



Dr. M. Fayazur Rahaman

Associate Professor



Education Qualifications: Doctor of Philosophy (ECE)
Specialization: Communications and Signal Processing

ADDRESS:

- C – Block -404

JNTUH ID:

1151-190827-130616

EMAIL:

mrahaman_ece@mgit.ac.in

DATE OF JOINING:

08-07-2019

EXPERIENCE - 19 Years

- Teaching - 5
- Research -4
- Industry -10

SUMMARY:

- Publications - 2
- Conferences - 3
- Honors/Awards - 15

EVENTS:

- Organized - 7
- Attended - 12

LET'S MEET ON SOCIAL:

- <https://www.youtube.com/channel/UCplbeVrd157EYsesnbPMQWA>
- <https://github.com/fayazur-mohammad/DCN-with-ns-2>
- <https://www.linkedin.com/in/dr-fayazur-rahaman-mohammad>

Responsibilities Held at Department Level:

1. Member Academic Council (BoS) Dept. of ECE MGIT from 06/2021 to ongoing
2. PG project coordinator, Dept. of ECE MGIT from 09/2021 to ongoing

Responsibilities Held in Past Organizations:

1. Committee Member for University Software Automation at MANUU in 2012
2. Committee Member for University Website at MANUU in 2011
3. Incharge Academic Schedule at MANUU Polytechnic in 2011
4. Incharge of Dept. of ECE at MANUU Polytechnic in 2010
5. Principal Architect and Head of Center of Excellence – IP enabled Services at Cognizant India in 2006

Honors/Awards Received:

1. Awarded NPTEL Domain Certificate in 'Data Science' in 2021
2. Received NPTEL Star Certificates – 4 times from 2020 till date
3. Received NPTEL Course Topper (in areas of Machine Learning, IoT and Wireless Communications) – 5 Courses from 2020 till date
4. Awarded Coursera Specializations (in Machine Learning, Deep Learning and Reinforcement Learning) – 3 Specialization from 2020 till date
5. Awarded PhD by IIT Hyderabad in year 2018
6. Joint research collaboration and publication with Dr. Domenico Ciuonzo, University of Naples, Italy
7. Awarded 'Certificate of Research Excellence' by IIT Hyderabad in year 2016
8. Hosted as visiting research scholar by University of Southampton UK in 2015
9. Awarded travel grant of 1.8 Lakhs by IIT Hyderabad to attend and present paper in ICC, London, UK in 2015
10. Awarded "Associate of the Year Award" for individual performance by Cognizant in 2000
11. Awarded "Project of the Year Award" for team performance by Cognizant in 2000
12. Awarded M.Tech in Communications Engineering by IIT Madras in 1997
13. Secured All India Rank of 80 in GATE (EC) in 1995
14. Awarded University Rank 1 and Sri. Seshacharlu Gold Medal for ECE batch 1991-95
15. Awarded merit certificate for highest B.Tech scores for years I, II and IV

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Data Communications and Networks (Theory and Lab), Artificial Intelligence, Optical Communications, Digital Electronics Lab

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- **PG:** Wireless Communications and Networks (Theory and Lab), Advanced Communications and Networks (Theory and Lab)

Publications:

1. Mohammad Fayazur Rahaman, D. Ciunzo and M. Z. A. Khan, “Mean-based Hard Decision Fusion Rules,” in IEEE Signal Processing Letters, vol. 25, no. 5, pp. 630-634, May 2018. doi: 10.1109/LSP.2018.2809859
2. Mohammad Fayazur Rahaman and M. Z. A. Khan, “Low-Complexity Optimal Hard Decision Fusion Under the Neyman-Pearson Criterion,” in IEEE Signal Processing Letters, vol. 25, no. 3, pp. 353-357, March 2018. doi: 10.1109/LSP.2017.2766245

Conferences:

1. Mohammad Fayazur Rahaman and M. Z. A. Khan, “On non-Randomized Hard Decision Fusion under Neyman Pearson Criterion using LRT,” 2018 IEEE 88th Vehicular Technology Conference (VTC-Fall), Chicago, IL, USA, 2018, pp. 1-5. doi: 10.1109/VTCFall.2018.8691021
2. D. Nikhil, Mohammad Fayazur Rahaman and M. Z. A. Khan, “Reduced Complexity Optimal Hard Decision Fusion under Neyman-Pearson Criterion,” 2018 IEEE 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2018, pp. 1-4. doi: 10.1109/SIU.2018.8404497
3. Mohammad Fayazur Rahaman and M. Z. A. Khan, “A Novel Approach to Improve the Performance of Truncated SED for Cognitive Radio,” in 2015 IEEE International Conference on Communication Workshop (ICCW), London, 2015, pp. 1629-1634. doi: 10.1109/ICCW.2015.7247413

Events Organized:**FDPs/STTPs:**

1. Co-host for paper presentation tracks in ICASPACE-21 conference at MGIT in 2021
2. Resource Person for STTP on ‘Research Avenues in Machine Learning and Pattern Recognition’ at MGIT in 2021
3. Member of Organizing Committee for “Azad Tek Fest – Technical Festival” at MANUU in 2011

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Resource Person for Webinar on ‘Application of Machine Learning for Communication and Image Processing’ at MGIT in 2020.
2. Resource Person for ‘GIAN on Spectrum Sharing’ refresher course at IIT Hyderabad in 2017
4. Resource Person for UGC sponsored refresher course in ‘IT and Computer Applications’ at MANUU in 2011
5. Resource person for Industry Seminar on Next Generation Networks from Cognizant in 2006

Events Attended**FDPs/STTPs:**

1. “Practical Machine Learning with Tensorflow”, 1 week FDP NPTEL-AICTE
2. “Introduction to Internet of Things”, 1.5 weeks FDP NPTEL-AICTE
3. “Introduction to Machine Learning”, 1.5 weeks FDP NPTEL-AICTE
4. “Applied Optimization for Wireless, Machine Learning, Big-Data”, 1.5 weeks FDP NPTEL-AICTE
5. “Principles of Signal Estimation for MIMO/OFDM Wireless Communication”, 1.5 weeks FDP NPTEL-AICTE



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6. “Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning”, 1.5 weeks FDP NPTEL-AICTE
7. “Data Science for Engineers”, 1 week FDP NPTEL-AICTE
8. “Deep Learning”, 1.5 weeks FDP NPTEL-AICTE
9. “Learning Analytics Tools”, 1.5 weeks FDP NPTEL-AICTE
10. “Programming Data Structures and Algorithms using Python”, 1 week FDP NPTEL-AICTE

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. “Latest MIMO Technologies for 5G Networks, Massive MIMO, mmWave MIMO, NOMA, Cooperative Communications, Cognitive Radio and IoT” 1 Week short course by IIT Kanpur
2. “Advances in Optical Communication” 1 week STTP by IIT Madras

Online Certifications:

1. Coursera Certifications in around 20 courses in the area of Machine Learning, Deep Learning, Reinforcement Learning and IoT
2. NPTEL Course Certifications in around 10 courses