Research Guidance Details as on October 2022

1. **Number of Ph.D. Guided**   **11**
2. **Number of Ph.D. Ongoing**   **05**
3. **Number of M.Tech. Projects Guided**   **73**
4. **Number of M.Tech. Projects Ongoing**   **03**
5. **Number of B.Tech. Projects Guided**   **11**

Details of Ph.D. Students (Guided and Ongoing):

No.	Name of Student	Year of completion/ registration	Title of the Thesis	Status (Completed/ Ongoing)	Principal Guide & Co- Guide if any
			COMPLETED		
1	Subaida E.A.	2009	Charcterization and Perfomance Study of Coir Geotextiles in Flexible Pavements	Completed	Dr.N.Sankar Dr.S.Chandrakaran
2	P. Srinivasa Nagu	2014	Improvement To Lime Stabilized Clayey Subgrade Soils By Randomnly Oriented Nylon Fibre Reinforcement	Completed	Dr.N.Sankar Dr.S.Chandrakaran
3	Harikumar M (PT)	2017	Response of sands reinforced with plastic multi directional components	Completed	Dr.N.Sankar Dr.S.Chandrakaran
4	Hari G. (PT)	2017	Study of group floating stone compaction piles of smaller diameter with low replacement area ratio in clayey soil	Completed	Dr.N.Sankar Dr.S.Chandrakaran
5	Greeshma Nizy Euijine	2018	Stabilization of soft clays using enzymatic lime	Completed	Dr.N.Sankar Dr.S.Chandrakaran
6	Dharmesh Lal (FT)	2018	Studies on Behaviour of Cohesionless Soils Reinforced with Coir Geotextiles of Different Forms	Completed	Dr.N.Sankar Dr.S.Chandrakaran
7	Femy Makkar (FT)	2019	Behaviour of sand reinforced with 3D geogrids	Completed	Dr.N.Sankar Dr.S.Chandrakaran
8	Akhila M (FT)	2019	Cyclic liquefaction of Silts and Low-plastic clayey soils	Completed	Dr.N.Sankar Dr.K.Rangaswamy

9	Anil Joseph (PT)	2019	Precompression of soft marine clay	Completed	Dr.N.Sankar Dr.S.Chandrakaran
10	Sherin K.S. (PT)	2013	Effect of cellular confinement on the mechanical behaviour of sand	Completed	Dr.N.Sankar Dr.S.Chandrakaran
11	Akhil K.S. (FT)	2016	Behavior of cohesion less soils using bamboo products	Completed	Dr.N.Sankar Dr.S.Chandrakaran
			ONGOING		
12	Jishnu V P	2017	Ground improvement of cohesionless soils with woven coconut leaf mat	Ongoing	Dr.N.Sankar Dr.S.Chandrakaran
13	Ashima. J Catherine	2017	Engineering behavior of soft soils treated with Nano particles	Ongoing	Dr.N.Sankar Dr.S.Chandrakaran
14	Apurva	2018	Ground improvement of cohesionless soils with rattan	Ongoing	Dr.N.Sankar Dr.S.Chandrakaran
15	Shireen P K	2018	Performance of a retaining wall bottom ash tyre chips mixture as backfill materials	Ongoing	Dr.N.Sankar Dr.Ranjitha Mary Varghese
16	Swapna Thomas	2019	Ground improvement of cohesive soils with Nano particles	Ongoing	Dr.S.Chandrakaran Dr.N.Sankar

