

# Newsletter

We Communicate Our Vision!

## SIGNALS



Newsletter

HALF - YEARLY  
NEWS LETTER

VOLUME: 18

JAN: 2021

Electronics & Communication  
Engineering



**PRASAD V POTLURI  
SIDDHARTHA  
INSTITUTE OF TECHNOLOGY**

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**Quotation**

**Take Risks in Your Life  
If you win, you can lead  
If you Lose, You can Guide**

**---Swami Vivekananda**

**Faculty Incharge**

**Mrs. D. Hareesha**

## 1. Workshops/Seminars/Guest Lectures/Training Programs/Symposiums/ Webinars organized:

The department of Electronics and Communications Engineering organized ---

- i. On-line training program for ECE students on **Design of Antennas for 5G Applications using HFSS** during 4<sup>th</sup> - 12<sup>th</sup> January' 2021.

Resource Persons: Technical Engineers of Ansys Technologies supported by Faculty of ECE.

- ii. On-line training program for ECE students on **Embedded System Design using MSP430** in association with EdGate Technologies, Bangalore on 7<sup>th</sup> & 8<sup>th</sup> January' 2021.

Resource Person: Mr. Nishanth, Technical Engineers of EdGate Technologies, Bangalore.

- iii. An interactive session on **Opportunities in Core, Software, Govt. sector** for I B.Tech. ECE Students on 9<sup>th</sup> January' 2021.

Resource Persons:

Mr.V.SasiBhushan, Pega lead architect., CISCO (B.Tech.-Alumni 2006-10)

Mr. Sarath, Project Manager (Smart cities Dept.), Effectronics (B.Tech.-Alumni 2012-15)

Ms. Jeevanti & Ms. Nasareen, Assistant System engineer, TCS (B.Tech.-Alumni 2014-18)

Mr. P. Naveen, M.Tech., IIT Bombay (B.Tech.-Alumni 2015-19)



- iv. On-line three day training program on **NI myRIO FPGA** during 18<sup>th</sup> – 20<sup>th</sup> January' 2021.  
Resource Persons: Mr. Jatin Verma, AVGarde Systems Pvt. Ltd., Bangalore.
- v. A Training Program on **FPGA based digital system design using Verilog** for III B.Tech. ECE students during 18<sup>th</sup> -28<sup>th</sup> January' 2021.  
Resource Persons: Mr. K.Pradeep, Application Engineer,  
Apply Volt Technologies Pvt. Ltd, Hyderabad.
- vi. **Mini Project Model Expo** for IV B.Tech ECE Students under IETE Student Forum on 18<sup>th</sup> & 19<sup>th</sup> January' 2021.  
Judges: 1.Dr. Durga Prasad, VRSEC  
2. Dr. Mariyapan, VRSEC
- vii. A webinar on **Passion for Purpose Taking the New Year Resolution to the Next step** to III ECE Students under IETE Student Forum on 20<sup>th</sup> January' 2021.  
Resource Person: Uma Maheswar Desu, CEO of VV Creations
- viii. One day training program on **Digital system design using Verilog** for III B.Tech students on 30<sup>th</sup> January' 2021.  
Resource person: Dr. N.Krishna Chaitanya, Assoc. professor  
Sasi Institute of Technology&Engineering, Tadepalligudem
- ix. A webinar on **Personal Branding for Building Dream Career while Enjoying Student Life** for II B. Tech students under IETE Student Forum on 2<sup>nd</sup> February' 2021  
Resource person: Prof. K.V.SubbaRaju, Author, Motivational trainer.
- x. A three day training program for ECE students of Engineering colleges on **Design of Antennas for 5G applications using HFSS** during 3<sup>rd</sup> - 5<sup>th</sup> February' 2021.  
Resource Persons: Dr. C. Subba Rao, Professor, ECE  
Mrs. B. Swathi Lakshmi, Asst. Prof. ECE  
Mrs. L. Madhavi Devi, Asst. Prof. ECE

- xi. A webinar on the occasion of **International Day of Human Space Flight** under IETE Student Forum on 12<sup>th</sup> April' 2021 for II ECE students by Dr.P. Rajesh Kumar, Professor & HOD, Dept. of ECE.
- xii. 3 Weeks on-line workshop on **Programming with Python** in association with APSSDC for I B.Tech students during 7<sup>th</sup> – 26<sup>th</sup> June' 2021.  
Program Co-ordinator: Dr. Habibulla Mohammad, Sr. Assistant Professor

### Online Quiz Conducted:

- i. Kahoot platform license was taken to conduct online quiz examination for all the courses being offered for II, III, IV B.Tech of students of ECE in the current semester.  
Faculty Coordinators: Dr T. Haritha & Mrs. L. Madhavi Devi

