



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Accredited by NAAC with 'A' Grade, ISO 9001:2015 Certified Institution

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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## VLSI & ES Research Group

### **Introduction:**

The VLSI and ES Research Group consist of eleven members of the Department of Electronics and Communication Engineering. The objectives of the Group are to investigate aspects of VLSI and ES design and its impact on modern electronic device, circuit and system design, including the development of software and hardware for design automation as well as the implementation of large electronic systems on silicon and gallium arsenide. The research program covers the complete spectrum of VLSI research including: device, circuit and system design, as well as software for IC design. A full array of courses at the graduate and post undergraduate levels is offered to support this research program. The VLSI & Embedded Systems Lab deals with the professional development of combined hardware/software solutions. We particularly specialized on real-time capabilities, and energy-optimization of embedded systems.

### **Objectives:**

The major objectives of the VLSI & ES research group are:

- To provide a solid foundation in Analog, Digital and Mixed mode architecture principles leading to VLSI design.
- To enrich faculty and in turn students to excel in research leading to cutting edge technology in VLSI & ES and creating professionals in this field.
- To understand the various VLSI & ES applications and embedded systems to find solutions viz. comprehend, analyze, design, and create novel products and solutions for the real life problems.
- To conduct research colloquiums, exposure to research activities and research publications by staff and students.

### Major Research Equipments:

S. No	Major Research Equipments/Softwares	Amount
1.	HP Pro 202GI Commercial Desktop Intel Core13-3240 Processor 4GB DDRIII RAM,500GB HDD, HP Compaq 18.5" LED	10,47,600/-
2.	Mentor Graphics Front & Back End Tools	6,26,497/-
3.	Cadence University Bundle	7,49,300/-
4.	Zynq-Zed development Board	2,12,400/-
5.	Zynq-Zed20 development Board	2,05,320/-
6.	Xilinx ISE Design Suite 14.7	1,61,831/-
7.	Vertex -5 Fxt ML506 Kit	1,23,028/-
8.	Spartan-6 Evaluation Board	1,05,703/-
9.	AR7 Development Board	97,645/-
10.	Spartan-3 E with USB Programming cable	95,361/-
12.	XUP Vertex 5 open SPARC Board	72,628/-

### Members of VLSI & ES Group:

S. No	Name	Designation
1	Dr. G. Srinivasulu	Coordinator
2	Dr. Y. Amar Babu	Member
3	Dr. P. Lachi Reddy	Member
4	Dr. B. Poornaiah	Member
5	Dr. T. Satyanarayana	Member
6	Dr. Busi Rambabu	Member
7	Dr. B V N R Siva Kumar	Member
8	Mr. G. Venkata Rao	Member
9	Mr. K. Sasi Bhushan	Member
10	Smt. T. Kalpana	Member
11	Mr. K. V. Ashok	Member
12	Mr. Ch. Mallikarjuna Rao	Member
13	Smt.K.Pavani	Member
14	Mr.N.Dharmachari	Member
15	Smt.K.Balavani	Member

### **Outcome of VLSI & ES Research Group**

		2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17	2015-16
<b>Journals</b>	<b>SCI</b>	04	03	00	00	01	00	00	00
	<b>SCOPUS</b>	03	05	06	23	07	04	01	01
	<b>UGC</b>	02	06	00	11	24	19	03	05
<b>Conferences</b>		10	08	04	01	01	01	07	02
<b>FDPs Organized</b>		04	03	05	04	04	01	02	01
<b>Books Published</b>		03	02	01	01	01	01	00	00
<b>Patents</b>		08	04	01	02	00	00	00	00
<b>Sanctioned Projects /Other Grants</b>		00	00	01	00	01	00	00	00
<b>Project Proposals Submitted</b>		05	03	07	05	02	02	01	02
<b>Research Colloquiums</b>		06	06	09	13	09	11	03	04
<b>Students Projects</b>		34	32	30	30	39	30	24	25

# Research Publications

## International Journal Publications in the Period of 2022-2023

1. Importance of the donor unit on fluoranthene for selective detection of nitro aromatic explosives, Kasthuri Selvaraj, Praveen B, Sharmarke Mohamed, **Satyanarayana Talam**, Venkataramaiah Nutalapati, Journal of Photochemistry & Photobiology, A: Chemistry, 433, Aug-22, 114215, 1010-6030
2. Structural investigations of borate incorporated germanium antimonite glasses, A. Pranav Kumar, S.HimaBindu, P.VenkateswaraRao, K.Naveen Kumar, M. Mohan, **T.Satyanarayana**, M.Sroda, P.Syam Prasad, Results in Chemistry, 4, Jul-22, 100449, 2211-7156.
3. Studies on stability of polymer thick film resistors by using pulse voltage trimming method (PVTM), **Poornaiah Billa**, Y.SrinivasaRao in Journal of Active and Passive Electronic Devices, 17(1), 1-19, May 2023, ISSN: 1555-029X
4. Design of Near-threshold CMOS and TG Based Adder Circuit for Computing Applications, Basha, **Busi Rambabu**, **Gundala Srinivasulu**, Naishadh kumar PV, Journal of Active and Passive Electronic Devices, 16(3), 191-201, December 2022, ISSN: 1555-029X
5. The influence of high voltage impulses on PVC-Graphite Thick Film Resistors, **Busi Rambabu**, **T. Satyanarayana**, **Gundala Srinivasulu**, Y. Srinivasa Rao, in Journal of Active and Passive Electronic Devices, 16(3), 225-231, Dec 2022, ISSN: 1555-029X
6. Smart Energy Meter, **A.Narendra Babu**, Ch V L D Kavya, A. Praneetha, TT Sai Dhanush, TV Ramanaih, K Nideesh, PS Brahmanandam, Indian Journal of Science and Technology, 15, 29, Jul-22, 1451-1457, 0974-6846 (Additional Web of Science Zoological Record)
7. Femto power-delay (FPD) super threshold level shifter network on chip (NoC), **Srinivasulu Gundala**, M. Mahaboob Basha, **Rambabu Busi**, International Journal of Electronics Letters, Nov-22, ISSN: 21681724, 21681732
8. Performance Analysis of on Chip Interconnects for ASIC Design, **Amar Babu.Y**, Lakshmi NeerajaNalluri, Swaroop Dharavathu, Pavani Uppala, in International Journal of Scientific Research in Engineering and Management (IJSREM), 7(3), March 2023, ISSN: 2582-3930, 1-4
9. Design and Implementation of FPGA based Smart Embedded Vision System for Biomedical Applications, **Y. Amar Babu**, S.V.K. Pratap Reddy, N. Banbhushan, P. Venkatesh, K. Tirumala Krishna, in International Journal of Innovative Engineering and Management Research, 12(2), February 2023, ISSN: 2456-5083, 332-336

## International Journal Publications in the Period of 2021-2022

1. Level-up/Level-Down Voltage Level Shifter for Nano-Scale Applications, **Srinivasulu Gundala**, M. Mahaboob Basha, S.Vijaya Kumar, Journal of Engineering Science and Technology, 17(1), (January 2022), 745-759, 1823-4690
2. A Qualitative Review on Tunnel Field Effect Transistor-Operation, Advances and Applications, Sadhu Satya Sravani, B.Balaji, K. Srinivasa Rao, **A. Narendrababu**, M. Aditya, K. Girja Sravani, Silicon
3. An Experimental Performance on Solar Photovoltaic Thermal Collector with Nanofluids for Sustainable Development, **Srinivasulu Gundala**, M. Mahaboob Basha, V. Madhurima, N. Praveena, S. Venkatesh Kumar, Journal of Nanomaterials, 2021, (October 2021), 6946540, 1687-4110(Print), 1687-4129
4. Design of low power SRAM- based ubiquitous sensor for wireless body area networks, Neeraj, K., Mahaboob Basha, M. and **Gundala Srinivasulu**, International Journal of Pervasive Computing and Communications, 17(5), (December 2021), 611-621, 1742-7371 (Print), 1742-738X

5. Study of statistical estimated parameters using ERA5 reanalysis data over khulna region during monsoon season, Ravindranadh Koutavarapu, N. Umakanth, **T. Satyanarayana**, M. Seshu Kumar, M.C. Rao, Dong-Yeon Lee, Jaesool Shim, *Acta Geophysica*, 69(5),(August 2021), 1963-1978, 18956572 (print), 18957455 (online)
6. Studies on Reliability of polymer thick film resistors by using pulse voltage trimming method(PVTM), **Poornaiah Billa**, Y. Srinivasa Rao, *Journal of Active and Passive Electronic Devices*,16(3), (May 2022),1555-0281 (print), 1555-029X (online)
7. Design of Energy and EDP Efficient 1-bit full subtractor based divider circuits for computing systems in *International Journal of System of Systems Engineering*, M.Mahaboob Basha, **Srinivasulu Gundala**, Sibghatullah I.Khan 11(3-4),(March 2022), 257-267, 1748-0671(Print), 1748-068x (online).
8. Comparative Analysis of NAND Gate and D Flip-Flop in Terms of Delay and Power, **G.Venkata Rao**, P.Vineela Sri Charani,Sk.Rahaman,T.Sasank, *International Journal of Innovative research in Technology*, 8(12), May 2022, ISSN: 2349-6002
9. Smart Crop Monitoring and Automatic Irrigation System using Machine Learning and IoT, **Y.S.V. Raman**, P. Suresh, P. Jnana Sudheer, P. Prudhvi, S.Gopi, A. Narendra Babu, *Revista Geintec-Gestao Inovacao E Tecnologias*, 11(4), (July 2021), 2747-2757, 2237-0722(online)
10. Design of High Speed and Low Area Confined Multiplier on FPGA , **Kandagatla Ravi Kumar**, Cheeli Priyadarshini, Kanakam Bhavani, Ankam Varun Sundar Kumar, Palanki Naga Nanda Sai, *Revista Geintec-Gestao Inovacao E Tecnologias*, 11(4), (July 2021), 2736-2746, 2237-0722(online)
11. Development of Wearable Vest for Monitoring Body Health Parameters, **B.V.N.R. Siva Kumar**, B. Vasanthi,K. Pravallika,A.V. Amar Sai Kumar, K. Kiran, *Turkish Journal of Physiotherapy and Rehabilitation*, (August 2021),
12. Design and Implementation of High Speed and Securable FFCKBA” in *Design Engineering*, A.H.S.S.V.Prasad, **Y.Amar Babu**, (July 2021), 7359-7367, 0011-9342 (Print),
13. Smart Door System with Thermal Screening and Mask Detection for Covid-19 Rehabilitation, **Srinivasulu Gundala**, N.Meghana Preethi, G. Tejaswini, Ch. Gayathri, A Harshavardhan Reddy, *Design Engineering*, 2021(7),(August 2021),9554-9561, 0011-9342 (Print)
14. A High Flexible Low-Latency Memory based 5G FFT Processor, **T.Kalpana**, V. Yaswanth Naveen, Y.Manasa, N.Naveen Reddy, *International Journal of Future Generation Communication and Networking*,14(1), (August 2021), 3113-3121, 2233-7857 (Online)