Number of PG Projects Completed

		THESIS TITLE	Name of Student	YEAR
	1	Bearing Capacity and settlement prediction of shallow foundations using random forest regression and PSO-ANN	Gaurav Kumar Tripathi	2022
	2	Prediction Of Bearing Capacity and Settlement from SPT Values Using ANN-PSO	Saranya R	2021
	3	Settlement Prediction Of Shallow Foundations on Cohesionless Soil Using Hybrid PSO-ANN Approach	Krishna Pradeep P	2021
	4	Prediction Of Engineering Properties of Soils from Index Properties Using Hybrid Pso-Ann	Anupama S	2021
	5	Prediction Of California Bearing Ratio (CBR) Of Soils Using Particle Swarm Optimisation (PSO) Algorithm	Kyama Srilatha Chandrappa	2020
	6	Numerical Modelling of Bamboo Mat Reinforced Soil Systems	Ajesh Sankar M.	2020
	7	Prediction Of Compression Index of Soils Using Particle Swarm Optimisation Algorithm	Althaf A.	2020
	8	Prediction of California bearing ratio using evolutionary computation technique	Satyam Bhardwaj	2019
	9	Prediction of compression index of soil using genetic programming	Arun Chandran	2019
	10	Liquefaction assessment using genetic algorithm	M Gopikrishnan	2019
	11	Slope stabilization using Biopolymer	Apurva A K	2018
	12	Numerical studies on behaviour of cohesion less soil reinforced with various coir reinforced forms	Jithin K M	2018
	13	Stabilization of marine clay using Nano- silica and lime	Joju M R	2018
	14	Numerical modelling of sand bed reinforced with multi-directional plastic components	Divyasree S L	2018
	15	Expert system for the selection and design of supports system for geotechnical excavations	Divya Tomar	2018
	16	Study on behaviour of enzymatic lime stabilised soil under varying environmental conditions	Dani Jose	2018
	17	Liquefaction potential of soil using genetic algoritha based on reliability method	Shireen K	2018
	18	Numerical modelling of effects of 3D geogrids on the strength and deformation characteristics of sand beds	Sreya M V	2018
	19	Parametric study of geotextile reinforced embankment on soft clay using PLAXIS	Ameena F.A.	2017

20	Prediction of California Bearing Ratio of Soils Using Artificial Neural Networks	Angel Paul	2017
21	Prediction of pile capacity and settlement using genetic algorithm	Arathi C.V.	2017
22	Evaluation of compression index using Artifial Neural Network	Fidha P	2017
23	Finite element modelling and analysis of piled raft foundation under combined loading	Honey Sajan Thomas	2017
24	Locating critical failure surface in slope stability analysis using genetic algorithm	Shimra Mariyam K.T.	2017
25	Development of a knowledge based Expert System For the Selection and Design of Ground Improvement Elements using Geosynthetics	Anoop Kumar K.V.	2016
26	Prediction of Compaction parameters using Genetic Algorithm	Aryalakshmi A.	2016
27	Prediction of Bearing Capacity and Settlement from SPT Values using Genetic Algorithm	Athira C.R.	2016
28	Prediction of Engineering properties from index properties using Genetic Algorithm	Deepika S.	2016
29	Numerical modeling of behaviour of embankments on soft soils	Devi S.	2016
30	Slope Stability: Numerical Analysis and Case studies from North East India and Northern Keala	Divya Raj N.T.	2016
31	Development of a knowledge based Expert System For the Selection and Design of Foundation.	Najila Ahmed	2016
32	Numerical Analysis of non-connected piled Raft with cushion	Rini Madhavan Rajeev	2016
33	Comparative Studies on the Different Support System for Deep Excavation.	Sajna O.	2016
34	A KBES for the Selection and Design of Retaining Walls	Tintu Mary C	2015
35	Analysis of shallow tunnels in soft ground by FEM using PLAXIS	Shabna P.S.	2015
36	Prediction of settlement of Shallow foundations using Genetic Algorithms	Prasanth S	2015
37	Studies on the improvement of soft clay using Fly Ash - Lime column technique	Kalyani Krishna M.	2015
38	Prediction of Compaction parameters of soils using Artificial Neural Network	Jeeja Jayan	2015
39	A Comparative study of the effectiveness of different Methods of consolidation behaviour of embankments using PLAXIS	Aseeja P.K.	2015