### 2. Papers presented in Seminars/Conferences/Symposiums by the faculty:

- i. **Mr.J. Ravindrababu, Mr.Balaji.T** presented a paper entitled **BER Performance of Linear multiuser detectors in DS-CDMA** - International Conference on Recent Advances in Deep Learning (ICRADL). pp: 698-704, Shri Vishnu Engineering Collegefor Women, Bhimavaram, 29<sup>th</sup> – 31<sup>st</sup> January, 2021.
- ii. **Mr.Balaji.T, Mr.J.Ravindrababu** presented a paper entitled **Performance Analysis of Multiuser DS-CDMA System** - International Conference on Recent Advances in Deep Learning (ICRADL). pp: 693-697, Shri Vishnu Engineering Collegefor Women, Bhimavaram, 29<sup>th</sup> – 31<sup>st</sup> January, 2021.
- iii. **Dr.A.Geetha Devi, Mr.Surya Prasada Rao Borra** presented a paper entitled **A Method of Cardiovascular Disease Prediction using Machine Learning** - International Conference on Recent Advances in Deep Learning (ICRADL). pp: 684-689, Shri Vishnu Engineering College for Women, Bhimavaram, 29<sup>th</sup> – 31<sup>st</sup> January, 2021.
- iv. **Dr. C.SubbaRao, Mrs. L.Madhavi Devi, Mrs. B.Swati Lakshmi** presented a paper titled **Numerical Analysis of Flat Dipole Antenna for UWB Applications** – 3<sup>rd</sup>

International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV 2021). pp: 407-409, Francis Xavier Engineering College, Tamil Nadu, 04<sup>th</sup> – 06<sup>th</sup> February, 2021. DOI:978-0-7381-1183-4.

- v. **Mrs.V S D Rekha** presented a paper entitled **Dual Strip Flag Microstrip Patch Antenna for Millimeter Wave Applications** - 8<sup>th</sup> International conference on Microelectronics, Circuits & Systems, Pg No: 28 organized by Applied Computer Technology Kolkata, West Bengal, India, on 8<sup>th</sup> and 9<sup>th</sup> May'2021. (Scopus)
- vi. **Mrs.D.Swathi** presented a paper entitled **Live Streaming Robot for Military Environment** - International Conference on Recent Challenges in Engineering Science and Technology, ISN: 978-81-948317-2-3, Pg No:175, organized by Institute for Engineering Research and Publication (IFERP) at Ramachandra College of Engineering, Eluru, AP on 9<sup>th</sup> and 10<sup>th</sup> April' 2021.

### 3. Workshops/ Seminars/STTP/Conferences/Faculty Development Programmes/ Awareness programmes attended by the faculty:

#### a) Seminars/Webinars:

- i. **Mrs.K.Anitha** participated in a webinar on **Electronics and Computing Technology** conducted by Sambalpur University Institute of Information Technology, Burla, Odisha from 27<sup>th</sup> March to 1<sup>st</sup> April'2021.
- ii. **Dr.Ch. Gangadhar, Mr.Habibulla Mohammad** participated in a webinar on **Innovation in Education Technology and Value Creation in Pedagogy** organized by Internal Quality Assurance Cell, Prasad V. Potluri Siddhartha Institute of Technology on 16<sup>th</sup> February' 2021.
- iii. **Mr.Habibulla Mohammad** participated in a webinar on **How to find the next steps in your research area** with Science Direct organized by Elsevier, BrightTalk on 3<sup>rd</sup> February' 2021.

- iv. **Mr.Habibulla Mohammad** participated in a webinar on **Writing Effective Research Proposals** Organized by Internal Quality Assurance Cell, Prasad V. Potluri Siddhartha Institute of Technology on 9<sup>th</sup> February' 2021.
- v. **Mr.Habibulla Mohammad** participated in a webinar on **How to Develop Scalable Multilingual Conversational AI Applications Quick & Easy** organized by Elsevier, BrightTalk on 8<sup>th</sup> March' 2021.
- vi. **Mr.Habibulla Mohammad** participated in a webinar on **The Impact of Learning Space on Educational Ecosystem** organized by Dept of Physics & Electronics, Ch S D St Theresa College for Women, Eluru on 18<sup>th</sup> April' 2021.
- vii. **Ms.T.Sushma, Mrs.D.Hareesha, Mrs.V.S.D.Rekha** participated in a webinar on **Empowering women through Entrepreneurship** organized by Womens Cell, PVPSIT, Vijayawada on 10<sup>th</sup> March' 2021.
- viii. **Mrs.B.V.Subbayamma** participated in a webinar on **Student Centered Learning** conducted by NITTTR, Chennai in collaboration with IEEE Education Society Chapter, Hyderabad Section on 15<sup>th</sup> June' 2021.
- ix. **Mrs.T.Mahalakshmi** participated in a webinar on **Assessment and Accreditation by NAAC** organized by Internal Quality Assurance Cell, PVPSIT on 22<sup>nd</sup> May'2021.

