-2184-3_149	1143 - 1149	2020
11	J. Jayamohan, P. Sajith, Shilpa Vijayan, Anusha Nair, S Chandni, Akhila Vijayan	Influence of Shape of Cross Section on the Load–Settlement Behaviour of Strip Footings	Advances in Computer Methods and Geomechanics (Springer)	Volume-2 ISBN 978-981-15-0890-5	55-64	2019
12	Jayamohan J, Anciya Fazal and Soorya SR	Studies on Embankment Foundations with Soft Soil Reinforced with Prestressed Geosynthetic Encapsulated in Thin Layer of Granular Soil	Advances in Computer Methods and Geomechanics (Springer)	Volume-2 ISBN 978-981-15-0890-5	385-395	2019
13	Zoheb Faisal, P Muhammed Shibil, PK Jayasree and J Jayamohan	A study on the erodibility of Lateritic soil due to flooding	Lecture Notes in Civil Engineering IGC 2019- Volume 1 (Springer)	Volume 133	649-658	2019
14	Jayamohan J, Anciya Fazal and Soorya SR	Load–Settlement Behaviour of Prestressed Reinforced Soft Soil Foundations of Embankments	Lecture Notes in Civil Engineering IGC 2019- Volume 5 (Springer)	Volume 137	339-350	2019
15	Aleena Sam, A.Arunima, Smitha, Sujina, J. Jayamohan and Swathy Pushpan	Influence of Flexural Rigidity of Footing and Shear Strength of Supporting Soil on the Internal Stresses in Foundation	Foundation and Forensic Geotechnical Engineering, Lecture Notes in Civil Engineering - IGC 2021 Vol 2(Springer)	Volume 295	177-190	2022

16	S.B.Ardra, H.A.Athira, J.P.Janu, S.Parvathy, J.Jayamohan and Shruthi Johnson	Influence of Oil Spill on the Load-Settlement Behaviour of Footings of Adjacent Structures	Foundation and Forensic Geotechnical Engineering, Lecture Notes in Civil Engineering- IGC 2021 Vol 2- (Springer)	Volume 295	191-202	2022
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International conferences (Papers presented Abroad)

Jayamohan,J., Shivashankar,R., Aswathy,M.S. and Vigey Mary, W.2013, Studies on Behaviour of Footings on Prestressed Geogrid Reinforced Granular Bed Overlying Weak Soil, *Geosynthetics 2013*, Longbeach, California, USA, pp: 100 – 109.

R. Shivashankar, **J. Jayamohan** and K. Srinath Shetty. 2013, Improving bearing capacity of footings on weak and soft soils, *3rd International Engineering Symposium (IES 2013)*, Kumamoto University, Japan, pp:C3-3-1 to C3-3-6

Jayamohan. J, Shivashankar. R, Nileena Sureshkumar, 2016, Effects of Prestress on the Behaviour of Reinforced Granular Beds overlying Weak Soil, *3rd Pan American Conference on Geosynthetics – GeoAmericas 2016*, Miami, USA, pp 1015 - 1027

Jayamohan. Jayaraj, Ramaiah Shivashankar., Anjali Anandan, 2018, Influence of Prestress on the Behaviour of Footings resting on Reinforced Foundation Beds, *11th International Conference on Geosynthetics*, Seoul, Korea, S21-03

Jayamohan. Jayaraj, Aiswarya Shaji., Soorya S R, Balan K, 2019, Additional Settlement of Footing due to Loads acting on Adjacent Foundation, *4th International Conference on Geotechnics for Sustainable Infrastructure Development*, Hanoi, Vietnam

Papers Presented Abroad by Co-Author

Shivashankar,R and **Jayamohan,J.** 2012. Geosynthetic Applications: Some Research Studies and Some Case Studies, *International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC) 2012*, Bangkok, Thailand, pp 111 -121.