## International Journal Publications in the period of 2020-2021

1. Y. Srinivasa Rao, K.V. Subrahmanyam, **B. Poornaiah**, B. Rambabu, “The Effect of Microwave Trimming on Electrical and Stability Characteristics of Polymer thick film Resistors” in *Journal of Active and Passive Electronic Devices*, Vol.15, Issue-3, pp. 223-242, ISSN:1555-028, **January 2021**
2. **Y.Amar Babu**, Vemireddy Kavaya, “Design of Energy Efficient Ferature Map Encoding Scheme using MLC STT RAM Memory Management”, in *Journal of Critical Reviews*, Vol.7, Issue-16, pp.2191-2196, ISSN: 2394-5125, **H-Index-5, July-2020**, Impact factor-0.6
3. **Srinivasulu Gundala**, Bhanu Konda “Design and Analysis of 4X4 SRAM Array using 22nm Technology”, in *Journal of Critical Reviews*, Vol.7, Issue-16, pp.2176-2183, ISSN: 2394-5125, **H-Index-5, July-2020**, Impact factor-0.6

- 4 **P.Lachi Reddy**, Nunna Swathi “Design of Advanced and Automatic Water Level Meter for Alerting Population about Floods” in *Journal of Critical Reviews*, Vol.7, Issue-16, pp.2176-2183, ISSN: 2233-2238, **H-Index-5**, **July-2020**, Impact factor- 0.6
- 5 **Srinivasulu Gundala**, Kommu Siddhartha Mavovarakumar, Kona Naga Nandini, Sravani Gantala, J. Ravi Sankar Varma, C. Navya, "Development of Optimized Voltage Level Shifter for Nanoscale Applications" in *ARNP Journal of Engineering and Applied Sciences*, Vol.15, No-14, **July 2020**, ISSN: 1819-6608, **H-Index-32**
- 6 RVNS Bharath, U. Moinudin Khan, P. Ramprasad, **Talam Satyanarayana**, G Anusha Reddy, M.C. Rao, “Modeling of Dielectrophoretic Separation Platelets from Red Blood Cells” in *Journal of Critical Reviews*, **July 2020**, Vol. No 7, Issue-06, pp-32-39, ISSN: 2394-5125, **H-Index-5**

### **International Journal Publications in the Period of 2019-2020**

1. **Y. Amar Babu, Yaramala Madhavi**, “ Fault Free FFT Processor Design Using Parsavel Checks” in *International Journal of Advanced Science and Technology*, Vol.128, Issue No. 01, **July 2019**, pp:1-8, ISSN: **2207-6360**, **H-Index-4 (SCOPUS JOURNAL)**.
2. **Y. Amar Babu, B. Sri Krishna Priya, K. Reshma, A.V. Satyanarayana, D. Vinay**, “Design, Implementation And Performance Analysis of IoT based Smart Irrigation System for paddy and Maize Fields”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, pp.667-676, **DOI:10.5373/JARDCS/V12I2/S20201039**, ISSN:1943- 024X, **H-Index-8, (SCOPUS JOURNAL)**.
3. **Y. Amar Babu, Dhulipudi Jagadeesh, Meesala Durga Ram Prasad, Dongara Grunadham, Koraprolu Sri Nithya**, “ Design and Implementation of Smart Electronic Voting Machine Using FPGA” in *TEST Engineering & Management*, Vol.83, **May 2020**, **ISSN:0193-4120**, pp:2485-2493,**H-Index-5,(SCOPUS JOURNAL)**.
4. **E.V. Krishna Rao, A. Narendra Babu, Y. Hemanth Reddy, K. Rupesh, D.V. Harsha Vardhan**, “Iot based enhanced and efficient safety system using raspberry Pi through Website and Android Applications”, in *TEST Engineering & Management*, Vol.83, **April 2020**, **ISSN:0193-4120**, pp:7874-7879,**H-Index-5,(SCOPUS JOURNAL)**.
5. **A. Narendra Babu, E.V. Krishna Rao, Y.S.V. Raman, S. Vyshnavi, D. Akhilandeswari, K. Pavan Kalyan, K. Akshay Kiran**, “ Web Server Based Patient Monitoring System using Lab View”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, pp.1374-1378, **DOI: 10.5373/JARDCS/V12I2/S20201176**, ISSN:1943-024X , **H-Index-8, (SCOPUS JOURNAL)**.
6. **Narendra Babu Alur, E.V. Krishna Rao, Y.S.V. Raman, Thanuja Gonepudi, Rupakumari Macharla, Sirisha Vemula, Suresh Babu Tungala** “ Intelligent Detection of Vehicles During Poor Vision”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, pp.1179-1185, **DOI: 10.5373/JARDCS/V12I2/S20201152** , ISSN:1943-024X, **H-Index-8, (SCOPUS JOURNAL)**.



7. **P.Lachi Reddy, P. Mounika**, “ Scalable Approach for Effective Scan- Based Logic BIST using March Test Algorithm” in *International Journal of Advanced Science and Technology*, Vol.128, Issue. 01, **July 2019**, pp:72- 78, ISSN: 2207-6360, **H.Index-4 (SCOPUS JOURNAL)**.
8. **P. Lachi Reddy, T Bharath, G. Harish Reddy, B. Chinna Dibbaiah, G. Sri Bhargav Sai**, “Smart Agriculture and Home Automation using Google Assistance”,*Journal of Advanced Research in Dynamical & Control Systems*, Vol.12, Issue.2,**March-2020**,DOI: **10.5373/JARDCS/V12I2/S2020112**, pp.965-971, **ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL)**.
9. **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 Research in 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)**.
10. **G. Srinivasulu, Rajasekhar Reddy Kallam** “BlackBox Model based VLSI Hierarchical Floor Planning”, in *International Journal of Engineering and Advanced Technology*, Volume.8, Issue No.6, **August 2019**.ISSN No:2249-8958, **(SCOPUS JOURNAL)**.
11. **G. Srinivasulu**, “System On-Chip Architecture Information Model based VLSI Hierarchical Floor Planning” in *International Journal of Scientific and Technology Research*, Vol.8, Issue 10, **ISSN No:2277-8616, October 2019. (SCOPUS JOURNAL)**.
12. **Srinivasulu Gundala, pilla sravani, Vundralla satya Tejaswi, Gudisa Sampath Kumar, Pamarthi Vamsi Krishna**, “Green House Monitoring an Control using WSN Protocol”in *TEST Engineering & Management*, Vol.83, **April 2020, ISSN:0193-4120, pp:13365-13369,H- Index-5,(SCOPUS JOURNAL)**.
13. **Srinivasulu Gundala, Rajani Kumari**, “ Development of power and performance Efficient 32- bit Variable Latency Parallel Prefix Adder”, in *International Journal of Scientific and Technology Research*, in Vol.9, Issue-04, **May 2020, ISSN: 2005-4279 (SCOPUS JOURNAL)**.
14. **M. Venkata Sudhakar, Pegallapati Bhavya Sree, Yepuri Surya Teja, Shaik John Shaida, Lanka Danuja**, “ Development of Alerting and Monitoring System for Manhole Management using IOT”, in *International Journal of Advanced Science and Technology*, Vol. 29, Issue-5, pp.816- 821,**April 2020, ISSN: 2005-4238, H.Index-4, (SCOPUS JOURNAL)**.
15. **G.L.N. Murthy, Vijaya Anand Nidumolu, Venu Madhav Panchagnula**, “An Efficient Energy Measurement and Control using IOT” in *International Journal of Innovative Technology and Exploring Engineering*, , Vol.9, Issue2, **December 2019, ISSN: 2278-3075, (SCOPUS JOURNAL)**.
16. **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](https://doi.org/10.5373/JARDCS/V12I2/S2020187),pp.714-720,**ISSN:1943- 024X(SCOPUS JOURNAL)**.

