Faculty Profile

(for last five years from 2016-17 to 2020-21)

1. Name of the faculty: **Dr. Meenakshi L Rathod**
2. Name of the Department: Electronics and Communication Engg.
3. Educational qualifications: B.E. M.Tech. Ph.D.
4. Present position: Assistant Professor
5. Address for correspondence: Department od ECE, Dr.Ambedkar Institute of Technology, Bangalore.
6. E-mail and contact number: meenakshilr.ec@drait.edu.in 9845121061
7. Specialization: VLSI design and Embedded systems, Communications
8. Total teaching experience:19
9. Courses taught: Information theory and Coding, Digital Electronics, Operations Research, Digital VLSI Design, Low Power VLSI Design, Verilog HDL, Synthesis and optimization of digital circuits.
10. Research experience: 7 yrs.
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
2020-21	Nil						
2019-20	Nil						
2018-19	Nil						
2017-18	Nil						
2016-17	Nil						

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
2020-21	Nil						
2019-20	Nil						
2018-19	Nil						

2017-18	Nil					
2016-17	Nil					

13. Number of students 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
	Nil					
	Nil					

14. Number of students awarded MSc.(Engg) by Research: Name of the student, topic of research, date of registration, Research Centre/University, date of declaration of MSc (Engg). degree.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Date of Declaration of MSc(Engg)
	Nil					
	Nil					

15. 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
	Nil					
	Nil					

16. Number of students registered for MSc (Engg) degree: Name of the student, topic of research, date of registration.

Sl. No	USN No.	Student Name	Research Topic	Date of Registration	Research Centre/University	Status
	Nil					

	Nil					

17. 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	2021 International Conference on Intelligent Technologies (CONIT)	June 25-27, 2021, 978-1-7281-8583-5/21/$31.00 ©2021 IEEE.Hubli, Karnataka, India.	Presented paper
	Recent Trends & Development in Information and Communication Engineering (ICRTDIC-2020)	23rd October 2020, Organized by Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, Near Jnana Bharathi Campus, Mallathahalli, Bangalore-560056. In Association with ICT Academy Journal Publication (UGC Approved Peer Reviewed Journals)	Presented paper
2019-20	Nil		
2018-19	Nil		
2017-18	2nd International conference on contemporary engg.and technology-2018	PSCMR COLLEGE OF ENGG. Kothapet, Vijayawada, AP. 2nd and 3rd April 2018	Presented paper
2016-17	International conference on development of smart cities:Interface, Governance and Technology	Dr. A.I.T. B'lore 9th -10 September 2016	Presented paper

National Conference			
Academic Year	Title of the Conference	Venue and Date of Conference	Attended/Presented paper/ Chaired Session/ Resource Person
2020-21			
2019-20			
2018-19			
2017-18	National Conference on Emerging trends in VLSI ,Embedded systems and Networking.	Oganised by Dept. of ECE on April 26th 2018,at Brindavan college of engg. Bengaluru	Presented paper
2016-17			

Symposia/ Seminars/ Workshops					
Academic Year	Title	Symposia/ Seminars/ Workshops	Venue and Date	International/National/ State/University Level	Attended/ Presented
2020-21					
2019-20					
2018-19					
2017-18	Latest trends in Robotics and Automation	Workshop	8th to 9th Feb. 2018, Dr.AIT, Bangalore	National/State	Attended
2016-17					

18. Innovative processes developed in teaching and learning: PPT's, Google classroom, Online platforms.

19. Participation in curricular development: Preparing syllabus with taking care of industry requirements.

20. Participation in co-curricular and extra-curricular activities: active participation in college (Women's day)

21. Refresher and Orientation courses attended: 4 week induction/orientation programme attended.

22. Examination /Evaluation reforms initiated: nil

23. 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 /Page Numbers	Impact Factor/h-index/Number in SCOPUS	peer reviewed/ non-peer reviewed	National/ International
2020-21	Synthesis of Concentric Circular Array Antenna Thinning Using Round & Push to Limit Binary Evolutionary Programming	International Journal of Future Generation Communication and Networking(IJFGCN)	December 31st 2020		Web of Science	International
	Array Pattern Synthesis for Desired Side Lobe Level using Modified Differential Evolution	Materials Today: Proceedings Elsevier Journal, ISSN: 2214-7853	16th February 2021		Scopus	International
	Verification and Validation of ASBO based Antenna Array Radiation Pattern Synthesis for	International Journal of Grid and Distributed Computing (IJGDC), ISSN: 2005-4262 (Print), ISSN: 2207-6379 (Online), Vol. 14, No. 1 , pp. 35-42.	31st March 2021		Web of Science	International

