



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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## COMMUNICATION RESEARCH GROUP

### Introduction:

The Communication systems research group is very active in the design of Antennas, microwave systems, optical communications, and wireless communication systems. Group members are highly experienced and qualified in their research areas. Computers and Laptops with higher speed internet connectivity are available to enable research activities in communication domain for students and faculty members. E-journals and books are available for students and faculty for accessing latest enhancement in the area of communication engineering. The department of ECE is providing advanced communication laboratory to promote the research activities in communication group. Seven faculty members with Ph.D are associated with this research group to promote the article writing skills and sponsor project proposal writing. Management encourages the faculty and students to attend conferences, workshops, and FDPs to upgrade their knowledge of the latest technologies. To promote the research work, the ECE department having the following licences softwares: Ansys HFSS 18, Matlab16 and LabView. JNTUK identified the ECE department as one of the research centers.

### Objectives:

The objective of the communication research group is:

- To design and development of communication models that are useful for wired and wireless application.
- To conduct staff colloquiums for knowledge up gradation.
- To organize workshops/ Faculty development programs/Guest lecturers/seminars/ conferences by experts from Industries/Universities/NITs/IITs/etc to gain advances in communication engineering.
- To make use of facilities in the research group and produce quality publications.
- To submit proposal for generating research funding from AICTE, UGC, DST etc.
- To promote the research attitude in faculty and students by encouraging research ideas.
- Encourage the faculty and student to submit research papers in SCIE, Scopus and UGC listed journals.
- To improving the quality of the B.Tech Projects.

**Members of Communications Research Group:**

S.No	Name	Designation
1	Dr. M.Venkata Sudhakar	Coordinator
2	Dr.A.Narendra Babu	Member
3	Smt. K. Rani Rudrama	Member
4	Dr. B. Siva Hari Prasad	Member
5	Dr. P. Rakesh Kumar	Member
6	Dr. B.Y.V.N.R. Swamy	Member
7	Dr.V.RaviSekharaReddy	Member
8	Dr.P.Venkata Rao	Member
9	Smt.M.Ramya Harika	Member
10	Smt.M.V.L.Bhavani	Member
11	Mr.Ch.Sivarama Krishna	Member

**Major Research Equipments:**

S.No	Name of the Equipment	Cost (Rs.)
1	Ansys Electromagnetics Suite 18.0	7,20,000
2	Comm.sys Teaching Bundle, 2Xusrp-2900, cable, Courseware-3Nos; Vert2450 Vertical antenna (2.4-2.5 and 4.9-5.9GHz) Dual band-6Nos; Vert 400 Vertical antenna (144MHz , 400MHz, 1200MHz ) Triband-6Nos; Vert 900 Vertical antenna (824-960MHz, 1710- 1990MHz) Dualband-6Nos	8,02,872
3	Microwave Bench setups -7Nos	6,26,000
4	1GHz Spectrum Analyzer -2Nos	2,93,367
5	Antenna Trainer /Micro strip Antenna Trainer Kit	82,761
6	Analog Oscilloscope 30MHz -10Nos	1,62,750
7	Lab-View-Emona kit (ETT-211)- fiber optic trainer -1No	1,45,806
8	70MHz Dual Channel DSO -2No	57,274
9	DELL VOSTRO 3268 Systems -5No	1,45,000



# JOURNALS

## International Journals done by the Faculty in the period of 2022-2023

1. Investigations on Complementary Split Ring Resonator(CSRR) array integrated printed conformal band pass filters for modern wireless communication applications, KV.Vineetha, **P.Rakesh Kumar**, **A.NarendraBabu**, J. BramaiahNaik, BTP Madhav, Sudipta Das, Journal of Instrumentation, 17, Oct-22, 10043, 1748-0221
2. Automotive communication applications based circular ring antenna with reconfigurability and conformal nature, Tirunagari Anil kumar, B.T.P. Madhav, M. Venkateswara Rao, B. Prudhvi Nadh, **P. Rakesh Kumar**, International Journal of Communication Systems, Oct-22, 1099-1131.
3. Implementation of 23 Gbps optical wireless link for 750 km inter-aircraft communications, **M.Venkata Sudhakar**, G.K. Rajani, Engineering Research Express, 5(1) February 2023, ISSN: 2631-8695
4. Polyimide-based flexible antenna for Telemedicine and wireless applications, **Prathipati Rakesh Kumar**, **B.Y.V.N.R. Swamy**, **B. Siva Hari Prasad**, K. Rama Krishna, A. Narendra Babu, Potula Sree Brahmanandam, in Recent Advances in Electrical & Electronic Engineering, 16 (4), December 2022, 10.2174/2352096516666221201095009, 426-435, 2352-0965
5. A Novel approach for Wearable Antenna Design for Biomedical applications, **K.Rani Rudrama**, G.Catherine Christina, R. Teja, P.Niteesh Kumar, M. Anush, K.Srinivasa Rao, Transactions on Electrical and Electronic Materials, Aug-22, 2092-7592
6. Mutual Coupling Reduction in 4x4 MIMO Antenna, Pasumarthi Srinivasa Rao, Kamili Jagadeesh Babu, **Bondili Siva Hari Prasad**, in Telecommunications and Radio Engineering,82(5), 47-57, April 2003, ISSN: 0040-2508, 47-57.
7. Implementation of 10 Gbps optical wireless link for 200 Km inter-aircraft optical communications, **Muppidi Venkata Sudhakar**, G. Rajani,Journal of Optical Communications, December 2022, ISSN: 2191-6322
8. Design of electromagnetic cloak with sequentially connected rectangular split ring resonators for S-band applications, K.Srilatha, BTP Madhav, Krishna J, **B.Y.V.N.R.Swamy**, Anil Badis,AIMS Electronics and Electrical Engineering, 6(4), Oct-22,385-396, 2578-1588

## International Journals done by the Faculty in the period of 2021-2022

1. An efficient low complexity compression based optimal homomorphic encryption for secure fiber optic communication, D.Venu, A.V.R. Mayuri, S. Neelakandan, **G.L.N. Murthy**, N. Arulkumar, Nilesh Shelke, Optik, 252,(February 2022), 168545, 0030-4026 (Print), 1618-1336 (online)

2. Design of 2-port MIMO Antenna for 5G Communications, P.Venkateswara Rao, **Ch.Siva Rama Krishna**, M.Sambasiva Reddy, S. Barathi, Ashwini, 2021(6),(July 2021),4970-4977, 0011-9342 (Print)

## International Journals done by the Faculty in the period of 2020-2021

1. Guruva Reddy, M. Madhavi, **P. Rakesh Kumar** " Compact slotted multiptch antenna with defected ground structure for wireless communication" in Journal of Physics: Conference Series, December 2020, ISSN: 1742-6596 (**SCOPUS Journal**)
2. N. Bhushan Babu, **E.V. Krishna Rao**, KSN Murthy, "Mobile Cluster Head based Routing Protocol to Improve Lifetime of Wireless Mesh Network" in Journal of Green Engineering, PP: 11360-11370, November 2020 (**SCOPUS Journal**)
3. N. Bhushan Babu, **E.V. Krishna Rao**, KSN Murthy, "Minimum Cost, Minimum Interference and Minimum Load (M3) Gateway Deployment Algorithm for Multi- Radio Multi-Channel Wireless Mesh Networks" in International Journal of Engineering Research and Technology, No. 12, November 2020, pp. 4222-4229,(**SCOPUS Journal**)
4. N. Bhushana Babu, **E.V. Krishna Rao**, K.S.N. Murthy "Inter-Gateway Handoff Management using Ant Colony Optimization (ACO) for Wireless Mesh Networks" in International Journal of Engineering Trends and Technology, November 2020, ISSN: 2231-5381, (**SCOPUS Journal**)
5. D. Ram Sandeep, N. Prabhakaran, B.T.P. Madhav, K.L. Narayana, **P. Rakesh Kumar**, " System Investigation from Material Characterization to Modeling of Jute-Substrate-Based Conformal Circularly Polarized Wearable Antenna" in Journal of Electronic Materials", October 2020, ISSN: 0361-5235, DOI: 10.1007/s11664-020-08536-6 , (SCI Journal)

