

Faculty Profile

(Provide the information for last five years from 2020-21 to 2024-25)

1. Name of the faculty : Dr Syed Abu Sayeed Mohammed
2. Name of the Department : Civil Engineering
3. Present position : Assistant Professor
4. Educational qualifications : Ph.D.,M.E., B.E. PGDEL (NLSIU)

(Degree onwards)

Degrees	Class/ Grade	University/ Institution	Stream Regular/ Distance	Year of award
Ph.D.	Degree By Research	Visvesvaraya Technological University (VTU) – Belagavi/ BMS College of Engineering	Geoenvironmental Engineering/ Regular	2012
PG Degree	1st Class	Dr. Manmohan Singh University (formerly Bangalore University) / BMS College of Engineering	Environmental Engineering / Regular	2000
UG Degree	1st Class	Dr. Manmohan Singh University (formerly Bangalore University) / BMS College of Engineering	Civil Engineering / Regular	1997
Other/s	Post Graduate	National Law School India University	Environmental Law/ Regular	2024

	Diploma in Environmental Law (PGDEL)	(NLSIU)- Bengaluru		
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5. E-mail and contact number : syed.cv@drait.edu.in
6. Date of Joining the Institute : 13-08-2024
7. Total teaching experience : 25 years (Mention in Reverse chronological order)

Year		Designation	AICTE Approved Institutions	Dr. AIT	Academic- Administrative Responsibility held
From	To				
13-08-2024	Till date	Assistant Professor	YES	Dr Ambedkar Institute of Technology	R& D Coordinator, NBA coordinator, IQAC member
03-10-2000	12-08-2024	Professor and Head, Dept. of Civil Engineering	YES	HKBK College of Engineering	HOD, NAAC – owner of Cr-3, Research head of Dept.

8. Specialization : Civil, Environmental Engineering and Geoenvironmental Engg
9. Courses taught : Basics of waste mgmt., Innovative design Thinking, Research Methodology and IPR, Environmental Studies, Integrated solid waste
10. Research experience : 13 years
11. Major research projects completed: Title of the project, Date of sanction and Duration, Grant received, Funding agency. PI or Co-PI.

Academic Year	Major Project Title	Date of Sanction	Funding agency	Duration	Sanctioned Amount	Grant Received	PI or Co-PI	Outcome of the Research
2024-25	NIL							
2023-24								
2022-23								
2021-22								
2020-21								

12. Minor research projects completed: Title of the project, Date of sanction and Duration, Grant received, Funding agency. PI or Co-PI.

Academic Year	Minor Project Title	Date of Sanction	Funding agency	Duration	Sanctioned Amount	Grant Received	PI or Co-PI
2024-25	NIL						
2023-24							
2022-23							
2021-22							
2020-21							

13. Guidance / Supervision

- i) Number of students successfully awarded Ph.D. degree: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of Ph.D. degree.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Date of Declaration of PhD
1	1HK17PCA01	Dr Mohammed Abdul Lateef	Efficacy of EICP (Enzyme induced calcite precipitation) techniques for tropical soils – Geotechnical and geoenvironmental applications.	13.02.2017	HKBKCE/ VTU- Belagavi	04.01.2022

- ii) Number of students registered for Ph.D. degree: Name of the student, topic of research, Research Centre/University, date of registration.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Status
1	1DA24PCV03	Shreyas HC	Enhancing irrigation water management with the assessment of crop water	31.05.2025	Dr Ambedkar Institute of Technology/ VTU- Belagavi.	On going

			requirement for two major crops grown in Malavalli taluk.			
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- iii) Number of students awarded M.Tech by Research: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of M. Tech. degree.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Date of Declaration of M. Tech
		NIL				

14. Participation in conferences, symposia, seminars and workshops: International, national, state or university level, attended. Presented paper, chaired session. Resource person.

International Conference			
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2020-21	NIL		
2019-20			
2018-19			
2017-18			
2016-17			
National Conference			
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2024-25	NIL		
2023-24			
2022-23			
2021-22			
2020-21			

Symposia/ Seminars/ Workshops						
Sl.No	Academic Year	Title	Symposia/ Seminars/ Workshops	Venue and Date	Inter national/ National/ State/	Attended/ Presented

					University Level	
1.	2024-25	NIL				
2.	2023-24					
3.	2022-23					
4.	2021-22					
5.	2020-21					

15. Innovative processes developed in teaching and learning:

Implementation and preparation of innovative teaching–learning methodologies (excluding common methods such as PPTs, flipped classrooms, quizzes, etc.) over the last **five academic years**.