**b) Workshops:**

- i. **Dr.K.Ramanjaneyulu, Dr.T.Haritha** participated in an awareness workshop on **NIRF India Rankings 2021 for Higher Educational Institutions** organized by Institute for Academic Excellence, Hyderabad on 18<sup>th</sup> & 19<sup>th</sup> January' 2021.
- ii. **Dr.C.Subba Rao** participated in a one Week International Workshop on **MIMO and Beam forming Antennas for Wireless and Satellite Applications** organized by IEEE Antennas and Propagation Society Chapter - Jaipur in Association with IEEE Young Professionals Affinity during 26<sup>th</sup> -30<sup>th</sup> April' 2021

- iii. **Dr.C.Subba Rao, Dr.T.Haritha, Mrs.B.Swathi Lakshmi** participated in a AICTE under Margdarshan Scheme workshop on **Advances in 5G Antenna Technologies** organized by Department of ECE, VRSEC on 3<sup>rd</sup> & 4<sup>th</sup> May' 2021.
- iv. **Mr.Habibulla Mohammad** participated in a workshop on **Recent Advancement on Electronics and Computer Intelligence** organized by Department of Electronics and CSE&A, Sambalpur University Institute of Information Technology (SUIIT), Burla, Odisha, during 26<sup>th</sup> - 30<sup>th</sup> April' 2021.

**c) STTP/STCs:**

- i. **Mr.B.Surya Prasada Rao, Mrs.V.Ratna Kumari, Mrs.D.Hareesha** participated in three day Training Program on **NI MyRio FPGA** organized by Department of ECE, PVPSIT during 18<sup>th</sup> – 20<sup>th</sup> January' 2021.
- ii. **Mrs.V.S.D.Rekha, Mrs.D.Praveena Bai** participated in AICTE sponsored Short Term Training Programme (STTP) on **Effective Engineering Teaching Practices** organized by PVPS Institute of Technology Vijayawada during 18<sup>th</sup> - 23<sup>rd</sup> January' 2021.
- iii. **Dr.T.Haritha** participated in three day **Training Program for Mentors** organized by AICTE under NITTTR during 14<sup>th</sup> – 18<sup>th</sup> June' 2021.

**d) Faculty Development Programmes:**

- iv. **Mr.M.Srinivasa Rao, Mrs.K.Anitha** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Smart Cities** organized by NIT, Silchar during 11<sup>th</sup> – 15<sup>th</sup> January' 2021.
- v. **Mrs.V.Ratna Kumari** participated in AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Programme on **Machine Learning** organized by IIIT, Dharwad during 18<sup>th</sup> - 22<sup>nd</sup> January' 2021.
- vi. **Mrs.D.Hareesha, Mrs.B.V.Subbayamma, Mrs.T.Maha Lakshmi** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on

- Lab on chip** organized by Department of Electronics and Instrumentation Engineering, SRM Institute of Science and Technology during 18<sup>th</sup> - 22<sup>nd</sup> January' 2021.
- vii. **Mrs.V.Ratna Kumari, Mrs.B.V.Subbayamma** participated in AICTE Training and Learning (ATAL) Academy sponsored Faculty Development Programme on **Artificial Intelligence** organized by BITS, Ranchi during 25<sup>th</sup> – 29<sup>th</sup> January' 2021.
- viii. **Mrs.V.S.D.Rekha** participated in AICTE sponsored Faculty Development Programme on **AI-MIMO millimeter wave and Massive MIMO Applications for 5G Wireless Networks using AI** organized by GRIET during 25<sup>th</sup> January – 1<sup>st</sup> February' 2021.
- ix. **Mr.B.Surya Prasada Rao** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Control Systems & Sensors Technology** organized by National Institute of Technology Calicut during 1<sup>st</sup> -5<sup>th</sup> February' 2021.
- x. **Dr.Ch.Gangadhar** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Blended Learning and Flipped Classroom** organized by Sardar Vallabhbhai National Institute of Technology, Surat during 8<sup>th</sup> – 12<sup>th</sup> February' 2021.
- xi. **Dr.Ch.Gangadhar** participated in Faculty Development Programme on **Emerging Trends in VLSI and Nanoelectronics** for Building Atmanirbhar Bharat organized by IIT Indore during 15<sup>th</sup> – 20<sup>th</sup> February' 2021.
- xii. **Mrs.L.Madhavi Devi** participated in Faculty Development Programme on **Advanced Communications and Antennas** jointly organized by E&ICT and IIT Guwahati during 15<sup>th</sup> - 26<sup>th</sup> February' 2021.
- xiii. **Dr.Ch.Gangadhar** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Data Science** organized by University college of engineering, Osmania University during 22<sup>nd</sup> – 26<sup>th</sup> February'2021.

