

Name of Faculty Dr. A. SUPRAJA REDDY  
 Designation Associate Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 04 – 07 - 2019  
 E-mail Suprajareddy\_ece@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (ECE)	Awarded
PG	M. Tech (RS&GIS)	First with Distinction
UG	B. E. (ECE)	First with Distinction

Work Experience

Teaching	13 Years
Research	03 years
Industry	--
Others	--

Area of Specialization Global Navigation Satellite Systems, Ionospheric Radio Wave Propagation

Professional Memberships --

Responsibilities held at Institution Level

1. Member, Industry Institute Cell
2. Member, Academic Council

Responsibilities held at Department Level

1. In-charge, Academic Audit
2. Dept. Research Coordinator
3. Member, Program Content Committee
4. Member, Course Expert Group

Research Guidance

Awards Received

1. Received 'best paper of the conference' and the 'best paper of the track - antennas and wireless communication' awards for the paper entitled "Effect of Latitude and Longitude on Bounding Sigma at Low-latitude Stations for GBAS Applications" at IEEE International WIE Conference on Electrical and Computer Engineering 2016 (WIECON-ECE) is jointly organized by IEEE Pune section and IEEE Bangladesh section.
2. Received 'best paper of the conference' award for the paper entitled "Multipath and Thermal Noise Free relative TEC estimation using IRNSS L5 and S1 signals" at International Conference on Innovative Technologies in Engineering (ICITE 2018), Osmania University, Hyderabad, 11-13 April 2018.

Courses Handled at Under Graduate / Post Graduate Level. Electronic Devices, Analog Circuits, Satellite Communications, Principles of GNSS

No. of Papers Published National Journals – -- International Journals – 08

Projects Carried out National Conference – 09 International Conference – 15

Principal Investigator of the project Entitled "Investigation of the Effects of Ionospheric Spatial Decorrelation on Indian GBAS", sponsored by Space Applications Centre (SAC), ISRO, Ahmedabad. Duration of the project : 3 years (starting Jan 2017) Funding: Rs.19.34 lacs (and additional equipment worth Rs.18.5 lacs)

Patents --

Technology Transfer --

Invited Speaker

1. Lecture on "Latest trends and developments in GBAS", at University College of Engineering, Osmania University, Hyderabad during a STTP on "Recent Research Developments and Challenges in Communication and Navigation Technologies", during 25-29 Feb 2020.
2. Lecture on 'Ongoing Research in the Area of Ground Based Augmentation Systems' at Research and Training Unit for Navigational Electronics (NERTU), Osmania University, Hyderabad, during a Two day symposium on 'Research Trends in GNSS' during September 08-09, 2019

3. Lecture on 'Ground Based Augmentation Systems for Improved Position Accuracy' at Geethanjali College of Engineering and Technology (GCET), Medchal Dist., during a One week FDP on '5G and GNSS Positioning' during June 17-22, 2019
4. Lecture on "GNSS Augmentation Systems", at University College of Engineering, Osmania University, Hyderabad during a One Week FDP on "Principles of GNSS, Applications and Research Areas" on 08 June 2018.

No. of Books/Chapter Published with details

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Details of Short-Term Training Programs /Faculty Development Programs /Seminars/Workshops/ Other Trainings (Attended and/or Organized).

