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

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 proving 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	Dr. 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	Comm. Sys. Teaching bundle , 2x USRP-2900, Cables, course ware-S/N-PA2518911, PA2519655, PA2519658, 3Nos. Vert2450-Veritical antenna (2.4-2.5 and 4.9-5.9 GHz, Dual-Band)-6Nos, Vert400-Veritical antenna (Triband-144,400,1200 MHz)-6Nos, Vert900-Vertical antenna- 824-960MHz, 710-1990 MHz-Dual band-6Nos.	6,80,400
4	Microwave Bench setups -7Nos	6,26,000
5	1GHz Spectrum Analyzer -2Nos	2,93,367
6	Antenna Trainer /Micro strip Antenna Trainer Kit	82,761
7	Analog Oscilloscope 30MHz -10Nos	1,62,750
8	Lab-View-Emona kit (ETT-211)- fiber optic trainer -1No	1,45,806
9	70MHz Dual Channel DSO -2No	57,274
10	DELL VOSTRO 3268 Systems -5No	1,45,000

Outcome of Communications Research Group

		2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
Journals	**SCI/ESCI**	03	05	01	01	02	01
	SCOPUS	07	03	00	04	20	12
	UGC	00	00	00	00	00	03
	Paid	00	00	01	00	00	00
Conferences		05	04	01	02	01	02
Books Published		00	02	00	01	01	00
Patents Published		01	03	01	00	00	00
Research Colloquiums		00	08	04	02	16	12
Project Proposals Submitted		00	03	02	02	02	02
Project Proposal Sanctioned		01	00	00	00	00	00

JOURNALS

International Journals done by the Faculty in the period of 2023-2024

1. Pendli Pradeep, Mohammed Mahaboob Basha, Srinivasulu Gundala, Javed Syed, "Development of Wearable Textile MIMO Antenna for Sub-6 GHz Band New Radio 5G Applications" in Micromachines, 15(5), May 2024, ISSN: 2072-666X, H-Index-78, I.F.-3.4, https://doi.org/10.3390/mi15050651

2. Haritha Thotakura, Y.V.N.R. Swamy, K.V.Vineetha, B.T.P. Madhav, Susipta Das, "Design and development of square stub loaded band pass filter with quality factor analysis" in Journal of Instrumentation, 19, May 2024, ISSN: 1748-0221, H-Index-88, I.F.-1.3, https://doi.org/10.1088/1748-0221/19/05/P05019

3. M.Venkata Sudhakar, Rajini G.K, " Effect of the fiber bragg grating based dispersion control on the transmission length of pico second optical pulses in a single mode fiber link" in Nonlinear Optics, Quantum Optics, 59(3-4), May 2024, 263-271, ISSN: 1543-0537, H-Index-22, https://www.oldcitypublishing.com/journals/nloqo-home/nloqo-issue-contents/ nloqo-volume- 59-number-3-4-2024/21616-2/

4. Srinivas Rao Pasumarthi, MVS Prasad, V Ravi Sekhara Reddy, "Triple Band-Notched UWB Planar Monopole Antenna using a circular slots" in Telecommunications and Radio Engineering, ISSN:1943-6009, https://www.dl.begellhouse.com/fr/journals/0632a9d54950b268,forthcoming,51218.html

5. M.Satish Kumar, Sivasubramanyam Medasani, Penchla Reddy Sura, Tathababu Addepalli, Jetti Chandra Sekhar Rao, J Prasanth Kumar, B.Y.V.N.R. Swamy, A.L. Siridhara, "Design of Implantable Antennas for Biomedical Applications" in Telecommunications and Radio Engineering, 83(7), 2024, ISSN: 1943-6009, https://dl.begellhouse.com/fr/journals/0632a9d54950b268,09f4ee5f2cfc4b1f,4c0caafc136be69c.html

6. Penchala Reddy Sura, Padmaja Nimmagadda,Ch Jyotsna Rani, Tathababu Addepalli, Jagadeesh Babu, B.Y.V.N.R. Swamy, A.L.Siridhara, G. Jagadeeswar Reddy, An Asymmetrical PSI-Shaped Multiband Antenna for Wireless Applications, in Telecommunications and Radio Engineering, 83(5), 1-10, 2024, ISSN: 1943-6009, http://doi.org/10.1615/TelecomRadEng.2024051727

7. Pasumarthi Srinivasa Rao, Bondili Siva Hari Prasad, Jagabathuni Kavitha, Uppala Jayaram, UWB Antenna with Triple Band Notch Characteristics, Telecommunications and Radio Engineering, 83(1), October 2023, H-Index-22 ISSN:1943-6009, 53-64. https://doi.org/10.1615/TelecomRadEng.2023049754