- xiv. **Mrs.T.Maha Lakshmi** participated in AICTE Training And Learning (ATAL) Academy Faculty Development Programme on **Robotics** organized by Shri Vishnu Engineering College for Wome during 23<sup>rd</sup> – 27<sup>th</sup> February’ 2021.
- xv. **Dr.Ch.Gangadhar, Mr.B.Surya Prasada Rao** participated in Ministry of Electronics and Information Technology (MeitY), Government of India sponsored Faculty Development Programme on **5G Design: Journey from Devices to Circuits** organized by Indian Institute of Technology Guwahati during 1<sup>st</sup> -12<sup>th</sup> March’ 2021.
- xvi. **Mrs.L.Madhavi Devi** participated in TEQIP-III sponsored Faculty Development Programme on **Modern Antenna for Present and Futuristic Wireless Communication Technology** organized by NIT, SIKKIM during 8<sup>th</sup> – 13<sup>th</sup> March’ 2021.
- xvii. **Dr.T.Haritha, Ms.T.Sushma, Mrs.V.Ratna Kumari, Mrs.D.Hareesha, Mrs.B.Swathi Lakshmi, Mrs.B.V.Subbayamma, Mr.P.Venu Madhav, Mrs.D.Praveena Bai** participated in AICTE sponsored Faculty Development Programme on **Millimeter Wave Frequencies Phase-II** organized by Gudlavalleru Engineering College during 16<sup>th</sup> – 22<sup>nd</sup> March’ 2021.
- xviii. **Mr.B.Surya Prasada Rao, Mrs. B.Swathi Lakshmi, Mrs.D.Praveena Bai, Mrs.T.Maha Lakshmi** participated in Faculty Development Programme on **Cyber Physical Systems** organized by Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada during 17<sup>th</sup> – 21<sup>st</sup> May’ 2021.
- xix. **Mrs.L.Madhavi Devi** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Internet of Things (IOT)** organized by National Institute of Technology, Hamirpur during 1<sup>st</sup> – 5<sup>th</sup> June’ 2021.
- xx. **Dr.T.Haritha, Dr.Habibulla Mohammad, Mr.P.Venu Madhav, Mrs.L.Madhavi Devi** participated in Faculty Development Programme on **Advances in Wireless Communication Technologies** organized by Department of ECE, Malla Reddy Engineering College, Telangana during 7<sup>th</sup> – 12<sup>th</sup> June’ 2021.

- xxi. **Mrs.T.Maha Lakshmi** participated in AICTE Training And Learning (ATAL) Academy Faculty Development Programme on **VLSI Design, Verification and Testing** organized by Government Engineering College, Rajkot during 7<sup>th</sup> – 11<sup>th</sup> June' 2021.
- xxii. **Dr. K. Ramanjaneyulu** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Research Avenues and Challenges in Industry 4.0** organized by R.M.D. Engineering College, Kavaraipettai, Tamil Nadu during 14<sup>th</sup> – 18<sup>th</sup> June' 2021.
- xxiii. **Dr.A.Geetha Devi, Mrs.Ch.Sri Lakshmi** participated in Faculty Development Programme on **Research trends in Deep learning and Communication Networks** organized by Bapatla Engg. College, Bapatla during 28<sup>th</sup> – 30<sup>th</sup> June' 2021.
- xxiv. **Mrs.D.Hareesha** participated in AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **Parallel and Distributed Deep Learning** organized by IIIT, Nagpur during 28<sup>th</sup> June - 2<sup>nd</sup> July' 2021.

**e) Guest lectures:**

- i. **Mr. Habibulla Mohammad** participated in guest lecture on **Analysis of Scopus publications** organized by Elsevier on 4<sup>th</sup> January' 2021.
- ii. **Dr. Habibulla Mohammad** participated in guest lecture on **Tapping into research to discover cutting-edge technology** organized by Elsevier on 27<sup>th</sup> May' 2021.

**4. Publications by the faculty (National/International Journals/ Conferences):**

**a) Scopus indexed journals:**

- i. **Dr.Ch.Gangadhar** published a paper entitled **Association of vaccine medication for the Efficacious COVID-19 treatment** - World Journal of Engineering; ISSN: 1708-5284; Vol:1; Issue: May'21; May'2021.