17. **K. Rani Rudrama, V. Ananth Kumar**, “Design and Implementaton of Embedded Audio System based on ZYNQ-SOC”, in *International Journal of Innovative Technology and Exploring Engineering*, Vol.8, Issue.9, **July 2019**, pp: 860-864, **ISSN: 2278-3075 (SCOPUS JOURNAL)**.
18. **K. Rani Rudrama, A. T. L. Durga Bhavani, G. Uday, M. Anusha, A. Nikhil Reddy**, “Design of Optimized Low Power Multiplier using CMOS Pass Transistor Technology, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March- 2020**, DOI:[10.5373/JARDCS/V12I2/S20201036](https://doi.org/10.5373/JARDCS/V12I2/S20201036), pp. 646 -654, **ISSN: 1943- 024X , H-Index- 8, (SCOPUS JOURNAL)**.
19. **K. Rani Rudrama, V. Sireesha, V. Bhanu Prasad, T. Lavanya, P. Naga Jyothi**,“Novel Approach to Design and Implementation of Efficient Multiplier using Urdhav Triyakbhyam Sutra” in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, DOI: [10.5373/JARDCS/V12I2/S20201037](https://doi.org/10.5373/JARDCS/V12I2/S20201037), pp.655-660, **ISSN: 1943- 024X, H- Index-8, (SCOPUS JOURNAL)**.
20. **B.V.N.R Siva Kumar, K. Siva Naga Lakshmi Pavani**, “ Integration of Blockchain Technology in IOT for High Level Security”, in *International Journal of Innovative Technology and Exploring Engineering*, Vol.8,Issue. 10, pp:491-497 **Aug-2019**, **ISSN: 2278- 3075, (SCOPUS JOURNAL)**.
21. **B.V.N.R Siva Kumar, K. Siva Naga Lakshmi Pavani**, “Applicability of Blockchain Technolog in Communication of Data using Raspberry Pi as server” in *International Journal of Innovative Technology and Exploring Engineering*, Vol.8,Issue. 10, pp:4264-4268, **Aug-2019**, **ISSN: 2278-3075 (SCOPUS JOURNAL)**.
22. **B.V.N.R. Siva Kumar, Raghavendra Sharma, D Sreenivasa Rao**, “Developments in Lower Limb Exoskeletons For Rehabilitation Application”, in *International Journal of Engineering and Advanced Technology*, Vol.8, Issue-06, **Aug2019**, **ISSN No: 2249-8958 (SCOPUS JOURNAL)**.
23. **B.V.N. R. Siva Kumar, M. David Vinod, V. Venkateswarlu, K. Anusha, Ch. Trinath**, “ Distribution Robot for Medical Applications”, in *Internatinal Journal of Recent Technology and Engineering*, Vol-8, Issue-6, **March 2020**, **ISSN: 2277-3878, pp.5657-5660, (SCOPUS JOURNAL)**.
24. **B.V.N.R. Siva Kumar Sk. Shama, Sk. Subhani, S. Naveen, J. Ajuba**, “Lab View Based Mobile Robot in Hospitals”, in *TEST Engineering & Management*, Vol.83, **April 2020**, **ISSN:0193-4120**, pp:7868-7873,**H- Index- 5,(SCOPUS JOURNAL)**.
25. **V.V. Rama Krishna, Ch. Sneha Latha, D. Rajesh, M Vijaya, Bh. Madhav Reddy**, “Wireless E-Notice Board using Html Software”,in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2,

**March-2020**, pp.1360-1366, **DOI:10. 5373 / JARDCS / V12I2/ S20201174**,  
**ISSN: 1943-024X , H-Index-8, (SCOPUS JOURNAL).**

26. **K. Sasi Bhushan, M. Suresh Reddy**, “ Traffic Rule Violation Monitoring and Reporting System” in *International Journal of Innovative Technology and Exploring Engineering*, Vol.8, Issue.9, **July 2019**, pp: 1916-1919, ISSN: 2278-3075 **(SCOPUS JOURNAL).**
27. **Bondili Siva Hari Prasad T. Sai Spandana, J. Venkatesh, S. Venkata Avinash,, G. Chandu**, “Children Tracking System using Gps and RFID Technology” in *Journal 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,(SCOPUSJOURNAL).**
28. **D. Naresh, S. Butchi Babu, S. Baba Fariddin, S. Ravindra**, “ High speed Novel Design of Aram for Highly Reliable Applications”, in *International Journal of Innovative Technology and Exploring Engineering*, Vol-9, Issue 2S3, **December 2019**, **DOI: 10.35940/ijitee.B1029.1292S319**, pp: 119- 122, ISSN: 2278-3075, **(SCOPUS JOURNAL).**
29. **P. Venkateswara Rao, B. Naresh, B. Aditya Singh, K. Lavanya, Ch. Keerthi**, “ Advanced Security and Assisting System based on Face and Eye Blink Detection”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue.2, **March-2020**, pp.1174- 1178.**DOI: 10.5373/JARDCS/V12I2/S20201151**, **ISSN: 1943-024X**, **H-Index-8, (SCOPUS JOURNAL).**
30. **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).**
31. **K. Lakshmi, T. Bhagyasree, M. Annapurna, M. Sudhatri**, “ Intelligent Fire Accident Control System in Trains”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, **DOI:10.5373/JARDCS/ V12I2 /S20201123**, pp.972-977, **ISSN: 1943- 024X**, **H-Index-8, (SCOPUS JOURNAL).**
32. **K.V. Ashok, P. Sravani, CH.N. Krishnaveni, M. Anusha**, “Microcontroller based Automatic Waste Segregation System”, in *International Journal of Advanced Science and Technology*, Vol. 29, Issue-5, pp.282-289, **April 2020**, **ISSN:2005-4238**, **H.Index-4, (SCOPUS JOURNAL).**
33. **K. Rani Rudrama, V. Ananth Kumar** “Smart Embedded Audio & Video System Based on ZYNQ-SOC ” in *International Journal of Technical Innovation in Modern Engineering & Science*, Vol.5, Issue. 08, **August 2019**, **ISSN: 2455-2585 (Open Access)**



34. **K.Sasi Bhushan, M. Suresh Reddy** “Vehicle Overspeed Monitoring and Automation Challan Generation System With SMS FeedBack” in *International Journal of Research*, Vol.8,Issue.8, pp:143-148, **2019 ISSN: 2236-6124**

### **International Journal Publications in the Period of 2018-2019**

1. **Dr. Y. Amar Babu**, Sk. Mahammad Rafi, T. Chakradhar Reddy, M. Amulya, “ Implementation of Smart Farming using IOT ”, *International Journal of Technical Innovation in Modern Engineering & Science* , Vol.5, Issue 4, **ISSN No: 2455-2585**, April 2019 (**UGC Approved Journal**)
2. **Dr. Y. Amar Babu**, M. Chandu, M. Raja, P. Sowjanya, S. Bhargav, “ Adaptive Speech Noise Cancellation using Least Mean Square Algorithm”, *Journal of Technical Innovation in Modern Engineering & Science* , Vol.5, Issue 4, **ISSN No: 2455-2585**, April 2019 (**UGC Approved Journal**)
3. **Y. Amar Babu**, K. Tarun Sai Krishna, sai, R. Sai Navya, M. Nihitha, B. Srikanth, “ Labview based Smart Rescue Robot”, *International Journal of Technical Innovation in Modern Engineering & Science*, Vol.5, Issue.4, April-2019, **ISSN: 2455-2585**, pp: 25-29 (**UGC Approved Journal**)
4. **A. Narendra Babu, E. V. Krishna Rao, G. Srinivas Rao, S.V. Jagadeesh Chandra**, B.G.V Pushpanjali, V. Kranthi Vardhan Reddy, N. Srikanth, B. Guravaiah, “Implementation of System for air Quality Monitoring with respect to Atmospheric parameters using Raspberry Pi”, *International Journal of Innovative Technology and Exploring Engineering*, Vol.8, Issue 8,**ISSN: 2278-3075** pp: 1867-1870 **Scopus Indexed Journal**
5. **Y.S.V. Raman, A. Narendra Babu**, P. Sai Swaroop, P. Nagarjuna, D. Jaya Sri, M. Omkar, “ An Automated unit for the detection of accident using fuzzy logic and IOT”, *International Journal of Innovative Technology and Exploring Engineering* , Vol.8, Issue 8, **ISSN: 2278- 3075 pp:1860-1863. Scopus Indexed Journal**
6. **G. Srinivasulu** “ A Leakage Power Aware Transmission Gate Level Shifter”, *International Journal of Engineering and Advanced Technology*, Vol.8, Issue 4, April 2019, pp:1527, **Scopus Indexed Journal**
7. **G. Srinivasulu**, “Design of Efficient 32-Bit Low Power Variable Latency Parallel Prefix Brent-Kung Adder” *International Journal of Technical Innovation in Modern Engineering & Science*, Vol.5, Issue.5, May 2019, pp: 485, **ISSN: 2455-2585(UGC Approved Journal)**
8. **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)**
9. **Dr. P. Lachi Reddy**, D. Sai Chandra Sekhar Reddy, V. Sahitya, P. Smily Sravya, “Real Time Automatic Irrigation System With Mobile Alert”, *International Journal of Engineering and Technology*, Vol.6, Issue.03, Mar-2019, PP: 5242, **ISSN: 2395-0072 (UGC Approved Journal)**
10. **Dr. P. Lachi Reddy**, S. Harish Kumar, L. Srinivasa Rao, G. Vineela Shaan, “Real Time Intelligent Home Automation”, *International Research Journal of Engineering and Technology*, Vol.6, Issue 4, April 2019, PP: 1710, **ISSN No: 2395-0072 (UGC Approved Journal)**
11. **M. Venkata Sudhakar , K.Lakshmi**, “Development of Electronic System to Examine the Quality of Drinking Water,” *International Journal of Innovative Technology and Exploring Engineering*, Vol.8, No 8, 2019, pp.1707-1709.

