

RESUME

LOKESH KUMAR GUPTA

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Career Objective

To become a quality lead, reliability professional preferably in electronic products design and manufacturing domain by using knowledge gained in academic and professional environment.

Profile Summary

- B.tech (AMIE, correspondence course) in electronics & communication engineering from institution of engineers (Kolkata) and electronics engineering diploma from tech. board Rajasthan (Kota).
- Better understanding to business requirements, project management practices, Innovative & Analytical approach, Team work with good interpersonal skills.
- Able to handle multiple activities as team leader with quality & within target time.

Area of Exposure

- Exposure to CAD tools like- Altium designer 13, using EMI EMC basics of PCB layout.
- Proficient in Validation testing of Energy meters for EMI-EMC, thermal cycles, Safety, and Vibration by visiting different NABL certified test labs.
- **Practicing** electronic circuits simulation using Altium simulation tools
- Understanding of Indian and international metering standards.
- Understanding of 7QC tools, Product & process quality and reliability engineering for failure predictions and warranty life calculation.
- Purchase/Procurement activity & support to purchase team for part procurement.

Projects summary with Secure Meters Limited

1. Reliability services leader (Sept 2018 onward-----ongoing)

- Analysis for field failures with developers, reproducing problems, identifying route cause, improvement actions in design and providing solutions to customers.
- Production process weakness identification, causes identification and support in fixing this process weakness involving design team.
- Failure prediction/identification for design weakness at early design stage based on reliability models & principals like- Coffin Manson, Pecks, Norris landzberg. Identifying weakest link of design, improving those weaknesses, which can affect in reliability in field.
- Reliability modeling for tested life or warranty life estimations.

2. Hardware Development analyst (Oct 2013 to Aug 2018):

- Working on Altium 13 Spice as practitioners and Altium 13 Cad tool as a proficient for PCB & Schematic Layout, Circuit, and generating Fabrication data of PCB (Gerber's).

- Hardware development of 3 phase smart power source with rating of 50VA & 0.5 class to generate desired quantity of voltage, frequency, and current with any phase angles.
- Developed manufacturing test setups and jigs for production testing of products and circuits by meeting CP/CPK >1.66 by using Shainin techniques/QC tools and Quality standards to reduce variability.

3. Validation team lead (Dec 2010 to Sept 2013)

- Selection of applicable test environment for EMI/EMC testing, Preparing test plan, execution of test, compilation of test result and preparation of test reports.
- Expert in performing different standard driven EMI EMC and functional tests on energy meters like RS (Radiated susceptibility), RE (Radiated emission), EFT (fast transient), ESD (Electrostatic discharge), CE, CS, Surge, Impulse, Damped Oscillatory, Interruption of power supply, Magnet tempering and protection test.
- Proficiency in environmental testing like Thermal cycles & vibration.
- Generating and maintaining documentation using CMMI model.
- Certification testing at NABL accredited labs for EMI EMC, vibration & environmental testing's.

4. Design and Validation engineer (Aug 2004 to Nov 2010)

- HW design of optical communication cable to read the Energy meters using infrared transmitter and receiver with immunity of 50kLux of sunlight for global market as per IEC 1107, ANSI C12.18, AS-1284 etc standard for design of optical communication cable to read the Energy meters
- Design of Fiber optical scanner to sense the blink of LED in presence of EMI/EMC environment without any Electromagnetic interference to it.
- Proficiency in different tools of Schematic & PCB designing and simulation using LT-spice, Altium 13.
- Knowledge of Mathcad/Smath tool as a practitioner,
- Calibration of Energy meters with reference (MTS/TPZ of Zera) for linear voltage, current errors, Nonlinear Phase and ratio error correction in current transformer at different load points.

Educational Detail

- **AMIE** (B-tech, correspondence) from **"Institution of Engineers" Kolkata** in **Electronics & communication** engineering in "June 2011 with CGPA of 7.33"
- Polytechnic Diploma in **Electronics Engg.** From Raj. Technical board, with 70.7% in 2004.
- "24 days" practical training at **"Instrumentation limited" Kota**, on PCB's, APP of SMD components lab.
- 12th (math, science) from Rajasthan board of Sec. Education with 68.00% marks in 2001.
- 10th from Rajasthan board of secondary education with 69.33% marks in 1999.

Personal Detail

Date of Birth: October 23, 1983
 Marital status: Married
 Language Known: English, Hindi

Postal address: 75, Nakoda Nagar 3rd, Rakampura Road, Bedwas, Udaipur - 313024,
Rajasthan, India

Job Detail

Total Experience: 18 Years (as on Aug 2022)

Notice period: 3 month

Place: Udaipur

Date:

Lokesh Kumar Gupta

DR. ANAND HULAGABALI - Brief CV

Basic Information			
1	Name and Address	Dr. Anand Hulagabali Phone: 8050611303 Email ID: anandmhulagabali@gmail.com	
2	Nationality / Age / Date of Birth	Indian / 35 / 05.08.1989	
3	Prior Degrees / Year / University	Ph. D. (Geotech) / 2021 / NIT Surat M.Tech. (Geotech) / 2014 / NIT Surat B. E. (Civil) / 2011 / VTU Belgaum	
Teaching			
6	Experience (in years) Teaching Experience	UG & PG: 9 Years	
7	Courses Taught	UG	PG
		5	12
8	Performance in Teaching (Only NIE)	Students Rating	Pass Percentage
		> 95%	> 95%
Research			
7	Research Guidance (Numbers)	Completed	
		M.Tech.	
		28	
8	Publication Details (Numbers) <ul style="list-style-type: none"> • Journal Papers • Conference Papers • Book Chapters 	7 (SCI = 5; SCOPUS = 2)	
		32	
		12 (Scopus Indexed Chapters)	
9	Books	3	
Consultancy			
10	Consultancy	More than 500 works worth more than Rs. 75,00,000	
Innovation			
11	Patents	Granted	
		4	
Interaction with outside world			
12	Conferences/STTP/Seminars/Webinars attended (Numbers)	80	
13	Invited expert talks delivered (Numbers)	21	
14	Memberships in Professional Bodies (Numbers)	9	
Personal Website		www.dranandmh.co.in	

DR. ANAND HULAGABALI - Detailed CV

PhD, AMASCE, AMIE, MIGS, MISSMGE, MACCE

+91 8050 611 303 (India)

anandmhulagabali@gmail.com

BRIEF INTRODUCTION

Presently, I am working as “Manager, Specification Engineering at Terre Armee India”. I have vast 9 years of experience in the teaching, research, and consultancy. I completed my bachelor’s degree in civil engineering from KLES College of Engineering in Belgaum. My M.Tech. and Ph.D. were obtained from NIT Surat, Gujarat in Geotechnical Engineering. My primary research interests encompass reinforced earth structures and geosynthetics, ground improvement techniques, computational geomechanics, and deep foundations.

As part of my M.Tech. and PhD studies, I gained valuable research experience at IIT Madras under the guidance of Dr. G. R. Dodagoudar. I worked at Basaveshwar Engineering College, Bagalkot from 2015 to 2017. Following that, I spent around 3 years (From 2017 to 2020) at Ambo University in Ethiopia, Africa, as part of the UNDP program. During my time in Ethiopia, I also served as a visiting faculty member at esteemed universities such as Jimma University, Arba Minch University, Dire Dawa University, and Hawassa University. I worked at Department of Civil Engineering, The National Institute of Engineering, Mysuru from 2020 to 2024.

At NIE Mysuru, in addition to my research and teaching responsibilities, i was actively engaged in geotechnical engineering consultancy work for both state and central government infrastructure projects. I provided my expertise to various departments, including CBI, RBI, NHAI, AAI, Indian Railways, CPWD, MUDA, MMC, Infrastructure Development Department, Minor Irrigation Department, Planning Department, PWD, RDPR, Revenue Department, Tourism Department, Water Resources Department, and many others. The total value of the consultancy projects I have completed amounts to Rs. 75,00,000.

I have authored three books focusing on research in the field of Geotechnical Engineering. Additionally, I have contributed to the publication around 50 research papers, encompassing book chapters, peer-reviewed journals, and conference proceedings. Recently, I have been granted four patents, highlighting my innovative contributions. Furthermore, I have provided guidance to 28 M.Tech. students in the past. Throughout my career, I have actively participated in 80 conferences, STTPs (Short-Term Training Programs), and seminars, both in India and abroad.

I have had the privilege of delivering numerous technical and motivational speeches at various engineering colleges both within India and abroad. Additionally, I actively contribute as a Reviewer and Editorial board member for five esteemed peer-reviewed journals. Furthermore,

I hold memberships in several prestigious professional organizations, including the American Society for Civil Engineers, Indian Geotechnical Society, International Society for Geosynthetics, International Society for Soil Mechanics and Geotechnical Engineering, Institute of Engineers India, and Association of Consulting Civil Engineers India.

ACADEMIC PROFILE

Ph.D. (2021) – Geotechnical Engineering (Civil Engineering)
Sardar Vallabhbhai National Institute of Technology, SVNIT, Surat (NIT Surat)
Grade: 9.67

M.Tech. (2014) – Soil Mechanics & Foundation Engineering
Sardar Vallabhbhai National Institute of Technology, SVNIT, Surat (NIT Surat)
Grade: 9.47

B.E. (2011) – Civil Engineering
KLES's M.S. Seshagiri College of Engineering & Technology, Belagavi (VTU)
Percentage: 73.44%

PROFESSIONAL EXPERIENCE

Total Experience = **9 Years**

Assistant Professor
Department of Civil Engineering,
The National Institute of Engineering, NIE Mysuru 10th March, 2020 – 1st March, 2024
Lecturer
Department of Civil Engineering, Ambo University, Ethiopia
25th October, 2017 – 9th February, 2020

Visiting Faculty
Arba Minch University, Jimma University, Dire Dawa University (Ethiopia)
15th August, 2018 – 19th November, 2019

Assistant Professor
PG Geotechnical Engineering - Civil Engineering Department, Basaveshwar Engineering
College, Bagalkot
19th January 2015 - 16th September, 2017

CONSULTANCY WORK CARRIED OUT

- Design and Analysis of Reinforced Earth Retaining Wall
- Design Proof Checking of MSE Wall
- Soil Investigation Works
- Slope Protection Works
- Earthen Dam Analysis and Design
- Soil Structure Interaction (2D, 3D Finite Element Analysis)
- Design of Deep Excavation Support Scheme in Urban Areas
- Geotechnical Interpretative Reports (GIR)
- Proof Checking, Peer Review of Third-Party Designs
- Design of Shallow Foundations
- Design of Deep Foundations
- Ground Improvement Solutions
- Instrumentation and Monitoring Solutions

AWARDS

1. The paper titled "Two-dimensional finite element modelling of an underground tunnel and its impact on the settlement of neighboring structures" received the prestigious **BEST TECHNICAL PAPER AWARD** at the International Conference on Sustainable Infrastructure: Innovations, Opportunities, and Challenges-2023 (SIIOC-2023), held on April 20th and 21st, 2023, at NIT Surathkal.
2. The paper titled "Seismic Response Analysis of High-Rise Building Considering the Effect of Soil-Structure Interaction" was honored with the prestigious **BEST PAPER AWARD** at the First International Conference on Innovation in Smart and Sustainable Infrastructure, hosted by the Department of Civil Engineering, Pandit Deendayal Energy University in Gandhinagar, Gujarat. The conference took place from the 23rd to the 25th of August, 2022.
3. The paper titled "Performance Evaluation of Earthen Embankment underlain by Marine Clay Deposit with Ground Improvement Techniques - A Case Study of Mangaluru Region, Karnataka" received recognition for being the **BEST PAPER WITH MINIMUM PLAGIARISM** at the Proceedings of Indian Geotechnical Conference held at NIT Trichy in 2021.
4. The paper titled "Assessment of Effect of Deep Excavation on Adjacent Structures using Finite Element Analysis" was honoured with the **BEST PAPER AWARD** at the Proceedings of Indian Geotechnical Conference held at Andhra University, Vishakhapatnam in 2020.