1. Successfully completed one week online refresher course BHARATEEYA CHAITANYAM organized by Geervana Bharathi of Chaitanya Samskruthi, CBIT, during 29 June to 05 July 2020.
2. Participated the Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27<sup>th</sup> June conducted by MHRD's Innovation Cell.
3. Successfully completed "Introduction to Electronics" an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera on 10 June 2020
4. Successfully completed one week FDP on "Outcome Based Education and NBA Accreditation Process (UG) conducted by CBIT during 28 May to 01 June 2020
5. Participated the India First Leadership Talk Webinar with Dr. Nilesh N Oak, Expert (Indian Civilization and History) on 30<sup>th</sup> May, 2020 conducted by MHRD's Innovation Cell.
6. Participated the India First Leadership Talk Webinar with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited, 16<sup>th</sup> May 2020 conducted by MHRD's Innovation Cell.
7. Participated the India First Leadership Talk Webinar with Prof D. P. Singh, Chairman UGC, 9<sup>th</sup> May, 2020 conducted by MHRD's Innovation Cell.
8. Successfully completed "AI for everyone" an online non-credit course authorized by Stanford University and offered through Coursera on 04 May 2020
9. Successfully completed "Wireless Communication for Everybody" an online non-credit course authorized by Yonsei University and offered through Coursera on 28 April 2020
10. Participated in IIC online sessions conducted by Institute's Innovation Cell of MHRD Innovation Cell during 28 April to 22 May 2020.
11. Successfully completed one week FDP on "IoT for Emerging Applications", organized by CBIT during 04-08 Feb 2020.
12. Participated in a workshop on "Quantum Computing", organised by Quantum Computing Special Interest Group, IEEE Hyderabad Computer Society Chapter, on 16th Nov 2019, Supported by Microsoft and IIT Hyderabad.
13. Participated in 'National Workshop on Wireless Communication (NWWC-2019)', organized by Advanced Institute of Mathematics, Statistics and Computer Science (AIMSCS), Hyderabad, during 21<sup>st</sup> – 23<sup>rd</sup> Jan 2019.
14. Organizer, Research Day, at CBIT on 23<sup>rd</sup> August 2019.
15. Coordinator of 4<sup>th</sup> International Conference on Vedic Mathematics, organized by CBIT in association with IAVM during 29- 31 Aug 2019.

#### International/National Journals from the Year 2017

1. S R Ammana, "An Analysis of GPS Code minus Carrier (CMC) Measurements for GBAS Applications", The IUP Journal of Electrical and Electronics Engineering, Vol.11(1), (pp.7-13) January 2018.
2. A.S Reddy, "Ionospheric Effects on the Performance of Satellite-Based Navigation in India Research Journal of Engineering and Technology, Vol. 09 (1), Jan-Mar 2018, (pp.55-58).

#### International/National Conference Proceedings from the Year 2017

1. Naga, S.R.C., Padmapriya, K., Supraja, R.A., Satyanarayana, K. and Dattatreya, S.A., 'Design and Implementation of Bluetooth-Beacon based Indoor Positioning System', 5th IEEE international Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2019 (IEEE WIECON-ECE 2019), IEEE Bangalore Section & WIE AG Bangalore Section, 15-16 Nov. 2019.
2. Mohd Qurram Javeed, A.D. Sarma and A. Supraja Reddy, 'Suitability of Ionospheric Coefficients for IRNSS Single Frequency Receivers', IEEE Indian Conference on Antennas and Propagation (InCAP) Dec 2018.
3. Praveena K., Supraja Reddy A., Krishna Reddy D., Naveen Kumar P., "Estimation of GNSS Receiver Bias using Fitted Receiver Bias (FRB) Method", International Conference on Innovation Smart Culture and Well-Being (ICISW-2018)", Dusit, Bangkok, Thailand, 08 Nov 2018.
4. Supraja Reddy Ammana and A.D. Sarma, 'On the Suitability of Ionospheric Gradient Estimation

Techniques for IRNSS based GBAS Applications', IEEE international Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting, Boston, Massachusetts, USA, 8-13 July 2018.

5. Supraja Reddy A, "Performance Evaluation of Mixed-Pair method of Estimation of Ionospheric Gradients on IRNSS L5 Signals", International Conference on Innovative Technologies in Engineering (ICITE 2018), Osmania University, Hyderabad, 11-13 April 2018.
6. Mohd Qurram Javeed, A.D. Sarma, A. Supraja Reddy, T. Sridher, N.V. Koteswara Rao and Tarun Kumar Pant "Multipath and Thermal Noise Free relative TEC estimation using IRNSS L5 and S1 signals", International Conference on Innovative Technologies in Engineering (ICITE 2018), Osmania University, Hyderabad, 11-13 April 2018.
7. Supraja Reddy A, "Investigation of Anomalous Ionospheric Gradient Effects on the Performance of Indian GBAS", IEEE International Conference on Computing Methodologies and Communication (ICCMC-2017), Surya Engineering College, Erode, 18-19 July 2017.