- ii. **Dr.C.Subba Rao, Mrs.L.Madhavi Devi, Mrs.B.Swati Lakshmi** published a paper entitled **Design and Analysis of Collinear Biconical Antenna Array** - International Journal of Engineering Trends and Technology ISSN: 2231-5381; Vol:69; Issue:3; Pg No: 147-153; March'2021.
- iii. **Mrs.B.Swathi Lakshmi, Dr.C.Subba Rao, Mrs.L.Madhavi Devi** published a paper entitled **Ceramic Material Based Circular Spike Shaped CPW Fed Antenna for Healthcare Multiband Application** - Turkish Journal of Physiotherapy and Rehabilitation; ISSN: 2651-4451; Vol:32; Issue:2 ; Pg No: 597-601; Mar'2021.
- iv. **Mrs.L.Madhavi Devi, Dr.C.Subba Rao, Mrs.B.Swati lakshmi** published a paper entitled **Spider Spike Compact Fractal Antenna for GPS, ISM and Medical Band Applications** - Turkish Journal of Physiotherapy and Rehabilitation; ISSN: 2651-4451; Vol:32; Issue:2 ; Pg No: 602-605; Mar'2021.

**b) SCI/SCIE/ESCI indexed journals:**

- i. **Mrs.K. Anitha** published a paper entitled **Computer aid Screening of COVID-19 using X-ray and CT scan Images: An inner Comparison** - Journal of X-Ray Science and Technology, Vol-29, Issue-2, pp. 197-210, ISSN: 0895-3996, Mar-2021, Indexing: SCI.
- ii. **Dr. K. Ramanjaneyulu** published a paper entitled **Advanced lung cancer prediction based on blockchain material using extended CNN** - Applied Nanoscience (Switzerland); ISSN: 2190-5517; Vol:11; Issue:6 ; June'2021. (Scopus and SCI)
- iii. **Dr. K. Ramanjaneyulu** published a paper entitled **Low Probability of Intercept (LPI) Radar Signal Identification Techniques** - Bioscience Biotechnology Research Communications; ISSN: 2321-4007; Vol:14; Issue:5 ; Pg No: 365-373; June'2021. (WS)
- iv. **Dr. T. Haritha** published a paper entitled **Pixel density based trimmed median filter for removal of noise from surface image** - Applied Nanoscience – Springer, ISSN: 2190-5517; Vol:11; Issue:4; Pg No: 1002-1010; June-2021. (SCI)

- v. **Dr.Ch.Gangadhar, Mr.Habibulla Mohammad** published a paper entitled **Lucas Algorithm for Medical Images Encryption and Transmission using Orthogonal Frequency Division Multiplexing for Medical Health Information Systems and its VLSI Realization** -International Journal of Online and Biomedial Engineering; ISSN: 26268493; Vol:17; Issue:6; Pg No: 128-135; June'2021. (web of science)
- vi. **Mrs.V.Ratna Kumari** published a paper entitled **Deep learning based remote sensing technique for environmental parameter retrieval and data fusion from physical models** - Arabian Journal of Geosciences; ISSN: 1866-7511; Vol:14; Issue:13; Pg No:1230; Online Published June'2021. (SCI)
- vii. **Mrs.D.Hareesha** published a paper entitled **Ultra-reliable low latency communication Technique for agriculture wireless sensor networks** - Arabian Journal of Geosciences; ISSN: 1866-7511; Vol:14; Issue:13 ; Pg No:1246; Online Published: June'2021. (SCI)

**c) UGC/other journals:**

- i. **Mr.B.Surya Prasada Rao, Dr.A.Geetha Devi** published a paper entitled **Wavelet Transform Based Image Fusion of MRI and CT Images for Better Diagnosis** - Journal of Information and Computational Science; ISSN: 1548-7741; Vol:14; Issue:1; Pg No: 90-95; Jan'2021.
- ii. **Mrs.L.Madhavi Devi, Dr.C.Subba Rao** published a paper entitled **Broad Band Proximity Joined feedline Microstrip Blemish Antenna for 5G solicitations: Novel Slant** - Journal of Xian University of Architecture and Technology; ISSN: 1006-7930; Vol:13; Issue:1 ; Pg No: 632-643; Jan'2021.
- iii. **Mrs.D.Swathi** published a paper entitled **Density Based Traffic Control System using MSP430G2ET** - International Journal For Technological Research In Engineering; ISSN: 2347 - 4718 ; Vol:8 ; Issue:6 ; Pg No:44 ; Feb'2021.
- iv. **Dr.Ch.Gangadhar** published a paper entitled **Speech Recognition Classification with ANN Implementation Using Machine Learning Algorithm** -LINGUISTICA

ANTVERPIENSIA; ISSN: 0304-2294; Vol: 2021; Issue:1; Pg No: 2785 to2796; Mar'2021.