RECOGNITIONS

1. Chaired a Technical Session at Prestigious conference IGC 2023, at IIT Roorkee.

2. Honorary Secretary of Indian Geotechnical Society, Mysuru Chapter.
3. Board of Examinations (BOE) member for the following institutes;
 - CEPT University, Ahmedabad
 - Vidya Vardhak College of Engineering, Mysuru
 - JSS Technical University, Mysuru
 - VTU Belagavi
 - JNTU Ananthpuram
4. Editorial Board Member and Technical Review Member of the following journals and Conferences;
 - Reviewer of "Geomechanics and Geoengineering - An International Journal", Taylor & Francis (SCI Indexed)
 - Reviewer of "Materials Today: Proceedings" Elsevier (Scopus Indexed)
 - Reviewer of "Recent Patents on Engineering" (Scopus Indexed)
 - Reviewer of American Journal of Civil Engineering
 - Reviewer of Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (Scopus)
 - Technical Expert Committee Member of Global Virtual Conference on Disaster Risk Reduction - Civil Engineering for a Disaster Resilient Society, 19-21st March 2021 organized by ADRRN, IHRR, and NITK.
 - Member of the Technical review committee of International Conference on New Horizon in Civil Engineering (NHCE 2023) on October 13-14, 2023, at MIT, Manipal.
 - Technical Reviewer of International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development organised by Jyothy Institute of Technology, Bangalore; Dates: 7-8 July 2023.

PATENTS

1. Soil Permeability Test Apparatus – 363894-001 (Granted)
2. Carbonation Test System for Concrete - 3635990-001 (Granted)
3. Heat of Hydration of Concrete - 363598-001 (Granted)
4. Portable Soil Analysis Apparatus – 363850-001 (Granted)

PUBLICATIONS

SCI Indexed Journal (5)

1. **Hulagabali, A. M.**, Solanki, C.H., Dodagoudar, G.R. and N. Anitha, "Seismic Internal Stability Analysis of Modular Block Reinforced Earth Retaining Wall". *International Journal of Geosynthetics and Ground Engineering*. 9, 31 (2023). <https://doi.org/10.1007/s40891-023-00448-9>
2. Firanboni Fituma Chimdesa, Firaol Fituma Chimdesa, Nagessa Zerihun Jilo, **Anand Hulagabali**, "Numerical analysis of pile group, piled raft, and footing using finite element

software PLAXIS 2D and GEO5". Scientific Reports. 13, 15875 (2023). <https://doi.org/10.1038/s41598-023-42783-x>

3. **Anand. M. Hulagabali**, Anitha, G. R. Dodagoudar, C. H. Solanki, "Finite Element Analysis of Segmental Precast panel Reinforced earth retaining wall", *Jordon Journal of Civil Engineering*, Volume 17, No. 4 (2023). <https://doi.org/10.14525/JJCE.v17i4.03>
4. **A M Hulagabali**, C H Solanki, G R Dodagoudar (2019), "Internal and external stability analysis of MSE wall subjected to static and seismic conditions", *Ciencia E Tecnica Vitivinicola - A Science and Technology Journal (ISSN: 2416-3953) Vol. 34, Issue. 11, pp. 78-90.*
5. **A M Hulagabali**, C H Solanki, G R Dodagoudar, S S Konnur, M P Shettar (2018), "Analysis of Mechanically Stabilized Earth (MSE) Retaining Wall using Finite Element and AASHTO methods", *Journal of Engineering Technology*, Vol. 6, Special Issue (Emerging Technology in Engineering Technology), pp. 139-150, *American Association of Engineering Education*.

Scopus Indexed Journal (2)

1. **Anand M Hulagabali**, C H Solanki, G R Dodagoudar, M P Shettar (2018), "Influence of Supporting Systems on Behaviour of MSE wall", *International Journal of Civil Engineering and Technology*, 9(4), pp. 1000-1007.
2. **A M Hulagabali**, C H Solanki, G R Dodagoudar, M P Shettar (2018), "Effect of Reinforcement, Backfill and Surcharge on the Performance of Reinforced Earth Retaining Wall", *ARNP Journal of Engineering and Applied Science*, Vol. 13, No. 9, pp. 3324-3230, *Asian Research Publication Network*.

Scopus Indexed Book Chapters (10)

1. **Hulagabali, A.M.**, Solanki, C.H., Thrupthi, C., Sushma, N., Suokhrie, R., Sudarshan, S. (2024). Pull-Out and Rupture Behavior of Geogrid Reinforcements in MSE Wall Subjected to Seismic Conditions. In: Patel, D., Kim, B., Han, D. (eds) *Innovation in Smart and Sustainable Infrastructure*. ISSI 2022. Lecture Notes in Civil Engineering, vol 364. Springer, Singapore. https://doi.org/10.1007/978-981-99-3557-4_19
2. **Hulagabali, A. M.**, Solanki, C.H., Dodagoudar, G.R. (2023). Study on Soil–Panel Interaction on the Performance of MSE Wall. *Earth Retaining Structures and Stability Analysis*. IGC 2021. Lecture Notes in Civil Engineering, vol 303. Springer, Singapore. https://doi.org/10.1007/978-981-19-7245-4_39
3. **Hulagabali, A. M.**, Srujana, R., Rachana, A.V., Longkumer, M.Y. (2023). Numerical Analysis of Earthen Embankment Resting on Soft Clay Deposit. *Earth Retaining Structures and Stability Analysis*. IGC 2021. Lecture Notes in Civil Engineering, vol 303. Springer, Singapore. https://doi.org/10.1007/978-981-19-7245-4_38
4. **Hulagabali, A. M.**, Srujana, R., Rachana, A.V., Longkumer, M.Y. (2023). Performance Evaluation of Earthen Embankment Underlain by Marine Clay Deposit with Ground Improvement Techniques—A Case Study of Mangaluru Region, Karnataka. *Ground*

- Improvement Techniques. IGC 2021. Lecture Notes in Civil Engineering, vol 297. Springer, Singapore. https://doi.org/10.1007/978-981-19-6727-6_8
5. **Hulagabali, A. M.**, Shilpa, V., Shobharani, N.C., Vasundhara, G.S., Prashanth, M.L. (2023). Parametric and Stability Analysis of Landslide Near Somwarpet, Coorg District, Karnataka. Earth Retaining Structures and Stability Analysis. IGC 2021. Lecture Notes in Civil Engineering, vol 303. Springer, Singapore. https://doi.org/10.1007/978-981-19-7245-4_22
 6. **Hulagabali A. M.**, Bariker P., Solanki C.H., Dodagoudar G.R. (2022) Numerical Simulation of Field Vane Shear Test Using Finite Element Method. In: Satyanarayana Reddy C.N.V., Krishna A.M., Satyam N. (eds) Dynamics of Soil and Modelling of Geotechnical Problems. Lecture Notes in Civil Engineering, vol 186. Springer, Singapore. https://doi.org/10.1007/978-981-16-5605-7_9
 7. **Hulagabali A.M.**, Bariker P., Solanki C.H., Dodagoudar G.R. (2022) Assessment of Effect of Deep Excavation on Adjacent Structures Using Finite Element Analysis. In: Satyanarayana Reddy C.N.V., Muthukkumaran K., Vaidya R. (eds) Stability of Slopes and Underground Excavations. Lecture Notes in Civil Engineering, vol 185. Springer, Singapore. https://doi.org/10.1007/978-981-16-5601-9_25
 8. Bariker P., Kori A., **Hulagabali A. M.** (2021) Analysis of Strength Properties of Cement-Stabilized Soil at Different Moulding Water Contents. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 138. Springer, Singapore. https://doi.org/10.1007/978-981-33-6564-3_2
 9. Badaradinni B.M., **Hulagabali A. M.**, Solanki C.H., Dodagoudar G.R. (2019) Experimental Study of Heave Control Technique for Expansive Soil Using Micropiles and Geotextile Layers. In: Thyagaraj T. (eds) Ground Improvement Techniques and Geosynthetics. Lecture Notes in Civil Engineering, vol 14. Springer, Singapore. https://doi.org/10.1007/978-981-13-0559-7_5
 10. Amashi A.R., **Hulagabali A. M.**, Solanki C.H., Dodagoudar G.R. (2019) Landslide Risk Assessment and Mitigation-A Case Study. In: Adimoolam B., Banerjee S. (eds) Soil Dynamics and Earthquake Geotechnical Engineering. Lecture Notes in Civil Engineering, vol 15. Springer, Singapore. https://doi.org/10.1007/978-981-13-0562-7_27
 11. Konnur S.S., **Hulagabali A. M.**, Solanki C.H., Dodagoudar G.R. (2019) Numerical Analysis of MSE Wall Using Finite Element and Limit Equilibrium Methods. In: Adimoolam B., Banerjee S. (eds) Soil Dynamics and Earthquake Geotechnical Engineering. Lecture Notes in Civil Engineering, vol 15. Springer, Singapore. https://doi.org/10.1007/978-981-13-0562-7_22

Books Published (3)

1. **A. M. Hulagabali**, C. H. Solanki, G. R. Dodagoudar (2014), Contaminant Transport Modelling Through Saturated Porous Media using Finite Element and Finite Difference Methods, Lambert Academic Publications, Germany, ISBN: 978-3-659-52607-7.

2. **A. M. Hulagabali** (2013), Response of Tunnels subjected to Seismic Conditions, Lambert Academic Publications, Germany, ISBN: 978-3-659-52106-5.
3. Hulagabali M, Prabhakara R, **A. M. Hulagabali** (2018), Durability Evaluation of High-Performance Concrete, Lambert Academic Publications, Germany, ISBN: 978-6-139-84132-5.

Conference Proceedings (33)

1. **Anand. M. Hulagabali**, Pooja. P. K., Annanya Maria, Manjula. R., Keerthana. H. V., and Anitha, "Proportioning the Backfill Soil as per IRC Specifications for the Reinforced Earth Retaining Wall", Indian Geotechnical Conference, 2023, IIT Roorkee.
2. **Anand. M. Hulagabali**, Sushank B L, Deekshitha B E, V S Shreyas and Samarth M, "Numerical Study on Effect of Excavation Depth, Slope Angle and Ground Water on the Performance of Deep Excavation", Indian Geotechnical Conference, 2023, IIT Roorkee.
3. **Anand. M. Hulagabali**, Dhariyappa Dhoolappanavar, Vadiraj Rao N R, G R Dodagoudar, Anitha Nayak and Gagana P, "Wind and Time History Analysis of Tall Reinforced Concrete Chimney Considering the effect of Soil- Foundation-Structure Interaction", Indian Geotechnical Conference, 2023, IIT Roorkee.
4. Basavaraj C S, **Anand. M. Hulagabali**, G R Dodagoudar, and Anitha Nayak, "Performance evaluation of onshore wind turbine under various support conditions considering the effect of soil- foundation structure interaction", Indian Geotechnical Conference, 2023, IIT Roorkee.
5. **Anand M Hulagabali**, Shruthi A N, Mahadeva Prasad C M, Sneha B M, A Mahanthesh, Nandan Gowda S L, "Two-dimensional finite element modelling of underground tunnel and its effects on settlement of adjacent structures", International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges-2023 (SIIOC-2023), April 20th & 21st, 2023, NIT Surathkal. **(Best Paper Award)**
6. Dhariyappa S D, Vadiraj Rao N R, **Anand M Hulagabali**, G R Dodagoudar, "Wind Analysis of Tall Reinforced Concrete Chimney considering the effect of Soil-Structure Interaction", International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges-2023 (SIIOC-2023), April 20th & 21st, 2023, NIT Surathkal.
7. Basavaraj C S, **Anand M Hulagabali**, G R Dodagoudar, "Dynamic Analysis of On-shore Wind Turbine considering the effect of Soil-Structure Interaction", International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges-2023 (SIIOC-2023), April 20th & 21st, 2023, NIT Surathkal.
8. **Anand M Hulagabali**, Sushank B L, Deekshitha B E, V S Shreyas, Samarth M, "Settlement of adjacent structures due to nearby deep excavations- a numerical investigation", International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges-2023 (SIIOC-2023), April 20th & 21st, 2023, NIT Surathkal.
9. Anitha, **Anand. M. Hulagabali**, C. H. Solanki, G. R. Dodagoudar, "Seismic Response Analysis of High-Rise Building Considering the Effect of Soil-structure Interaction", First International Conference Innovation in Smart and Sustainable Infrastructure, Department