## International Journals done by the Faculty in the period of 2019-2020

1. A. Narendra Babu, Siddarth Shankar Das, K.V. Suneeth, M. Venkat Ratnam, K. N. Uma, M. Durga Rao "Long-term observations of stratosphere-troposphere exchange using MST Radar and Aura MLS measurements over a tropical station Gadanki" in Radio Science, DOI:10.1029/2019RS006969, ISSN:00486604, H-Index-73, May 2020, (SCI JOURNAL).
2. Venkat Rao Pasupuleti, Chinthaguntla Balaswamy, "Optimised routing and compressive sensing based data communication in wireless sensor network". In IET Communications, Vol.14, Issue.6, April 2020, pp.982-993, DOI: 10.1049/iet- com.2019.0130, H.Index-53, ISSN:1751-8636 ,(SCI JOURNAL).
3. E.V. Krishna Rao, J. Ravindra Babu, " Interference reduction in fading environment using multistage multiuser detection techniques" in WSEAS Transactions on Signal Processing, Vol.15, Issue No.6, August 2019, pp:39-46, ISSN:2224-3488, H.Index- 14(SCOPUS JOURNAL).
4. A. Narendra Babu, P. Syam Sundar, Sarat K Kotamraju, Sri Kavya. K. Ch, G.B.G, Tilak, " Design of Compact Parasitic Strio-Loaded CP Antenna with DGS or 5G-IoT Applications", in TEST Engineering & Management, Vol.83, April 2020, ISSN:0193- 4120, pp:4947-4952,H-Index-5,(SCOPUS JOURNAL).
5. P. Lachi reddy, Ch.Sai Ahalya, S. Manoj Reddy, S. Aravind, N. Gopi," GSM path Planng for Blind people sing ultrasonic Sensor, " in Journal of Advanced Researchin Dynamical & Control Systems, Vol. 12, Issue. 2, March-2020, DOI: 10.5373/JARDCS/V2I2/S2020031, pp. 603-609, ISSN: 1943-024X, H-Index-8 (SCOPUS

JOURNAL).

6. Y.S.V. Raman, A. Narendra Babu, A. Satyanarayana, Ch. Manaswitha sri, A. Hareesh, G. Kamal Kumar, "Improving of Spectrum Efficiency using Matched Filter Detection by Cognitive Radio Approach" in TEST Engineering & Management, Vol.83, April 2020, ISSN:0193-4120, pp:16927-16930,H-Index-5,(SCOPUS JOURNAL).
7. B.Y.V.N.R. Swamy, V. Deepak, K.V. Sai Teja, T. Akshay, B. Bhvanesh, " Design and Analysis of compact dual band pentagonal circular ring patch antenna with defeted ground structure for wireless applications", inJournal of Advanced Research in Dynamical & Control Systems, Vol. 12, Issue. 2, March-2020, DOI:10.5373/JARDCS/V12I2/S20201085, pp.697-703 ,ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).
8. B.Y.V.N.R. Swamy, S. Yeshwanth, S.V. Alekhya, A. Pavan Sai, B. Amulya, "Rechargeable Electric Energy Meter using GSM and ARDUINO", inJournal of Advanced Research in Dynamical & Control Systems, Vol. 12, Issue. 2, March-2020, DOI: 10.5373/JARDCS/V12I2/S2020187, pp.714-720,ISSN: 1943-024X(SCOPUS JOURNAL).
9. K. Sasi Bhushan, T. Anjala Thriveni, B. Sri Pushpa Latha, Y. Vamsi Krishna, Ch. Venkata Shiva Shankar, "5 G Massive MIMO Networks along with Maximal SpectralEfficiency and Configurations of Antenna" inJournal of Advanced Research in Dynamical & Control Systems, Vol. 12, Issue. 2, March-2020, DOI: 10.5373/JARDCS/V12I2/S20201086, pp.704-713.ISSN: 1943-024X , H-Index-8, (SCOPUS JOURNAL).
10. B. Siva Hari Prasad , M.V.S. Prasad "Tri Band CP Slot Antenna Backed with Dual FSS Selector" in International Journal of Engineering and Advanced Technology, Vol.8, Issue 6s2, ISSN No: 2249-8958, August 2019(SCOPUS JOURNAL).
11. B. Siva Hari Prasad, Dr.M.V.S. Prasad "Log Periodic Slot Based Monopole Antenna with Defected Ground Structure for Wireless and Satellite Communication Applications" in Journal of Advanced Research in Dynamical & Control Systems, Vol-11, Issue 7 , August 2019, ISSN: 1943-024X (SCOPUS JOURNAL).
12. Bondili Siva Hari Prasad T. Sai Spandana, J. Venkatesh, S. Venkata Avinash,, G. Chandu, "Children Tracking System using Gps and Rfid Technology" inJournal of Advanced Research in Dynamical & Control Systems, Vol. 12, Issue. 2, March-2020, pp. 677-684, DOI: 10.5373JARDCS/V12I2/S20201083, ISSN: 1943-024X, H-Index- 8, (SCOPUS JOURNAL).
13. B. Siva Hari Prasad K. Anusha, S.N.S. Sandhya, T. Roopteja Reddy K. Aishwarya, "Design and Analysis of Uwb Circular Ring Antenna with Defected Ground Structure" inJournal of Advanced Research in Dynamical & Control Systems,Vol. 12, Issue. 2, March-2020, pp.685-696, DOI: 105373/ JARDCS/V12I2/S2021084, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).
14. B. Siva Hari Prasad, M.V.S. Prasad " Design and Analysis of Compact Periodic Slot Multiband Antenna with Defected Ground Structure for Wireless Applications" Progress In Electromagnetics Research M, Vol. 93, June-2020,pp 77–87, ISSN: 1937- 8726. H-Index-29, (SCOPUS JOURNAL).
15. P. Rakesh Kumar, A.Guruva Reddy, K.Satya Prasad,"Design and Analysis of Wideband Circular Ring Fractal Patch Antenna using Defected Ground Structure" International Journal of Advanced Science and Technology, Vol. 29, No. 5, (2020), pp. 9405-9416, Vol. 29, No. 5, April 2020, pp. 9405-9416, ISSN: 2005-4238, H- Index-3, (SCOPUS JOURNAL).
16. P. Rakesh Kumar, M. Pujitha, U. Shanmukha Nadh, G. Bindhu Sai, J. Sivaji Naik,"Design and Analysis of Multiband Microstrip Patch Antenna with Defected Ground Structue for Wireless and Saellite Communication Applications",in Journal of Advanced Research in Dynamical & Control Systems,Vol. 12, Issue. 2, March-2020, DOI:10.5373/JARDCS/V12I2/S20201034, pp: 623-635.ISSN: 1943-024X H-Index-8,



(SCOPUS JOURNAL).

17. P. Rakesh Kumar, M. Pavan Swaroop Reddy, N. Mary Stella, Sk. Ameer Hussain Maa, A. Naga Sai Kumar Reddy, “ Design and Analysis of Compact Ultra wideband Microstrip Patch Antenna using Defected Ground structure for Wireless Applications, in Journal of Advanced Research in Dynamical & Control Systems, Vol.12,Issue.2, March-2020, pp.636-645, DOI:10.5373/JARDCS/V12I2/ S20201035, ISSN: 1943-024X , H-Index-8, (SCOPUS JOURNAL).
18. V. Ravi Sekhar Reddy, G. Raja Rajeswari, B. Sandeep,, S. Ravali, K. Prabhu Kiran “Design of Harmonic Suppressed Rat Race Coupler with Size reduction using single shunt open stub unit”, in International Journal of Advanced Science and Technology, Vol. 29, Issue.03, Feb 2020, pp.3641-3650, ISSN: 2207-6360, H.Index-4 (SCOPUS JOURNAL).
19. V. Ravi Sekhar Reddy, G.V. Sai Divya, B. Bhanu Prakash, B. Ravi Shankar, J. Sailaja “Design of Harmonic suppressed Branch Coupler with size reduction using three shunt open stub unit”, in International Journal of Advanced Science and Technology, Vol. 29, Issue.03, Feb 2020, pp.3651-3659, ISSN: 2207-6360, H.Index-4, (SCOPUS JOURNAL).
20. Venkata Rao pasupuleti, Ch. Bala Swamy “Integration of Compressive Sensing and Clustering in wireless sensor networks” ” in International Journal of Engineering and Advanced Technology, Vol.8, Issue 6s2,ISSN No:2249-8958, August 2019(SCOPUS JOURNAL).
21. Venkat Rao Pasupuleti, Ch. Bala Swamy, “Efficient cluster head selection and optimized routing in wireless sensor networks using bio-inspired earthworm optimization algorithm” in Journal of Advanced Research in Dynamical & Control Systems, Vol-11, Issue 12, November.2019, ISSN: 1943-024X, H-Index-8(SCOPUS JOURNAL).
22. Ch.Siva Rama Krishna, R. Kiran Kumar, K. Suresh, D.Bala Pavan Kumar, U. Jayanth, “Intelligent Vehicle Communication for Collision Avoidance”, in Journal of Advanced Research in Dynamical & Control Systems, Vol. 12, Issue. 2, March- 2020, DOI: 10.5373/JARDCS/V12I2/S20201136, pp.1063-1071, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).