R. Shivashankar, **J. Jayamohan** and Nileena Suresh, Behaviour of Footings on Prestressed Geogrid Reinforced Granular Beds Overlying Weak Soil, *Geo Africa 2013*, Accra, Ghana. Article id 07-02

R. Shivashankar and **J. Jayamohan.** 2014, Behaviour of Prestressed Reinforced Foundation Beds Overlying Weak Soil, *Geo Shanghai 2014*, Shanghai, China.

Papers presented in International Conferences in India

Jayamohan. J, Aarya Vimal and Rajeev. K. P, 2016, Behaviour of Strip Footing Resting on Reinforced Foundation Bed with Underground Void, *6th Asian Regional Conference on Geosynthetics*, New Delhi, pp 205 - 212

J. Jayamohan and A. Mujeeb, 2014, Application of Photo Elasticity for the measurement of Internal Stresses in Indeterminate Structures, *First International Conference on Computational Systems and Communications- ICCSC 2014*, Thiruvananthapuram

Jayamohan J, Balan K and Arun N R, 2018, Design of Embankment Laterally Supported with Secant Piles at Kuttanad, *International Conference in Civil Engineering*, Government Engineering College, Thrissur

J. Jayamohan, A. Anjali and K.P. Rajeev, 2016, Effects of Relative Density and Prestress on the Shear Strength Parameters of Reinforced Soil, *10th International Symposium on Lowland Technology*, Mangalore, India, pp 130-135

Aparna. S, **Jayamohan Jayaraj** and Aswathy Sasikumar, 2016, Influence of Gradation of Fill Material on the Behaviour of Geocell Mattress, *10th International Symposium on Lowland Technology*, Mangalore, India, pp 95-100

Anjali U. J, Aiswarya Sreenivasasn, Athira. S, Renju. D and **Jayamohan. J**, 2016, Influence of Hydraulic Gradient on the Behaviour of Strip Footing Resting on Cohesionless Soil, *10th International Symposium on Lowland Technology*, Mangalore, India, pp 89-94

Rugmini, Arathi Krishna, Archana C Anand, Anciya Fazal and **Jayamohan. J**, 2016, Behaviour of Clay Reinforced with Geogrid Encapsulated in Thin Layer of Sand, *10th International Symposium on Lowland Technology*, Mangalore, India, pp 215-220

Thasneem Shajahan, **Jayamohan. J** and Aswathy Sasikumar, 2016, Influence of Underground Void on the Load-Settlement Behaviour and Internal Stress Distribution of a Reinforced Foundation Bed, *10th International Symposium on Lowland Technology*, Mangalore, India, pp 261-267

Lakshmi. R. S, Vandana. S, Aswathy S, Anjana S Nair, Swetha P and **Jayamohan. J**, 2016, Studies on the Load Transfer Mechanism along the Length of Piles, *10th International Symposium on Lowland Technology*, Mangalore, India, pp 136-141

Abdul Latheef, **Jayamohan. J**, Beena VI, 2017, Influence of Gradation on the Shear Parameters of Reinforced Soil, *International Conference on Geotechniques for Infrastructure Projects GIP-2017*, Thiruvananthapuram, paper id-78

Anciya Fazal, Rugmini Ajith, Renju D R, Vandana S, **Jayamohan J**, Arun N R, 2017, Pullout Test on Rock Anchors at Jadayuppara, *International Conference on Geotechniques for Infrastructure Projects GIP-2017*, Thiruvananthapuram, paper id-127

Adithya Mohan, Arya Darshan, Aswathy Nair, Sanchia M Moris, Vaishnavi, **Jayamohan**, Sruthy, 2017, Interaction between Geosynthetic and Granular Soil in Reinforced Foundation Bed, *International Conference on Geotechniques for Infrastructure Projects GIP-2017*, Thiruvananthapuram, paper id-113

Gouri Krishna, Catharine Justine, Aswathy C S, Jaseena Ilyas, Krishna Mohan, **Jayamohan**, Sruthy, 2017, Numerical Modeling of Reinforced Soil Slope under Static Surcharge Loads, *International*