- of Civil Engineering, Pandit Deendayal Energy University, Gandhinagar, Gujarat, 23rd to 25th August, 2022. **(Best Paper Award)**
10. Anitha, **Anand. M. Hulagabali**, C. H. Solanki, G. R. Dodagoudar, "Response Spectrum Analysis of High-rise Reinforced Concrete Framed Structure Resting on Raft and Pile Foundation System", First International Conference Innovation in Smart and Sustainable Infrastructure, Department of Civil Engineering, Pandit Deendayal Energy University, Gandhinagar, Gujarat, 23rd to 25th August, 2022.
 11. **Anand. M. Hulagabali**, Thrupthi C, Sushma N, Ruokuolenuo S, Sudarshan S, "Pull-out and Rupture Behaviour of Geogrid Reinforcements in MSE Wall Subjected to Seismic Conditions", First International Conference Innovation in Smart and Sustainable Infrastructure, Department of Civil Engineering, Pandit Deendayal Energy University, Gandhinagar, Gujarat, 23rd to 25th August, 2022.
 12. Sanjeevani Akki, Y M Manjunath, **Anand. M. Hulagabali**, Anitha, "Effect of Bracings on the Performance of High-Rise Structure Considering the Influence of Earthquake" First International Conference Innovation in Smart and Sustainable Infrastructure, Department of Civil Engineering, Pandit Deendayal Energy University, Gandhinagar, Gujarat, 23rd to 25th August, 2022.
 13. Anitha, **Anand. Hulagabali**, G. R. Dodagoudar, "Seismic Soil-Pile-Structure Interaction Studies of High-Rise RC Framed Structure Resting on Pile Groups", Indian Geotechnical Conference, 2022, Cochin, 15th to 17th December, 2022.
 14. **Anand. M. Hulagabali**, Manya Harish, Shama K, Namratha K L, Bharathkumar K, "Effect of polypropylene planar reinforcement on the unconsolidated undrained behaviour of black cotton soil", Indian Geotechnical Conference, 2022, Cochin, 15th to 17th December, 2022.
 15. **Anand. M. Hulagabali**, Manya Harish, Shama K, Namratha K L, Bharathkumar K, "Numerical simulation of triaxial test to study the effect of reinforcement in enhancing the shear behaviour of black cotton soil", Indian Geotechnical Conference, 2022, Cochin, 15th to 17th December, 2022.
 16. **Anand. M. Hulagabali**, Thrupthi C, Sushma N, Ruokuolenuo S, Sudarshan S, "Parametric, Seismic & Static External Stability analysis of Mechanically Stabilised Earth Retaining Wall", Indian Geotechnical Conference, 2022, Cochin, 15th to 17th December, 2022.
 17. **Hulagabali. A. M**, C. H. Solanki, G. R. Dodagoudar, "Study on Soil-Panel Interaction on Performance of MSE Wall", Proceedings of Indian Geotechnical Conference, NIT Trichy, 2021.
 18. **Anand. M. Hulagabali**, R. Srujana, A. V. Rachana, M. Y. Longkumer, C. S. Suhas, "Numerical Analysis of Earthen Embankment Resting on Soft Clay Deposit", Proceedings of Indian Geotechnical Conference, NIT Trichy, 2021. **(Best Paper Award for Minimum Plagiarism)**
 19. **Anand. M. Hulagabali**, R. Srujana, A. V. Rachana, M. Y. Longkumer, C. S. Suhas, "Performance Evaluation of Earthen Embankment underlain by Marine Clay Deposit with

- Ground Improvement Techniques – A Case Study of Mangaluru Region, Karnataka”, Proceedings of Indian Geotechnical Conference, NIT Trichy, 2021.
20. **Hulagabali. A. M**, V. Shilpa, N. C. Shobharani, G. S. Vasundhara, M. L. Prashanth, “Parametric and Stability Analysis of Landslide near Somwarpet, Coorg District, Karnataka”, Proceedings of Indian Geotechnical Conference, NIT Trichy, 2021.
 21. **Anand M Hulagabali**, Pankaj B, D S Gothakhindi, C H Solanki, "Numerical Study on Prediction of behaviour of Braced Excavation in Heterogeneous Soil", Proceedings of Indian Geotechnical Conference, Andra University, Vishakpattanam, 2020.
 22. **Anand M Hulagabali**, Pankaj B, C H Solanki, G R Dodagoudar, "Numerical Simulation of Field Vane Shear Test Using Finite Element", Proceedings of Indian Geotechnical Conference, Andra University, Vishakpattanam, 2020.
 23. **Anand M Hulagabali**, Pankaj B, C H Solanki, G R Dodagoudar, "Assessment of Effect of Deep Excavation on Adjacent Structures using Finite Element Analysis", Proceedings of Indian Geotechnical Conference, Andhra University, Vishakpattanam, 2020. **(Springer Best Paper Award)**
 24. Pankaj Bariker, Amrutha Kori, **Anand M Hulagabali**, "Analysis of Strength Properties of Cement Stabilized Soil at Different Moulding Water Contents", Proceedings of Indian Geotechnical Conference, SVNIT, Surat, 2019.
 25. Amrutha Kori, Pankaj Bariker, **Anand M Hulagabali**, "Application of Geotextile in Ground Improvement Technique: An Over View ", Proceedings of Indian Geotechnical Conference, SVNIT, Surat, 2019.
 26. Ashwini Shetty, S K Palled, **A M Hulagabali**, V A Reddy, “Experimental Investigation on viability of Metakaolin based Lead contaminated soil”, Proceedings of Indian Geotechnical Conference, IIT Guwahati, 2017.
 27. Akshata Aravalli, **A M Hulagabali**, C H Solanki, G R Dodagoudar, “Enhancement of index and engineering properties of expansive soil using chopped basalt fibres”, Proceedings of Indian Geotechnical Conference, IIT Guwahati, 2017.
 28. S S Vadavadagi, **A M Hulagabali**, G R Dodagoudar, C H Solanki,” Seismic Response analysis of MSE Walls”, Proceedings of Indian Geotechnical Conference, IIT Madras, 2016.
 29. B M Badaradinni, **A M Hulagabali**, G R Dodagoudar, C H Solanki,” Experimental Investigation of heave control technique of expansive soil using micro piles and geotextile layers”, Proceedings of Indian Geotechnical Conference, IIT Madras, 2016.
 30. A R Amashi, **A M Hulagabali**, G R Dodagoudar, C H Solanki, “Landslide Risk assessment and Mitigation – a case study”, Proceedings of Indian Geotechnical Conference, IIT Madras, 2016.
 31. S A Konnur, **A M Hulagabali**, G R Dodagoudar, C H Solanki, “Numerical and Analytical analysis of MSE wall using limit equilibrium methods”, Proceedings of Indian Geotechnical Conference, IIT Madras, 2016.
 32. S R Hosamani, **A M Hulagabali**, “Comparative study of stabilisation of expansive soil using Flyash, Rice husk ash, Bagasse ash and Marble dust”, Proceedings on International conference on Soil and Environment, IISc Bangalore, 2016.

33. **A M Hulagabali**, D R Kamde, "Biomedical waste management for Belgaum city, Karnataka, India- a case study", Proceedings of 4th International conference on Solid waste management, JNTU, Hyderabad, 2014.

Non-Indexed Journals (10)

1. Subash Thanappan, Dumessa Gudissa, **Anand M Hulagabali**, Woyesa Ararsa, Tamere Mariyam Dawit, (2020), "System Performance using Recirculating Sand filter: Proposal on sewage treatment", International Journal of Engineering Technology Research & Management, Vol 04, Issue 02, PP: 32-40.
2. **Anand Hulagabali**, K P Deepadarshan, Mahesh S, Chethan G, Kushnappa, (2020), "Analysis of landslide at Gudar-Gedo Road and proposal of mitigation measures", Iconic research and engineering journals, volume 3, issue 10, pp 136-141.
3. **Anand Hulagabali**, Dumesa Gudissa, Woyesa Ararsa (2019), "Numerical Analysis of Slope Stability- A Parametric Study", International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 7 Issue I, pp. 319-324.
4. **Anand Hulagabali**, Dumesa Gudissa, Woyesa Ararsa (2019), "Analysis of Landslide near Ambo City, Ethiopia, East Africa", International Research Journal of Engineering and Technology (IRJET), Volume 6 Issue I, pp. 513-517.
5. **A M Hulagabali**, C H Solanki, G R Dodagoudar (2018), "Behaviour of MSE Wall with different Soil Properties and Reinforcement Length", International Journal for Research in Applied Science and Engineering Technology, Volume 6, Issue 1
6. Kamde D R, John B, **Hulagabali A**, (2014), "Comparative study for the design of the single span bridge using AASHTO LRFD and IS code methods", IOSR Journal of Mechanical and Civil Engineering, p. 40-44. ISSN:234X.
7. **Anand Hulagabali**, C H Solanki, G R Dodagoudar, (2014), "Migration of contaminants through a soil due to an instantaneous source", International Journal of Advanced research in Civil, Structural, Environmental and Infrastructure Engineering Development, Vol. 1, Issue.3, ISSN:2320-723X.
8. **A M Hulagabali**, C H Solanki, G R Dodagoudar, (2014), "Contaminant Transport modelling through saturated porous media using Finite element and Finite Difference methods", IOSR Journal of Mechanical and Civil Engineering, p. 29-33. ISSN: 334X.
9. **Anand Hulagabali**, C H Solanki, (2014), "3D Contaminant Transport modelling through saturated porous media using Finite Element Geotechnical package SV Office- Chemflux", International Journal of Applied Engineering Research, Vol.9, Issue.2, pp.127-132, ISSN: 0973-4562.
10. **Hulagabali A**, Kamde D, Sharanbasava P, (2013), "Three-dimensional steady state finite difference flow model- a case study", International Journal of Recent Advances in Engineering and Technology, Vol.1, Issue.3, ISSN: 2347-2812.

