


## FACULTY PROFILE

Name of the Faculty:		Dr. Naga Raju Challa					
Designation:		Assistant Professor					
Department:		Electronics and Communication Engineering					
Date of Birth:		11-04-1987					
AICTE- ID:		1-3734275484					
<b>Education</b>		<ul style="list-style-type: none"> <li>B. Tech in ECS from Prasad V. Potluri Siddhartha Institute of Technology/ JNTU Kakinada University/Institute in 2009</li> <li>M. Tech in Embedded Systems Specialization from Sathyabama University in 2012</li> <li>PhD in Wireless Communication specialization from Vellore Institute of Technology, Vellore in 2021</li> </ul>					
<b>Experience</b>		Teaching: 9 Years	Industry: 1 Years	<b>Total: 10 Years</b>			
		Research: ____ Years	Others: ____ Years				
<b>Research Specialization</b>		<b>Wireless Communication,          MU-MIMO Detection Schemes,          Deep Learning for massive MIMO,          Artificial Intelligence</b>					
<b>Courses Taught</b>		<ol style="list-style-type: none"> <li>1. Signals and Systems</li> <li>2. Digital Signal Processing</li> <li>3. Embedded Systems</li> <li>4. Artificial Neural Networks</li> <li>5. Deep Learning</li> </ol>					
<b>Research contributions</b>							
<b>International/national peer reviewed journals</b>							
S. No.	Title of paper	Journal	Year	Volume	pages	Indexing (SCI/WoS/SCOPUS, Google scholar)	
1	Precoded Large Scale Multi-User-MIMO System Using Likelihood Ascent Search for Signal Detection	Radio Science	2022	1	1-12	SCI/WoS /Scopus	

2	Design of Large-scale MU-MIMO System with Joint Precoding and Detection Schemes for Beyond 5G Wireless Networks	Wireless Personal Communication	2021	1	1-20	SCI/Scopus/WoS/Google Scholar
3	Design of near-optimal local likelihood search-based detection algorithm for coded large-scale MU-MIMO system	International Journal of Communication Systems	2020	1	1-12	SCI/Scopus/WoS/Google Scholar
4	Likelihood ascent search detection for coded massive MU-MIMO systems to mitigate IAI and MUI	Radioelectronics and Communications Systems	2020	63	263-276	SCI/Scopus/WoS/Google Scholar
5	Design of Massive Multiuser MIMO System to Mitigate Inter Antenna Interference and Multiuser Interference in 5G Wireless Networks	Journal of Communications	2020	15	693-701	Scopus/WoS/Google Scholar

#### Details of Patents (Filed & Granted)

S. No.	Applications number	Title of the patent	Date of filing/publishing	Published/granted
1	202341052397	A Novel technique for mitigating the	04-08-2023	01-09-2023

#### Details of Conferences/FDPs/STTPs/webinars/Workshops Organized

S.No.	Name of the event	Role	Dates
1	A Three Day Faculty Development Program on Applications of Deep Learning Techniques to 5G and Beyond 5G Wireless Communication Systems	Coordinator	19-09-2022 to 21-09-2022
2	A Five Day Faculty Development Program on "Applications of Deep Learning Techniques to 5G Wireless Communication Technologies"	Coordinator	08-02-2022 to 12-02-2022
3	The IEEE International Conference on "Vision towards Emerging Trends in Communication and Networking 2019 (ViTECoN' 19)"	Organizing Committee member	30-03-2019 to 31-03-2019

**Details of Conferences/FDPs/STTPs/webinars/Workshops Participated**

S.No.	Name of the event	Organized by	Dates
1	DEEP LEARNING AND ITS APPLICATIONS	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	17-01-2022 to 22-01-2022
2	Signal Processing for 5G and IoT	Indian Institute of Information Technology Kalyani.	06-09-2021 to 10-09-2021
3	Recent Trends in Free Space Optics and its Applications (RFA-2021)" from	National Institute of Technology Karnataka, Surathkal,	04-10-2021 to 08-10-2021

**Awards/recognitions/achievements**

S.No.	Name of the Award	Awarding body/Society/Organization	Year
1			

**Details of project proposals submitted/sanctioned/completed**

S.No.	Title of the Project	Funding body	Submitted/ Sanctioned/ Completed	Amount	Year/ duration

**Consultancy contribution**

S.No.	Year	Amount	Details
1			

**Student Project/research guidance**

S.No	Level	Total number
1	UG	Completed: 15 Ongoing:01
2	PG	Completed: 04 Ongoing: 0
3	PhD	Completed: 0 Ongoing: 0

**Administrative experience**

<b>S.No.</b>	<b>Role</b>	<b>Duration (From – to)</b>
<b>1</b>	Criteria II In charge of department Level at Bapatla Engineering College, Bapatla.	<b>December 2022- April 2023</b>
<b>2</b>	Criteria III in charge of department Level at Bapatla Engineering College, Bapatla	<b>July 2023 to Till Date</b>
<b>3</b>	BECAP In charge of department Level at Bapatla Engineering College, Bapatla	<b>July 2023 to Till Date</b>

**Research credentials**

<b>Index/database</b>	<b>ID/Link</b>
Google Scholar	<b>KTbt3I8AAAAJ</b>
SCOPUS	<b>57216541416</b>
Web of Science	<b>AAy-8583-2020</b>
Vidwan ID	<b>324084</b>

**Any other relevant information**

**(Dr. Naga Raju Challa)**  
(Name)  
(Date)