## International Journals done by the Faculty in the period of 2018-2019

1. E.V. Krishna Rao, B. Suneela “Performance Improvement of MB-MF-SIC Detector system using Nakagami-m Fading channel”, Journal of Advanced Research in Dynamical & Control systems, ISSN:1943-023X, Vol.10, Special Issue-07, H-Index –6 July 28, 2018 ,H-Index – 6, Scopus Indexed Journal
2. E.V. Krishna Rao, B. Suneela “Multi user-Multiple Input Multiple output Detector Capacity Enhancement by Resource Allocation in Transmission of Physical Layer Network” in Journal of Computational and Theoretical Nanoscience, H-Index-40” Vol-16, Impact Factor: 0.45, Scopus Indexed Journal
3. E.V. Krishna Rao, B. Suneela “Performance Assessment of MB-MF-SIC Detector using Space Time Block Codes” in International journal of simulation: systems, science & technology , ISSN: 1473-804X, Vol 19, N0 6, DOI: 10.5013/IJSSST.a.19.06.23 , H-Index – 17, December 2018 , Impact Factor: 0.05, Scopus Indexed Journal
4. E.V. Krishna Rao, B. Suneela “ Performance Improvement of Mb-Mf-Sic Detector using Resource Allocation approach”, in Journal of Advanced Research in Dynamical & Control Systems, Vol.10, Issue 07, ISSN:1943-023X , H-Index – 6 July 2018, Scopus Indexed Journal

5. G. Srinivasulu, G.N.V. Sai Krishna, M. Sravani, A. Krishna Vamsi, "Implementation of Rural Warehouse Monitoring System using AURDINO and GSM", International Journal of Technical Innovation in Modern Engineering & Science, Vol.5, Issue.5, May 2019, pp: 611, ISSN No: 2455-2585(UGC Approved Journal)
6. M. Venkata Sudhakar , K.Lakshmi, "Development of Electronic System to Examine the Quality of Drinking Water," International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.8, No 8, 2019, pp.1707-1709. Scopus Indexed Journal
7. M. Venkata Sudhakar, U. Sirisha, K. Sudheer Kumar, K. Ramya "Development of Lesser Complexity Transmitter and Receiver for Generalized Frequency Division Multiplexing Systems," International Journal of Innovative Technology and Exploring Engineering (IJITEE) , Vol.8, No 8, 2019, pp.1548-1550 Scopus Indexed Journal
8. M. Venkata Sudhakar, "Development of Delay Line Filtration based Dispersion Management Optical Fiber System," International Journal of Innovative Technology and Exploring Engineering (IJITEE) Vol.8, No 7, 2019, pp.2599-2601. Scopus Indexed Journal
9. P. Rakesh Kumar, A. Guruva Reddy, K. Satya Prasad, "Equivalent Circuit Model of Novel Tri-Band Defected Ground Structure Based Patch Antenna for WIMAX/WLAN Applications" in Revista De La Facultad De La Universidad Del Zulia" Vol.34, Issue. 4, Aug 2018. SCI JOURNAL
10. P. Rakesh Kumar, A. Guruva Reddy, K. Satya Prasad" Design Analysis of Wideband Hexagonal Circular Ring Patch Antenna using Defected Ground Structures", Journal of Advanced Research in Dynamical and Control systems, Vol.11, Issue.2, ISSN No: 1943-023X, May 2019, Scopus Indexed Journal
11. Mr.P.Rakesh Kumar, Minakshmi Shaw, B T P Madhav, Pradeep Kumar, Manas Ranjan, "Analytical Study on Lowpass Filter with I-Shaped Defected Ground Structures for Medical ISM Band Applications" International Journal of Pharmaceutical Research, ISSN:0975-2366, Vol 10, Issue 3,Page No 565-573,July- September 2018, DOI: 10.31838/ijpr/2018.10.03.025 , Impact Factor-1.91 , Scopus Indexed Journal
12. P. Rakesh Kumar, K.V.N. Kavya, Ch.J.V. Madhavi, K. Vinay Kumar "Design and Performance Analysis of Wideband Hexagonal Ring Antenna with Defected Ground Structure", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Vol.8, Issue-7, May 2019, Scopus Indexed Journal
13. B.Y.V.N.R Swamy, Dr.P.Siddaiah "Design of a compact wide Band MIMO antenna with improved Isolation by Decoupling structure made by EBG", Journal of Advanced Research in Dynamical & Control systems, ISSN:1943-023X, Vol.10, Special Issue-04, Page No 1986- 1994, September 20, 2018, H-Index – 6,Scopus Indexed Journal
14. B.Y.V.N.R. Swamy, Dr. P. Siddaiah, "Design of a Compact 2X2 Multi Band MIMO Antenna for wireless Applications", International Journal of Recent Technology and Engineering, Vol.7, Issue 6, April 2019 pp:674-683, ISSN: 2277-3878 Scopus Indexed Journal
15. B. Siva Hari Prasad, T. Madhu Priys, T. Pavan Kumar" Design of Wide Band Microstrip Patch Antenna for X-Band and KU-band Applications", International Journal of Technical Innovation in Modern Engineering & Science, Vol.5, Issue 4, April 2019, PP:30, ISSN No: 2455-2585(UGC Approved Journal)



16. M. K. Linga Murthy, "Compact Design of Hexagonal Monopole Antenna for UWB Applications", Global Journal of Engineering Science and Researches, Sep-2018, pp:429 (UGC Approved Journal)