COURSES DELIVERED

<ul style="list-style-type: none"> • Fundamentals of Geotechnical Engineering (3 times) • Applied Geotechnical Engineering (3 times) • Engineering Mechanics (2 times) 	<i>B.E Civil Engineering, NIE, Mysuru, Karnataka, India</i>
<ul style="list-style-type: none"> • Analysis and Design of Sub Structures (3 times) • Finite Element Analysis (1 time) 	<i>M.Tech Structural Engineering, NIE, Mysuru, Karnataka, India</i>
<ul style="list-style-type: none"> • Design of Earth Retaining Structures (2 times) • Soil Exploration and Testing (2 times) • Pile Foundation Analysis and Design (2 times) • Ground Improvement Techniques (2 times) • Reinforced Earth Structure and Geosynthetics (2 times) • Environmental Geotechniques (1 time) • Geotechnical Earthquake Engineering (1 time) 	<i>M.Tech Geotechnical Engineering, Basaveshwar Engineering College Bagalkot</i>
<ul style="list-style-type: none"> • Geotechnics for Highways (2 times) • Special Problems in Road Construction (1 time) 	<i>M.Sc. in Highway Engineering, Ambo University, Ethiopia</i>
<ul style="list-style-type: none"> • Geotechnics for Highways (2 times) • Special Problems in Road Construction (1 time) • Advanced Pavement Design and Analysis (1 time) 	<i>M.Sc. in Highway Engineering (Extension Program) Ambo University, Wingate Campus, Addis Ababa, Ethiopia</i>
<ul style="list-style-type: none"> • Advanced Foundation Engineering (2 times) • Advanced Computational Methods in Geotechnical Engineering (1 time) • Analysis of Slopes, Earth Retaining Structures and Underground Structures (1 time) 	<i>M.Sc. in Geotechnical Engineering, Arba Minch University, Ethiopia</i>
<ul style="list-style-type: none"> • Advanced Foundation Engineering (2 times) • Advanced Computational Methods in Geotechnical Engineering (2 times) • Analysis of Slopes, Earth Retaining Structures and Underground Structures • Soil Dynamics and Geotechnical Earthquake Engineering (1 time) • Soil Exploration and Field Testing (1 time) 	<i>M.Sc. in Geotechnical Engineering, Jimma University, Ethiopia</i>

<ul style="list-style-type: none"> • Pavement Materials and Construction (1 time) • Advanced Pavement Design (1 time) 	<i>M.Sc. in Highway Engineering, Dire Dawa University, Ethiopia</i>
<ul style="list-style-type: none"> • Foundation Engineering - II • Technical Report Writing and Research Methodology 	<i>B.Sc. in Civil Engineering, Ambo University, Ethiopia</i>

CONFERENCES/STTP/SEMINARS ATTENDED

1. 14 days online National level faculty development programme on "Innovative Teaching Strategies and Tools in the Digital Age" organized by Department of civil engineering, Sri Sairam Engineering College, Chennai, Tamil Nadu from Feb 1st-14th 2024.
2. Five Days FDP on "EMERGING TRENDS IN UAV AND PRACTICAL APPLICATIONS" Jointly Organized by IEEE GRSS Bangalore Section and NIE IEEE Student Branch (NISB), Department of Civil Engineering, The National Institute of Engineering, Mysuru from 16th to 20th January 2024.
3. Indian Geotechnical Conference IGC, organized by Department of Civil Engineering, IIT Roorkee from 14th to 16th December 2023.
4. International Conference on Sustainable Infrastructure: Innovations, Opportunities and Challenges - 2023 (SIIOC - 2023) organized by National Institute of Technology Karnataka, Surathkal on 20th to 21st April 2023.
5. Indian Geotechnical Conference IGC, Cochin, 15th to 17th December 2022.
6. IndoAmerican workshop on, "Multi Hazard Disaster Mitigation", 14th December 2022.
7. National seminar on "Geotechnics for Infrastructure Development" organised by Department of Civil Engineering, NIE Mysuru and also organised as 'Organising Secretary" on 5th September 2022.
8. International conference on "Innovation in smart and sustainable infrastructure" organised by Civil Engineering Department, PDPE University, Gandhinagar on 23rd to 25th August 2022.
9. National Seminar on "Applications of Geosynthetics and Natural Fibers in Infrastructure Development" organised by Department of Civil Engineering, IIT Madras on 24th June 2022.
10. National workshop on "Recent Advances in Geotechnics for Infrastructure" organised by VVCE Mysuru on 28th May 2022.
11. Successfully completed Skill Development and Training Course on "Applications of Geosynthetics in Civil Engineering Projects" organized by IISc Bangalore, IIT Madras and IIT Roorkee from 17th to 28th January 2022.
12. Indian Geotechnical Conference IGC, IGS Trichy Chapter and NIT Trichy, 16th to 18th December, 2020.
13. Participated and successfully completed the 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 14th to 18th June, 2021.

14. Indian Geotechnical Conference IGC, Andra University, Vishakhapatnam, 17th to 21st December, 2020.
15. International Workshop of Technical Committee 213 on "Scour and Erosion" organised on December 16th, 2020 by International Society for Soil Mechanics and Geotechnical Engineering in association with Indian Geotechnical Society and Department of Civil Engineering, Andhra University College of Engineering, Visakhapatnam, India.
16. One Week online FDP on "Infrastructure Works: Site Survey to Execution Using Modern Project Management Techniques" organised by DSATM, Bangalore from 10th to 15th August 2020.
17. One week online short-term course on "Emerging trends in Highway Engineering and Infrastructure Development" organised by Department of Civil Engineering, NIT Jalandhar, from 23th to 27th June 2020.
18. Five days online FDP on "Technologies for Infrastructure planning, design, monitoring and management", organised by Nalla Malla Reddy Engineering College, Divya Nagar, Medchal, Hyderabad, from 16th to 20th June 2020.
19. FDP on "Current Research Avenues in Civil Engineering" organised by Tontadarya College of Engineering, Gadag, on 29th to 31st May 2020.
20. Webinar on "Outcome based education-Road map to E-learning and Accreditation", by IIIT Bangalore, on 29th May 2020.
21. Webinar on "Foundation Settlement using empirical correlations" by Prof. C. H. Solanki, organised by IGS Guntur chapter on 16th May at 6.00 pm.
22. National webinar workshop series on "Recent Advances in Geotechnics for Infrastructure RAGI2020" from 14th to 17th May 2020 by Prof. Madhav, Er. Mohan Prasad, Er. Anirudhan and Prof. G. R. Dodagoudar.
23. Webinar on "Various reinforced soil walls and slope systems", by Dr Ratnakar Mahajan, Maccaferri on 15th May.
24. Webinar series by Geopier on "Ground improvement solutions for the Transportation sector", 12th May, 2020.
25. Indo-China Research webinar series in Civil and Environmental Engineering, 8th to 19th May 2020, in association of Shantou University, China and Vardhman Engineering College, Hyderabad.
26. Webinar series by Geopier on "Ground improvement solutions for liquefaction mitigations", 7th May 2020.
27. Webinar on "Construction and quality control of reinforced soil wall", by Er. D. V. Bhavann Rao, Rtd. Chief Engineer on 30th April 2020.
28. Webinar on "Geogrid reinforced pavements-IRC SP59 2019" by Er. Deeraj Reddy, Techfab India on 30th April 2020.
29. Webinar on "How to use MacSTARS W4.0 - A versatile reinforced soil software" by Rudra Budhbatti, Maccaferri on 30th April 2020.
30. Webinar on "CASE STUDY- Verification and Foundation solution to high rise building" by Dr. C R Parthsarathy, on 29th April at 2020.

31. Burmister lecture on "Limit state design framework for reinforced slopes and walls" by Prof. Dov Leschinsky, University of Delaware & Adama engineering, USA on 29th April 2020.
32. Webinar on "Innovative flexible two-stage MSE wall solution to address soft ground and land subsidence geohazards", by Dr. Naresh Samtani, NCS GeoResources, USA, conducted by IIT Gandhinagar on 27th April 2020.
33. Webinar on "How to avoid Reinforced Soil wall failures", by Er. Yeshodeep Patil, Strata India on 24th April 2020.
34. Webinar on "Reinforced soil walls: Time to analyse and review", by Dr. Rajic Goel, CEPT University on 20th April 2020 2020.
35. Indo-Korean Workshop on "Geotechnical Issues for Urbanisation" Le Meridien Hotel, Surat, India, 18th December 2020.
36. Indian Geotechnical Conference, Marriott Hotel, Surat, India, 19-21st December, 2019
37. Fifteen Days GIAN Course on "Design and Analysis of MSE Walls" IIT Patna, Bihar, 29th July to 10th August 2019.
38. One Day International Seminar on "Sustainability in Geoenvironmental Engineering" Patna, Bihar, 5th August 2019.
39. Two days Seminar on "Soil and Highway Material Testing" Indore, MP, 30-31st August 2019.
40. International conference on Recent Trends in Engineering and technology and the Quest for sustainable development, Ambo University, Ethiopia, 3th – 14th May, 2019.
41. One Day International workshop on, "Fibre Reinforced Soil" by Prof. S. J. Shukla, SVNIT, Surat, 22nd September 2018.
42. Two Days National DFI seminar on, "Pile Foundation analysis and Design" SVNIT, Surat, 27th to 28th May 2017.
43. Two Days International symposium on, "Emerging Technologies for sustainable development" BEC, Bagalkot, Karnataka, 27th to 28th February 2017.
44. Indian Geotechnical Conference, IIT Madras, Chennai, 15th to 17th December 2016
45. One Day Workshop on, "Deep Foundations in Liquefiable Soils and Deep Excavation Experiences" IIT Madras, Chennai, 14th December 2016.
46. International Forensic Geotechnical Engineering Conference, IISc Bangalore, 8th to 10th December, 2016.
47. One Week Workshop on, "Geotechnical Aspects of Foundation Engineering" SVNIT, Surat, 17th to 21st October 2016.
48. One Day Seminar on "Soil contamination by Industrial waste", Institute of Engineers, Vadodara, 1st October 2016.
49. International Geotechnical Engineering Conference on "Sustainability in Geotechnical Engineering Practices and Related Urban Issues", IIT Bombay, Mumbai, Maharashtra, 23rd to 24th September 2016.
50. National Seminar on "Geotechnical Engineering", SVNIT, Surat, Gujarat, 20th to 21st August, 2016.
51. International Conference on "Soil and Environment", IISc Bangalore, Karnataka, 22nd to 23rd July 2016.

52. Two days training programme on “Geotechnical Investigations, Interpretations & Improvements (GIII-2016)” SVNIT, Surat, Gujarat, 8th to 9th April 2016.
53. Workshop on “Outcome Based Education” BEC, Bagalkot, Karnataka, 19th to 20th February 2016.
54. International (Speaker) Training Course on “Introduction to Geosynthetics and Their Application (ITCIGA-2015)” SVNIT, Surat, Gujarat, 14th December 2015.
55. Faculty Development Program on “Active Cooperative Learning and Teaching”, IIT Madras, Chennai, Tamilnadu, 12th to 14th October 2015.
56. One Week Workshop on “Geotechnical Investigations, Interpretations and Improvements (GIII 2015)” SVNIT, Surat, Gujarat, 14th to 18th July 2015.
57. Three days “Human Resource Development Programme”, BEC, Bagalkot, Karnataka, 25th to 28th February 2015.
58. Finishing school cum workshop on “Geotechnical Aspects of Foundation Engineering”, SVNIT, Surat, Gujarat, 9th to 11th October 2014.
59. Ten Days Workshop on “Advances in Geotechnical Engineering (AGE – 2014)” SVNIT, Surat, Gujarat, 25th June to 4th July 2014.
60. International Conference on “Latest Trends in Civil, Structural, Environmental and Infrastructure Engineering” Chennai, Tamilnadu, 8th to 10th March, 2014.
61. Finishing School Cum Workshop on “Ground Improvement Techniques”, SVNIT, Surat, Gujarat 11th to 12th February, 2014.
62. Forth International Conference on “Solid Waste Management”, Hyderabad, Andra Pradesh, 28th January, 2014.
63. International Conference on “Advances in Engineering and Technology”, Nagpur, Maharashtra, 8th to 9th January 2014.
64. Second International Conference on “Sustainable Innovative Techniques in Civil and Environmental Engineering” Jawaharlal Nehru University, New Delhi, 5th January, 2014.
65. Indian Geotechnical Conference 2013, IIT Roorkee, Uttarakhand, 22nd to 24th December 2013.
66. International Conference on “Emerging Trends in Civil and Mechanical Engineering” Siliguri, West Bengal, 10th November 2013.
67. Workshop on “Geotechnical Investigations, Interpretations and Improvements” SVNIT, Surat, Gujarat, 18th to 22nd October 2013.
68. National Seminar on “Advances in Geotechnical Engineering” SVNIT, Surat, Gujarat, 7th to 9th June 2013.
69. Summer internship for period of 8 weeks under Dr. G.R. Dodagoudar, IIT Madras, Chennai, Tamilnadu, August to June 2013.
70. 4th Young Indian Geotechnical Conference (4IYGEC), IIT Madras, Chennai, Tamilnadu, 17th to 18th May 2013.
71. Workshop on “Finite Element Modelling with MATLAB” SVNIT, Surat, Gujarat, 6th to 10th May 2013