Conference on Geotechniques for Infrastructure Projects GIP-2017, Thiruvananthapuram, paper id-137

Ramachandran M, **Jayamohan J** and Beena V I, 2017, Studies on Stress Distribution in Soil having Multiple Underground Voids, *International Conference on Geotechniques for Infrastructure Projects GIP-2017*, Thiruvananthapuram, paper id-126

Anjali A, **Jayamohan J** and Rajeev K P, 2017, Influence of Prestressed Reinforced Foundation Beds on Load-Settlement Behaviour of Strip Footings, *International Conference on Geotechniques for Infrastructure Projects GIP-2017*, Thiruvananthapuram- paper id-4

Thasneem Shajahan, **Jayamohan. J** and Aswathy Sasikumar, 2016, Effect of Underground Void on the Interface Stress Distribution of a Reinforced Foundation Bed, *International Conference on Geotechniques for Infrastructure Projects GIP-2017*, Thiruvananthapuram- paper id-32

Jayamohan. J, Anjali. A and Rajeev. K. P, 2016, "Modeling strip footings resting on Prestressed Reinforced Foundation Beds", *International Conference on Recent Advances in Civil Engineering (ICRACE 16)*, CUSAT, pp 242 – 247

Jayamohan. J, Aarya Vimal and Rajeev. K. P, 2016, "Behaviour of strip footings resting on soil with underground void", *International Conference on Recent Advances in Civil Engineering (ICRACE 16)*, CUSAT, pp 236 - 241

Archana C. Anand, Rugmini A, Aarathi Krishna. V, Anciya Fazal. R and **Jayamohan J**, 2016, "Parametric study of strip footings resting on Thin Reinforced Foundation Beds", *International Conference on Recent Advances in Civil Engineering (ICRACE 16)*, CUSAT, pp 254 – 259

Jayamohan,J and Shivashankar,R. 2012, Studies on Prestressed Reinforced Foundation Beds overlying weak grounds, *International Conference on Emerging Trends in Engineering (ICETE-12)*, NMAMIT, Nitte, pp 459 – 464.

Papers presented in Indian Geotechnical Conferences (IGC)

M.S.Aswathy, **J.Jayamohan** and R. Shivashankar, Behaviour of Prestressed Geosynthetic Reinforced Granular Bed overlying Weak Soil, *Indian Geotechnical Conference*, 2013, Roorkee.

Jayamohan. J, Aarya Vimal, Rajeev Kumar. P, "Effect of void on the behaviour of strip footing resting on reinforced foundation bed", *Indian Geotechnical Conference*, Pune, December 2015, paper id-38

Jayamohan. J, Thasneem Shajahan, Aswathy Sasikumar, Effect of Underground Void on the Internal Stress Distribution in Soil, *Indian Geotechnical Conference IGC 2016*, Chennai, paper id-60

Jayamohan. J, Aparna. S, Aswathy Sasikumar, Influence of the Properties of Infill Material on the Behaviour of Geocells, *Indian Geotechnical Conference IGC 2016*, Chennai, paper id-61

Jayamohan J, Sruthy, Sanchia, Aswathy, Arya, Effect of Configuration of Geosynthetic on the Behaviour of Foundation Bed, *Indian Geotechnical Conference IGC 2017*, Guwahatti, paper id- Th-11- 294

Aparna K S Nair, **Jayamohan Jayaraj** and Kannan K, 2018, Deformation Behaviour of Piles Resting on Jointed Rock, *Indian Geotechnical Conference IGC 2018*, Bangalore, paper id- Th-02- 42

Jayamohan J, Anciya Fazal, Soorya S R, 2019, Load-Settlement Behaviour of Prestressed Reinforced Soft Soil Foundations for Embankments, *Indian Geotechnical Conference IGC 2019*, Surat, paper id- Th-09- 66

Amrita Varsha T S, Jayamohan J and Anila Angel, 2020, Horizontal Load-Deformation Behaviour of Shallow Circular Footing, *Indian Geotechnical Conference IGC 2020*, Visakhapatnam, paper id- Th-02-08