	Power Optimization					
	Analysis and Design of an Optical Biosensor Using Mathematical Modeling	Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering, Lecture Notes in Mechanical Engineering book series (LNME), Springer.	27 September 2020		Scopus	International
2019-20	Efficient Implementation Of Remote Terminal Module For MIL-STD 1553B Applications	International Journal Of Scientific & Technology Research	December 2019		Scopus	International
	A Research on Mystic Alexa Mirror	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	December 2019		Scopus	International
2018-19	Dynamic Accuracy Configurable 64 BitMultipliers using Dual-Quality 4:2 Compressors	International Journal of Emerging Technologies and Innovative Research	July-2018		peer reviewed	International
	A Fast convergence Modified VSSLMS algorithm for Smart antenna Beamforming	International Journal of Scientific Research and Review	September-2018		peer reviewed	International
	IOT Based Garden Automation and	JARDCS	2018		Scopus	International

Academic Year	Research Paper Title		Date of Publication/Page Numbers	Impact Factor/h-index/Number in SCOPUS	National/International
	WEB Based Analysis				
2017-18	HF Radar signal processing Algorithms for Air and surface target detection	IJERT	April-2018	peer reviewed	International
2016-17					

Conference Proceedings

Academic Year	Research Paper Title	Conference Name	Venue	Date of Publication/Page Numbers	Impact Factor/h-index/Number in SCOPUS	National/International
2020-21	ASIC Implementation and Analysis of Logic BIST Controller for Ripple Carry Adder at Different Technology	2021 International Conference on Intelligent Technologies (CONIT)	IEEE.Hubli, Karnataka, India.	June 25-27, 2021, 978-1-7281-8583-5/21/$31.00 ©2021		International
	Digital Outing System Using IoT	Recent Trends & Development in Information and Communication Engineering (ICRTDIC-2020)	Organized by Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, Near Jnana Bharathi Campus, Mallathahalli, Bangalore-560056. In Association with ICT Academy Journal Publication (UGC Approved Peer	23rd October 2020		International

			Reviewed Journals)			
2019-20						
2018-19	IOT Based Garden Automation and WEB Based Analysis	2nd International conference on contemporary engg.and technology-2018	PSCMR COLLEGE OF ENGG. Kothapet, Vijayawada, AP.	2nd and 3rd April 2018		International
2017-18	Improved Particle Swarm Optimization Algorithm for Multimodal function Optimization	International conference on development of smart cities:Interface, Governance and Technology	Dr. A.I.T. B'lore	9th -10 September 2016		International
2016-17						

24. Books published: with ISBN No., Without ISBN No., Chapters in books.

Academic Year	Title	Date of Publication/Page Numbers	ISBN Number	Book/Book Chapter
2020-21				
2019-20				
2018-19				
2017-18				
2016-17				

25. Patents Applied/Granted: National. International, commercialized:

Academic Year	Patent Number & Date of filing	Title	National/International	Published Date	Grant Date
2020-21	20204103110 21-07-2020	Design of luminous light for vehicle monitoring system using IoT	National	25-09-2020	
	2020102066 25-11-2020	DWT Based Feature Extraction for Iris Recognition	International	06-01-2021	06-01-2021
	202141003615. 27-01-2021	Development Design and Development of Smart Security and Surveillance System	National	05-02-2021	
2021-22	202141042357 A 18-09-2021	The medical devices connectivity system and method using by deep learning algorithm	National	01-10-2021	

26. Consultancy services provided and revenue generated:

27. Conferences ,seminars, symposia and workshops organized as convener/coordinator:

Academic Year	workshops	Date and Venue	Convener/Coordinator
2020-21			
2019-20			
2018-19	Parivartana Finishing school	18-02-19 to 20-02-19 Dr. A.I.T. B'lore	Coordinator
2017-18	Computer Communication Networks under	17-08-17 to 19-08-17	Coordinator

	(Industry RTN Technologies)	Dr. A.I.T. B'lore	
2016-17			

28. Number of collaborations:

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

Academic Year	Awards/Recognitions	Date and Place	International/ National/ State/ University level
2020-21			
2019-20			
2018-19			
2017-18			
2016-17			

Note: If necessary for Item No. 11 and 12 provide information in Enclosure-I, for 13, 14 Enclosure- II, and so on