- v. **Mr.Habibulla Mohammad** published a paper entitled **Big data analytics using map Reduce for education system** – Linguistica Antverpiensia, ISSN No: 0304-2294; Vol.2021; No.1; Pg No: 3130-3138; Mar' 2021.
- vi. **Mrs.V.Ratna Kumari** published a paper entitled **Human Acoustic Voice Controlled Robot Using LabVIEW and Arduino** - Journal of Green Engineering; ISSN: 1904-4720; Vol:11; Issue:3 ; Pg No: 2982-2997; Mar'2021.
- vii. **Mrs.V.Ratna Kumari** published a paper entitled **Interdigital Filtenna with Bandpass Filter, DGS and Inset Feed Elliptical Antenna for S-Band & ISM-2.4GHz Band Applications** - Turkish Journal of Physiotherapy and Rehabilitation; ISSN: 2651-4451; Vol:32; Issue:2 ; Pg No: 2923; Mar'2021.
- viii. **Mrs.V.S.D.Rekha** published a paper entitled **A Compact Dual Notch Frequency Reconfigurable Antenna for WIMAX, DSRC, RADAR and KU BAND Communication Applications** - Turkish Journal of Physiotherapy and Rehabilitation; ISSN: 2651-4451; Vol:32; Issue:2 ; Pg No: 746-753 ; Mar'2021.
- ix. **Mr.Habibulla Mohammad, Dr.Ch.Gangadhar, Mr.K.Phani Rama Krishna** published a paper entitled **Fibonacci Transform Algorithm for Encryption and Decryption of Covid Images** - Turkish Journal of Computer and Mathematics Education; ISSN No.: 1309-4653; Vol.12; No.8, Pg No:127-133. Apr' 2021.
- x. **Mr.B.Surya Prasada Rao** published a paper entitled **An Efficient Shape Adaptive Techniques for the Digital Image Denoising** - Turkish Journal of Computer and Mathematics Education; ISSN: 13094653; Vol:12; Issue:9 ; Pg No: 13094653; Apr'2021.
- xi. **Ms.T.Sushma, Mrs.B.V.Subbayamma** published a paper entitled **A Review of the cluster based mobile Adhoc Network Intrusion detection system** - Turkish Journal

of Computer and Mathematics Education; ISSN: 1309-4653; Vol:12; Issue:2; Pg No: 2070- 2076; Apr'2021.

- xii. **Mrs.V.Ratna Kumari** published a paper entitled **MSP430 Lunch Box Based Smart Irrigation System** - International Research Journal of Innovations in Engineering and Technology (IRJIET); ISSN: 2581-3048; Vol:5; Issue: 4; Pg No: 79-82; Apr'2021.
- xiii. **Mr.K.Phani Rama Krishna** published a paper entitled **Mathematical modelling to maximize OFDMA system using Margin Adaptive Resource Allocation Technique** - Turkish Journal of Computer and Mathematics Education; ISSN: 1309-4653, Vol.12; No.8; Pg No:122-126; Apr'2021.
- xiv. **Mr.P.Venu Madhav, Mr.A.Ashok Babu** published a paper entitled **Effectiveness of Non-Orthogonal Multiple Access by Assessment of 5G Networks** - Turkish Journal of Computer and Mathematics Education; ISSN: 1309-4653; Vol:12; Issue:9; Pg No: 694 - 701; Apr'2021.
- xv. **Mr.P.Venu Madhav, Mr.A.Ashok Babu** published a paper entitled **Performance of an Effective IOT Enabled Smart System with MQTT Protocol** - Turkish Journal of Computer and Mathematics Education; ISSN: 1309-4653; Vol:12; Issue:9; Pg No: 702-708; Apr'2021.
- xvi. **Mrs.K.Aruna Kumari** published a paper entitled **Using Machine Learning for Short- Term Extrapolation in Financial** - Turkish Journal of Physiotherapy and Rehabilitation; ISSN: 2651-4451; Vol:32; Issue:3; Pg No: 1252-1260; May'2021. ESCI
- xvii. **Mr.K.Phani Rama Krishna** published a paper entitled **Crossed Inverted-V Antenna with a Common Reflector for Polarization Diversity in the IoT** - Linguistica Antverpiensia; ISSN: 0304-2294; Vol No:2; Issue 2; Pg No:32-42; May'2021.

