

# B. Roopa

## Asst. Prof.



Education Qualifications: MTech (PhD)  
Specialization: Embedded Systems

ADDRESS:  
C-202, ECE Dept., MGIT

JNTUH ID:  
6713-180702-185243

EMAIL:  
broopa\_ece@mgit.ac.in

DATE OF JOINING:  
01-08-2018

EXPERIENCE - 16 Years

- Teaching - 14
- Industry -1
- Others - 1

SUMMARY:

- Publications - 1
- Conferences - 2
- Books - 2

EVENTS:

- Organized - 2
- Attended - More than 50

### Membership of Professional Bodies:

1. Life Member of IETE (F – 502591)

### Responsibilities Held at Institution Level:

1. Placement Co-ordinator
2. Anti-Ragging committee member
3. Campus Monitoring Committee member

### Responsibilities Held at Department Level:

1. Class In-charge
2. MPMC Lab In-charge
3. Mentor

### Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Microprocessors and Microcontrollers, Fundamentals of IOT, Switching Theory and Logic Design, Network Theory, Electronic Devices and circuits, Control Systems, Electronic Circuit Analysis, Analog and Digital Electronics
- **PG:** Real Time Operating Systems

### Publications:

1. "Circularly Polarized U Slot Microstrip Patch Antenna", *International Journal Of Innovative Technology And Research Volume No.4, Issue No.1, December - January 2016*, pp. 2610 – 2612

### Conferences:

1. "Remote monitoring and control by embedded database design and web server implementation using SQLite database and Boa web server," *2017 4th International Conference on Electronics and Communication Systems (ICECS)*, 2017, pp. 143-147, doi: 10.1109/ECS.2017.8067857
2. 'Automatic Irrigation system using ARM microcontrollers' in a national conference NCRAE-2016 organized by IFHE, Hyderabad, in Feb 2016

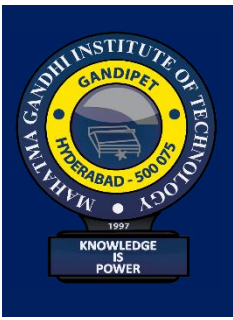
### No. of Books/Chapter Published with details:

1. B Deepa & B Roopa & Patnaik Anil (2018). Multiband Characteristics of the Slot-Loaded Aperture Fed Antenna. 10.1007/978-981-10-4280-5\_42
2. Bammidi, Deepa & Bammidi, Roopa. (2018). Adaptive Beam Steering of Smart Linear Array Using LMS and RLS Algorithms. 10.1007/978-981-10-7329-8\_78.

### Events Organized:

#### FDPs/STTPs:

1. Two days STTP on 'Emerging Technologies in Electronics and Communication' from 18th to 19th Sep. 2021



2. One-week online FDP on 'Advances in Embedded Systems' from 7th to 11th August 2020

### Events Attended

#### FDPs/STTPs:

1. ATAL FDP on 'Application of IoT in Aerospace Engineering' from 27/12/2021 to 31/12/2021 at Visvesvaraya Technological University
2. One week FDP on 'Advances in Machine Learning' from 6/12/2021 to 11/12/2021 organized by KL university
3. ATAL FDP on 'System on Chip Design and Testing' from 22/11/2021 to 26/11/2021 at Indian Institute of Information Technology Tiruchirappalli
4. ATAL FDP on 'Internet of Things and Human-Computer Interaction' from 25/10/2021 to 29/10/2021 at National Institute of Technology Goa
5. ATAL FDP on 'Recent Advances in Signal Processing' from 2/8/2021 to 6/8/2021 organized by JNTUK
6. AICTE sponsored FDP on 'Recent Trends in IOT using Embedded Systems' from 7th to 19th Dec 2020 organized by MGIT
7. FDP on 'Satellite Based Navigation System' from 23rd Nov to 28th Nov 2020 organized by IIT Indore
8. FDP on 'Wireless Communication Technologies for IoT' from 27 July to 07 Aug 2020 organized by IIT Guwahati, NIT Patna
9. FDP on 'MATLAB Programming & Image Processing' from 13th July to 17th July 2020 organized by IETE Mumbai in association with PANTECH
10. FDP on 'Research Opportunities in Image Processing and Machine Learning' from 29th June to 03rd July 2020 organized by CBIT
11. ECAD & VLSI Design by CoreEL Technologies – 8th to 12th July 2019 – organized by MGIT
12. Internet of Things – 20th & 21st Dec 2018 – organized by MGIT
13. Signal Analysis and Transform Techniques – 10th to 15th June 2017 (Organized by ICT Academy, NIT, Warangal)
14. Signal Analysis and Transform Techniques – 10th to 15th June 2017 (Organized by ICT Academy, NIT, Warangal)
15. Training for Hands on LabVIEW Core 1 and 2 - Nov 7th and 8th 2016 and Dec 20th -24th 2016 (CBIT)
16. COMMunication INTelligence – 25th and 26th October 2016 (CBIT)
17. Radar signal processing – 25th to 29th July 2016 (OU)
18. Low power embedded systems- 16th to 18th June 2016 (VNR VJIT)
19. Lab View – 20th Nov 2015, Nov 7th & 8th 2016 and Dec 20th -24th 2016 (CBIT)
20. Recent Trends and Advancements in VLSI for Embedded Applications – 15th to 27th June 2015 (CBIT)
21. Faculty Development Program (FDP) –Jan 2015 (CBIT)
22. English for Effective Communication (FDP) – 5th to 7th Aug 2014 (CBIT)
23. Work-Life Balance: Women in Engineering – 8th Mar 2014 (CBIT)
24. Wireless Networks and Applications – 14th to 15th Feb 2014 (CBIT)
25. Faculty Development Program – 6th to 11th Jan 2014 (CBIT)
26. GPS and its Augmentation Systems – GAGAN for Aircraft Navigation – 22nd to 23rd Nov 2013 (CBIT)

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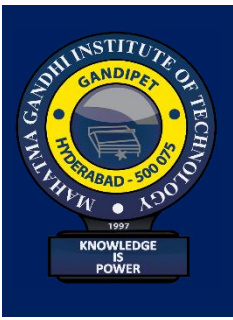
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**Online Certifications:**

1. NPTEL course on 'Design for Internet of Things' from Jul to Sep 2021 (12 weeks)
2. NPTEL course on 'Introduction to Embedded System Design' from Sep to Dec 2020 (12 weeks)
3. NPTEL course on 'Introduction to Internet of Things' from Sep to Dec 2020 (12 weeks)
4. NPTEL course on 'Matlab Programming for Numerical Computation' Jan-Apr 2020 (8 Weeks)
5. COURSERA course on 'Retrieving, Processing, and Visualizing Data with Python'
6. COURSERA course on 'Using Databases with Python'
7. COURSERA course on 'Interfacing with the Raspberry Pi'
8. COURSERA course on 'The Raspberry Pi Platform and Python Programming for the Raspberry Pi'
9. COURSERA course on 'Interfacing with the Arduino'
10. COURSERA course on 'The Arduino Platform and C Programming'
11. COURSERA course on 'Using Python to Access Web Data'
12. COURSERA course on 'Python Data Structures'
13. COURSERA course on 'Introduction to the Internet of Things and Embedded Systems'
14. COURSERA course on 'Getting Started with Python'
15. NPTEL course on 'Introduction to R software' Aug-Oct 2019 (8 Weeks)
16. NPTEL course on 'Mathematical Methods and Techniques in Signal Processing' Jan-Apr 2019 (12 Weeks)