## International Journals done by the Faculty in the period of 2017-2018

1. **P.Rakeshkumar**, A.GuruvaReddy, K.satya Prasad "Equivalent circuit model of novel tri band Defected Grounded Structure based patch antenna for WiMax/WLAN applications" Revista de la Facultad de Agronomia de la Universidad del Zulia journal, ISSN:0378-7818,2017,Voloume no 34-4 issue, Page No :638-645, **Impact Factor 0.145**,H Index-5, **SCI Journal**
2. **Dr.A. NarendraBabu**, Venkataramanaiah G "A Comprehensive Technical Study On Mst Radar Signals For Enhancement Of Snr"Journal of Advanced Research in Dynamical and Control Systems,Oct 2017,Vol. 9, Issue 6,**Pages:** 221-231,ISSN:1943-023x,Impact Factor:0.135,**SCOPUS Indexed Journal**
3. **A. Narendra Babu**, O. Mounika, K.Srinivasa Rao " NEURAL NETWORK APPROACH FOR ENERGY EFFICIENCY IN CELLULAR SYSTEM" International Journal of Pure and Applied Mathematics,Volume 117 No. 18 2017, 271-277,ISSN: 1311-8080,Impact Factor:0.394, H Index-6,**Scopus Indexed Journal**,
4. **K.RaniRudramma**, AfrozBanuSyed"Analysis and Implementation of Fault Tolerant Parallel FFTs & IFFTs Using Parity SOS and ECC" International Journal of Applied Engineering Research ,Research India Publications,Volume 12, Number 19 (2017) pp. 8316-832,ISSN 0973-4562, H Index-35,**Scopus Indexed Journal**
5. **K.RaniRudramma**,P. Siddaiah, Dr. M. N. Giri Prasad , "Design and Analysis of Band Notched Wide Band MetamaterialIntegrated U &T Shaped Patch with Strip Line Antenna for WirelessApplication"Helix Vol. 8(1): 2747- 2752,ISSN 2319 – 5592 (Online),DOI 10.29042/2018-2747-2752.2017,**ESCI Journal**
6. **B.Y.V.N.R Swamy**,P. Siddaiah "Orthogonal Polarization Position Based MIMO Antenna For Wireless Applications" Helix, Vol. 8(1): 2658- 2663, ISSN 2319 – 5592 (Online) DOI 10.29042/2018-2658-2663,**2017,ESCI Journal**
7. **A. NarendraBabu**, **S.V. Jagadeesh Chandra**, **G.SrinivasaRao**,Y.Ramyanka " Lung Nodular Pattern for Interstitial Lung Diseases Using Neural Network Classification" International journal of research in electronics and computer engineering, IJRECE VOL. 5 ISSUE 3 JULY.-SEPT. 2017, ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE),UGC Approved Journal
8. **Dr.A.NarendraBabu**, R.DeepikaLakshmi,G.SuramaPriya, P.Indraja, P.Apurva "Novel Approach for colour object recognition " International Journal of Research , April 2018,Vol-5 Issue 12, ISSN 2348-6848,UGC Approved Journal
9. **M.V. Sudhakar**, A. Kavya, M. Nagamalli, V. Bhavya, J. S.Susan "Design of Automatic Irrigation System using Arduino and IoT" International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal.
10. **Dr.M.V.Sudhakar**, Y.SuryaTejaswi, B.Kavya, P.Divya, N.Mounica,"Human Arm Controlled Wireless Robotic Arm" International Journal of Research, Volume 05 Issue 12, April 2018, ISSN: 2348-6848,UGC Approved Journal

11. **Dr.Y.S.V.Raman**, U.Anusha, P.HemaSathvika, P.Divya,Sk.Jaheda Begum “Smart Prepaid Electricity Energy Metering and Power Theft Control System using GSM” International Journal of Research , April 2018,Vol-5 Issue 12, ISSN 2348-6848,UGC Approved Journal
12. **Dr.Y.S.V.Raman**, G.Ahalya, V. Raja Rajeswari, Sk. Rubeena, G.Asha “Enhanced Security for School bus Tracking System based on RFID, GPS & GSM” International Journal of Research, Volume 05, Issue 12, April 2018, ISSN: 2348-6848,UGC Approved Journal
13. **B. Siva Hari Prasad**, Chsiva Naga Malleswary “ Brain Tumour Identification Using NN Classification by Wavelet Transform Method in MRI Images “International journal of research in electronics and computer engineering, IJRECE VOL. 5 ISSUE3 JULY.-SEPT. 2017, ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE),UGC Approved Journal
14. **K.RaniRudrama**,D.Venkata Rahul, G.UdayaBhskar, N.SaiRaghava, Y.Midhun Kumar “Gesture Control Robotic Vehicle” International Journal of Research , April 2018,Vol-5 Issue 12, ISSN 2348-6848,UGC Approved Journal
15. **Dr A.NarendraBabu**, VeeravajhulaSarvani, MarripudagalaSowmya, Upthala Sai Jyothi, Bhimavarapu. Madhuri Lakshmi “CHAOTIC PROCURE KEY GENERATION AND DIGITAL LOCKING” INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS, Vol- 6, Issue- 1 March 2018,ISSN:2320- 2882
16. **B.SivaHariPrasad**,Nagarjuna, V. Srikanth, J.V.S.R.K. Prasad “Dual Band H-shaped Antenna-filter-antenna based frequency selective surface for Q-band applications” INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS,Vol- 6, Issue- 1 March 2018,ISSN:2320-2882.
17. **P. Rakesh Kumar**, ChVijayaDurga Prasad, Y.Bharath, G.Rajesh Yadav, V V Sai Manoj “Home Automation using Smart Technolgy” International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 6, IssueIII, MARCH 2018, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor:6.887,UGC Approved Journal
18. **P.Rakeshkumar**, G.Meenakshi “ Skin Lesion Classification of MELONAMA Using ABCD Parameters by Contour Edge Detection” International journal of research in electronics and computer engineering, IJRECE VOL. 5 ISSUE 3 JULY.-SEPT. 2017, ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE),UGC Approved Journal
19. **B.Y.V.N.R Swamy**, D. Rama Krishna, ChPurnaChandu, K Venkatesh, A Sasidhar Reddy “Underground Cable Fault Detection” International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5 Issue XI, November 2017, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor:6.887,UGC Approved Journal
20. **V.RavisekharaReddy**,N .Sai venkat, , A. Ravindra, Y. Sreekanth “Miniaturization of Rat-race coupler with Harmonic suppression technique” ” International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
21. **L. SriinivasaReddy**,T. Avinash Reddy, G. Sai Ram, B. BhanuSankar, K. Mahesh Venkat “Object Following Robot Using Raspberry Pi and Open CV – Python” ”International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
22. **P.VenkatRao**,N. Rajithkumar, D. Tanususwaran, G.V.S. Baba, T. Ramudu,” An IoT Based Vehicular Pollution Monitoring System Using Arduino “International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
23. **K.Lakshmi**, A.Naga Sai Bhavani, M.GopiKrishna,V.Vinay Kumar “Detection and Preventive Measures of Leaf Diseases Using MATLAB and IOT “ IJCRT, April 2018, Vol-6, Issue-2, ISSN: 2320-2882,UGC Approved Journal
24. **M.RamyaHarika**,K.CharanTeja, D.SaiTeja, G.Chaitanya, MvrPratyush“Ultrasonic Blind Walking Stick Using Voice Control through Mobile App“ International Journal of Research

25. **Ch Siva Rama Krishna**, M.V.V Sathyanarayana, T Giridhar Kumar, M Krishna Chitanya, G Koteswra Rao “Face Recognition Enabled Smart Door using Raspberry Pi” International Journal for Innovative Engineering and Management Research (IJIEMR), Volume 7 Issue 4, November 2017, ISSN: 2456-5083, April 2018
26. **M V L Bhavani**, B Rama Krishna Karthik, V Rama Krishna Reddy, Ch Sai Eswar Reddy, “Driver Assistance Vehicle with Road Sign Detection using Raspberry Pi” International Journal of Research, Volume 05, Issue 12, April 2018, ISSN: 2348- 6848, UGC Approved Journal
27. **Ch. V. Naga Bhaskar, T. Anil Raju**, K. SrinivasaLokesh “ Chessboard Recognition and Object movement Identification System Using Real Time Principal Component Analysis Technique” International Journal of Robotics and Information Technology, November 2017, Volume 1, Issue 1, ISSN : 2001-5569, UGC Approved Journal

### International Journals done by the Faculty in the period of 2016-2017

1. **P.Rakesh kumar**, K.satya Prasad, A.GuruvaReddy “DUAL POLYGONAL SLITSQUARE PATCH WITH DEFECTED GROUND PLANE FOR TRI BAND OPERATION” Microwave and Optical Technology Letters, DOI 10.1002/mop, Vol.59, No 5, ISSN:08952477, Impact factor 0.57, **SCI JOURNAL**
2. **A. NarendraBabu**, R. Mastanaih, P. S. Brahmanandam, and K. Krishna Reddy, “ Studies of Two Important Stability Indices of Earth’s Atmosphere determined by using the COSMIC GPS Radio Occultation Technique”, Indian Journal of Science and Technology, Vol 9(38), DOI: 10.17485/ijst/2016/v9i.38/98595, October 2016, ISSN:09746846 **Scopus Indexed Journal.**
3. **Alur NarendraBabu, S.V. Jagadeesh Chandra ,G.Srinivasa Rao** “Personal Identification Using Left and Right Palmprint Images by Steerable Filter” International Research journal of Engineering and Technology, Volume -3, Issue- 9, September 2016
4. **K.N.Prakash, P.RakeshKumar, Y.Padma** “Dual Tree Complex Wavelet Transform for Medical Image Fusion” International Research journal of Engineering and Technology, Volume -3, Issue-9, September 2016
5. **K. Rani Rudrama, P.RakeshKumar, T.ManiKanta Reddy** “Reversible Image Data Hiding with Contrast Enhancement” International Journal of Innovative Research in technology, September 2016, Vol-3 Issue 4, ISSN 2349-6002