Sreedhu P S P, Jayamohan J and Kannan K, 2020, Influence of Moment on Load-Settlement Behaviour of Circular Footing resting on Clayey Soil, *Indian Geotechnical Conference IGC 2020*, Visakhapatnam, paper id- Th-02-07

Zoheb F, Muhammed S P ,Jayasree P K and Jayamohan J, 2020, Effect of Flood Parameters on Lateritic Slope Erosion, *Indian Geotechnical Conference IGC 2020*, Visakhapatnam, paper id- Th-12-02

Aleena Sam, A. Arunima Anil, Smitha Anna Kurian, Sujina Kabeer, J. Jayamohan, and Swathy Pushpan, 2021, Influence of Flexural Rigidity of Footing and Shear Strength of Supporting Soil on Internal Stresses in Foundation, , *Indian Geotechnical Conference IGC 2021*, Trichy, pp -177-190

S. B. Ardra, H. A. Athira, J. P. Janu, S. Parvathy, J. Jayamohan, and Shruthi Johnson, 2021, Influence of Oil Spill on the Load–Settlement Behavior of Footings of Adjacent Structures, *Indian Geotechnical Conference IGC 2021*, Trichy, pp -191-202

Papers presented in National Conferences

R. Shivashankar, **J. Jayamohan** and Venkateswar Reddy,2013, Parametric Study on Reinforced Granular Beds Overlying Weak Soil, *Geosynthetics 2013-India*, New Delhi, pp: 180-190

J. Jayamohan and R. Shivashankar, 2014, Analytical Modelling of Prestressed Reinforced Granular Beds overlying Weak Soils, *Geosynthetics India 2014*,New Delhi, pp 15 - 23

Rugmini A, Arathi Krishna V, Archana C Anand, Anciya Fazal and **Jayamohan**, 2017, Parametric study on Clay Reinforced with Geogrid Encapsulated in thin layer of Sand, *Conference on Numerical Modeling in Geomechanics CoNMIg-2017*, IIT Roorkee, pp 45-52

Vandana S and **Jayamohan J**, 2016, Application of Speckle Interferometry in determination of Internal Stresses in Soil, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 111-115

Ajmiya Shajahan, Amal Nazar, Gouri Rajeev, Hanna Rahman, **Jayamohan J**, 2016, Deformations in a Reinforced Earth Retaining Wall subjected to Surcharge Load, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 48-52

J. Jayamohan, S. Aparna and Aswathy Sasikumar, 2016, Influence of Aspect Ratio of Aperture on the Load-Settlement Behaviour of Geocells, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 10-14

J. Jayamohan, Thasneem Shajahan and Aswathy Sasikumar, 2016, Influence of Reinforced Foundation Bed on the Stress Distribution in Underlying Clay with Voids, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 19-21

Archana C Anand, Arathi Krishna, Anciya Fazal, Rugmini A and **Jayamohan J**, 2016, Load-Settlement Behaviour of Clay Reinforced with Geogrid Encapsulated in thin layer of Sand, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 10-15

Renju, Aiswarya Sreenivasan, Anjali U J, Athira S and **Jayamohan J**, 2016, Effect of Seepage on Bearing Capacity of Strip Footings, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 44-47

Abdul Latheef, **Jayamohan J** and Beena V I, 2016, Influence of Coefficient of Curvature on the Shear Strength Parameters of Reinforced Soil, *National Conference on Geotechnical Engineering and Modeling GEM-2016*, Thiruvananthapuram pp 10-15

Anjali U J, Aiswarya Sreenivasan, Athira S, Renju and **Jayamohan J**, 2017, Influence of Hydraulic Gradient on the Load-Settlement Behaviour Of Strip Footing, *Sixth National Conference on Recent Advances in Geotechnical Engineering, NCRAG-2017*, Coimbatore, Paper id-RAG 154