Sl.no	Academic year	Odd/Even Sem	Course	Short description of the Activity	Remarks
1.	2024-25	Odd	ETT1054 Basics of waste Mgmt.	Review of Draft solid waste Mgmt rules 2024 written to the MOEFF – Govt of India from Students and faculty	The MOEFF&CC – Govt of India released the draft Solid waste mgmt. 2024 rules to be amended the faculty inspired the student for discussing clause wise the draft rules and jointly prepared a report and submitted it to MOEFF&CC
2.	2024-25	Odd	22RMT 508	Apart for regular	

			Research Methodology & IPR	class students were taught how to use Zotero software and were made to use hands on experience in preparing references and citations using this Zotero software.	
3.	2024-25	Odd	22CVT 507 Environmental Studies	Understand the interdisciplinary nature of environmental studies and its importance in addressing global and local environmental challenges. sustainable future. In this regard the teaching process was directed towards the present Indian scenario and the changes taking place in the Indian context in terms of Environmental regulation and jurisprudence.	Law (PGDEL) from National Law school India University (NLSIU)- Bengaluru, in 2024, this course mentored me to teach this subject with a better perspective
4.	2024-25	Odd	IDT 108 Innovation and design Thinking	To explain the concept of design thinking for product and	Since it was a one credit course, my vast

				service development. To explain the fundamental concept of innovation and design thinking. To discuss the methods of implementing design thinking in the real world.	experience in teaching helped to convey this subject in a better way to students.
5.	2024-25	Even	22CVT607A Introduction to Technical paper writing	Apart for regular class, four SCIE papers were given to students and made to do an analysis with the principles taught in the subject.	
6.	2024-25	Even	22CVT604A Integrated solid waste Mgmt, (Open Elective)	Apart for regular class, students from different branches have taken this subject a special study for each student on waste mgmt. in different cities of the world were given to students and made to do an analysis with the principles taught in the subject.	

16. Participation in curricular development:

Sl.no	Academic year	Odd/Even Sem	Course	Short Description of the Course Content
1.	2024-25	NIL		
2.	2023-24			
3.	2022-23			
4.	2021-22			
5.	2020-21			

17. Participation in co-curricular and extra-curricular activities:

Sl.no	Academic year	Odd/Even Sem	Type of the activity (Co-curricular/ Extra Curricular)	Short Description of the Activity
6.	2024-25	NIL		
7.	2023-24			
8.	2022-23			
9.	2021-22			
10.	2020-21			

18. Examination /Evaluation reforms initiated: NIL

19. Publication of research papers: in peer reviewed journals, non-peer reviewed journals, conference proceedings, impact factors, citations, h-index. Numbers in SCOPUS.

Journal Publication						
Academic Year	Research Paper Title	Journal Name	Date of Publication/P age Numbers	Impact Factor/h-index/Number in SCOPUS	peer reviewed/non-peer reviewed	National / International
2024-25	Comparative Studies on the Strength and Swell Characteristics of Cohesive Soils Using Lime and Modified Enzyme-Induced Calcite Precipitation Technique. Buildings 14:909.	Buildings,	14:909,2024	3.1/ SCIE	Peer reviewed	International
2023-24	Leaching Test	Journal of	27,2023,	2.1	Peer	Internat

	Protocols to Evaluate Contaminant Response of Nano-Calcium Silicate-Treated Tropical Soils.	Hazardous, Toxic, and Radioactive Waste			reviewed	ional
2022-23	Sorptive and Desorptive Response of Divalent Heavy Metal Ions from EICP-Treated Plastic Fines.	Indian Geotech J.	2022	1.4	Peer reviewed	International
2021-22	Evaluation of Sequential Extraction Procedure (SEP) to Validate Binding Mechanisms in Soils and Soil-Nano-Calcium Silicate (SNCS) Mixtures	. Indian Geotech J.	2021	1.4	Peer reviewed	International
2020-21	Heavy Metal Immobilization Studies and Enhancement in Geotechnical Properties of Cohesive Soils by EICP Technique.	Applied Sciences	10:7568. 2020	2.8	Peer reviewed	International
Conference Proceedings						
Academic Year	Research Paper Title	Conference Name	Venue	Date of Publication/Page Numbers	Impact Factor/h-index/Number in SCOPUS	National/International
2024-25	Landslide Prediction Using Deep-Learning Frameworks and Wireless Sensor Networks.	Geo environment meet 2025	Louisville, Kentucky, USA	27-02-2025	Scopus	International
2023-24						
2022-23						
2021-22						

2020-21						
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20. Books published: with ISBN No., Without ISBN No., Chapters in books.