### International Journals done by the Faculty in the period of 2015-2016

1. **Alur NarendraBabu, B.K.N.Jyothirmai** “A Pilot Study on Emotion Recognition System Using Electroencephalography (EEG) Signals” International Journal of Electrical, Electronics and Computer Systems (IJECS) ISSN (Online): 2347- 2820, Volume -3, Issue-7 2015
2. **B. Siva Hari Prasad, D. Prasanth Varma**, “Shadow Detection and Enhancement of Satellite Images Using Morphological Filtering and MRF” *International Journal for research in emerging science and technology, volume-2, issue-8, 2015.*
3. **B. Siva Hari Prasad, D. Prasanth Varma**, “An Enhanced and Reliable Shadow Detection and Reconstruction using Exemplar Based Learning” *International Journal of Scientific Engineering and Technology Research* Volume.04, Issue No.21, July-2015, Pages: 4012-

4. **P.RakeshKumar, N.Ramya**” De-Interleaving And Identification Of PulsedRadar Signals Using ESM Receiver System”International journal of advanced research in electrical ,electronics and instrumentation engineering,Vol. 4, Issue 7,July 2015,ISSN (Print) :2320 – 3765
5. **V. Ravi Sekhara Reddy , G. Naga Subba Rao** “Color Extended Visual Cryptographyfor Visual Quality Improvement” *IJSRD - International Journal for Scientific Research & Development*/ Vol. 3, Issue 07, 2015 | ISSN (online): 2321-0613
6. **L.SrinivasReddy,LakshmiNagasaipriyanka**”OpportunisticSpectrun access of Cognitive networks and performance measurement” International journal of research in electronics and communication engineering,Vol-4,Issue-1,ISSN:2321- 5593,september 2015
7. **K.RamaKrishna,G.SambasivaRao**”Design and simulation of dual band planar inverted F Antenna(PIFA) for mobile handset application” International journal of antennas,Vol,No.1,2015,ISSN:2455-7897.
8. **K. Rani Rudrama, K. Tejasri,** “ IMAGE ENHANCEMENT USING WAVELET DECOMPOSITION, SUPER RESOLUTION ALGORITHM & LUM FILTERS International Research Journal of Engineering and Technology, Volume: 02 Issue: 05 , Aug-2015.

## CONFERENCES

### Conferences Attended by the Faculty in the period of 2022 -2023

1. **A miniaturized metasurface based dielectric resonator antenna for wireless communications, B.Y.V.N.R. Swamy, V. Sathvika, V. Venkatesh, K. Narendra Reddy,** International Conference on Signal processing and communication March 23-24 2023 Coimbatore, Online (22-05-2023), Karunya University, 979-8-3503-0077-2
2. **Development of Embedded Assistive Smart Helmet for Bike riding using Intelligent process, M.Venkata Sudhakar, V. Sowjanya, V.V.RangaSai, O.Sudheer Kumar and V.Barghava, IEEE 1st International Conference on Smart and Sustainable Technologies in Energy and Power Systems SSTEPS – 2022, 7th - 9th Nov, 2022 (online May 2023)**
3. **Smart Routing System in Wireless Sensor Networks, Kapil Joshi, VirenderKhurana, Ch.Siva Rama Krishna, Mohammed Azam, Yashpal Sing, LalitJohari,** in International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES-2022),at St. Joseph’s Institute of Technology (Autonomous), Chennai, India July 2022, 323-328
4. **Wireless Communication Design Using Neural Networks and Deep Learning, Rajesh Singh, VirenderKhurana, M.Sambasiva Reddy, RanjeetYadav, RachitJangir, DhirajKapila,** International conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems(ICSES-022), Organized by St. Joseph’s Institute of Technology,Chennai, 15-16 July 2022. 317-322 (October 2022 Online)

## Conferences Attended by the Faculty in the period of 2021 -2022

S.No	NAME	PROGRAMME	PLACE	PERIOD
1.	Parthipati Rakesh Kumar, B Siva Hari Prasad, Kudumula Srilatha and Chopparapu. Yogendr	International Conference on Intelligent Manufacturing and Energy Sustainability “A Compact Wide Band Rectangular Patch Antenna for Wireless Applications”	Malla Reddy College of Engineering and Technology, Hyferabad	24-25 June 2022

## Conferences Attended by the Faculty in the period of 2020 -2021

S.No	NAME	PROGRAMME	PLACE	PERIOD
1.	Prof B. Ramesh reddy	International Conference on Intelligent computing in control and communication “ <b>Shaped Beams from Circular Aperture Antennas</b> ”	Aditya Institute of Technology and Management, Tekkali, Srikakulam	07 - 08, August 2020.
2.	Mr P.Rakesh Kumar	First International Conference on Advances in Physical Sciences and Materials “ <b>Compact Slotted Multiband Patch Antenna with Defected Ground Structure for Wireless Communication</b> ”	SNS College of Technology, Coimbatore, Tamil Nadu	13 - 14, August 2020.

## Conferences Attended by the Faculty in the period of 2019 -2020

1.	Mr. P. VenkataRao	“Air Quality prediction of Data Log by Machine learning, in International Conference on Advanced Computing & Communication Systems,	Sri Eshwar College of Engineering, Coimbatore,	April 2020
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## Conferences Attended by the Faculty in the period of 2018 -2019

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	<b>P. Rakesh Kumar</b>	International Conference on Advanced Communication Technologies “ <b>Design and Analysis of Wideband Hexagonal Circular Ring Patch Antenna using defected ground structures</b> ”	Sir C R Reddy Engineering College	26 th – 27 th April, 2019
2	<b>B.Siva Hari Prasad</b>	International Conference on Computational and Intelligent Techniques for Automation of Engineering Systems “ <b>TRI BAND CP SLOT ANTENNA BACKED WITH DUAL FSS REFLECTOR</b> ”	GEC, Gudlavalleru	Nov 30-Dec 1, 2018

## Conferences Attended by the Faculty in the period of 2017 -2018

1	<b>P.Venkat Rao</b>	International Conference on Computational and Intelligent Techniques for Automation of Engineering Systems” <b>Integration of Compressive Sensing and clustering in Wireless Sensor Networks using Block Tridiagonal Matrix Approach</b> ”	GEC, Gudlavalleru	Nov 30-Dec 1, 2018
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2	Mr B.Siva Hari	International Conference on Electrical,Electronics.Computers,Communicatio,Mechanical and Computing(EECCMC) “ <b>Multilayer Bandstop Frequency Selective Structures with multiple transmission Zeros/Poles</b> ”	Priyadarshini engineering college,Vaniyambadi,Tamilnadu	28 <sup>th</sup> -29 <sup>th</sup> January 2018.
3	Mr B.Y.V.N.R. Swamy	Conference on Signal Processing and communication engineering systems SPACES-2018 “ <b>Designing a compact MIMO antenna by inverting SRR element to improve performance</b> ”	KLEF,Vadeswararam	4 <sup>th</sup> -5 <sup>th</sup> January 2018.
4	Mr B.Y.V.N.R. Swamy	International Conference on Advanced Communication Systems “ <b>Design and Analysis of a 4 element Dual band MIMO antennas with meta material based reduced ground plane for future wireless applications</b> ”	S.V.Engineering College for Women,Tirupathi	20 <sup>th</sup> -22 <sup>nd</sup> October 2017
5	Smt Rani Rudrama Kodali	International Conference on Advanced Communication Systems “ <b>Metamaterial inspired band notched wideband antenna with an integration of U and T shaped patches with strip lines wireless applications</b> ”	S.V.Engineering College for Women,Tirupathi	20 <sup>th</sup> -22 <sup>nd</sup> October 2017