12. **M. Venkata Sudhakar**, P.K. S.Supriya, Y. Saidileep, P. Chennakesava Reddy, B.Anil Kumar “Implementation of System for Detecting Unwanted Gases and Monitoring the Agricultural Parameters using IOT,” International Journal of Innovative Technology and Exploring Engineering (IJITEE) Vol.8, No 8, 2019, pp.1544-1547. **Scopus Indexed Journal**
13. **G.L.N. Murthy**, “Smart Walking Assist for Visually Challenged People”, International Journal of Research in Electronics and Computer Engineering, Vol.7, Issue 2, April-2019, PP:437, ISSN No: 2348-2281(**UGC Approved Journal**)
14. **Dr. S.V. Jagadeesh Chandra**, Kumar Mallem, Minkyu Ju “Effects of post deposition annealing atmosphere on interfacial and electrical properties of HfO<sub>2</sub> / Ge<sub>3</sub>N<sub>4</sub> gate Stacks.” In Journal of Thin Solid Films, ISSN: 0040-6090, Vol 675, Issue 1, April 2019, **H-Index -168, DOI: 10.1016/j.tsf.2019.02.034, Impact Factor-1.91, SCI JOURNAL**
15. **Dr. S.V. Jagadeesh Chandra**, Kumar Mallem, Minkyu Ju, “Influence of ultra-thin Ge<sub>3</sub>N<sub>4</sub> passivation layer on structural, interfacial, and Electrical properties of Hfo<sub>2</sub>/Ge Metal-oxide- semiconductor devices” in journal of Nanoscience and Nanotechnology”, Vol 19 March 2019, ISSN: 1533-4899, **H-Index-93, DOI:10.1166/jnn.2019.16934** , **Scopus Indexed Journal**
16. **G. Srinivasa Rao, S. V. Jagadeesh Chandra, A. Narendra Babu, E. V. Krishna Rao**, G. Lakshmi Teja, G. Likitha, Y. Arun Kumar Reddy, “Self-Activated Commuting of Train Allying Between Stations”, International Journal of Innovative Technology and Exploring Engineering, Vol 8, Issue 8, pp: 1853-1856, ISSN: 2278-3075, june 2019. **Scopus Indexed Journal**
17. **B. Y.V.N.R. Swamy**, K.Yaswanth Sai, S. Bala Sai, D. Sainath, M. Phaneendra, “ IOT based Biometric Attendance Management System”, International journal of technical innovation in modern engineering & science, Vol.5, Issue 4, April 2019, ISSN : 2455-2585(**UGC Approved Journal**)
18. **G.Venkat Rao, R. Harikishan, B. Siva Hariprasad**, “Design Of Low Power 2:1 Multiplexer With MT-CMOS Technique”, Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2439-5162,Volume 5, Issue 9, page No 333-336, September, 2018 , ISSN : 2349-5162, Unique Identifier: **JETIRA006376 (UGC Approved Journal)**
19. **M.V. L. Bhavani**, “AR M based Communication and Security System for Disabled Persons”, International journal of Technical Innovation in Modern Engineering & Science, Vol.5, Issue 4, April 2019, pp: 328, ISSN: 2455-2585 (**UGC Approved Journal**)
20. **P. Venkateswara Rao, Ch. Siva Rama Krishna, Sambasiva Reddy Mula** “A Smart Crop Protection Against Animals Attack, International Journal of Scientific Research and Reviews, Vol.8, Issue 6, June 2019, PP: 407, ISSN No: 2279-543X (**UGC Approved Journal**)
21. **P. Venkateswara Rao, Ch. Siva Rama Krishna , Roopa Krishna Chaitanya**, “An IoT Based Fire Detection and Monitoring System”, International Journal of Scientific Research and Review, Vol.8, Issue.6, June 2019, pp: 748-751, ISSN No: 2279-543X(**UGC Approved Journal**)
22. **Ramya Harika**, M.K. Charan Teja, D. Sai Teja, M. Chaitanya,MVR. Prathyusha “ Ultrasonic Blind Walking Stick using Voice Control Through Mobile APP, International Journal of Research, Vol.5, Issue 12, Dec 2018, PP: 370,ISSN No: 2348-6848(**UGC Approved Journal**)
23. **B.V.N. R. Siva Kumar**, G. Krishna Kaladhar, N. Naveen Kumar, C. Sai Pavan, R. Sai Surya, “ Design of Compact Low Power Autonomous vehiclefor Multi-Purpose using NI my Rio, International Journal of Technical Innovation in Modern Engineering & Sciences, Vol.5, Issue 4, **2455- 2585**, April 2019

24. **Ch. Mallikharjuna Rao**, N. Ramana Reddy, D. Harsha Vardhan, R. Mithin Sai, D. Dinesh, “ Smart Traffic Control System Based on Traffic Density”, International Journal of Technical Innovation in Modern Engineering & Sciences, Vol.5, Issue 4, ISSN: 2455-2585, April 2019 (UGC Approved Journal)
25. **B.V.N.R. Siva Kumar, Y.Amar Babu** ,Rajesh Ramiseti, “EFFICIENT ACCIDENT AVOIDING AND ADVANCED IDENTIFICATION SYSTEM” in *International Journal of Engineering in Advanced Research Science and Technology*, ISSN: 2350-0328 Vol.2, Issue.3, PP-662-669, November-2018, H-Index- 1
26. **V.V. Rama Krishna, Y.Amar Babu** , K.Vamsi Krishna, “Reliable and Accurate target detection system using IOT” in *International Journal of Engineering in Advanced Research Science and Technology*, ISSN: 2350-0328, Vol.2, Issue.3, PP-670-680, November-2018, H- Index- 1 **DOI: 10.14419/ijet.v7i4.17569**
27. **A. Anil Kumar Reddy**, Siva Rohith Reddy, M. Kavya, S. Smile Samhitha, K. Sai Kumar “Implementation of High Speed and Low Area Confined Multiplier using Multiplexer based full Adder on FPGA” International Journal & Magazine of Engineering, Technology, Management and Research, Vol 6, Issue 04, pp:33-37, ISSN: 2348-4845
28. **Ch.V. Naga Bhaskar**, Y. Harika, “Implementation of HOG Algorithm on Eye Control Wheel Chair using Python Lanuage”, International Journal of Advance Research, Ideas and Innovations in Technology, Vol.5, Issue.3, Jun-2019, pp: 1493, ISSN: 2454-132X
29. **Yaramala Madhavi**, Dr.Y. Amar Babu “ DESIGN OF FFT PROCESSOR USING CONFLICT-FREE ADDRESS SCHEMES ” International Journal of Research, Vol. VIII, Issue VI, June/2019,pp:5100-5104, ISSN:2236-6124.
30. **POOLA MOUNIKA, DR.P.LACHI REDDY** “DESIGN AND SURVEY OF SCANBASED LOGIC BIST (BUILT IN SELF TEST) ” International Journal of Research Vol. VIII, Issue VI, June/2019,pp:5112-5116, ISSN:2236-6124.
31. **R.Harikishan, B.Ravi Teja Reddy, K.Lakshmi, D.B.V Lakshmi Narayana, B.Sandeep Kumar**, “ OCR Based Hands-Free Text Entry Using Lab VIEW” International Journal of Technical Innovation in Modern Science Engineering & Science (IJTIMES) , Vol.5, Issue 4, April -2019,pp: 208-212, e-ISSN-2455-2585
32. **G.Venkat Rao**, “Speech enhancement and Speech recognition by improving PSNR Value” International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), July 2018, Volume 4, Issue 7, Page No 19-21, ISSN : 2455- 2585, (UGC Approved Journal)

## International Journal Publications in the Period of 2017-2018

1. **Y.AmarBabu**, John Bedford Solomon, D JackulineMoni “A Novel Dynamic Scan Low Power Design for Testability Architecture for System-On-Chip Platform” International Journal of Applied Engineering Research, Volume 13, Number 7 (2018) pp. 5256-5259, ISSN 0973-4562-UGC approved Journal, H Index-35, **Scopus Indexed Journal**
2. **G.VenkataRao, S.V. JagadeeshChandra, M.Kumar, T.V.Rajesh** “Investigations in the Nitride Interface engineering at HfO<sub>2</sub>/Ge stacks for MOS devices” *Material today Proceedings* 5(2018) 650-656, Elseiver,

ISSN:2214- 7853, <https://doi.org/10.1016/j.matpr>  
.2017.11.129, H Index-11 ,**Scopus Indexed Journal**

3. **G.SrinivasaRao,Y. Amar babu,G. Vamsi Krishna** “An FPGA Implementation of Low Dynamic Power & Area Optimized 32-Bit Reversible ALU” International Journal of Applied Engineering Research,Volume 13, Number 5 (2018) pp. 2926- 2932,ISSN 0973-4562-UGC approved journal, H Index-35, **Scopus Indexed Journal**
4. **G.SrinivasaRao,Y. Amar babu,G. Vamsi Krishna** “Advanced Testing Methods for Reversible Logic” International Journal of Applied Engineering Research,Volume 13, Number 7 (2018) pp. 2926-2932,ISSN 0973-4562, H Index-35, **Scopus Indexed Journal**
5. **S.V. Jagadeesh Chandra, A. NarendraBabu, G.SrinivasaRao, L.Jhansi** “ Detection of Disease using EEG Signal Based on PSO and NN Classifier”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.
6. **S.V.JagadeeshChandra,Manjariyaramala,LillyPravallikapattam,Pushpalat haKavala, Madhavi Kapavarapu** “RFID and GSM Based Automatic Toll Collection System Using LPC 2148 Controller” International Journal of Research, Volume 05 Issue 07 March 2018,e-ISSn:2348-6848,UGC Approved Journal
7. **P.LachiReddy, M. Poojitha, R. Manasa, T. Likhitha, S.VenuMadhuri,** “Raspberry PI Based Security System” International Journal of Research, Volume 05 Issue 12 April2018,e-ISSn:2348-6848,UGC Approved Journal.
8. **Y. Amar babu , P. Rakesh kumar ,M. Anil kumar** “Design and Implementation of Zynq-Based Reconfigurable System for Jpeg 2000 Compression” 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
9. **Y.AmarBabu ,G. Indu,M. Amani, A. Anjali,A. Padmaja** “Smart Reader for Visually Impaired People Using Raspberry Pi” International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848, UGC Approved Journal.
10. **Y.AmarBabu,S.Vidhyullatha** “Design and Implementation of ZYNQ SOC based Embedded Vision System for Real-Time Applications”International Journal of Electronics, Electrical and Computational System,Volume 7, Issue 1,January2018,ISSN 2348-117X
11. **B.V.N.R Siva Kumar, P.RakeshKumar,K.Chenchaiah** “MONITORING PRICE TAG WITH EPAPER BY USING 6LoWPAN AND MQTT”, International Journal of Research in Engineering., ISSN :2319-1163 , volume 6 issue no.8 , Page No.16, August 2017,UGC Approved Journal
12. **B.V.N.R.Sivakumar, M. Lakshmanakumar, V.Hemanth Kumar, R. Kirankumar, R. Naresh** “Advancement in Safety of Vehicle Mechanism using Wireless Sensor Networks” International Journal of Research, Volume 05

Issue 12 April 2018,e- ISSN:2348-6848,UGC Approved Journal.