72. One Day Finishing Scholar on "Overview of Ground Improvement Techniques" SVNIT, Surat, Gujarat, 23rd April, 2013
73. Workshop on "LANDFILLS" IIT Delhi, New Delhi, 6th to 7th March 2013.
74. Finishing School cum Workshop on "Ground Improvement Techniques" SVNIT, Surat, Gujarat, 11th to 12th February 2013.
75. Structural Engineering Convention (SEC-12) SVNIT, Surat, Gujarat, 19th to 21st December, 2012
76. Indian Geotechnical Conference 2012, IIT Delhi, New Delhi, 13th to 15th December 2012.
77. Indo-Korean workshop on "Geotechnology for Urban Development" IIT Delhi, New Delhi, 12th December 2012.
78. National level conference on "Civil and Chemical Engineering" Bapuji Institute of Technology, Davangere, Karnataka, January, 2011.
79. National level technical conference on "Emerging Engineering Techniques" KIT's College of Engineering, Kolhapur Maharashtra, October, 2010.
80. National level conference on "Civil and Environmental Engineering" Malnad College of Engineering, Hassan, Karnataka, September, 2010.
81. State level conference on "Civil Engineering" Malnad College of Engineering, Hassan, Karnataka, July, 2009.

EXPERT / INVITED TALKS DELIVERED

1. Expert speaker at One day National Seminar on "Recent Advances in Geotechnical Engineering (RAGE) - 2023" organized by Indian Geotechnical Society Surat Chapter in association with Department of Civil Engineering, SVNIT Surat, Indian Geotechnical Society Student Chapter SVNIT and Indian Geotechnical Society Student Chapter SCET on 15th October 2023.
2. Expert Speaker at Five Days Faculty Development Program (FDP) on "Research Insights in Civil Engineering (RICE - 2023)", organised by Dept of Civil Engineering, NIE Mysuru on 27th July 2023.
3. Invited as Guest speaker on "Importance of Higher Education and Career Opportunities" organized by Training and Placement cell, The Oxford Group of Institutions, Bengaluru on 2nd June 2023.
4. Resource Person at One week Faculty Development Program on EMERGING TRENDS AND PROSPECTS IN GEOTECHNICAL ENGINEERING 19th - 24th December 2022, Organized by Department of Civil Engineering, S. G. Balekundri Institute of Technology, Belagavi
5. Expert Speaker at National seminar on "Geotechnics for Infrastructure Development" at NIE Mysuru on 5th September 2022.
6. Expert Speaker for webinar on "An overview of ground improvement techniques with some case histories - Geosynthetics, Soil Nailing and Micro Piles" organised by Faculty of Technology, CEPT University, Ahmedabad on 09/10/2021.

7. Guest Lecture at Department of Civil Engineering, NIT Surat for M.Tech second year Geotechnical Engineering students on Research and Career opportunities on 25/04/2022.
8. Speaker in SDP on "Job Opportunities & Higher Studies in Civil Engineering" organised by Dept of Civil Engineering, NIE Mysuru on 10th January 2022.
9. Expert Speaker for webinar on "Recent Applications of Geosynthetics in Civil Engineering Projects" organised by Faculty of Technology, CEPT University, Ahmedabad on 9th October 2021.
10. Invited as Expert Speaker for webinar on "Applications of Geosynthetics in Civil Engineering Projects" organised by IGS Surat Chapter and IGS Student Chapter, SVNIT, Surat on 25/07/2021.
11. Delivered an expert talk on "Interlocking Stabilised Soil Blocks - Appropriate Material and Method for Construction Rural Areas" as Resource Person in One Week FDP on "Precast and Sustainable Technologies" organised by JB Institute of Engineering and Technology, Hyderabad on 23rd April, 2021.
12. Guest Lecture on Career opportunities and Guidance for Civil Engineering Students on 15th January 2021, organised by Department of Civil Engineering, KLE Dr. M. S. Sheshgiri College of Engineering & Technology, Belagavi.
13. Presented a webinar talk on "Career Opportunities in Civil Engineering: Global and Domestic Scenario" at Biluru Gurubasava Mahaswamiji Institute of Technology, Mudhol, Karnataka. The talk was held on the eve of Engineer's Day, 23/10/2020.
14. Talk on "Guidelines for Career in Civil Engineering", in online workshop on Career Opportunities and Guidance organised by NIE Mysuru on 14th July 2020.
15. Expert E-Talk in Webinar on "Introduction to Applications of Geosynthetics in Civil Engineering Projects" on 31st May 2020 organised by Amritvani College of Engineering, Sangmner, Maharashtra.
16. Invited talk on "Applications of Geotechnics in Civil Engineering Practice" at SKSVM Agadi College of Engineering, Laxmeshwar, Gadag on 17th September 2019.
17. Keynote Address at Ambo University, Ethiopia on "Research Publications" on Research Review Day on 24th May 2019.
18. Invited talk at BGM Institute of Technology, Mudhol, Karnataka, India on "Importance of Higher Education" On 13th August 2018.
19. Invited talk at BGM Institute of Technology, Mudhol, Karnataka, India on "What next after B.E / B.Tech" on 3rd March 2017.
20. Invited talk at Rural Engineering College, Hulkoti, Karnataka, India on "Career Opportunities and importance of GATE" on 13th April 2017.

MEMBERSHIPS IN PROFESSIONAL BODIES

1. Life Member of Association of Consulting Civil Engineers (INDIA) - Member ID: 5466-L
2. Member of International Society of Geosynthetics. Member ID: 11584
3. Life Member of Indian Geotechnical Society. Member ID: LM 4474

4. Member of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE).
5. Associate Member of American Society of Civil Engineers (ASCE) - India Southern and Western Section. - Member ID: 9776411
6. Associate Member of The Institute of Engineers India. - Member ID: AM1838418
7. International Association of Engineers (IAENG) - Member ID: 254581
8. Life Member of Teaching and Education Research Association (TERA), Member ID: TERA - M110584
9. Associate Member of Geo Institute of ASCE

REVIEWER / EDITORIAL MEMBER

1. Reviewer of "Patents in Engineering" Journal (Scopus)
2. Reviewer of American Journal of Civil Engineering
3. Reviewer of Advances in Science, Technology and Engineering Systems Journal
4. Editorial Board Member of International Research Journal of India
5. Editorial Board Member of Advances in Engineering – An International Journal
6. Editorial Board Member International Open Journal of Science and Engineering
7. Reviewer of International Journal of Engineering Research and Technology

M.Tech THESES AWARDED UNDER MY GUIDANCE AS MAIN ADVISOR

1. Ashwini. A. Landslide Risk Assessment and Mitigation, 2016
2. Bharamagoud. B. Experimental Study of Heave Control Technique for Expansive Soil Using Micropiles, Geotextile Layers and Bio Enzyme, 2016
3. Mahesh. C. Bearing Capacity Improvement by using Geonet and Geogrid, 2016
4. Sangamesh. K. Numerical and Analytical Analysis of MSE Wall, 2016
5. Shashidhar. H. Comparative Study on Stabilization of Expansive Soil Using Fly Ash, Rice Husk Ash, Bagasse Ash & Marble Dust, 2016
6. Shilpa. V. Static and Seismic Analysis of MSE Wall, 2016
7. Vijayvardhan. R. Prediction and Simulation of Contaminant Transport Modeling, 2016
8. Deepali. G Numerical Study on Prediction of Behaviour of Braced Excavation in Heterogeneous soil, 2017
9. Sahana. A. Performance of Reinforced Earth Walls with Rammed Aggregate Pier, Pile Foundation and Drilled Shaft as Supporting System, 2017
10. Soumya. Y. Seismic Response Analysis of Gravity Retaining Wall for Homogenous and Heterogeneous Foundation Soil, 2017
11. Akshata. A. Enhancement of Index and Engineering properties of Expansive soil by Basalt Fibres and Silica Fume, 2017
12. Ashwini. S. Experimental Investigation on Viability of Metakaolin based Stabilized/Solidified Lead Contaminated Soil, 2017
13. Avinash. A. Improvement of Bearing Capacity of Sand with Geocell Reinforcement of Different Stiffnesses, 2017

14. Raghavendra. R. Comparative Study on Behaviour of MSE and Conventional Retaining wall for Different Earthquake Conditions, 2017
15. Sneha. P. Experimental Investigation on Geotechnical Properties of Chromium Contaminated Soil by Alco fine, 2017
16. Mulugeta Regassa. Characterisation of subgrade soil for flexible pavement design: The case of Arbaminch – Konso road, 2019
17. Hiruy Getahun. Investigation on engineering properties of a soil and its improvements at subgrade: Case study of Addis Ababa to Nairobi Corridor (Chuko to Yirgachefee), 2019
18. Yitakel Assfaw. The assessment of effects of deep excavations on adjacent structures using FE program: A case study in Addis Ababa, Hawassa University Geotechnical Engineering, 2020
19. Kibrom Negasi. Gebreyesus. Numerical Simulation of Vane Shear Test using Finite Element Hawassa University, Geotechnical Engineering, 2020
20. Ashenafi Tefera. Comparative analysis of Gravity retaining wall and MSE wall under different seismic conditions, Arba Minch University, Geotechnical Engineering, 2020
21. Abebe Edosa Toli. Investigation of some Engineering properties of Soil in Adama town and Geotechnical data management by GIS software, Jimma University, Geotechnical Engineering, 2020
22. Rameto Tusa. Evaluation of Alternative stabilisation techniques and developing swelling potential prediction model for expansive soil in Worabe town Hawassa University, Geotechnical Engineering, 2019
23. Zemu Gina. Evaluation of Liquefaction Potential of soil near lake Hawassa, Hawassa University, Geotechnical Engineering, 2019
24. Malluraj Hitni. Landslide Studies of Coorg District, Karnataka, NIE Mysuru, Water Resource Engineering, 2021
25. Anitha. Seismic Response Analysis of High-Rise Building considering soil-structure interaction, 2022
26. Sanjeevini B Akki. Effect of Bracings on the Performance of High-Rise Structure Considering the Influence of Earthquake, 2022 (Co-Advisor)
27. Basavaraj C S. Effect of Foundation Types on the Dynamic Performance of Onshore Wind Turbines considering the effect of Soil-Foundation-Structure Interaction, 2023
28. Dhariyappa Dhoolappanavar. Wind Analysis of Tall Reinforced Concrete Chimney Considering the effect of Soil Structure Interaction, 2023

SOFTWARE PROFICIENCY

1. FLAC 2D/3D
2. PLAXIS 2D / 3D
3. MATLAB
4. REAME - Slope Stability Analysis
5. GRLWEAP- Pile Driving Analysis
6. GEOSTUDIO 2014

7. SOIL VISION OFFICE 2009
8. GEO 5
9. MODFLOW
10. QUAD4
11. TALREN
12. AUTO CAD

ACADEMIC RESPONSIBILITIES

1. Research Ambassador, Dept. of Civil Engineering, NIE Mysuru (2023-2024)
2. Honorary Secretary for Indian Geotechnical Society, Mysuru Chapter (2023-Till Date)
3. Student Club Coordinator at Department level at NIE Mysuru (2022-2023)
4. Career Guidance Coordinator at Department level at NIE Mysuru (2022-2023)
5. Training and Placement Coordinator at Department level at NIE Mysuru (2020-2022).
6. Coordinator for establishment of new PG geotechnical engineering program at Ambo University (2018-19).
7. Chief Coordinator for Centre of excellence and incubation at Ambo University, Ethiopia (2018-19).
8. Member of Graduate Engineering Committee for PG studies at Ambo University, Ethiopia (2017-19).
9. Faculty Advisor, Faculty of PG Geotechnical Engineering Studies, Basaveshwar Engineering College, Bagalkot (2015-17).
10. Member, Anti Ragging Committee, Basaveshwar Engineering College, Bagalkot 2016 (2016-18).
11. HRD Trainer for many UG and PG students at various engineering colleges in India. (2015-17).
12. National Board of Accreditation Coordinator for Faculty of PG Geotechnical Engineering Studies, BEC BGK (2015-17).