8. Prathipati Rakesh Kumar, Pamarthi Sunitha, Makkapati V.S.Prasad, Compact Reconfigurable Patch Antenna for Wireless Applications, Progress in Electromagnetics Research C, 138, October 2023, ISSN:1937-8718, 161-174 , https://doi.org/10.2528/pierc23090102

9. P.Srinivasa Rao, B.Siva Hari Prasad, Jagabathuni Kavitha, Uppala Jayaram, "A Multi-Slot UWB Monopole Antenna with Dual Band Notch Characteristics", in Progress in

Electromagnetics Research C, 138, 79-90, 2023 , ISSN: 1937-8718, https://*doi*.org/10.2528/PIERC23071401

10. M.Venkata Sudhakar, G.Rajani, "Distortion Managed directly modulated on-off keying signal transmission for 10 Gbps visible light communication using electrical filtration" in Journal of optical Communications, July 2023, ISSN:2631-8695,H-Index-33, October 2023, https://doi.org/10.1515/joc-2023-0179

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. Rajini,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 Plannng 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” inTEST 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 earthwormoptimization 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 –6July 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 & ontrol Systems, Vol.10, Issue 07, ISSN:1943-023X , H-Index – 6July 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, V0l.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)

CONFERENCES

Conferences Attended by the Faculty in the period of 2023 -2024

1. K. Rani Rudrama, T. Devaraju, A. Prem Rathan, N. Chandra Sekhar, “ Design and Analysis of wideband antenna using a new MTM slot for Wimax/ Wifi /Wlan and C-band applications” in 7 th IEEE International Conferences on Devices, Circuits and Systems, at Karunya Institute of Technology and Sciences, Coimbatore during 23-24 April 2024.

2. B.Y.V.N.R. Swamy, A. Vamsi Chaitanya, A.V. Anantha Reddy, M. Vijay Babu, “Design and Implementation of Microstrip Patch Antenna using HFSS for Medical Applications”, in 6th International conference on communications and cyber physical Engineering ICCCE 2023, 28-29 April, Hyderabad, 739-746, (online February 2024) , Part of book series Lecture notes in Electrical Engineering, vol.1096, 82, Springer, ISBN: 978-981-99-7137-4 https://doi.org/10.1007/978-981-99-7137-4_72

3. B.Y.V.N.R. Swamy, Ch. Giridhar, M.Ashok Kumar, Sk. Irfan, K. Narsimha Rao, “Microstrip fractural antenna for 5G applications”,in AIP Conf. Proc. 2901 (1),090002(2023), Third International Conference on Advances in Physical Sciences and Materials: ICAPSM 2022, Online December 2023,182-196, ISSN:1551-7616. https://doi.org/https://doi.org/10.1063/5.0179979

4. B.S.Hari Prasad, K.B.N. Devi Priya, B. Sai Kumar, M.Vikram, A fan shaped quad band microstrip patch antenna using defected ground structure for wireless applications, 8 th International Conference on Computing in Engineering and Technology (ICCET 2023) organized by National Institute of Technology in Patna, Bihar, India Patna, India, July 2023, 499-505, ISBN: 978-1-83953-917-6,https://doi.org/10.1049/icp.2023.1539

5. B.S.Hari Prasad, A.Amrutha, P.Harini, S.Pavan Gopal Sai, Design and Analysis of wide-band antenna using defected ground structure for wireless applications, 8 th International Conference on Computing in Engineering and Technology (ICCET 2023) organized by National Institute of Technology in Patna, Bihar, India Patna, India, July 2023, pp-506-513, ISBN: 978-1-83953-917-6.https://doi.org/10.1049/icp.2023.1540

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 "**Shaped Beams from Circular Aperture Antennas**"	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 "**Compact Slotted Multiband Patch Antenna with Defected Ground Structure for Wireless Communication**"	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

Conferences Attended by the Faculty in the period of 2018 -2019

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

Patents Published

Details of Patents –01 (2023-24)

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	An Implementation method for 50 GBPS 200 Km Optical Wireless Communication System using Preemphasis Technique	Dr.M.Venkata Sudhakar, Dt. Satyanarayana Talam	202441014657	08-03-2024

Details of Patents –03 (2022-23)