13. **G.Venkata Rao** ,M.Vinod Kumar “Security of Integrated Circuits Physical Design in45 NM Technology” IJRECE VOL. 5 ISSUE 4OCT.-DEC. 2017, ISSN: 2393-9028 (Print) | ISSN: 2348-2281 (Online)-UGC approvedJournal
14. **G.Venkata Rao(jr)**,B.Teja Reddy, , K. Likhithnath, A. Anjan “ Hand Gesture Recognition System Using Image Processing Technique” International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
15. **G. Venkata Rao**, N. Ashokkumar, M. Apparao, P. Bharathkumar, K. Ravindra Reddy “ Underwater Image Enhancement using Image Fusion Technique” International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
16. **K.Sasi Bhushan**, G.Chaitanya Prakash, Sk.Aslam, B.Manoj Kumar, K.Yashvanth “Arduino Smart Billing Cart ”IJCRIT , March 2018,Vol-6 Issue 1, ISSN 2320-2882.
17. **K.SasiBhushan**,VineelaThonduri “System for Smart Parking using Internet ofThings (IoT)” International Journal for Research in Applied Science & Engineering TechnologyVolume 6 Issue III, March 2018,ISSN: 2321-9653
18. **K.Sasibhushan**, **P.Rakeshkumar**,RVenugopalarao “ Invisible Watermarking Technology Using SVD for Copy Right Security Protection” 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. **Ch. MallikarjunaRao**, Praneeth T, , Vinod Babu A, Koti Reddy G, Mukesh Y “Finger Print Based Electronic Voting Machine” International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
20. **T.Kalpana**,K.V.V.S Ravi Shankar, P.RajaSekhar, P.Vinay Kumar Reddy, N.Avisansh “ Crack Detection on Railway Track By Using Voltage Sensor”IJCRIT , March 2018,Vol-6 Issue 1, ISSN 2320-2882
21. **G.Venkat Rao**, J.V.Karthik, “Voice and Gesture Controlled Robot Using Android Applications” International Journal of Technical Innovation in ModernEngineering &Science (IJTIMES), June 2018, Volume 4, Issue 6, ISSN: 2455-2585, UGC Approved Journal
22. **K V Ashok**, M.Ravikumar, V Phaneendra, G Amarnath, P Premkumar “ Simple Steganographic Algorithm for Lossless Compression” International Journal of Research, Volume 05 Issue 12 April 2018,e-ISSn:2348-6848,UGC Approved Journal
23. **R.HariKishan**, N.Janardhan, M.Raviteja, M.Praveen Kumar, G.SaiTarun “ Fast Face Identification System with Occlusions ”International Journal of Research , April 2018,Vol-5 Issue 12, ISSN 2348-6848,UGC Approved Journal



## International Journal Publications in the Period of 2016-2017

1. **S.V.Jagadeesh Chandra**, M Kumar, Sung-Hyun Yang ,K.Janardhan Reddy “Investigation of structural and electrical properties on substrate material for high frequency metal-oxide-semiconductor (MOS) devices “ IOP publishing April 2017,DoI:10.1088/2053- 1591/aa6a37 **Scopus Indexed Journal.**
2. **S.V.Jagadeesh Chandra**, M Kumar, Sung-Hyun Yang ,K.Janardhan Reddy “Investigation of structural and electrical properties on substrate material for high frequency metal-oxide-semiconductor (MOS) devices “ IOP publishing April 2017,DoI:10.1088/2053- 1591/aa6a37
3. **S.V. Jagadeesh Chandra, A. NarendraBabu, G.Srinivasa Rao** “AGE- INVARIANT FACE RECOGNITION SYSTEM USING COMBINED SHAPE AND TEXTURE FEATURES” International Journal of Innovative Research in technology, September 2016,Vol-3 Issue 4,ISSN 2349-6002
4. **Y.AmarBabu**, M.Rama Devi “Micro Blaze Based SOC Platform for JPEG2000 Compression on SPARTAN6 FPGA” International Journal of Innovative Research in technology, September 2016,Vol-3 Issue 4, ISSN 2349-6002.

## International Journal Publications in the Period of 2015-2016

1. **S.V. Jagadeesh Chandra**, T.V. Rajesh, “Zirconium Oxide Mixed Tantalum Oxide High-K Gate Dielectric Films for Metal-Oxide-Semiconductor (MOS) Devices”, European Journal of Advances in Engineering and Technology, 2015, 2(8): 9-15.
2. **Y.AmarBabu,G.M.V.Prasad**” Performance analysis and implementation of modified SDM based NoC for MPSoC on Spartan6 FPGA”International journal of science and innovative engineering & Technology,May 2016 issue Volume 1
3. **Y.AmarBabu, G.M.V.Prasad**”Performance analysis and implementation of modified SDM based NoC for MPSoC on Spartan6 FPGA” International journal of Research in engineering and technology,Volume:05 Issue :02,eISSN:2319-1163
4. **B.V.N.R. Siva Kumar**, D.Anjaneyulu, “Hand movements based control of an intelligent wheelchair Using Accelerometer, obstacle avoidance Using Ultrasonic and IR sensors” International Journal of Engineering Research and Development, e-ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 11, Issue 07 (July 2015), PP.01-09
5. **B.V.N.R. Siva Kumar**, D. Anjaneyulu, B. Ajanta Reddy ,European journals of research in engineering and technology “ An Intelligent Wheel chair controlled using Accelerometer and Keyboard, European Journal of Advances in Engineering and Technology, 2015, 2(9): 45- 51.

6. **G. Venkata Rao, G. Ramarao**, “Self Heating BIST For FPGA Based on Thermal Awareness”, *International Journal Of Scientific Research And Education*, Volume 3, Issue 7, Pages-4159-4175, 2015.

## Conferences

### Conferences Attended by the Faculty in the Period 2022-2023

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Venkataiah C, Mallikarjuna Rao Y, Manjula Jayamma, <b>Lingamurthy M.K</b> , Mahesh Kumar, Laith H, Akhilesh Pandey	4th International conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED2023), Performance Analysis of Ternary Adder and Ternary Multiplier without using encoders and decoders	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	19-20 May 2023 (Online June 2023), ISSN: 2267-1242
2	Rambabu Sanivarapu, Mallikarjuna Rao Y, Venkataiah C, <b>Lingamurthy M.K</b> , Laith H, Vyeshikha.	4th International conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED2023), Design and Implementation of POSIT based Adder and Multiplier in Verilog HDL,	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	19-20 May 2023 (Online June 2023), ISSN: 2267-1242
3	Venkataiah, Mallikarjuna Rao Y, Manjula Jaamma, Rambabu, <b>Lingamurthy M.K</b> , Laith H, Sanjay Mashra	4th International conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED2023), Performance Analysis of 4-bit ternary adder and multiplier using CNTFET for high speed arithmetic circuits	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	19-20 May 2023 (Online June 2023), ISSN: 2267-1242
4	Venkataiah, Mallikarjuna Rao Y, Manjula Jayamma, <b>Lingamurthy M.K</b> , Feroz Shah Ahmed, Laith H,	4th International conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED2023), Performance evaluation of SRAM design using different field effect transistors	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	19-20 May 2023 (Online June 2023), ISSN: 2267-1242
5	<b>B.Y.V.N.R. Swamy, V. Sathvika, V. Venkatesh, K. Narendra Reddy</b>	International Conference on Signal processing and communication, A miniaturized metasurface based dielectric resonator antenna for wireless communications	Karunya University, Coimbatore	23-24 March 2023

6	<b>Amar Babu Yandrapati,</b> Venkata Krishna Pratap Reddy Singam, Banbhushan Namburu, Venkatesh Paladugu, Tirumala Krishna Karakula	4 th International Conference on Signal processing and communication, Design of a smart embedded vision system based on FPGA for medical applications	Karunya University, Coimbatore	23-24 March 2023
7	<b>M.Venkata Sudhakar,</b> V. Sowjanya, V.V.Ranga Sai, O.Sudheer Kumar and V.Barghava, ,	Development of Embedded Assistive Smart Helmet for Bike riding using Intelligent process, IEEE 1st International Conference on Smart and Sustainable Technologies in Energy and Power Systems SSTEPS – 2022	St. Joseph's Institute of Technology (Autonomous), Chennai	7th -9th Nov, 2022
8	Srinivasulu Gundala, KVN Divya Sri, M Sandhya Devi, G Prasad, B. Rakesh	Development of Vehicle Safety Control for the anticipation of Accidents using Intelligence process, <b>3 rd International Conference on Electronics and Sustainable Communication Systems(ICESC 2022),</b>	St. Joseph's Institute of Technology (Autonomous), Chennai	Sep-22
9	Talam Satyanarayana, SLS Iswarya Vinjamuri, Siva Keerthi Ravuru, Padmaja Nirmala, Phala Chandra	Modelling Investigations on Efficiency of Miniaturized Piezoelectric Energy Harvester, IEEE Second International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies(ICACET 2022)	St. Joseph's Institute of Technology (Autonomous), Chennai	Jul-22
10	Talam Satyanarayana, Shaik Haniff, Shaik Ayesha Begam, Dhruva Kollu	Design and Displacement sensitivity analysis of micro scale piezoresistive cantilever, IEEE Second International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies(ICACET 2022),	St. Joseph's Institute of Technology (Autonomous), Chennai	Jul-22