### Conferences Attended by the Faculty in the period of 2016 -2017

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Mr B.Y.V.N.R. Swamy	National conference on Communication,antennas and signal processing” <b>A compact printed MIMO Antenna for WLAN applications</b> ”	Acharya Nagarjuna university ,Guntur	24 <sup>th</sup> march 2017
2	Mr B.Siva Hari Prasad	National conference on Communication,antennas and signal processing “ <b>3D Dual-Polarized Frequency Selective Surface with Two Transmission Poles and Pseudo Elliptic Response</b> ”	Acharya Nagarjuna university ,Guntur	24 <sup>th</sup> march 2017
3	Smt Rani Rudrama Kodali	National conference on Communication,antennas and signal processing “ <b>Design &amp; Analysis of a NewMetamaterial Structure to Enhance Antenna Performance for S - Band Applications</b> ”	Acharya Nagarjuna university ,Guntur	24 <sup>th</sup> march 2017



# Patents Published

## Details of Patents –03 (2022-23)

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	Light Emitting Diode Module	<b>Dr.PoornaiahBilla,</b> Dr.P.Ranjith Kumar Dr.C.Sateesh Kumar Reddy Mr.Anandbabu Gopatoti	377320-001	16-03-2023
2.	T-Slits on Circular Patch Antenna System and Method to Establish IoT Applications	Applicant: Lakireddy Bali Reddy College of Engineering (Autonomous), <b>Ede Venkata Krishna Rao</b>  Name of the inventor: <b>Ede Venkata Krishna Rao</b> Gadameedi Dinesh Kumar, BhukyaSrinivasarao U.V.RatnaKumari M. Sree Ram Kiran Kethavath Kumar Nayak	202241075829	06-01-2023
3.	A rectangular A-Shaped Microstrip Patch Antenna with defected Ground Structure for Wireless communications	Applicant: Lakireddy Bali Reddy College of Engineering (Autonomous), <b>Dr.P.Rakesh Kumar,</b> <b>Dr.E.V.KrishnaRao</b>  Name of the inventor: <b>Dr.P.Rakesh Kumar,Dr.E.V.KrishnaRao,</b> A. Uma Maheswari, Y. Sirisha, K. Kushal Kumar, D. PavanGurudev	202341002404A	17-02-2023

## Details of Patents –01 (2021-2022)

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	A Kind of low profile SIW cavity-Backed L-Shaped Slot Antenna	Mr.BollavathiLokeshwar, Dr.DoraiVenkatasekhar, Dr.JammalamaduguRavin dranath, Mr.Katta Anil Kumar, Mrs Nagvalli Vegesna, <b>Dr.Y.V.N.R. Swamy,</b> Mrs. Kalidindi Lakshmi Divya, Mrs. D.V.N. Bharathi, Mrs. Samanthapudi Swathi	202241014976	25-03-2022



## FDPS/Workshops Organized

AcademicYear	Name of Event	Duration	Funded
2022-23	"Five Day Faculty Development Programme on Advanced Communication systems	05h -09h June 2023	COLLEGE
2021-22	Five Day Faculty Development Programme on Recent Trends in Communication Systems	21th-25 June 2022	COLLEGE
2020-21	FDP on "Challenges and Advances in Communication in 5G"	14th-18th June, 2021	COLLEGE
2019-20	Five Day Faculty Development Programme on RECENT TRENDS IN ADVANCED COMMUNICATIONS	4 <sup>th</sup> to 9 <sup>th</sup> May,2020	COLLEGE
	Three Day Faculty Development Programme on Recent Advancements in Communication Technology	4 <sup>th</sup> to 6 <sup>th</sup> November,2019	COLLEGE
2017-18	One week Faculty Development program on "Design and Analysis of RF Antennas Using HFSS"	13 <sup>th</sup> to 18 <sup>th</sup> November,2017	COLLEGE
2016-17	A Three Day Faculty Development Program On "Design and Analysis of RF Antennas Using HFSS"	28th-30th November 2016.	COLLEGE

## Invited Guest Lectures

Academic year	Name of Event	Date
2022-23	GUEST LECTURE ON "Computing methods and Techniques for Computer Technology	27.02.2023
2021-22	GUEST LECTURE ON "Opportunities in Core companies"	3.04.2022
2020-21	GUEST LECTURE ON "INTRODUCTION TO ANALOG CIRCUITS	12.06.2021
	GUEST LECTURE ON "Embedded Communication Protocols"	08.06.2021
2019-20	Guest Lecture on APPLICATIONS OF LABVIEW/MULTISIM/myDAQ	10.02.2020
	GUEST LECTURE ON ADVANCES IN TELECOM TECHNOLOGY	27.08.2019
2018-19	Guest Lecture on 5G Technologies (The New Era of Communications) by Koteswara Rao Kondepu from University of Pisa, Italy.	07-09-2018

## Books/ Chapters Published

S.No	Name of Book	Author	Publisher	Date	ISSN Number
1.	A Compact wideband rectangular patch antenna for wireless applications, Part of Smart Innovation, Systems and Technologies, Intelligent Manufacturing and Energy Sustainability, ICIMES 2022	P. Rakesh Kumar, B. Siva Hari Prasad, K. Srilatha, Ch. Yogendra	Springer	21-06-2023	978-981-19-8497-6
2.	Book: Part of the Algorithms for Intelligent Systems book series (AIS) Chapter: Simplified Design of IMC Tuned PID Controller for Integrating Process based on Maximum Sensitivity Conference: Proceedings of International Conference on Communication and Computational Technologies	VenkataSudhakar M	Springer	27-09-2022	978-981-19-3951-8_7
3.	Modeling of IOT Enabled Parking Management using Mobile Application	Dr. Venkata Sudhakar Mupidi	Lambert Academic Publishing, Germany	29-06-2021	978-620-3-92776-4
4.	Development of IOT Based System for Monitoring Agriculture Parameters	Dr. Venkata Sudhaka	LAP LAMBERT PUBLISHING	2019	978-620-0-07799-8
5.	Design of Optical Fiber Systems Using Optical Filters	Muppidi Venkata Sudhakar	LAP: Lambert Academic Publishing.	28-08-2017	978-620-2-02320-7

## Research Colloquiums

<b>Academic Year (2022-23)</b>			
S.No	Date	Faculty Name	Title of Presentation
1.	18-08-2022	Dr. A. Narendra Babu	Awareness on Incubation, Innovation and Entrepreneurship
2.	18-08-2022	Dr. P. Rakesh Kumar	Implementation of National Innovation and Start- up Policy (NISP)
3.	03-02-2023	Mr. M. Sambasiva Reddy	Python and MatLab / Octave Based Winter Training School on “ <b>Massive MIMO, mmWave MIMO and Spatial Modulation</b> ”.
4.	17-02-2023	Dr. P. Rakesh Kumar	LabVIEW Real Time Applications
5.	03-03-2023	Smt. K. Rani Rudrama	Design and Analysis of Fractal Antenna for Wideband Applications
6.	10-03-2023	Smt. M V L Bhavani	Innovations and Inclinations in Microwave and Millimeter wave antennas
7.	31-03-2023	Smt. M. Ramya Harika	Design for Testability (DFT)-Introduction, Scan Insertion, Scan Compression
8.	21-04-2023	Mr. Ch. Siva Rama Krish	Implementation of BPSK using SDR

<b>Academic Year (2021-22)</b>			
S.No	Date	Faculty Name	Title of Presentation
1.	12-11-2021	Smt. K. Rani Rudrama	A Novel Metamaterial Unit Cell Using an Interdigital Capacitor with Non Bianisotropic property
2.	10-12-2021	Dr.V.Ravi Sekhara Reddy	Design of wideband rat race coupler for microwave applications
3.	04-06-2022	Dr. M. Venkata Sudhakar	Discussion on seed money proposal.
4.	10-06-2022	Dr. A. Narendra Babu	Wearable device for physical activity and health care monitoring in sports/ celebrities people.