- xviii. **Mr.K.Phani Rama Krishna** published a paper entitled **Political Participation through Artificial Intelligence** - *Linguistica Antverpiensia*; ISSN: 0304-2294; Vol No:2; Issue 2; Pg No:115-121; May'2021.
- xix. **Mrs.B.V.Subbayamma** published a paper entitled **A Review on Multipath Routing Protocols for Manet** - *Turkish Journal of Physiotherapy and Rehabilitation*; ISSN: 2651- 4451; Vol:32; Issue:3 ; Pg No: 6474 - 6481; June'2021.(WS)
- xx. **Mrs. D.Praveena Bai** published a paper entitled **Certain Investigation on the Methods used for the Detection and Prediction of Rainfall in Andhra Pradesh** - *Turkish Journal of Physiotherapy and Rehabilitation*; ISSN: 2651-4451; Vol:32; Issue:3; Pg No: 6465- 6473; June'2021. (WS)

**e) Book chapters:**

- i. **Ms.T.Sushma** presented a paper entitled **LabVIEW for Motion Detection Using Webcam** - Second International conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering [ICSA-2021]; organized by SRM Valliammai Engineering College on 10<sup>th</sup> April' 2021.
- ii. **Dr.K.Ramanjaneyulu** presented a paper entitled **IoT Based Occlusion Invariant Face Recognition System** - International Conference on Intelligent Computing and Communication (ICICC-2020) on 18<sup>th</sup>, 19<sup>th</sup>& 20<sup>th</sup> September, 2020 organized by Dayananda Sagar University, Bengaluru, India in association with Springer and Computer Society of India. (Published on 19<sup>th</sup> June 2021). In: Bhateja V., Satapathy S.C., Travieso-Gonzalez C.M., FloresFuentes W. (eds) *Computer Communication, Networking and IoT. Lecture Notes in Networks and Systems*, vol 197. Springer, Singapore. Print ISBN: 978-981-16-0979-4 Online ISBN: 978-981-16-0980-0. [https://doi.org/10.1007/978-981-16-0980-0\\_39](https://doi.org/10.1007/978-981-16-0980-0_39).
- iii. **Mrs.V S D Rekha** presented a paper entitled **Morse Code Detector Using Msp430 Lunch Box** - Yogananda International Conference on Contemporary Issues in Social Sciences, ISBN/ISSN number of the proceeding: 978-81-951936-3-9, Pg No: 12-20, organized at Shoolini University, Solan, Himachal Pradesh, India, on 04<sup>th</sup> Apr'2021.

## 5. Faculty Achievements (Patents, Higher Qualification awarded, guest lectures given, awards and rewards, acted as a Resource person etc.):

### a. Patents:

- i. **Dr.C.SubbaRao, Mrs.L.Madhavi Devi, Mrs.B.Swati Lakshmi, Mr.Habibulla Mohammed, Mrs.B.V.Subbayamma** published a patent titled **Automatic Wireless Parking Identification and Warning System** with the application number:202041055527A, dated:01-01-2021, Granting Organization:Patent Office; Govt. of India.
- ii. **Mrs.V.RatnaKumari** published a patent titled **Automatic Method and Process Intelligent Management for Industrial Hazardous and Non-hazardous Wastes Using IoT- Technology** with the application number: 202011054180, dated:01-01-2021, Granting Organization: Govt. of India.
- iii. **Mrs.T.Mahalakshmi** published a patent titled **AA-predictive: Aircraft Accidents Predictive using Machine Learning** with the application number: 202011054181, dated:01-01-2021, Granting Organization: Govt. of India.
- iv. **Dr.K.Ramanjaneyulu** published a patent titled **Artificial Intelligence Based Automated Temperature Detection System Integrated with Smart Sanitizer Dispenser** with the application number: 202141000294 A, dated:08-01-2021, Granting Organization: India Patent Office.
- v. **Mrs.B.V.Subbayamma** published a patent titled **Nham- Combined Health Monitoring: IoT- based combined Health Monitoring, Notification, Home Automation and Medicine Prediction System** with the application number: 202021055090, dated:22-01-2021, Granting Organization: Govt. of India.
- vi. **Mrs.V.S.D Rekha** published a patent titled **A Wireless Automation System for Monitoring and Managing the Power Consumption by Embedded RFID and IoT** with the application number:202141001660, dated:22-01-2021, Granting Organization: Indian Patent Office.

- vii. **Mrs.K.Aruna Kumari** published a patent entitled **Patch Antenna, Method of manufacturing and using such an antenna and antenna system** with the application number: 202111022123, date: 28.05.2021. Granting Organization: Patent Office; Govt. of India.