CONTACT DETAILS

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PROFESSIONAL REFERENCES

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Prof. Deepankar. Choudhury

Professor and Head,
Department of Civil Engineering,
IIT Bombay
Ph. No. 99692 74031
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Prof. Krishna Reddy

Professor & Director,
Civil, Materials, and Environmental
Engineering Department
University of Illinois
Chicago, USA

Curriculum Viate of Dr. Makwana Gautam Durlabhji

GENERAL INFORMATION:

1. Name: Dr. MAKWANA GAUTAM DURLABHJI

2. Present Employer: Associate Professor,
GTU-Graduate School of Engineering and Technology,
Gujarat Technological University,
Chandkheda, Ahmedabad

Email ID : asso_gautam_makwana@gtu.edu.in, gmakwana@gmail.com

Contact Details: 9067575820



EDUCATIONAL QUALIFICATIONS (Starting with highest degree obtained):

Sr. No.	Examination /Degree	Name of Board/ College/University	Percentage of Marks/Final Grade	Discipline/ Subject(s)	Year of Passing/ award
1	Ph.D.	Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT), Gandhinagar	-NA-	Information & Communication Technology (EC)	August 2016
2	M.E.	Indian Institute of Science (IISc), Bangalore	6.3/8.0	Telecommunication	2009
3	B.E.	S. V. Regional College of Engineering (SVNIT), South Gujarat University, Surat	74 %	Electronics	1998
4	H.S.C.	Gujarat Higher Secondary Education Board, Gandhinagar	76%	-NA-	1994
5	S.S.C.	Gujarat Secondary Education Board, Gandhinagar	78%	-NA-	1992

Details of Employment Experience: (In chronological order starting with the most recent)

Sr. No.	Name of Employer	Status of Institute/ University (Govt./Quasi Govt./ Autonomous etc.)	Post held/ Designation	Period of Employment		Pay band/scale and Grade Pay		Nature of duties
				From	To	Scale/ Band	Grade pay	
1	GTU-Graduate School of Engineering and Technology, Gujarat Technological University, Ahmedabad	Government	Associate Professor	28-11-2019	Till Date	Rs. 37,400/-	Rs. 9000/-	PG Teaching
2	Sankalchand Patel College of Engineering, Visnagar	Autonomous	Asst. Professor	01-11-2010	27-11-2019	Rs. 38,200/- (15600-39100)	Rs. 8000/-	UG + PG Teaching
3	Sankalchand Patel College of	Autonomous	Senior Lecturer	01-07-2006	31-10-	26,325/- (10000-	7000/-	UG + PG Teaching

	Engineering, Visnagar				2010	325- 15200)		
4	Sankalchand Patel College of Engineering, Visnagar	Autonomous	Lecturer	20-07- 2001	30- 06- 2006	9375/- (8000- 275- 13500)	6000/-	UG Teaching
5	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat	Government	Adhoc- Lecturer	07-08- 2000	30- 06- 2001	8000/- (8000- 275- 13500)	-NA-	UG Teaching
6	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat	Government	Adhoc- Lecturer	04-09- 1999	30- 06- 2000	8000/- (8000- 275- 13500)	-NA-	UG Teaching

Patent Granted/Published

Name of Applicant	Application No.	Type of Intellectual Properties	Date of Filing/ Date of Granting	Status of IPR
Ritisha V. Bhatt, Gautam D. Makwana , Devendra H. Patel	370713-001	Design Patent	12-09-2022 10-01-2023	Granted
Devendra H. Patel, Gautam D. Makwana , Ritisha V. Bhatt	368819-001	Design Patent	04-08-2022 25-04-2023	Granted
Gautam D. Makwana , Shailesh D. Panchal	377174-001	Design Patent	11-01-2023 02-03-2023	Granted
Devendra Patel Gautam D. Makwana	379247-001	Design Patent	13-02-2023 16-05-2023	Granted
Gautam D. Makwana	202321041675	Patent	22-06-2023 08-09-2023	Published

Research Articles/Papers published in Journals

- G.D. Makwana**, K.J.Vinoy, "Design of a compact rectangular dielectric resonator antenna at 2.4 GHz", **International Journal of Progress in Electromagnetic Research C**, Vol.11, pp.69-79, 2009, ISSN: 1937-8718, **Impact Factor: 4.735**
www.jpier.org/PIERC/pierc11/07.09070903.pdf
- G.D. Makwana**, Deepak Ghodgaonkar, "Wideband Stacked Dielectric Resonator Antenna at 5.2 GHz", **International Journal of Electromagnetics and Application**, published by Scientific and Academic Publishing, USA, Vol.2, No. 3, pp. 41-45, May 2012. ISSN:2168-8045, , **H-Index: 21 (By SJR: Scimago Journal & Country Rank)**.
<http://article.sapub.org/10.5923.j.jjea.20120203.04.html> cited in 12 US patents: 1) US9667317 B2 (May 30, 2017), 2) US9674711 B2 (June 6, 2017), 3) US9385992 B2 (June 20, 2017), 4) US9705561 B2 (July, 11, 2017), 5) US9722318 B2 (Aug 1, 2017) 6) US9729197 B2 (Aug 8, 2017), 7) US9735833 B2 (Aug 15, 2017), 8) US9742462 B2 (Aug 22, 2017), 9) US9742521 B2 (Aug 22, 2017), 10) US9748626 B2 (Aug 29, 2017), 11) US97499053 B2 (Aug 29,2017)
- G. D. Makwana**, Deepak Ghodgaonkar. "Dielectric Resonator Antenna as a RFID Tag for Human Identification System in Wrist Watch", **International Journal on Smart Sensing and Intelligent Systems**, Vol. 6, No. 3, pp. 1153-1166, June 2013, ISSN: 1178-5608, **Impact factor: 0.82**, Published by Massey University, New Zealand, **H-Index: 13(By SJR: Scimago Journal & Country Rank)**, Index by SCOPUS, Engineering Village, Inspec Database, Chemical Abstracts, JournalSeek Database, DOAJ Directory of Open Access Journal, EBSCO.
<http://s2is.org/Issues/v6/n3/papers/paper19.pdf>.
- G.D. Makwana**, Deepak Ghodgaonkar, Sanjeev Gupta, "Investigation of a New Radiating Mode in Rectangular Dielectric Resonator Antenna: Experimental Validation", **International Journal of Microwave and Optical Technology**, Vol. 9, No. 6, pp. 309-316, July, 2014, ISSN: 1553-0396, **H-Index: 4 (By SJR: Scimago Journal &**

- Country Rank)** Index by SCI, SCOPUS, Google, EI-Compendex, EBSCO, ISI, Elsevier, Media Finder, **Journal Impact: 0.31**, <http://www.ijmot.com/VOL9NO4.ASPX>
5. **G.D. Makwana**, Deepak Ghodgaonkar, Sanjeev Gupta, “Dual mode and miniaturized rectangular dielectric resonator antenna with a simple feeding scheme”, **International Journal of RF and Microwave Computer-Aided Engineering**, Vol. 25, No. 3, pp. 229-235, March 2015, ISSN: 1099-047X, **Impact Factor: 0.524** & H-Index: 29 (By SJR: Scimago Journal & Country Rank)
<http://onlinelibrary.wiley.com/doi/10.1002/mmce.20853/pdf>
 6. Niru Desai, **G.D. Makwana**, ”Space diversity for wireless communication system- A Review”, **International Journal of Engineering Science and Innovative Technology**, Vol. 2, Issue 03, pp. 405-410, March, 2013. ISSN: 2319-5967.
 7. Jay S. Sharma, **G.D. Makwana**, “Intelligent Crop Management System for Greenhouse Environment”, **International Journal of Science and Research (IJSR)**, Vol. 2, No. 4, pp. 205-208, April, 2013, ISSN: 2319-7064, **Impact factor: 6.39**.
 8. Rushit K. Chokashi, **G.D. Makwana**, “Digital Watermarking: Techniques, Applications, Attacks”, **International Journal of Engineering Development and Research**, Vol, 1, No. 3, pp.1-5, December- 2013, ISSN: 2321-9939, **Impact factor: 4.98**.
 9. B. J. Dave, **G.D. Makwana**, “A review on design, development and performance analysis of the vacuum feedthrough for ADITYA Tokamak”, **International Journal of Engineering Development and Research**, Vol. 2, No. 1, pp. 225-229, 2014, ISSN: 2321-9939, **Impact Factor: 4.98**
 10. Rushit K. Chokashi, **G.D. Makwana**, “Comparative Analysis of Digital Image Watermarking using DCT and DWT”, **STM Journals, Journal of Communication Engineering and Systems**, Vol-4, No 1, pp. 359-363, April-2014, ISSN: 2249-8613.
 11. Hardik B. Patel, **G. D. Makwana**, “Design and Simulation of Compact Wideband Rectangular Dielectric Resonator Antenna using Double Metallic Strips for Ku-Band Applications”, **Journal of Microwave Engineering & Technologies**, Vol. 1, No. 1, pp. 11-20, May 2014, ISSN: 2349-9001.
 12. Hardik B. Patel, **G. D. Makwana**, “Design and simulation of compact wideband rectangular dielectric resonator antenna for satellite applications”, **International Journal for Scientific Research & Development**, Vol. 2, No. 09, pp. 198-202, 2014, ISSN: 2321-0613, **Impact Factor: 2.39**.
 13. Yogi Mayuri, **G.D. Makwana**, “A review on dual narrowband in dielectric resonator antenna”, **International Journal of Advanced Technology in Engineering and Science**, Vol. 3, No. 01, pp. 1321-1325, March 2015, ISSN: 2348-7550, **Impact Factor: 2.87**.
 14. Patel Rutu M, **G. D. Makwana**, “Wideband monopole/dielectric resonator antenna- a review”, **International Journal of Advance Research in Science and Engineering**, Vol. 4, No. 1, pp. 1224-1230, March 2015, ISSN: 2319-8354, **Impact Factor: 2.87**.
 15. Janki H. Patel, **G.D. Makwana**, “Study, simulation and implementation of coarse and fine delay for satellite link emulation”, **International Journal for Scientific Research & Development**, Vol. 3, No. 4, pp. 1515-1520, 2015, ISSN: 2321-0613, **Impact Factor: 2.39**.
 16. Chaudhary Nikita, **G.D. Makwana**, “Bandwidth improvement of rectangular dielectric resonator antenna”, **International Journal for Scientific Research & Development**, Vol. 3, No. 4, pp. 147-149, 2015, ISSN: 2321-0613, **Impact Factor: 2.39**.
 17. Halak Upadhyay, **G.D. Makwana**, “Hybrid dielectric resonator antenna using cylindrical and conical shaped ring resonator excited by a monopole for improve ultra-wide bandwidth”, **International Journal for Scientific Research & Development**, Vol. 4, No. 2, pp. 1911-1913, April, 2016, ISSN: 2321-0613, **Impact Factor: 2.39**.
 18. Chaudhary Jagdish, **G.D.Makwana**, “Miniaturize microstrip patch antenna with DGS technology ”, **International Journal for Scientific Research & Development**, Vol. 4, No. 4, pp. 1046-1049, 2016, ISSN: 2321-0613, **Impact Factor: 2.39**.
 19. Jaykumar G. Patel, **G.D.Makwana**, “Investigation of oversized wave transport system for microwave reflectometry for SST-1 Tokamak”, **International Journal for Scientific Research & Development**, Vol. 4, No. 3, pp. 1702-1706, 2016, ISSN: 2321-0613, **Impact Factor: 2.39**
 20. Kirankumar A. Solanki, **G. D. Makwana**, “Study and Analysis of Microstrip Patch Array at 12 GHz for 5G Applications”, **Journal of Electronics and Communication Systems**, Vol. 3, No. 3, pp. 1-10, March, 2018
 21. Seema M. Soni, G. D. Makwana, “Multiband Microstrip Patch Array Antenna for 5G Communication”, **Journal of Applied Science and Computations**, Vol. 6, No. 4, pp. 2142-2152, April, 2019, ISSN: 1076-5131.
 22. Devendra H. Patel, **G. D Makwana**, Multiband Antenna for 2G/3G/4G and Sub-6 GHz 5G Application using Characteristics Mode Analysis, **Progress In Electromagnetics Research M**, Vol. 115, 107-117, 2023
 23. Devendra H. Patel. **G. D. Makwana**, Multiband Antenna for GPS, IRNSS, Sub-6GHz 5G and WLAN Applications, **Progress in Electromagnetics Research M**, Vol. 116, 53-63, 2023, Index – WoS
 24. Devendra H. Patel. **G. D. Makwana** , A Comprehensive Review on Multi-band Microstrip Patch Antenna Comprising 5G Wireless Communication, **International Journal of Computing and Digital Systems**, No.1, 941-953 (Feb-2022)