<b>Academic Year (2020-21)</b>			
S.No	Date	Faculty Name	Title of Presentation
1.	03-10-2020	Dr.P.Rakesh Kumar	DESIGN OF Fractal Antennas for wireless applications
2.	03-10-2020	Mr.V.Ravi Sekhara Reddy	Miniaturized branch line coupler with Harmonic Suppression for wireless communication

<b>Academic Year (2019-20)</b>			
S.No	Date	Faculty Name	Title of Presentation
1.	07-03-2020	Mr.V.Ravi Sekhara Reddy	Design of passive devices for microwave applications
2.	07-03-2020	Mr.B.Y.V.N.R. Swamy	Design and analysis of MIMO antenna for wireless applications
3.	30-12-2019	Dr Y.S.V.Raman	6G Technology
4.	30-12-2019	Dr. M. V. Sudhakar	Development of Optical wireless systems for satellite applications
5.	26-10-2019	Mrs.M.V.L.Bhavani	Cellular communication antennas
6.	26-10-2019	Mrs.K.Lakshmi	Cognitive radio in 5G
7.	14-09-2019	Mr.P.Venkat Rao	Metaheuristic Optimization Algorithms in Engineering
8.	14-09-2019	Mrs.M.Ramya Harika	Resource Allocation for Downlink NOMA systems Key techniques and open issues.

9.	24-08-2019	Mr.V.Ravi Sekhara Reddy	Miniaturized Rat Race Coupler with Harmonic Suppression
10.	24-08-2019	Mr.B.Y.V.N.R. Swamy	Design of compact wideband MIMO Antenna with improved isolation by decoupling structure made by EBG for wireless application
11.	24-08-2019	Mr.Ch.Siva Rama Krishna	Next Generation Cellular Networks and Green Communication
12.	27-07-2019	Dr.A.Narendra Babu	Research Scope in GPS Satellites
13.	27-07-2019	Mr.P.Rakesh Kumar	Design and Performance Analysis of Hexagonal Ring Antenna with Defective Ground Structure.
14.	06-07-2019	Dr Y.S.V.Raman	Reliable Smart Earplug Sensors for Monitoring Human Organs based on %g Technology
15.	06-07-2019	Dr. M. V. Sudhakar	Effect of Dealy line filtering on Enhancement of Transmission Capacity of Optical Fiber Systems
16.	06-07-2019	Mr.B.Siva Hari Prasad	Tried Band CP Slot Antenna Backed with Dual FSS

### Academic Year (2018-19)

S.No	Date	Faculty	Title of Presentation
1.	29-09-18	Mr.Ch.Sivarama Krishna	Spectrum Efficiency for spatially correlated OSFBC-OFDM systems over various adaption policies.
2.	29-09-18	Smt.M.Ramya Harika	Data Encoding Techniques for NOC Architecturs
3.		M.V.L. Bhavani	Smart Security solution for women based on Internet of Things (IOT)
4.	08-09-18	Mr.P.Rakesh Kumar	Design of wearable antennas for health care
5.	08-09-18	Mr. V. Ravi Sekhar Reddy	Microwave Passive Devices for wireless communication
6.	08-09-18	Mr.B.Y.V.N.R. Swamy	Design and Analysis of a 4-element dual band MIMO antenne with Meta-material based reduced ground plane for future wireless applications
7.	18-08-18	Mr.M.V.Sudhakar	Optical Wireless Communications
8.	18-08-18	Smt. K. Rani Rudrama	Design of antennas using new meta material for S-Band applications
9.	18-08-18	Mr.B.Siva Hari Prasad	Design of 3D Frequency selective surface with multiple transmission poles and zeros with good elliptical response
10.	28-07-18	Dr.A.Narendra Babu	Cognitive Science Research-The Brain
11.	28-07-18	Dr.J.Babu	Generation of Cosecant beam from Circular Array Antennas
12.	28-07-18	Dr.Y.S.V. Raman	Channel Allocation in Wireless Communication

### Academic Year (2017-18)

1.	21-04-18	Mr.P.Rakesh Kumar	Dual Polygon slit square patch with defected ground plane
2.	17-03-18	Mr.V.Ravi Sekhar Reddy	Miniaturization of planar passive devices for wireless communications
3.	17-02-18	Mr.B.Siva Hari Prasad	Multilayer Bandstop FSS with multiple transmission poles and zeros along with filtering response much more elliptical
4.	20-01-18	Smt.K.Rani Rudrama	Design & Analysis of a New Metamaterial structure to Enhance Antenna Performance
5.	15-12-17	Mr.B Y V N R Swamy	Design & Analysis of a 4-Element Dual Band MIMO Antenna with Meta-material based defective ground plane for future wireless Application

6.	04-09-17	Dr.M.Venkata Sudhakar	Design of Optical fiber System with optical filter
7.	01-07-17	Mr.P.Rakesh Kumar	Triple-Band Square shaped microstrip planar antenna

### Academic Year (2016-17)

1.	05-12-16	Mr.P.Rakesh Kumar	De-Interleaving and Identification of pulsed Radar signals using ESM receiver system
2.	03-10-16	Mr.P.Rakesh Kumar	Dual Tree Complex wavelet transform for medical image fusion
3.	08-08-16	Dr.A.Narendra Babu	Stability Indices of Earths atmosphere determined by using the COSMIC GPS Radio Occultation Technique.

### Academic Year (2015-16)

1.	03-02-16	Mr.L.Srinivasa Reddy	Oppurtunistic Spectrum access of cognitive networks and performance measurement
2.	03-12-15	Mr.V.Ravi Sekhara Reddy	Color Extended Visual Cryptography for visual quality improvement
3.	03-09-15	Mr.B.Siva Hariprasad	Shadow Detection and Enhancement of Satellite Images using Morphological Filtering and MRF
4.	12-08-15	Dr.A.Narendra Babu	A pilot study on emotion recognition system using EEG signals

## Projects Sanctioned

S.No	Name of Faculty	Title of Proposal	Funding Agency	Amount In Rupees/-	Academic Year
1.	Dr. A. NarendraBabu	Characterisation of atmospheric boundary layer parameters over vijayawada, Andhrapradesh	DST-EXTRA Mural Research scheme SERB	69,00,000	2016-17

## Project Proposals Submitted

Academic Year	Name of The Faculty	Title of Proposal	Scheme / Agency	Amount
2022-23	Dr.A.NarendraBabu Dr.P.Rakesh Kumar Dr.V.Ravisekhara Reddy, Dr.P.VenkataRao, Dr.K.Ravi Kumar	Smart Technologies for Sustainable Smallholder Agriculture, Toys making and Smart Home	TPN/88349 (DST-SEED-SUNIL)	1,13,09,000 /-
	Dr. Rakesh Kumar Prathipati (PI) Dr.PoornaiahBilla(CO-PI) Dr.Ravi Kumar Kandagatla (CO-PI)	“STI HUB for Socio-Economic Empowerment of SC Community through Smart Home and Agro Sector Approaches”	TPN / 83453	117,16,508/-
	Dr. B. Y. V. N. R. Swamy	Design of Wearable Antenna for Health Care	EEQ/2022/001062	33,66,000

2021-22	Dr. A. Narendra Babu	Screening of Soil Enzymes for Identification of bacterial Strains for innovative agriculture practices	ICSSR	-
	Dr P.Rakesh Kumar	Nondestructive Food Inspection Via Electromagnetic Sensing and Imaging for Food quality and safety Assessment Ref No: 202021000946	SERB (EMEQ)	-
2020-21	Dr.M.Venkata Sudhakar	Design of VLSI based Pulse shaping circuits for implementing of Long-reach Fiber to the Home (FTTH) optical communications systems.	RPS Rural AQIS Application ID : 1-9292286820	7,67,000
	Dr.Y.S.V. Raman Dr. A. Narendra Babu	Smart Wheel chair with Navigation system and safety	SERB-CRG	27,70,000/-
2019-20	Dr.M.Venkata Sudhakar	Development of Assistive Embedded System to Monitor the Improvement of Bone Density and Stress Reduction through Yoga, Meditation and Ayurveda	SATYAM	23,71,000
	Mr. P.Rakesh Kumar, Smt. K.Rani Rudramma	Wearable Antennas for Rural Health Care	UGC-STRIDE	38,96,000/-
2018-19	Dr.S.V.Jagadeesh Chandra Dr. A. Narendra Babu	Impact of Seasonal changes on Attention, concentration and problem solving- A Cognitive study	DST- CSRI Cognitive	17,50,000/-
	Dr.M.Venkata Sudhakar	Development of Low Cost and Low Power Optical Transmitter and Receiver Models for 50 GBPS Long-Reach Access Network Applications	SERB -SRG	17,77,700/-
2016-17	Dr. A. Narendra Babu	Characterization of Atmospheric boundary layer parameters over Vijayawada, Andhra Pradesh	DST-EMR	69,40,000/-
2015-16	Mr.P.Rakesh Kumar	Wearable Antenna for health care	UGC-Minor	4,50,000/-