40	Potential Use of Laterite-Bentonite Mix To Attenuate Municipal Solid Waste Lechate	Anjana K.V.	2014
41	Comparative Studies on The Effectiveness of Different Backfill Soil Strengthening Techniques on Retaining Walls Using PLAXIS	Rini John Alappat	2014
42	Finite Element Modelling And Analysis of Piled Raft Foundations With Non-Uniform Piles	Minnu Tommichan	2014
43	Prediction of Engineering Properties of Soils From Index Properties Using ANN	Hridya T.S.	2014
44	Prediction of Baering Capacity And Settlement From SPT Values Using ANN	Christina Susan Thomas	2014
45	Numerical Analysis of Stone Columns With and Without Geosynthetic Encasement Using PLAXIS 2D	Adhila Rahman P.P.	2014
46	A Feasibility Study And A Typical Design of Offshore Wind Farm In India	Nishanth S	2014
47	Pile capacity and settlement prediction using artificial neural network	Sherin K.S.	2013
48	Knowledge based expert system for ground water pollution prediction and remediation	Reshmi P.	2013
49	Analysis and modelling of deep excavation system using plaxis-2d	Nasreen	2013
50	Modelling and stability analysis of slopes using plaxis-2d	Arya R.	2013
51	Numerical studies on the behaviour of isolated footings on geogrid reinforced sand	Adarsh N.	2013
52	Settlement prediction of shallow foundations using Artificial Neural Networks	Harikumar M.	2012
53	Knowledge Based Expert System for solid waste lad contamination and remediation	Lekha P. Satyan	2012
54	Development of an Electronic Dictionary in Geotechnical Engineering	Greeshma Nizy Euijine	2012
55	A Knowledge and Data -driven Expert System for Ground Improvement techniques	Chinchu Cheriyan	2012
56	Development of a KBES For Landslide Prediction	Parameswaran T.G.	2011
57	Study of material scaling in Geotechnical Engineering	Reshmi K.R.	2010
58	Development of a Geotechnical Atlas of Kerala	Rinitha P.	2010
59	Studies on The Strength And Deformation Behaviour of Cochin Marine Clays Under Cyclic Loading	M Bali Reddy	2008
60	Development of An e-Package on Offshore Piles	Karthik Ramanarayanan	2008
61	Development of A PC Based Marine Geotechnical Engineering Hand Book	Venkata Ramana Kirla	2007

62	Development of An Interactive Offshore Data Base	Rakesh C.R.	2001
63	Influence of Stress History on the Cyclic Behaviour of Cochin Marine Clays	Challa Srinivasa Rao	1999
64	Development of a Knowledge Based Expert System For Building Maintenance	Rajeevan B.	1998
65	Behaviour of Two West Coast Marine Soils Under Cyclic Loading		1997
66	Development of A PC Based Software For Settlement Analysis	Anjana Santhakumar	1997
67	Development of A Cyclic Triaxial Test Setup And Some Studies on A Coastal Marine Deposit	Kurien Joseph	1996
68	Development of A PC Based Software For Analysis, Design and Detailing of Pile Foundations	Bijoy Abraham varghese	1995
69	Development of a Knowledge Based Expert System For Ground Improvement	Lissy N.J.	1995
70	Development of a Knowledge Based Expert System For Soil Classification	Saju S.	1994
71	p-y Curve Method of Analysis of Laterally Loaded Piles Using A PC Based Software	Sunil P.N.	1993
72	Development of a Knowledge Based Expert System For Foundation Selection	Sajeev Kumar K.	1993
73	Stabilisation of A Soft Clay Using Lime	Saji N.M.	1992

Number of UG Projects Completed

No.	Project Title	Year
1	Investigations on The Effect of Lime Stabilisation of Soft Soils	1993
2	Development of A PC Based Geotechnical data Base For Calicut City	1994
3	Development of A PC Based Software For Bearing Capacity Analysis of Shallow Foundations	1996
4	Development of A PC Based Software For Geotechnical Engineering Laboratory Tests	1997
5	Development of A Menu Driven Software Package For Stress Distribution Analysis in Soils	1997
6	Development of A Menu Driven Package For The Analysis of Retaining Structures	1998
7	Development of A PC Based Geotechnical Engineering Dictionary	1999
8	Development of A PC Based Handbook of Deep Foundations	2001

9	Development of A PC Based Handbook of Shallow Foundations	2001
10	A PC Based Software For Analysis, Design And Detailing of Pile Foundations	2002
11	Development of a e-Based Geotechnical Engineering Manual	2003