Aswathy V S, Chandana Babu, Shameela, Sreelekshmy and **Jayamohan J**, 2017, Influence Of Void Size On Load Settlement Behaviour Of Footing, *Sixth National Conference on Recent Advances in Geotechnical Engineering, NCRAG-2017*, Coimbatore, Paper id-RAG 124

Jayamohan, Balan K, Arun N R, 2018, Design of a Reinforced Soil Wall with Gabiao Facing for a Slope Failure Site at Thiruvananthapuram, *National Conference on Recent Innovations and Technological Development in Civil Engineering*, Centre for Rural Technology, The Gandhigram Rural Institute, Dindigul, Tamil Nadu, pp 125-127

Mayuna Jeenu, Krishna, Sreedhu, Anjana Raj, Amritha Varsha, **Jayamohan J**, Deepthi Chandran, 2018, Influence of Lateral Confinement of Underlying Soil on the Behaviour of Circular Footing, *National Conference on Recent Innovations and Technological Development in Civil Engineering*, Centre for Rural Technology, The Gandhigram Rural Institute, Dindigul, Tamil Nadu, pp 98-101

Aparna K S Nair, **Jayamohan Jayaraj** and Kannan K, 2018, Load Transfer Mechanism of Piles on Granular Bed overlying a Weak Soil, *National Conference on Recent Innovations and Technological Development in Civil Engineering*, Centre for Rural Technology, The Gandhigram Rural Institute, Dindigul, Tamil Nadu, pp 109-112

Aqila Abdul Khader, **Jayamohan Jayaraj** and Soorya S R, 2018, Interference Effect of Adjacent Footings resting on Reinforced Foundation Bed overlying Weak Soil, *National Conference on Recent Innovations and Technological Development in Civil Engineering*, Centre for Rural Technology, The Gandhigram Rural Institute, Dindigul, Tamil Nadu, pp 117-120

Akhila Vijayan, Shilpa Vijayan, Chandni S, Anusha Nair, **Jayamohan J** and Sajith P, 2018, A Comparative Study of the Load-Settlement Behaviour of Footings of Different Cross Sections, *National Conference on Recent Innovations and Technological Development in Civil Engineering*, Centre for Rural Technology, The Gandhigram Rural Institute, Dindigul, Tamil Nadu, pp 121-124

Anjana U, Teena Mamen, Shilpa Vijayan, Najma R S, **Jayamohan J** and Arun N R, 2018, Geotechnical Investigation and Design of Foundation for the proposed Commercial Complex at Edapallykottai, *National Conference on Recent Innovations and Technological Development in Civil Engineering*, Centre for Rural Technology, The Gandhigram Rural Institute, Dindigul, Tamil Nadu, pp 140-141

Jayamohan. J, Anjali. A & Rajeev. K. P, 2016, “Effect of Geometric Parameters of Reinforced Granular Beds on the behaviour of Strip Footings”, *Kerala Technological Congress (KETCON 16)*

Jayamohan. J, Thasneem Shajahan, Aswathy Sasikumar, 2016, “Finite Element Analysis of Internal Stress Distribution in Soils having Underground Voids”, *Recent Engineering Advances and Trends 2016*, Pankajakasthuri College of Engineering & Technology,

Jayamohan. J, Aparna. S, Aswathy Sasikumar, 2016, “Improving Bearing Capacity of Footings using Geocells- A Review”, *Recent Advances in Engineering*, UKF College of Engineering,

Jayamohan. J, Aarya Vimal & Rajeev. K. P, 2016, “Effect of underground void on Footings resting on Reinforced Foundation Beds”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

Jayamohan. J, Anjali. A & Rajeev. K. P, 2016 “Study of Strip Footings resting on Granular Bed overlying weak soil”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

Abdul Latheef. K. V. M, **Jayamohan. J**, Beena. V. I, 2016, “Effect of Gradation on the Interface Shear Parameters between Geogrid and Sand”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