25. Pravin Dalvadi¹, Amrut Patel², D. H. Patel³, **G. D. Makwana**, Design of Wideband Bowtie Antenna using Tapered Balun for Industrial, Scientific and Medical Band Application, **International Journal of Information Technology and Electrical Engineering**, Volume 10, Issue 3, June 2021

Conference Proceeding/ Publications

1. **G.D. Makwana**, K.J. Vinoy, "A Microstrip line fed Rectangular Dielectric Resonator Antenna for WLAN Application" , Presented at **IEEE International Symposium on Microwave**, Dec.2008, pp. 299- 303, Bangalore
2. **G.D. Makwana**, K. J. Vinoy, "Wideband microstrip fed stacked rectangular dielectric resonator antenna for WLAN applications" Presented at **The 2009 International Symposium on Antenna and Propagation-(ISAP 2009)**, 20-23 October'2009, Bangkok, Thailand, pp. 963-966,<http://ap-s.ei.tuat.ac.jp/isapx/2009/pdf/1332.pdf>
3. **G. D. Makwana**, Deepak Ghodgaonkar. "Dielectric Resonator Antenna as a RFID Tag for Human Identification System in Wrist Watch" **Proceeding of 6th International Conference on Sensing Technology (ICST-2012)**, 18-21, December, 2012, pp. 238-242 organized by Massey University, New Zealand & C-DAC, Kolkata, **published in IEEE Explore with an IEEE catalog number (CFP1218E-CDR) and ISSN (978-1-4673-2254-4)**.
4. Harshil S Patel, **G. D. Makwana**, "Analysis & performance improvement of various routing protocols for ad hoc network", **Proceeding of National Conference on Innovative & Emerging Technologies (NCIET-2013)**, pp. 416-420, ISSN 978-81-925650-0
5. **G.D. Makwana**, Deepak Ghodgaonkar, Narrowband square dielectric resonator antenna, Presented at **International Workshop on Antenna Innovations and Modern Technologies (iAIM- 2015)**, 26-27 December, 2015 Organized by IEEE AP/MTT Gujarat Chapter, IEEE Gujarat Section, Ahmadabad
6. **G. D. Makwana**, Jaykumar G. Patel "Investigation of power efficient oversized waveguide at 26.5 GHz to 40 GHz for plasma measurement" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-104 to EC107.
7. **G. D. Makwana**, "Effect of substrate's height on rectangular dielectric resonator antenna" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-001 to EC-004.
8. Rutu Patel, **G.D. Makwana**, "Wideband monopole/dielectric resonator antenna – A review", presented at **International Conference on Recent Trends in Engineering Science and Management** on 15th March, 2015, ISBN: 978-81-931039-2-0, Jawaharlal Nehru University, New Delhi.
9. Yogi Mayuri, **G.D. Makwana**, "A review on dual narrowband in dielectric resonator antenna", presented at **International Conference on Recent Trends in Engineering Science and Management** on 15th March, 2015, ISBN: 978-81-931039-2-0, Jawaharlal Nehru University, New Delhi.
10. Pankaj P. Chaudhary, Deepak Ghodgaonkar, Sanjeev Gupta, **G. D. Makwana**, "Design of circularly polarized rectangular dielectric resonator antenna with finite ground planes for navigational satellite applications", Presented at Antenna Test & Measurement Society (ATMS), India, 6-8 February, 2017, Hyderabad, India
11. Maulik b. Rami, **G. D. Makwana**, "A review on Antenna for 5G Networks" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-074 to EC-077
12. Hardik S. Patel, **G. D. Makwana**, "Design of ultra wide band microstrip patch antenna for wireless application" Proceeding of International Conference on Technology and Management (ICTM-2017), 17-18 February, 2017 organized by S. P. College of Engineering, Visnagar, Gujarat, ISBN: 978-93-5267-370-4, pp. EC-025 to EC-027
13. Pankaj P. Chaudhary, Deepak Ghodgaonkar, Sanjeev Gupta, **G. D. Makwana**, "Design of Compact Circularly Polarized Rectangular Dielectric Resonator Antenna with WBLC for Navigational Satellite Applications", 2nd International Conference on Antenna Innovations & Modern Technologies for Ground, Aircraft and Satellite Applications, during 24-26 November, 2017, Bangalore, India & Published in IEEE Explore with catalog number 978-1-5386-0646-9/17, 2017.
14. Grishma Jani, **G. D. Makwana**, Shailesh D. Panchal, A Comparative Survey of Multiband Planar Antennas Comprehending Emerging 5G Wireless Communication Trends, 2nd Multidisciplinary International Conference: GTU-ICON, 2022, 221-238, September, 2022.
15. Devendra H. Patel, **G. D. Makwana**, Triple-band Antenna for GPS, Sub-6 GHz 5G, and WLAN Wireless Application, Presented at Wireless Antenna & Microwave Symposium (WAMS- 23), June 07-10, 2023, Pandit Deendayal Energy University, Gandhinagar, India, to be published in IEEE Explore

Research Projects Undertaken

Sr. No	Title/ Subject of Research Project(s)	Whether major or minor project	Date of Commencement	Date of Completion	Total Grants / Funding received (Rs.)	Name of Sponsoring / Funding Agency
1	Ultra Wide Band Dielectric Resonator Antenna (DRA)	*Major	12 th January, 2015	30 th June, 2017	11,65,000/-	ISRO RESPOND Project 119 With Ref. No. ISRO/RES/3/665/2014-15 dated July, 16,2017
2	Investigation, Analysis of Multiband Array Antennas for 5G Mobile Handset in IoT Application	**Major	16 th September, 2020	15 th September, 2023	20,70,000/-	GUJCSOT/2020-21/1262 dated 16 th September, 2020

** As a Principal Investigator, * Involved as a researcher,

Research Guidance: Number of scholars who have been awarded M.E./Ph.D. degree or Guiding M.E/Ph.D under my supervision

Name of Degree	Guiding	Awarded
(i) M.E Degree	02	24
(ii) Ph.D Degree:	02	-NA-

Granted Conducted and Activities organized (Conference/Workshop/seminar/)

No	Activity Type	Approved / Sponsored	Title	Duration	Sponsorship (If Any)
1	National Conference	GUJCOST, Gandhinagar	National Conference on Technology and Management (NCTM-2012)	20-21 January, 2012	Rs. 75,000/-
2	National Workshop	Automation System Pvt. Ltd., Ahmedabad	Workshop on RF/Microwave Fundamentals and FPGA	21 st April, 2012	Rs. 25,000/-
3	Workshop	IIT, Kharagpur	Two week ISTE Workshop on Signals & Systems	02-12 Jan. 2014	Rs. 1,83,500/-
4	National Workshop	GUJCOST	National Workshop on Android Application Development for Health Sector	26-28 March, 2015	Rs. 50,000/-
5	Youth Festival	GTU, Ahemdabad	Xitij-2014, GTU Youth Festival Gandhinagar Zone	17-19 Sept. 2014	-----
6	International Conference	SPU, Visnagar	1 st International Conference on Technology and Management (ICTM-2017)	17-18 February, 2017	-----
7	State Level Technical Festival	SPU, Visnagar	DST-GIL sponsored 6 th State level Technical Festival – “TECHENIGMA-2018”	20-21, February, 2018	Rs. 50,000/-

OTHER INTERACTION

Membership/Fellowship of other institutions/professional societies:

1. Member, Optical Society of America (OSA), 2008-2009, Type: Annual
2. Life Member, Indian Society of Technical Education, Type: Time Bound, since 2002
3. Student Member, IEEE, 2007-2009, Membership No. 90551353, Type: Time Bound
4. Member, IEEE MTT/AP Bangalore Chapter, IISc, Bangalore, 2008-2009, Type: Time Bound

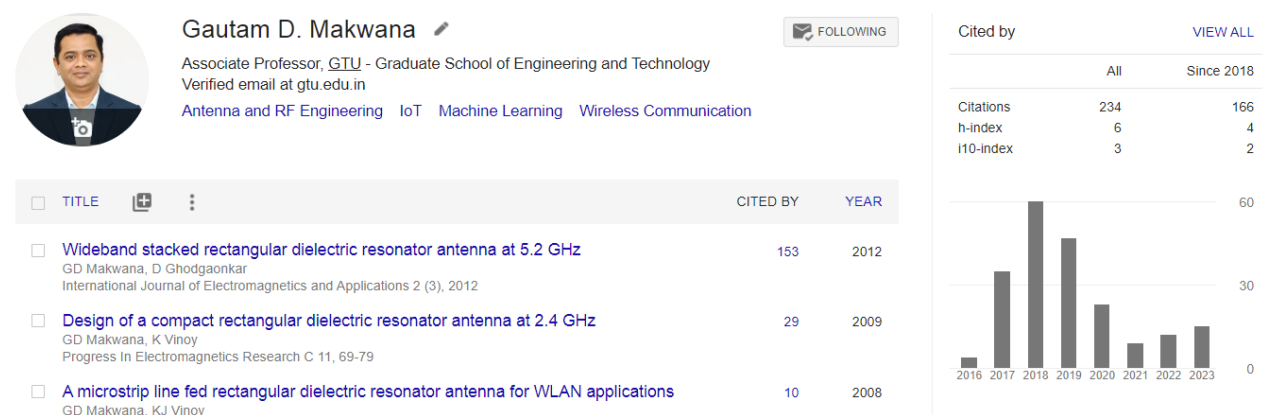
Serving as a Reviewer of following peer-reviewed international Journals