## Student Projects

<b>A.Y:2022-2023</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1	Design and Implementation of Pre-emphasis driver circuit for a 10 Gbps VLC for indoor applications	19761A04C8 20765A0409 19761A0488	Dr.M.V.Sudhakar
2	Design and analysis of circularly polarized patch antenna	19761A0419 19761A0417 19761A0414	Dr.P. Rakesh Kumar.
3	Design of Wideband Patch Antenna for Wireless Applications	19761A0492 19761A04B7 19761A04B1	Dr.P. Rakesh Kumar.
4	Optimizing design of rectangular microstrip antenna	19761A0438 19761A0409 19761A0434	Dr.K. Ravi Kumar.
5	Design of wideband compact branch line balun with harmonic suppressions for wireless communication	19761A0460 19761A0462 19761A0428	V. Ravi Sekhara Reddy.
6	A Metasurface Based Bandwidth Enhancement of Miniaturized Dielectric Resonator Antenna Design For Wireless Communications	19761A0485 19761A04C2 19761A04C4	Dr.B.Y.V.N.R. Swamy.
7	Design And Implementation Of Microstrip Patch Antenna By Using Hfss Software For Bio Medical Applications	19761A04D4 19761A04D6 19761A04G4	Dr.B.Y.V.N.R. Swamy.
8	Design And Characterization Of Wideband Antenna Using Dgs For 5g Applications	19761A04D7 19761A04F2 19761A0411	Dr.B.Siva Hari Prasad
9	Design and Analysis of Multiband Antenna Using DGS for Wireless Applications	19761A04A0 19761A0481 19761A0467	Dr.B.Siva Hari Prasad
10	Design And Analysis Of UWB Antenna with Band Notch Characteristics by a New MTM Slot	19761A0464 19761A0439 19761A0433	Mrs.K. Rani Rudrama.
<b>A.Y:2021-2022</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1	A Compact Wide Band Rectangular Patch Antenna For Wireless Applications.	18761A04E9 18761A04C8 18761A04C5 18761A04H2	P. Rakesh Kumar.
2	Compact Frequency Reconfigurable Patch Antenna With Defected Ground Structure For Wireless Communications.	18761A0402 18761A0458 18761A0420 18761A0435	P. Rakesh Kumar.
3	Design Of Compact Microwave Coupler With Harmonic Suppression For Wireless Communications.	18761A0421 18761A04E4 18761A04F8 18761A0416	V. Ravi Sekhara Reddy.
4	Microstrip Fractal Patch Antenna For 5G Applications Using DGS	18761A0407 18761A0430 18761A0424 18761A0443	B.Y.V.N.R. Swamy.
5	Design Of Wideband Antenna Using Defective Ground Structure.	18761A04F6 18761A04D6 18761A04H1	M.V.L. Bhavani
6	Designing Of Conformal Antenna	18761A04E2 18761A04H5 18761A04C0	K. Bhanu.



<b>A.Y:2020-2021</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1	Design And Analysis Of Reconfigurable Antenna For Wireless Applications	17761A0443 17761A0448 17761A0407 17761A0407	Dr.P. Rakesh Kumar
2	Wearable Antennas For Biomedical Applications	17761A0468 17761A04A3 17761A04A0 17761A0489	Smt. K. RaniRudrama
3	Tri-Band Planar Monopole Antenna Using Defected Ground For Wireless Applications	17761A0465 17761A04A4 17761A0463 17761A04B9	Mr.B. Siva HariPrasad
4	Multi-band 6 shaped microstrip patch antenna for 5g applications	17761A04F1 17761A04C3 17761A04H3 18765A0433	Dr.B.Y.V.N.R. Swamy
5	Analysis and design of antenna for wireless applications	17761A04E9 18765A0435 18765A0438 17761A04C6	Dr.P. Rakesh Kumar

<b>A.Y:2019-2020</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1	Design and Analysis of Compact Dual Band Pentagonal Circular Ring Patch Antenna with Defected Ground Structure for Wireless Applications	16761A04H8 16761A04H9 16761A04H3 16761A04C8	B. Y.V.N.R.Swamy
2	Design And Analysis Of Uwb Circular Ring Antenna With Defected Ground Structure	16761A0429 16761A0446 16761A0449 17761A0405	B. Siva Hari Prasad
3	Design and Analysis of Multiband Microstrip Patch Antenna with Defected Ground Structure for Wireless and Satellite Communication Applications	16761A0434 16761A0451 16761A0417 16761A0418	P. Rakesh Kumar
4	Design and Analysis of Compact Ultra Wideband Microstrip Patch Antenna Using Defected Ground Structure for Wireless Applications	16761A04F6 16761A04F7 17765A0433 16761A04C2	P. Rakesh Kumar
5	Miniaturization Of Rat-Race Coupler With Harmonic Suppression For Wireless Communication	16761A0478 16761A0468 16761A04A2 16761A0474	V. Ravi Sekhara Reddy
6	Design of harmonic suppressed Branch Line Coupler with size reduction using Three shunt open stub unit	16761A04E1 16761A04C5 16761A04C7 16761A04E5	V. Ravi Sekhara Reddy

<b>A.Y:2018-2019</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1.	Design of a Wide Band micro strip patch antenna for X-band and Ku-band Applications	15761A04H2 15761A04F7 15761A04C4 15761A04G1	Mr .B. Siva Hari Prasad
2.	Design and Performance Analysis of	15761A04D9	Mr. P. Rakesh Kumar

	Wideband Hexagonal Ring Antenna with Defected Ground Structure	15761A04E6 15761A04F3 16765A0428	
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<b>A.Y:2017-2018</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1.	Miniaturization of micro strip antenna for wireless applications based on meta materials meta surface	14761A0462 14761A04A2 14761A04B1	Dr. J. Babu
2.	Dual band H-shaped Antenna Filter Antenna based Frequency Selective Surface for Q-band Applications	14761A04C8 14761A04H6 14761A04D9	Mr.B. Siva Hari Prasad
3.	Miniaturization of rat race coupler with harmonics suppression.	14761A04F8 15765A0425 15765A0436	Mr.V. Ravi Sekhar Reddy

<b>A.Y:2016-2017</b>			
<b>S. No</b>	<b>Title of the Project</b>	<b>Regd. No</b>	<b>Name of the Guide</b>
1.	Design of a Multi-Band Microstrip with Defected Ground Structure using HFSS	13761A04F8 13761A04G4 13761A04D8 13761A04D5	Mr.P. Rakesh Kumar
2.	Design of compact branch line coupler with pre determined bandwidth and harmonic suppression	13761A04B4 14761A0413 14761A0424 13761A04B0	Mr.V. Ravi Sekhar Reddy
3.	Design of band stop filter using RAT-RACE Coupler	13761A04B6 13761A04B5 14761A0423 14761A0419	Mr.V. Ravi Sekhar Reddy
4.	Design and Simulation of Planar Inverted F Antenna (PIFA) for Mobile Handset Applications	14765A0427 13761A04E3 14765A0436 14765A0435	Mr. K. Rama Krishna
5.	Design of circular ring FSS in X-band	13761A0433 14765A0408 14765A0410 14765A0404	Mr.B. Siva Hari Prasad