M. Ramachandran, J. **Jayamohan**, V. I. Beena, 2016, “The effect of underground voids on the stability of foundations- a review”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

Aarathi Krishna. V, Anciya Fazal. R, Rugmini. A, Archana. C. Anand, **Jayamohan. J**, 2016, “Finite Element Analysis of Clay Reinforced with Geogrid Encapsulated in Thin Layer of Sand”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

Athira. S, Renju. D. R, Aiswarya Sreenivasan, Anjali. U. J, **Jayamohan. J**, 2016, “Influence of Hydraulic Gradient on the Behaviour of Strip Footing Resting on Cohesive Soil”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

Gouri Rajeev, Hanna Rahman, Ajmiya Shajahan, Amal Nazar, **Jayamohan. J**, 2016, “Finite Element Analysis of Reinforced Earth Retaining Walls”, *National Conference on Recent Advances in Engineering & Technology, nCOREtech 2016*, LBS College of Engineering, Kasaragod

EXPERT LECTURES DELIVERED

1. “Geosynthetics” in the Short Term Training Programme on “Recent Advances in Civil Engineering” at College of Engineering Thrikarripur from 09 to 13 January 2015.
2. “Advanced Compaction Practices and Quality Control” at the National Symposium on “Geotechnical Aspects of Pavement Structures”, at Government Engineering College, Bartonhill, Thiruvananthapuram on 23 to 25 January 2017.
3. “Reinforced Soil” - at the Faculty Development programme on “Advanced Soil Investigation Methods and Ground Improvement”, at College of Engineering Adoor on 06 to 10, February 2017.
4. “Numerical Modelling of Reinforced Soil” at Wednesday Talk” at Institution of Engineers Trivandrum on 06/12/2017.
5. “Some Case Studies in Geotechnical Engineering” at the “National Conference on “Ground Enhancement for Engineering Projects” at Karunya University, Coimbatore on 12/04/2018.
6. “Geotechnical Engineering” at the Inauguration of Civil Engineering Association”, at Marian Engineering College Kazhakuttom, Trivandrum, in June 2017
7. “Numerical Modelling of Reinforced Soil” at the National Conference in Civil Engineering at Sarabhai Institute of Technology, Thiruvananthapuram
8. “Reinforced Soil” at the 2nd International Conference in Civil Engineering and Architecture; at Trinity College of Engineering Trivandrum; 04/06/2017
9. “Reinforced Soil” at the ISTE sponsored Short Term Training Programme on Numerical Modelling in Civil Engineering” at Viswajyothi Engineering College, Thrissur from 13th to 17th March 2017;
10. “Soil Mechanics”, at PSNA College of Engineering on 14-03-2019
11. “Geotechnical Engineering- Some case studies”, at LBS College of Engineering, Kasaragod on 15-03-2019
12. “Some Research Studies at LBSITW”, International Conference on Geotechnics for Highspeed Corridors”, July 2019, Thiruvananthapuram
13. “Laterites and Lateritic Soils- Some research studies and some case studies”, International Symposium on Lateritic Soils by TC 107 of ISSMGE and IGS Goa Chapter, September 2019, Goa
14. “Geotechnical Investigation”, Faculty Development Programme at Mar Baselious Engineering College, January 2020
15. “Embankment Laterally supported with Seant Piles at Kuttanad- a case study”, iGrip conclave at IIT Gandhinagar, Gujarat, March, 2020
16. "Research Experiences in Geotechnical Engineering", Webinar by NSS Womens Polytechnic, Thiruvananthapuram, May 2020
17. "Some case studies in Geotechnical Engineering", online conference on Innovations and Challenges in Civil Engineering, June, 2020, Malabar Institute of Technology, Kannur
18. "Some Research studies in Geotechnical Engineering", Webinar by LBS College of Engineering, Kasaragod, June, 2020