Academic Year	Title	Date of Publication/Page Numbers	ISBN Number	Book/Book Chapter
2024-25	Landslide Prediction Using Deep-Learning Frameworks and Wireless Sensor Networks.	March 2025/ pp 180-190	9780784485705	Book Chapter
2023-24				
2022-23	Nanomaterials for Soil Remediation.	310- 325	9780128189580	Book Chapter
2021-22				
2020-21				

21. Patents Published/Granted: National. International, commercialized:

Academic Year	Patent Number & Date of filing	Title	National /International	Published Date	Grant Date
2024-25	202025101555.2	A system for removal of metal ions from wastewater using electrocoagulation.	International	24-04-2025	05-06-2025
2023-24	20 2023 105 726.8	A composition and system for the production and characterization of nano-calcium silicate on tropical soils	International	03-10-2023	14-12-2023
	20 2023 105 753.5	A composition and system for the preparation and characterization of enzyme-induced calcite-precipitated amended soil	International	05-10-2023	28-12-2023

2022-23					
2021-22					
2020-21					

22. Consultancy services provided and revenue generated:

Academic Year	Title of the project	Name of the Principal Investigator	Date of sanction & Amount	Sponsoring Agency	Status	Remarks
2024-25	NIL					
2023-24						
2022-23						
2021-22						
2020-21						

23. Conferences, seminars, symposia and workshops organized/Attended:

i) Organised

Academic Year	Title of the workshop/FDP /Conference	Name of the Coordinator/s	Date	Sponsoring Agency	No. of participants
2024-25	NIL				
2023-24					
2022-23					
2021-22					
2020-21					

ii) Attended- Conference/ seminars/ symposia/workshops

Sl. No	Academic Year	Title	Type (National/International- Workshop/FDP /Seminar)	Dates Attended (Duration)	Organised by Department/Coll ege/University
1.	2024-25	NIL			
2.	2023-24				
3.	2022-23				
4.	2021-22				
5.	2020-21				

24. Number of collaborations:

S. No	Industry Partner Details	Name of the expert and designation	Nature of Collaboration (e.g., Guest Lecture, Internship, MoU, Consultancy, Joint Research, Curriculum Development)	Date/Duration	Outcome/Impact	National/ International
	NIL					

25. Professional Membership:

Sl. No	Name of the professional body	Fellow/Life Member
1	Indian Society for Technical education	Life member
2	American Society of Civil Engineers (ASCE)	Associated Member

26. MOOC / Online Courses developed / Delivered / Attended:

Academic Year	Course Registered for	Duration	No. of Weeks	Credits	% Obtained
2024-25	Advanced tendering and contracts NPTEL- IIT Madras	Jan2025 to May 2025	12	1	69
2023-24					
2022-23					
2021-22					
2020-21					

27. Awards /recognitions received: International, National, State, University level.

Academic Year	Awards/Recognitions	Date and place	International/ National/ State/ University level
2024-25	NIL		

2023-24			
2022-23			
2021-22			
2020-21			

28. Details of Involvement in Academic and Administrative Committees:

Responsibilities outside the institution: as External member (LIC, BOS, BOE, NBA, UGC, NAAC etc.)

Sl. No	Academic Year	Nature of Activity
1	2024-25	NIL
	2023-24	
	2022-23	
	2021-22	
	2020-21	

29. Details of Outreach Activities

Member in NSS, NCC, Reviewer for Journals, Conference Chair, Technical Committee Member, etc.

Sl. No	Academic Year	Nature of Activity
1	2024-25	<u>Reviewer for Journals</u>
	2023-24	<u>Reviewer for Journals</u>
	2022-23	<u>Reviewer for Journals</u>
	2021-22	<u>Reviewer for Journals</u>
	2020-21	<u>Reviewer for Journals</u>