### Conferences Attended by the Faculty in the Period 2021-2022

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	<b>Amar Babu Y,</b> M Soniyaz, Maraju Yamini, M Meena Kumari, Miryala Akhil	Development of smart water system for house-hold and industrial applications, 8 th International Conference on Advanced computing and communication systems(ICACCS)	Online	June 2022

2	Poornaiah Billa, K Venkatesh, J. Venkata Sai, K. Lohith, A. Sampath Kumar	Effective Monitoring and Proteting system for agriculture farming using IoT and Raspberry, , Materials Today: Proceedings	Online	July 2021
3	<b>Satyanarayana Talam</b> , Nikhitha Y,Ch. Neeraj Kumar, K. Jeevan Naga Sai, V. Lohitha	Optimization of bimorph cantilever based piezoelectric energy harvester for high efficiency, Materials Today: Proceedings	Online	July 2021
4	<b>Pavani Kollamudi</b> ,Bhar gavi Koduru,Bharathi Poranki,Madhu Priya Golla	Smart Virtual Assistant, Materials Today: Proceedings	Online	July 2021
5	<b>P. Lachi Reddy</b> , V. Divya,D.Swapna, D.Chinmayi Srinija,M. Rajesh	Smart Traffic Controlling System, Materials Today Proceedings	Online	August 2021
6	<b>P. Lachi Reddy</b> , Sk.Sabiha,K.Jas witha,P.Dinesh, V.Naveen	<b>Optimized garbage Segregation and Monitoring System</b> , Materials Today Proceedings	Online	August 2021
7	M.C.Rao, N.Umakanth, <b>T.Satyanarayan a</b> , B.T.P. Madhav	<b>Seasonal Variations of Lightning Activity over Uttar Pradesh during 1998</b> , AIP Conference Proceedings	Online	August 2021
8	Umakanth, <b>T.Satyanarayan a</b> , B.T.P. Madhav, M.C.Rao	<b>Study of rainfall over patna region, India during 2013</b> , AIP Conference Proceedings	Online	August 2021

9	P.Prasanth, <b>Satyanarayana Talam, B.</b> Ramakrishna, G. Nagarjuna, B. Rambabu, M.C. Rao, N. Venkataramanaiah	<b>Dielectric Investigations on metal (Ni and Cu) tetrahydroxy phenyl porphyrins in PMMA polymer matrix</b> , Material today proceedings	Online	Oct 21
10	M. Mahaboob Basha, <b>Srinivasulu Gundala,</b> G.Ganesh Kumar	<b>Performance Analysis of CMOS, PTL and GDI Based Braun Multiplier for Signal Processing Applications</b> , 6 <sup>th</sup> IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2021),	Sri Venkateshwara College of Engineering, Bengaluru, Karnataka	27/08/2021 to 28/08/2021
11	G.Ujwala Devi, P.Kiran Reddy, P.Naveen Kumar, J.Sai Kumar, <b>B.P.Madhusudhan</b>	<b>ARM based smart energy management system for home automation</b> , Material Today: Proceedings	Online	April 2022
12	N.Umakanth, M.S. Shekhawat, B.T.P. Madhav, RKNR Manepalli, N.Ranga Babu, <b>T. Satyanarayana</b>	<b>Convective Syatem over Sami Region on 2 nd October 2013</b> , AIP conference proceedings	Online	May 2022
13	N.Umakanth, N. Ranga Babu, B.T.P. Madhav, N.Krishna Mohan, <b>T.Satyanarayana</b> , M.C.Rao	<b>Rainfall Activity over Vijayawada region during 2019</b> , AIP Conference Proceedings	Online	May 2022

### Conferences Attended by the Faculty in the Period 2019 -2020

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	G.Srinivasulu	IEEE Fifth International Conference on Communication and Electronics Systems (ICCES 2020) "Double current limiter High performance Voltage Level Shifter for IoT Applications"	PPG Institute of Technology, Coimbatore	10 <sup>th</sup> – 12 <sup>th</sup> , June, 2020



### Conferences Attended by the Faculty in the Period 2018 -2019

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	G Venkat Rao	International Conference on Research Trends in Engineering, Applied Science and Management “Design Of Low Power 2:1 Multiplexer With MT-CMOS Technique”	Osmania University Campus, Hyderabad	23rd September 2018

### Conferences Attended by the Faculty in the Period 2017 -2018

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Smt Rani Rudrama Kodali	International Conference on Communication Systems Met Amaterial inspired band notched wideband antenna with an integration of U and T shaped patches with strip lines applications”	S.V.Engineering College for Women, Tirupati	20 <sup>th</sup> -22 <sup>nd</sup> October 2017

### Conferences Attended by the Faculty in the Period 2016 -2017

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Mr. Y.Amar Babu	International Conference on Advanced Computing & Communication Systems “Design and Implementation of Low power and High Performance Network Interface for 2×2 SDM based NoC”	Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India	6-7 <sup>th</sup> January 2017
2	Mr. Y.Amar Babu	International Conference on Advanced Computing & Communication Systems “Design and Implementation of Area Optimized NoC Router for SDM based Network on Chip	Sri Eshwar College of Engineering, Coimbatore, Tamilnadu, India	6-7 <sup>th</sup> January 2017
3	Mr. Y.Amar Babu	International Conference on Advanced Computing & Intelligence Engineering “Design of Low power and High Performance Network Interface for 2×2 SDM based NoC and Implementation on Spartran 6 FPGA”	C.V.Raman College of Engineering Bhubaneswar, India	21-23 <sup>rd</sup> December 2016

4	Mr. Y.Amar Babu	International Conference on Advanced Computing & Intelligence Engineering “FPGA Implementation of Buffer less NoC Router for SDM based Network on Chip”	C.V.Raman College of Engineering , Bhubaneswar, India	21-23 <sup>rd</sup> Decem ber 2016
5	Mr. Y.Amar Babu	International Conference on Advanced Computing , Networking , and Informatics“ Performance Analysis and Implementation of Modified SDM based NoC for MPSOC on Spartan6 FPGA”	National Institute of Technolog yRourkela	22-24 <sup>rd</sup> Septem ber 2016
6	Mr G.Venkata Rao	International conference on Processing of Materials,Minerals and energy PMME-2016 “Investigations on the Nitride Interface Engineering at HDO2/Ge stacks for MOS Devices”	Pace Institute oftechnology & sciences,Ongole	29 <sup>th</sup> to 30 <sup>th</sup> July20 16
7	Dr. SV. Jagadeesh Chandra	International conference on Processing of Materials,Minerals and energy PMME-2016 “Investigations on the Nitride Interface Engineering at HDO2/Ge stacks for MOS Devices”	Pace Institute oftechnology & sciences,Ongole	29 <sup>th</sup> to 30 <sup>th</sup> July20 16

### Conferences Attended by the Faculty in the Period 2015 -2016

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Mr Y.Amar Babu	6 <sup>th</sup> International conference on Science AndInnovative engineering “Performance Analysis and implementation of Modified SDM basedNoc for MPSOC on SPARTAN6 FPGA”	Jawahar Engineering College,Chennai	3 <sup>Rd</sup> April 2016
2	Mr Y.Amar Babu	National conference on design,Testing, And Applications of embedded & Power Electronics systems “Design of high performance network interface for spatial Division Multiplexing Based network on chip”	PSG college of technology,Co imbatore	5 <sup>th</sup> to 6 <sup>th</sup> Marc h 2016

### Conferences Attended by the Faculty in the Period 2014 -2015

S. No	NAME	PROGRAMME	PLACE	PERIOD
1	Dr. SV. Jagadeesh Chandra	2 <sup>nd</sup> International conference on FRONTIERS in nanoscience, technology and Applications “Effect of Substrate Material on the Electrical Properties of HFO2 Metal oxide semiconductor”	Sri sathya sai institute of higher learning, Prasanthiniliyam, Puttaparthi Andhra pradesh	20-22 Dec 2014

### Conferences Attended by the Faculty in the Period 2013 -2014

S. No	NAME	PROGRAMME	PLACE	PERIOD
1	Dr. SV. Jagadeesh Chandra	1 <sup>st</sup> international conference on emerging trends in engineering & appliedsciences “structural, Electrical & dielctric properties of Co-Sputtered Mined High-K Layers for Metal oxide semiconductor devices”	Rajastan college of engineering forwomen, jaipur	27 <sup>th</sup> to 28 <sup>th</sup> Dec 2013

### Conferences Attended by the Faculty in the Period 2012 -2013

S. No	NAME	PROGRAMME	PLACE	PERIOD
1	Dr. SV. Jagadeesh Chandra	IUMRS-ICA 2012” Structural Propertiesand Sensing Performance of Thin Mixed High-k Sensing Layer-Based Electrolyte Insulator– Semiconductor Stacks for pH Detection and Biosensing	BEXCO, BUSAN, KOREA	AUG 26-31 2012