1. International Journal of Progress in Electromagnetic Research (PIER) Impact Factor: 5.298
2. International Journal of Electromagnetic Wave Application (JEMWA), Impact Factor: 2.96
3. International Journal of Electronics and Communication (Elsevier), Impact Factor: 0.588
4. International Journal of Infrared, millimeter, and Terahertz Waves (Springer), Impact Factor: 0.738
5. National Conference on Communication (NCC) jointly organized by IIT and IISc
6. Serving as reviewer for International Journals of Wireless Sensor Network, Published by Scientific Research, ISSN (online) : 1945-3086
7. Journal of electromagnetic Waves and Application, Impact Factor: 0772
8. International Journal for Innovative Research in Science and Technology, ISSN (online) 2349-6010
9. International Conference on Technology and Management (ICTM-2017) organized by SPCE, Visnagar
10. 1st International Conference on Intelligent Computing (ICIC-2018), organized by Amrita School of Engineering, bengaluru

Invited Lectures:

1. Rectangular dielectric resonator antenna, TEQIP-II sponsored National Workshop on “Emerging Trends in Electromagnetics & Its Applications, Vallabh Vidyanagar, March, 2017.
2. Intellectual Property Rights: Basics & Concepts, Ph.D. Course Work: Research Methodology & Statistics at Sankalchand Patel University, Visnagar, 9th March, 2019
3. Intellectual Property Rights: Basics & Concepts, Ph.D. Course Work: Research Methodology & Statistics at Sankalchand Patel University, Visnagar, 8th June, 2019.
4. Seminar on Sensitization of Student Startup and Innovation Policy at Sankalchand Patel College of Engineering and Shri. C. J. Patel College of Computer Studies, Visnagar on 24th June, 2019 (Computer), 28th June, 2019 (BCA), 8th July, 2019 (Electrical), 9th June, 2019 (Mechanical) and 10th July, 2019.
5. Webinar on “Perspective of Design Antenna for 5G Technology” organized by Electronics & Communication Engg. Department, Government Engineering College, Bhuj on 10th June, 2020.

Citation report of publications



Place: Ahmedabad

Sd/-
(Dr. Makwana Gautam Durlabhji)

Pradeep Kumar Gupta

Role : Heading Design Centre, Testing Laboratory(R&D) & Factory Quality
Domain : Energy Meter, Switchgear, UPS, Electro magnetism, Project management, Product testing
Organisation : Socomec India (P) Ltd
Present Location : Gurgaon, Haryana, India
Address : 604, Sanskriti Apartment, Sector-10A, Gurgaon -122001
Mobile : +91 9999 310 247
Email : p_gupta_66@yahoo.com

SUMMARY OF EXPERIENCE

An Electrical Engineering **Post Graduate** in Power System Engineer (Roorkee) and **MBA** in business management along with **32+ years** of working experience from Electrical and Electronics Design industrie. Expertise in the areas of **Energy Metering, Energy management, Switchgear Design, High power UPS, Embedded design, Protection system (relays), Test Software Development(Delphi & LabView), Quality control, Test Automation, Product testing and certification, Magnetic Research & Development, Offshore/In house project management, Design of various types of Current and Potential Transformer, Electrical Test laboratory setup, People Management and Technical trainings.**

Currently working as a Head of Design Centre, Testing Laboratory and Manufacturing Quality in Socomec India an ISO 9000 certified Company.

Organisation: - 1. Secure Meters Limited, UDAIPUR. Please follow the company link for more details, <https://www.securemeters.com>
2. Socomec S.A., Rue de West house, 67230 Benfeld (France), please follow the link for company details, www.socomec.com
3. Socomec India (P) Ltd, 756, Pace City-II, Sector 37 Gurgaon (Subsidiary of Socomec S.A. France), please follow the link for company details, www.socomec.co.in

Area of Expertise:

- Energy metering domain skills.
- Switching and Protection domain skills
- UPS design and Test skills
- Software skills(C/C++, Delphi, low level, LabView).
- Off shore and In house project management.
- Design of magnetic systems, including CT/PT.
- Embedded design and programming.
- Setup and Management of metering, switch gear & UPS test laboratory
- Project Management skill

Please see details of skills appended below

Area of Expertise:

Metering:

- ◆ Proficiency in Electronics Energy meter design, programming and testing.
- ◆ Good knowledge of various kind of metering like Four Quadrant, Import-Export, Frequency based, TOD, Prepayment, Smart, Summation, Demand Controller, data center metering etc
- ◆ Thorough knowledge of various metering standards, IEC, EN, IS, ANSI etc.
- ◆ Knowledge of various metering IC's and controller from Analog Device, Microchip etc
- ◆ Knowledge of Various communication devices e.g. RS232, RS 422, RS485, Ethernet, MMCI (multi meter communication interface), CAN etc and Communication protocol e.g. PACT, JBUS/MODBUS, PROFIBUS, M-BUS etc.
- ◆ Proficiency in product testing including reliability testing for product failure and life prediction. Reliability testing for various electronic components.
- ◆ Design and testing of various types of metering CTs.
- ◆ Basic Embedded programming knowledge C/C++.
- ◆ Programming knowledge for various kind of testing software's using DELHI, LABVIEW.
- ◆ Software development knowledge for Energy Meter calibration, Current transformer segregation on the basis of errors etc.

Energy Management(Efficiency) :

- ◆ Implementation and handling of energy management project in MP electricity funded by PFC.
- ◆ Very good knowledge of selection of load points, data analysis and result presentation.
- ◆ Knowledge of various analysis tools used for energy managements.
- ◆ Knowledge of long distance data communication through PLCC, GPS and Radio Modem etc.
- ◆ Implementation and Execution of Energy Management programs in industries e.g. Cement Industries.

Switching and protection system:

- ◆ Designing of low voltage Load break switch, Changeover switch and Fuse based switch from 63A to 2500A.
- ◆ Knowledge of various applicable switching standards like IEC(60947...), EN(60947...), IS etc
- ◆ Design of protection systems like earth leakage relay, insulation monitoring device.
- ◆ Design of core balance current transformer form 15mm to 300mm diameter of toroidal, rectangular and open type.
- ◆ Qualification of various switch as per applicable standards as mentioned above
- ◆ Design and testing of protection CTs.
- ◆ Study of various types of micro-controller for use with protection devices from Philips, National semiconductor, Mitsubishi, Atmel, Renesas etc.
- ◆ Test automation for in house testing of various kind of automated/motorised on load changeover switch up to 4500A.

UPS :

- ◆ Designing understanding of 60-200kVA UPS.
- ◆ Knowledge of various applicable UPS standards.
- ◆ Test LAB and factory acceptance test Laboratory setup and management (Up to 1.2MW)
- ◆ Good knowledge of failure analysis

Software skill:

- ◆ Good knowledge of Delphi & LabVIEW- developed various testing, design and simulation software's in Delphi.
- ◆ Embedded programming, worked with COP8, 8153 micro-controller. Worked with specific metering low level language for development of testing software.
- ◆ Good knowledge of simulation software's like Maxwell2D, Flux2D, Flux3D, MathCAD, MathLab and Lab View etc.

Off shore and In house project management:

- ◆ More than three years worked as a branch in-charge and dealt with Electricity board and various types of Industrial customers. This work has provided me an opportunity to develop effective leadership style. Here I was constantly in touch with development team and explored the possibility of development of various kind of products like Predictive demand Controller, Remote metering using PLCC etc. Here worked with MP Electricity Board in their prestigious project i.e. “ENERGY MANAGEMENT “funded by Power Finance Corporation.
- ◆ Management of project for design of 1module and 3Ph energy meters from France through Indian subsidiary.
- ◆ Management of various offshore software development programs, billing software, power line diagram software etc. from France to India.
- ◆ Design, development and implementation of current transformer, Motorised change over switch and other small projects.
- ◆ Carry out lead role in technologies transform from France to India for manufacturing of energy meter.

Design of magnetic systems, including CT/PT:

- ◆ Electromagnetic design and simulations. Design of various kinds of current transformer, magnetic shielding, differential CTs, Actuators and electromagnetic switches.
- ◆ Software simulation(Using flux 2D and 3D) of various types of actuators for use in change over switch.
- ◆ Design and simulation of various kinds of internal metering current transformers.
- ◆ Simulation of Electromagnet design using FLUX 2D/3D for end use in automated changeover switch

Embedded design and programming:

- ◆ Embedded programming with special metering controller “CALMU”, credit and load management unit.
- ◆ Study of various type of micro-controller and programming with COP8 and 8153 micro-controller.
- ◆ Team member of design of specific metering ASIC.

Setup and management of Electronic and Electromechanical test laboratory

- ◆ Good knowledge and experience of setting up test laboratory for electronic testing like energy meter, Electronic product, differential relays, switching....
- ◆ Start from building to setup test laboratory for switching products as per IEC 60947-1, 3 and 6.
- ◆ Developed good relations with external test laboratories to carry out the testing of various metering and switching products(CPRI, ERDA, ERTL, YMPL....)
- ◆ Manage the team of more than 20 people's, expert in different area of design, development and testing.

Management skill

- ◆ Budget preparation and implementation.
- ◆ Planning, time and cost management
- ◆ People management.
- ◆ Problem solving and Decision making
- ◆ Work delegation
- ◆ Formulation and implementation of company policy as required in middle level management.
- ◆ Design and implementation of Safety policy

TECHNICAL PAPERS :

1. Remote meter reading using power line carrier communication system. (Electrical India).
2. Reliability of electronic components (Internal, testing).
3. Current transformers for metering application (Internal, design).
4. Software based linear and non-linear error correction (Internal, Software dept.).
5. Understanding harmonics (Internal, marketing).
6. Short circuit testing of switching product.
7. Testing of power transformer for UPS
8. Basic metering

EDUCATION :

Bachelor of Engineering (Electrical Engg.) from Govt. Engineering College, Jabalpur (M.P.) – 75.5%(Hons)
Master of Engineering (Power System, Electrical Engg.) from Roorkee University(India), 74.6%.
MBA (Master of Business Administration) IGNOU Delhi., Grade - B
A Course in C/C++ from CMC.

COMPANY PROFILES

SOCOMECA INDIA (P) LTD. 756, Pace City-II, Sector-37 Gurgaon, 122001 (India)

July 2007 – Present

Socomec India is a 100% subsidiary of Socomec S.A. Benfeld(France), Socomec India has started their business with the manufacturing of Switching products with R&D division for Switching and Electronic products.

Position Held: Test Laboratory Head, Head of Design Centre + Laboratory, Head of development, Test and Quality control

SOCOMECA S.A. 1-4 Rue De Westhouse BP-10, 67230 Benfeld (France)

November 2000 – July 2007

Socomec is a well known name in the field of Control & protection system and UPS. The total turnover is Approx. €750 Million. Socomec has worldwide presence and operate with more than 15 subsidiaries and 150 offices.

Position Held: Project in charge cum Research Engineer, Project Manager.

SECURE METERS LTD. E-Class Industrial Area, Pratap Nagar Udaipur (Raj.), 313 003 India

September 1991 – October 2000

Secure Meters, the flagship company of Entity Group, is India's leading energy metering company. Entity Group is a \$ 200 million global business group with a major focus on Energy Metering Systems and Solutions. Since introducing the country's first electronic meter way back in 1988, Secure Meters has come a long way in becoming the face of emergent India in the world. Secure Meters today is present in 11 locations across the world and doing business with more than 50 countries.

Position Held : Executive, Sr. Executive and Assistant Manager.

LANGUAGE KNOWN : Hindi, English, French.

I here by declare that all the information given above is correct to the best of my knowledge.

(Pradeep Kumar Gupta)