

Name: Dr. Sasanka Mouli S.

Designation: Assistant Professor
Department: Civil Engineering
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Experience (in years): 5 years Teaching: 2 Research: 3 years
Others (if any, specify): 1.5 years (field experience)

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Tech (NIT Warangal)	2009	Civil Engineering
2	M.Tech. (IIT Hyderabad)	2019	Geotechnical Engineering
3	Ph.D. (IIT Hyderabad)	2019	Civil Engineering

2. Teaching and Learning:

- 2.1. Teaching Interests: Advanced Foundation Engineering, Geosynthetics and soil reinforcement, Stability analysis of slopes, Solid waste management, Geotechnical studio lab, Engineering Geology lab, Research Methodology and IPR.
- 2.2. Novel Teaching & Learning Techniques adopted:
 - 2.3. Involvement in curriculum updating / Design: R20 M.Tech syllabus (GTE) and BTech syllabus

3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: Dancing, yoga and listening spiritual discourses
- 3.2. CCA/ECA Organized:
- 3.3. CCA/ECA participated:
- 3.4. Counselling and Mentoring Activity: 20 students
- 3.5. Committees involved in:
 - Department level: Special Interest Groups
 - Institute Level:

4. Conference / Workshop / Seminar / Guest Lectures :

- 4.1 Conducted:
 - 4.2 Attended:
 - Symposium on Geo-practices on 21st Nov, 2019
 - Symposium on Geo-practices on 23rd Oct, 2018
 - Symposium on Geo-practices on 14th Oct, 2017
 - Workshop on Geo-Disasters: Ground and Slope Instability in OCT 2016
 - Workshop on Ground Improvement & Geosynthetics in AUG 2015
 - Workshop on Geo-practices – (under Centre of Excellence Disaster Management) in FEB 2015
 - 5 day GIAN Course on Unsaturated Soil Mechanics- IIT Hyderabad, Dec 2019

5 day Faculty Development Program on “Foundation of critical civil infrastructures- Theory to Design”

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Two as invited lecture, One as resource person-

- Delivered an expert lecture on “Numerical Modelling of Mechanically Stabilized Earth retaining (MSE) walls” in AICTE Sponsored Two Week Online Faculty Development Program on “Advanced Computing in Civil Engineering (ACCE)” Series-2: "Numerical Modelling in Geotechnical Applications, Hydrology and Environmental Quality Monitoring”
- Delivered a talk on “Back-to-back Reinforced Retaining Wall” in Geopractices 2019, IGS Hyderabad Chapter
- Resource person for the 2-day Training program on “Geostudio for various geotechnical applications” conducted by RVRJC Guntur in 2019

5.2. Articles / Chapters published in Books: 1 book chapter

5.3. Books published as single author or as editor: Nil

5.4. Projects Guided:

a) UG: 1 team b) PG: 3 students ongoing

5.5. Research Interests: numerical modelling in geotechnical engineering, soil reinforcement, slope stability analysis, Granular piles, seismic response analysis of fly ash ponds.

5.6. Ph.D students : Nil

a) Enrolled : b) Submitted : c) Awarded :

5.7. Papers published in reviewed journals:

S.No	Title of the Paper	Journal Name Vol. No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Behavior of Connected and Unconnected Back-to-Back Walls for Bridge Approaches	International Journal of Geomechanics, ASCE, Issue 7, Vol. 20	doi: 10.1061/(ASCE)GM.1943-5622.0001692		International
2	Site characterization of existing and abandoned coal ash ponds using shear wave velocity from Multichannel Analysis of Surface Waves (MASW),	Journal of Geotechnical and Geoenvironmental Engineering, ASCE	doi: 10.1061/(ASCE)GT.1943-5606.0002366.		International
3	Geogrid Reinforced Flexible Pavements- Sustainable Design Approach from Indian Perspective, Innovative Infrastructure Solutions	Transportation and Transit systems, Journal Frontiers in Built Environment Vol. 6 No. 71.	doi: 10.3389/fbuil.2020.0071.		International
4	Analysis of single and back-to-back reinforced retaining walls with full-length panel fascia	Geotechnical and Geological Engineering, Springer,	doi: 10.1007/s10706-020-01435-x.		International
5	Behavior and Design of	International Journal	doi:10.1007/s40891-		International

	Back-to-Back Walls Considering Compaction and Surcharge Loads	of Geosynthetics and Ground Engineering. Issue 5, Vol. 31	019-0180-z.		
6	Interference of two closely-spaced footings on finite sand layer.	Geotechnical Engineering Journal of the SEAGS & AGSSEA, Vol. 49, No. 1 March 2018,	ISSN 0046-5828.		International

5.8. Papers presented at National / International Conference:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Design of Core of Earthen dam by replacement with Geosynthetics	Indian Geotechnical Conference 2020 Visakhapatnam	National	2020
2	A Review Paper on Geosynthetic Reinforced Soil Walls with Full-Height Panel Facing	ICCMSSSD 2020, Hyderabad	International	Jan-2020
3	Effect of Wall Facia on the Behavior of MSE walls	ICCMSSSD 2020, Hyderabad	International	Jan-2020
4	Dynamic characterization of Coal Ash Lagoon using Multichannel Analysis of Surface Waves (MASW),	7 th International Conference on Earthquake Geotechnical Engineering, Roma	International	July-2019
5	Numerical modelling of geosynthetic-reinforced unpaved roads using FLAC 2D,	11 th International Conference on Geosynthetics, ICG, Seoul, Korea.	International	Sept-2018
6	Effect of test box dimensions on axial pullout response of reinforcement	Indian Geotechnical Conference, IGC 2017-GeoNEst, Guwahati.	National	Dec-2017
7	Effect of compaction stresses on performance of back-to-back retaining walls	19 th ICSMGE, Seoul, Korea	International	Sept-2017
8	Reinforcement tensile forces in back-to-back retaining walls,	Indian Geotechnical Conference (IGC-2016) Chennai	National	Dec-2016
9	Lateral earth pressure analysis of back-to-back retaining walls,	Indian Geotechnical Conference (IGC-2015) Pune.	National	Dec-2015
10	Interface properties of metal-grid and geogrid reinforcements with sand.	IFCEE, ASCE	International	March-2015
11	Settlement of embankment constructed with geofoam.	IFCEE, ASCE	International	March-2015
12	Lateral earth pressure analysis of back-to-back retaining walls.	Indian Geotechnical Conference (IGC-2014) Kakinada.	National	Dec-2014
13	Numerical analysis of MSE walls considering wall friction and reinforcement stiffness	14 th IACMAG, Japan	International	Sept-2014

14	Planning and Management of Civic Amenities in Rural Areas Using GIS and GPS Techniques	All India Seminar on “GIS for Civic Amenities.”	National	2009
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5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
	Nil				

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed
	Nil				

6. Awards / Honors received:

- Won Research Excellence award in IIT Hyderabad for the year of 2016, 2017
- Worked as a yoga trainer for the Yoga Week for 5 consecutive years at IIT Hyderabad
- Worked as a student counsellor for PG students in Sunshine for 3 consecutive years at IIT Hyderabad

7. Motto:

To establish myself in the field of research and academics to utilize my skills, values, and experience to help society to achieve a better quality of life.