## FDPs/ Workshops Organized

Academic year	Name of Event	Duration	Funded
2022-23	Design and Implementation of advanced VLSI Architectures”	13.03.2023 to 17.03.2023	College
	PCB Circuit Design	27.03.2023 to 29.03.2023	College
	One week workshop on Embedded Systems	05.12.2022 to 24.12.2022	College
	Three-Day work shop on PCB Design	04.07.2022 to 06.07.2022	College
2021-22	Design Thinking: From Insights to Viability for Engineers	06.12.2021 to 10.12.2021	ATAL
	A Five Days workshop on “IoT	21.03.2022 to 25.03.2022	APSSDC
	One Day workshop on Arduino based Circuit Design	08-10-2021	College
2020-21	Three Day workshop on PCB Design	01 March 2021 to 03 March 2021	College
	AICTE Sponsored STTP on “Mixed Signal Design Approaches for Artificial Intelligence Processors	01 March 2021 to 06 March 2021	AICTE
	AICTE Sponsored STTP on “Mixed Signal Design Approaches for Artificial Intelligence Processors	01 February 2021 06 February 2021	AICTE
	AICTE Sponsored STTP on “Mixed Signal Design Approaches for Artificial Intelligence Processors	28 December 2020 to 3 rd January 2021	AICTE
	Overview of MEMS Devices: Design Aspects & Challenges	10 october 2020	College
2019-20	Online Workshop on "EDA Tools for Technical Staff	04 May 2020 to 08 May 2020	College
	Department of ECE organized a one day workshop on "Industrial Embedded Systems and IOT	30 January 2020	College

	3 days Hands on Training on EDA Tools for Technical teaching staff	21st Nov to 23Nov 2019	College
	Two day hands on Training program on PCB Design, Arduino Uno & Raspberry Pi	13 Sep 2019 & 14 Sep 2019	College
2018-19	one week Faculty Development Programme on "FPGA Design & Its Applications"	22 <sup>nd</sup> – 27 <sup>th</sup> April, 2019	College
	5-Day FDP on Digital Signal Processors, Embedded System Design and IOT	11 Feb 2019 to 15 Feb 2019	College
	A two week LABVIEW Student certification program on "Hands-On Training on myDAQ and myRIO using LABVIEW"	06 <sup>th</sup> August 2018 to 18 <sup>th</sup> August 2018.	College
	A two day hands on workshop "Use Of Virtual Instruments In Laboratories"	6 <sup>th</sup> and 7 <sup>th</sup> July, 2018	College
2017-18	A three day Hands-On Workshop on designing of "MEMS and Microsystems"- Classroom to Clean room	29 <sup>th</sup> -31 <sup>st</sup> January 2018	College
2016-17	A Two Day Faculty Development Program on "Embedded Development Tools"	23 -24 Nov 2016	College
	One week Faculty Development Program On "Recent Trends in VLSI And Embedded Systems"	26 <sup>th</sup> Sep - 01 <sup>st</sup> Oct, 2016	College
2015-16	One Day workshop on "Embedded system applications"	31 <sup>st</sup> July 2015	College
2014-15	workshop on Indian Nano Electronics	07 Feb 2015	IEEE

## Books Published

S.No	Title of the Book/Chapter	Authors	Publishers	Year	ISBN
1	Book Series: Advances in Transdisciplinary Engineering / Alive Human Detection and Health Monitoring using IoT based Robot	<b>Dr.Y. Amar Babu</b>	IOS Press	2023	978-1-64368-360-7
2	Studies on Stability Properties of Polymer Thick Film Resistors	<b>Poornaiah Billa, Srinivasa Rao Y</b>	Lambert Academic Publishing	2022	978-6204982656
3	Study on Energy Harvesting Efficiencies of Piezoelectric MEMS Devices	<b>Satyanarayana Talam, S L S Iswarya Vinjamuri, Padmaja Nirmala</b>	Lambert Academic Publishing, Germany	2022	978-620-4-75186-3
4	Basic and Advanced Multiplier Architectures	<b>Dr. Srinivasulu Gundala M.Mahaboob Basha</b>	Lambert Academic Publishing, Germany	2021	978-620-3-92560-9



5	Design of Low Power High Speed Level Shifters for Multi VDD Systems	Dr. Gundala Srinivasulu	Lambert Academic Publishing, Germany	2019	978-620-0-00610-3
6	zirconium doped tantalum oxide high-k dielectric films for MOS devices	S.V. Jagadeesh Chandra Mallem Kumar CH V VRamana	Lambert Academic Publishing, Germany	2018	978-3-330-34684-0
7	Role of Annealing on the interface Engineering in Ge MOS devices	Jagadeesh Chandra S. V, Rajesh T.V, V V.Ramana .CH	Lambert Academic Publishing, Germany	2017	978-3-659-68485-2
8	Investigations on Magnetron Sputtered Tantalum Oxide Films	S. V. Jagadeesh Chandra, S. Uthanna, G. Mohan Rao	LAP: Lambert Academic Publishing	2011	9783843394222

## Patents Published

S.No	Title of the Patent	Applicant/ Inventor	Published / Granted	Patent Number	Year
1	An Electric Vehicle Safety Evaluation Device	Dr.C.Sateesh Kumar Reddy Mr.Anandbabu Gopatoti <b>Dr.PoornaiahBilla</b> Dr.P.Ranjith Kumar.	<b>Published</b>	377316-001	15-03-2023
2	Patient Computer for controlled Individualized Medication	Dr.P.Ranjith Kumar Dr.C.Sateesh Kumar Reddy Mr.AnandbabuGopatoti <b>Dr.PoornaiahBilla</b>	<b>Published</b>	377319-001	03-03-2023
3	Car Dash Camera Device With Integrated GPS System	Mr.AnandbabuGopatoti <b>Dr. B. Poornaiah</b> Dr.P.Ranjith Kumar Dr..Sateesh Kumar Reddy	<b>Published</b>	377318-001	03-03-2023
4	Iot Based UV Monitoring Sensor Device	<b>Dr.PoornaiahBilla</b> Dr.C.Sateesh Kumar Reddy Mr.AnandbabuGopatotiDr. P.Ranjith Kumar.	<b>Published</b>	377321-001	03-03-2023
5	Light Emitting Diode Module	<b>Dr.PoornaiahBilla</b> Dr.P.Ranjith Kumar Dr.C.Sateesh Kumar Reddy Mr.AnandbabuGopatoti	<b>Published</b>	377320-001	16-03-2023
6	An Artificially intelligent Smart Medical system using soft computing	Applicant: Lakireddy Bali Reddy College of Engineering (Autonomous), <b>Dr. B. Poornaiah,</b> <b>Dr. T. Satyanarayana,</b>	<b>Published</b>	202341002403	17-02-2023

		<b>Dr. B. Rambabu, Dr.E.V.KrishnaRao</b>			
7	Smart voltage Level Shifter for Nano-Device Applications	Lakireddy Bali Reddy college of Engineering (Autonomous), <b>Dr. G. Srinivasulu Dr. Y. Amar Babu, Mr. N. Dharmachari, Mr. G. VenkataRao</b>	<b>Published</b>	202241075343	30-12-2022
8	Hand Gesture Recognition System using Machine Learning Algorithm for Physically Challenged People	Lakireddy Bali Reddy college of Engineering (Autonomous), <b>Dr. G. Srinivasulu, Dr. E.V. Krishna Rao, Dr.Y. Amar Babu, Dr.T. Satyanarayana</b>	<b>Published</b>	202241075342	30-12-2022
9	Development of Multi-Sensor Smart Robot for Intelligent border Security Surveillance System.	Dr. Yarrapragada K S S Rao, Mr Ronald Chiwariro, D. Nithin H S, Dr.B. Somasundaram Dr. Pal Pandian P Dr Ivan Sunit Rout, Mr. Ramashis Banerjee, Dr. Mohammed Imran, Dr.Buddesab, <b>Dr. K.Ravi Kumar Kandagatla,</b> Mr. A S Rajesh, Mr. Mahesh Kumar A S	<b>Published</b>	202141033795	27-07-2021
10	Transmission Gate Voltage Level Translator for Deep Sub-Micron Technology	<b>Dr.Srinivasulu Gundala,</b> Dr.Mahaboob Basha, Dr.K.Venkata Ramanaiah, Mr.Kota Nikhileswar	<b>Published</b>	202141028829	09-07-2021
11	A System based on Digital Image Processing for utilizing differential Image Intensity Determination and Method Thereof	Jitendra Pramod Sonaware, Gajjala Savithri, Neelima, Altaf C, Anilkumar Gona, Utpal Chandra, Prof.Seshaiah M, Dr. Srishal Math, <b>Pavani Kollamudi,</b> Dr.K.Srinivasa Rao	<b>Published</b>	202121059115	24-12-2021

12	Three Axis Micro Electro Mechanical Systems with H and T Shaped Capacitive Comb Accelerometer	<b>Applicant:</b> <b>DR. Satyanarayana Talam,</b> Dr.M. Srinivasa Reddy, Mrs. Anusha Ganta, <b>Dr. B. Poornaiah Billa</b> <b>Inventor:</b> <b>DR. Satyanarayana Talam,</b> Dr.M. Srinivasa Reddy, Mrs. Anusha Ganta, <b>Dr. B. Poornaiah Billa</b>	Published	202141012662	02-04-2021
13	Automatic Voltage level up/level down shifter for VLSI circuits	<b>Dr. G. Srinivasulu</b>	Published	202041017082	05-06-2020
14	Smart Wearable Reminder Device	M. Aravind Kumar, Pavani, P.S.N. Murthy <b>E. V. Krishna Rao</b> uri Krishna Chaitanya	Published	201941054851	03-01-2020