19. “Forensics in Geotechnical Engineering”, online Faculty Development Programme on Forensic Engineering, Sri Budha College of Engineering, July 2020
20. “Lateritic Soils – Some research studies”, Symposium on Lateritic and other Tropical Soils, by TC 107 of ISSMGE and IGS student Chapter, LBSITW, August 2020
21. “Lateritic Embankments”, online National Conference on Geotechnics and Concrete Structures, organised by the student chapters of IGS and ICI of LBSITW, August 2020
22. “General Practices for Soil Testing in Kerala”, Webinar on Importance of Testing and Evaluation of Geotechnical Properties for better infrastructure, jointly organized by Indian Geotechnical Society and NABL, November 2020.
23. “Design of Substructures” Faculty Development Programme in Civil Engineering< Government Engineering College, Kannur, March 2021
24. “Numerical Modelling in Geotechnical Engineering”, Musaliar College of Engineering, June 2021
25. “Case studies of Numerical modelling in Geotechnical Engineering”, National Conference on Futuristic Advancements in Civil and Mechanical Engineering FAMCE2021, College of Engineering Thalassery, August 2021
26. “Some Case Studies in Geotechnical Engineering”, Inauguration of IGS Student Chapter at Mangalam College of Engineering, Kottayam, December 2021
27. “Field Applications in Geotechnical Engineering”, College of Engineering, Muttathara, February 2022
28. “Case studies in Geotechnical Engineering in South India”, Online Lecture organized by IGS Pune chapter, March 2022
29. “Numerical Modelling in Geotechnical Engineering – case studies”, Online International Conference on Transportation Geotechnics GeoTrans 2022”, June 2022
30. Design of water front structures, Training Programme for Architects of PWD, June 2022
31. “Embankments on Compressible Soil”, Faculty Development Programme at SCMS School of Engineering, Karukutty, August 2022
32. Finite Element analysis of Reinforced Earth Retaining walls- case study”, Faculty Development Programme at Rajagiri of Engineering, Kakkanad, Ernakulam, September 2022

CONSULTANCY

The major works carried out are

Geotechnical Engineering Consultancy Projects

1. Design of embankment laterally supported with Secant Piles at Kuttanad, client-Irrigation Department, Government of Kerala
2. Design of Gabion faced Reinforced Soil Retaining wall for a slope stabilized with soil nails at Thiruvananthapuram, Client-M/s Habitat Technology Group
3. Pullout Test on Rock Anchors at Jadayuppara, Client M/s Usha Brecco Ltd
4. **Geotechnical Investigation for the following projects**

Sl.no:	Project	Client
1	High Thrust Electric Propulsion system Building	ISRO, Valiyamala
2	IFAT Building	ISRO, Valiyamala
3	Canteen Building Extension	ISRO, Valiyamala

4	Material Testing Research Lab	ISRO, Valiyamala
5	Five Star Hotel, Kozhikode	KTDC
6	KTDC Star Resorts, Muzhipilangadi	KTDC
7	Convention Centre, Thiruvananthapuram	KTDC
8	Commercial Complex, Edapallykotta	LSGD
9	Higher Secondary School Building, Anavoor	LSGD
10	Akshaya Centre, Vazhuthacaud, Thiruvananthapuram	Thiruvananthapuram Corporation
11	Kerala State Literacy Mission Building, Pettah, Thiruvananthapuram	Habitat Technology Group
12	Slope Failure Site at Thiruvananthapuram	Habitat Technology Group
13	Nursery School Building, Manvila, Thiruvananthapuram	Bharathiya Vidya Bhavan
14	Industrial Facilitation Centre, Amaravila	SIDCO
15	SIDCO, Head Office, Pappanamcode	SIDCO
16	Aquaculture facility at Vellayani	Mr. Jayachandran
17	3 rd Reach of Vadakara-Mahe Canal	Inland Navigation Department
18	Hospital Building, Attingal	Mr. Shajahan