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	Light Emitting Diode Module	**Dr.PoornaiahBilla,** 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), **Ede Venkata Krishna Rao** Name of the inventor: **Ede Venkata Krishna Rao** 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), **Dr.P.Rakesh Kumar, Dr.E.V.KrishnaRao** Name of the inventor: **Dr.P.Rakesh Kumar,Dr.E.V.KrishnaRao**, 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 peofile SIW cavity-Backed L-Shaped Slot Antenna	Mr.BollavathiLokeshwar, Dr.DoraiVenkatasekhar, Dr.JammalamaduguRavindranath, Mr.Katta Anil Kumar, Mrs Nagvalli Vegesna, **Dr.Y.V.N.R. Swamy**, 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 Facuity 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 Programmeon RECENT TRENDS IN ADVANCED COMMUNICATIONS	4th to 9th May,2020	COLLEGE
	Three Day Faculty Development Programmeon Recent Advancements in Communication Technology	4th to 6th November,2019	COLLEGE
2017-18	One week Faculty Development program on "Design and Analysis of RF AntennasUsing HFSS"	13th to 18th November,2017	COLLEGE
2016-17	A Three Day Faculty Development Program On"Design and Analysis of RF AntennasUsing 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	VenkataSudhakar M	Springer	27-09-2022	978-981-19-3951-8_7

	Communication and Computational Technologies				
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

Academic Year (2022-23)			
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 "**Massive MIMO, mmWave MIMO and Spatial Modulation"**.
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	Imlementation of BPSK using SDR

Academic Year (2021-22)			
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.

Academic Year (2020-21)			
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

Academic Year (2019-20)			
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 Cellualr 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

Projects Sanctioned

S.No	Name of Faculty	Title of Proposal	Funding Agency	Amount In Rupees/-	Academic Year
1	**Dr. P. Rakesh Kumar** **Dr.V.Ravi Sekhar Reddy**	Wearable Antennas for Medical Applications	SEED (LBRCE)	2,05,000 /-	2023-24

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. NarendraBabu	Screening of Soil Enzymes for Identification of bacterial Strains for innovative agriculture practices	ICSSR	-
	Dr P.Rakesh Kumar	Nondestructive Food Inspection Via Electromagnetic	SERB (EMEQ)	-

		Sensing andImaging for Food quality and safety Assessment Ref No: 202021000946		
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

A.Y.2023-24			
S.No	**Title of Project**	**Regd.No**	**Name of the guide**
1	Design and Analysis Of Compact Multiband-Millimeter Wave Patch Antenna	20761A0455 20761A0401 20761A0420	Dr.P.Rakesh Kumar
2	Design and analysis of Circular Petal Flower Shaped	20761A0428 20761A0404	Dr.K.Rani Rudrama

	Microstrip Patch antenna for WLAN/WIMAX ISM band applications	20761A0447	
3	Design and Analysis of Gain-Enhanced Patch Antenna Embedded with Periodic Structure	20761A04C3 20761A0412 20761A0409	Mr.P.James Vijay
4	Design and analysis of Wideband antenna using a new MTM slot for Wi-Fi/WLAN/WIMAX ISM band applications.	20761A04C0 20761A0465 20761A0495	Dr.K.Rani Rudrama
5	Design of wearable patch antenna for wireless for body area network	20761A0479 20761A0493 20761A0485	Mr.M.Siva Sankara Rao
6	Design of a micro strip antenna wide band patch Circular using a combination stub and slit methods For LTE and Wi-Fi Applications	20765A0408 20761A0491 20761A04A9	Mr.Ch.Sivarama Krishna
7	Design of multiband mimo Antenna for 5G applications	20761A04F0 20761A04F3 20761A04I8	Dr.B.Y.V.N.R. Swamy
8	Design of miniaturized branch line coupler with harmonic suppression for wireless communication	20761A04E5 20761A04F5 20761A04I2	Dr.V.Ravi Sekhara Reddy
9	Multi band self grounding antenna for wireless technologies	20761A04H3 20761A04H8 20761A04E9	Mr.Ch.Sivarama Krishna

A.Y:2022-2023			
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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 19761A04I1	Dr.B.Siva Hari Prasad
9	Design and Analysis of Multiband Antenna Using DGS for Wireless Applications	19761A04A0 19761A0481	Dr.B.Siva Hari Prasad

		19761A0467	
10	Design And Analysis Of UWB Antenna with Band Notch Characteristics by a New MTM Slot	19761A0464 19761A0439 19761A0433	Mrs.K. Rani Rudrama.
A.Y:2021-2022			
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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.

A.Y:2020-2021			
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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

A.Y:2019-2020			
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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

	A.Y:2018-2019		
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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 Wideband Hexagonal Ring Antenna with Defected Ground Structure	15761A04D9 15761A04E6 15761A04F3 16765A0428	Mr. P. Rakesh Kumar

A.Y:2017-2018			
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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

A.Y:2016-2017			
S. No	**Title of the Project**	**Regd. No**	**Name of the Guide**
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