**b. Ph.Ds awarded/Guided:**

- i. **Dr. P. Rajesh Kumar** guided successfully one Ph.D. Scholar of JNTUK, Kakinada and his details as follows:  
Mr. M.V. GaneswaraRao awarded degree of Doctor of Philosophy on 5<sup>th</sup> February, 2021.
- ii. **Mr.Habibulla Mohammad** awarded Doctor of Philosophy (Ph.D.) on 1<sup>st</sup> May' 2021 from KL Deemed to be University and his research topic is **Energy Efficient Routing Strategy for Extending WSN Lifetime.**

**c. Guest lectures delivered:**

- i. **Dr.P.Rajesh Kumar, Dr.C.Subba Rao, Mr.Habibulla Mohammed** delivered a guest lecture on **IoT& Antennas** at Grupo Antolin, Medha Towers, Gannavaram on 03<sup>rd</sup> February, 2021.

**d. Reviewers of journals:**

- i. **Dr. K. Ramanjaneyulu** reviewed the following papers of 2021 - IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT-2021) on 10.06.2021 and submitted the comments through Microsoft CMT.
- ii. **Dr.C. SubbaRao** reviewed Applied Computational Electromagnetics (ACES) Journal. SCIE Journal.
- iii. **Dr. Ch. Gangadhar** reviewed the following papers 1. International Journal of Electronics 2. World Journal of Engineering.

**e. Others:**

- i. **Dr. C. Subba Rao** appointed as an Advisory Committee Member for ECE Dept., Andhra Loyola Institute of Engineering & Technology, Vijayawada.

- ii. **Mrs D. Hareesha** received fellowship (₹.48,000) from Capricot Technologies Private Limited towards attending 4 Day Faculty Development Program on **Machine Learning and Deep Learning Using MATLAB** conducted by MATHWORKS, Bangalore.

#### **d. Recognitions:**

- i. **Dr.C.Subba Rao** appointed as **Technical Advisor** for Chennupati Polymers, Autonagar, Vijayawada on 17.02.2021.

#### **6. MOOCs/COURESERA courses completed by the faculty:**

- i. **Mrs.K.Aruna Kumari** completed **Strategies for Assisted Living Communities during COVID-19** from Johns Hopkins University and offered through Coursera on 10<sup>th</sup> June' 2021.
- ii. **Mrs.D.Pravena Bai** completed **Strategies for Assisted Living Communities during COVID -19** from Johns Hopkins University and offered through coursera on 18<sup>th</sup> March' 2021.

#### **7. Students' achievements:**

##### **a) Co-curricular Activities:**

##### **Internships, NPTEL, Coursera, publications etc.:**

- i. Three students of IV B.Tech M. Zubair, M. Umesh Kumar, M. Fareeda and Dr.Ramanjaneyulu K, Professor published a paper entitled **Detection of Epileptic Seizures from EEG Signals by Combining Dimensionality Reduction Algorithms with Machine Learning Models** - IEEE Sensors Journal. **Published in:** IEEE Sensors Journal (Early Access), May 2021; **Electronic ISSN:** 1558-1748.(SCI)
- ii. 31 students of IV B.Tech completed major project work internship at Voltera IoT Technologies LLP, Vijayawada.
- iii. Hexaware Technologies selected 7 students for paid internship which will be starting in the next academic year.

iv. HCL Technologies selected 2 students for internship.

**b) Extra-curricular Activities:**

i. I B.Tech ECE students are participating in Hack Challenge 2021 sponsored by IBM 25<sup>th</sup> -28<sup>th</sup> June'2021.

Program Co-ordinator: Dr. Habibulla Mohammad, Sr. Assistant Professor, ECE Dept.

ii. Surendra Sajja of IV B.Tech received CERTIFICATE OF ACHIEVEMENT for Early Bird Winners in Penetration Testing challenge at Capgemini Tech Challenge 2020 Edition held on 14<sup>th</sup> May' 2021.

**c) Coursera/NPTEL Details of the students:**

i. 73 students of III year B.Tech. (ECE) qualified in spoken tutorial exam on python 3.4.3 conducted by IIT, Bombay on 3<sup>rd</sup> Feb, 2021.

**8. Higher Education:**

Sl.No.	Regd. No.	Name of the Student	GATE-2021 Rank
1.	17501A0422	Srikanth Devarapu	13358
2.	17501A0428	Durga SaiLavanyaSenagavarapu	9237
3.	17501A0480	Paruchuri Ravi Kiran	10702
4.	18501A0459	Kolli Sasi Rekha	7394
5.	18501A0471	Maddali Sohit Venkata Sai	5719

**9. MOUs Signed:**

i. Memorandum of Understanding (MOU) signed with Grupo Antolin India Pvt. Ltd., Vijayawada on 3<sup>rd</sup> May, 2021.