Structural Engineering Consultancy Projects

4. Design of the following Pedestrian Suspension Bridges

Sl.no:	Pedestrian Suspension Bridge at	Client
1	Nelympathy	BSNL
2	Chemmapally	Kerala Electrical & Allied Engineering Works
3	Nooluveli Kadavu	Kerala Electrical & Allied Engineering Works
4	Pandalam	Kerala Electrical & Allied Engineering Works
5	Thykootam Kadavu	Kerala Electrical & Allied Engineering Works
6	Arippara	Kerala Electrical & Allied Engineering Works
7	Koodathai Kadavu	Kerala Electrical & Allied Engineering Works
8	Kelom Kadavu	Kerala Electrical & Allied Engineering Works
9	Kaneeladukam	Kerala Electrical & Allied Engineering Works
10	Kalpuzhai Kadavu	Kerala Electrical & Allied Engineering Works
11	Thalemogar	Kerala Electrical & Allied Engineering Works
12	Poorakadavu	Kerala Electrical & Allied Engineering Works

5. Design of Pedestrian Cable Stayed Bridge at Kadamprayar, Client- Kerala Electrical & Allied Engineering Works

6. Scrutiny of Structural Design for the following Projects

Sl.No	Project	Client
1	Commercial Complex, Kothamangalam	Housing & Urban Development Corporation
2	Commercial Complex, Paravoor	Housing & Urban Development Corporation
3	Commercial Complex, Palayam, Thiruvananthapuram	Trivandrum Development Authority

7. Design of Shopping Complex for Panmana Grama Panchayath, Kollam

8. Design of New School Building for Bharathiya Vidya Bhavan, Manvila, Thiruvananthapuram

9. Design of New Building for Government School, Anavoor, Thiruvananthapuram
10. Design of new Fire Station Building at Thiruvananthapuram International Airport
11. Design of structures for electric fixtures at Thiruvananthapuram International Airport
12. Design of Steel Structure for Adventure Park at Pothundy, Palakad, Client-WAPCOS
13. Design of Buildings for four Government Colleges under KIIFB Project
14. Structural Design of High Mast Lamp with Hoardings for Kerala Urban and Rural Development Finance Corporation

Membership in Professional Bodies

1. Member of the International Technical Committee, **TC-107** on *Laterites and Lateritic Soils*, of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) for the term 2018-2021
2. Life Member, Indian Geotechnical Society.
3. Vice Chairman, Indian Geotechnical Society, Thiruvananthapuram Local Chapter.
4. Life Member, Indian Society for Technical Education.
5. Member, International Geosynthetics Society.
6. Member Indian Concrete Institute
7. Member, Indian Society for Remote Sensing
8. Member, Initiative for Geotechnical Research and Innovative Practices, iGrip, of IIT Gandhinagar

Achievements

1. Set up the Civil Engineering Departments at LBS College of Engineering, Kasaragod and LBS Institute of Technology for Women, Thiruvananthapuram
2. Started the Student Chapter of Indian Geotechnical Society at LBS Institute of Technology for Women, Thiruvananthapuram
3. Designed the Hostel Building of LBS Institute of Technology for Women and the Civil Engineering Block of LBS College of Engineering, Kasaragod
4. Was in Charge of the Construction of Seven Storied Main Building of LBS Institute of Technology for Women, Thiruvananthapuram
5. Publication of Civil Engineering Technical Magazines, "SKETCH" at LBS College of Engineering, Kasaragod and "SPIRE" at LBS Institute of Technology for Women, Thiruvananthapuram.

Innovative Approaches in Teaching

Encourage students to take part in Consultancy Projects:-

In each Consultancy Project a small group of final year / Pre final year students are assigned. These students will take part in the project and after its completion; they will present a Seminar to other students about the project.

Members of Student Chapter of Indian Geotechnical Society are assigned with Geotechnical Engineering Consultancy Projects and Members of Student Chapter of Indian Concrete Institute are assigned with Structural Engineering / Concrete Technology Consultancy Projects

Students publish papers about the Consultancy Projects in National Conferences

Proficiency in Softwares

1. Auto CAD
2. PLAXIS 2D
3. STAAD Pro