## Proposal Submitted

Academic Year	Name of The Faculty	Title of Proposal	Scheme / Agency	Amount
2022-23	Dr. T. Satyanarayana	Emerging Trends in Micro-Electro-Mechanical Systems and Flexible Hybrid Electronics for Industrial Applications (11-12-2023 to 17-12-2023)	AV/KAR/2023/0065	<b>25,00,000/-</b>
	Dr. T. Satyanarayana	Novel MEMS-based Carbon Monoxide Gas Sensors for Domestic Safety (02-05-2023)	AV/KAR/2023/0065	44.94 Lakhs
	Dr.T.Satyanarayana Dr.B.Poornaiah	Design, Development and characterization of Zno based carbon monoxide MEMS Gas Sensors with Micro Hot Plates for Safety Applications	CRG/2023/007998	34,38,875 /-
	Mr.B.V.N.R.Siva Kumar Dr.B.Y.V.N.R.Swamy Dr.G.L.N.Murthy	Skill Development and Self-Empowerment of rural women and unemployed youth through electronic controlled fabric toys and manually operated toys	TPN/88316 (DST-SEED-SUNIL)	20,80,000 /-
	Dr.PoornaiahBilla	Development and characterization of Ambipolar Carbon Nanotube Field Effect Transistor	EEQ/2022/000890	9,60,000
2021-22	Dr.G.Srinivasulu (PI) Dr.Y.AmarBabu (Co-PI)	Design and Development of Test Chip fabrication for Battery Power Management System of Portable Electronic Gadgets	MeitY	17,9000 /-
	Dr.B.Poornaiah, Dr.K.Ravi Kumar, Dr.E.V.KrishnaRao, Dr.P.Rakesh Kumar,	Technology Enabled Co-Working Community Center for the Empowerment and Economic upliftment of rural SC people	DST- STI Hub for SC Community	17,9000 /-

	Dr. B.Y.V.N.R. Swamy, Dr.B.SivaHari Prasad, Smt.B.Rajeswari	(Co-PI)		
2020-21	Dr. T. Satyanarayana	Design Optimization and MEMS based Piezoelectric Generators for Powerful Traffic Lights	SERB-CRG	28,64,000 /-
	Dr. T. Satyanarayana	Design and development of continuous liquid level sensor using fiber optic technology for LH <sub>2</sub> and LO <sub>x</sub>	Liquid Propulsion Systems Centre (LPSC), ISRO-Respond Basket 2021	10,23,500 /-
	Dr. B. Poornaiah Dr.T.Satyanarayana	Science Technology and Innovation Hub in Lakireddy Bali Reddy College of Engineering (A), Mylavaram, Krishna District, Andhra Pradesh State	STI Hub for SC Community (DST)	54,80,000 /-
	Dr. M. Venkata Sudhakar Dr. Y. Amar Babu Dr. EV. Krishna Rao	Design of VLSI based Pulse Shaping Circuits for Implementing of Long-Reach Fiber to the Home (FTTH) optical communications systems	AICTE (RPS)	7,67,000 /-
	Dr. A. Narendra Babu	Waste to Power: Mini plant in the campus	DST	20,65,000/-
	B.V.N.R. Siva Kumar Dr. Satyanarayana Talam Dr. Seelam Pichi Reddy Mr. Chaitanya Bhavaraju	Development of Lower Limb Exoskeleton for Rehabilitation Application	DST	24,95,000/-
	Dr. P. Lachi Reddy	MEMS based Sensors and Applications	AICTE	3,00,000 /-
2019-20	Smt K. Lakshmi, Dr. P. Lachi Reddy	Design and Implementation of Artificial Intelligence based smart city	DST (Women Scientist)	30,80,000/-
	Dr. G. Srinivasulu, Dr. E.V Krishna Rao	Design and Development of Prototype VLSI chip fabrication for Efficient Battery Power management System for portable Electronic Gadgets	Core Research Grant	17,40,000/-
	Dr.M.Venkata Sudhakar	Development of Assistive Embedded System to	KIRAN & SATYAM	25,96,000/-
2019-20	Dr.E.V Krishna Rao	Monitor the Improvement of Bone Density and Stress Reduction through Yoga, Meditation and Ayurveda		
	Dr. Y.S.V Raman, Dr A.Narendra Babu	Smart wheel chair for Disabled & old age people	Core Research Grant	20,15,000/-
	Dr. G. Srinivasulu	Mixed Signal Design approaches for Artificial Intelligence Processors	AICTE	4,63,000/-

2018-19	Mr. B. V. N. R. Siva Kumar Dr. D. Sreenivasa Rao, Dr. E.V. Krishna Rao	Development of Lower-Limb Exo-skeletons for assistive and rehabilitation Applications	BDTD-DST	67,68,000/-
	Smt K. Rani Rudrama	Textile Antennas for Tracking, Navigation , Public Safety, Tele medicine purpose	WOS-A DST	25,98,000/-
2017-18	Dr. S.V Jagadeesh Chandra	Investigations on alternative channel material for high frequency MOS devices.	DST-MER	28,47,000/-
	Dr. G. Srinivasulu	Development of voltage level shifter circuits in multi VDD environment using High –K/Ge Stacks.	AICTE-RPS	24,11,764/-
2016-17	Mr. Y. Amar Babu	To develop VLSI and Embedded lab	DST-FIST	69,00,000/-
2015-16	Mr. B. V. N. R. Siva Kumar	Design and development of Assisting devices for the Physically challenged.	UGC-Minor	5,00,000/-
	Mr. G. VenkataRao	Germanium Metal Oxide Semiconductor devices for High Frequency Applications	UGC-Minor	5,00,000/-

### Research Colloquiums from VLSI Group

<b>Academic Year (2022-23)</b>			
<b>S.No</b>	<b>Date</b>	<b>Faculty Name</b>	<b>Title of Presentation</b>
<b>1</b>	18-08-2022	Dr. T. Satyanarayana	Journal Validation and IPR
<b>2</b>	06-01-2023	Mr. K V Ashok	Implementation of Projects using Keil & ARM Processors
<b>3</b>	06-01-2023	Mr. N Dharmachari	Implementation of Projects using Keil & ARM Processors
<b>4</b>	24-03-2023	Mr. G.Venkata Rao	Design and Implementation of Machine Learning (ML) based Network-on-Chip (NoC) on FPGA
<b>5</b>	31-03-2023	Smt. M. Ramya Harika	Design for Testability (DFT)-Introduction, Scan Insertion, Scan Compression
<b>6</b>	31-03-2023	Smt. K. Balavani	Design for Testability (DFT)-ATPG, Simulation, JTAG, MBIST
<b>Academic Year (2021-22)</b>			
<b>1</b>	17-06-2022	Dr. B. Poornaiah	Reliability of polymer thick film resistors by using pulse voltage trimming method.
<b>2</b>	10-06-2022	Dr. B. Poornaiah	Reliability of polymer thick film resistors by using pulse voltage trimming method.
<b>3</b>	10-06-2022	Dr. G. Srinivasulu	Discussion on start-up of chip design proposal.
<b>4</b>	07-01-2022	Dr.P.Lachi Reddy	Automatic Attendance System
<b>5</b>	03-12-2021	Dr.G Srinivasulu	Double Current Limiter High Performance Voltage Level Shifter for IoT Applications
<b>6</b>	05-11-2021	Dr.Y.Amar Babu	Implementation of Communication Protocols



<b>Academic Year (2019-20)</b>			
1.	15/07/2019	Dr.Y. Amar Babu	Machine learning on FPGA
2.	15/07/2019	Dr.P.Lachi Reddy	A unified approach to detect and distinguish hardware Trojans and faults in SRAM based FPGA
3.	15/07/2019	Dr.G.Srinivasulu	Development of voltage level shifter using transmission gates
4.	03/08/2019	Mr.B.V.Siva Kumar	Development in lower limb mobile Exoskeletons
5.	03/08/2019	Mr.G.Venkata Rao	Effect of Interfacial Layer on Leakage currents in Germanium MOS Devices
6.	31/08/2019	Smt.T.Kalpana	Carbon Nanotubes
7.	31/08/2019	Mr.R.HariKishan	Reliability –Aware Test methodology for short channel faults in On-Chip Networks
8.	23/09/2019	Mr.G.Venkat Rao	FPGA Based Machine Learning
9.	23/09/2019	Mr.K.V.Ashok	Fast Energy Efficient Radix-16 sequential Multiplier
10.	04/01/2020	Dr.P.Lachi Reddy	Reversible Gates
11.	04/01/2020	Dr.G.Srinivasulu	Energy and area efficient Level shifter for Multi-VDD Systems.
12.	08/02/2020	Mr.G.Venkata Rao	Reversible Gates
13.	08/02/2020	Mr.K.Sasi Bhushan	Comparision of Receiver Architecture in 5G
<b>Academic Year (2018-19)</b>			
<b>S.No</b>	<b>Date</b>	<b>Faculty Name</b>	<b>Title of Presentation</b>
1.	15-09-2018	Mr.K.Sasi Bhushan	Muller Matrix Imaging Polarimetry
2.	15-09-2018	Mr.G.Venkat Rao	Design of Full Adder using Six Transistors
3.	15-09-2018	Mr.Ch.Mallikarjuna Rao	Adiabatic Logic
4.	25-08-2018	Dr.G.Srinivasulu	Power and Delay aware VLSI circuit Design
5.	25-08-2018	Mr.B.V.N.R. Siva Kumar	Developments in Exoskeletons
6.	25-08-2018	Mr. G. Venkata Rao	MOS for high frequency Applications
7.	04-08-2018	Dr.Y.Amar Babu	On-Chip Interconnects
8.	04-08-2018	Dr.S.V. JagadeeshChandra	Low Power VLSI technology with High-K materials
9.	04-08-2018	Dr.P.Lachi Reddy	Investigations on the Nitride Interface Engineering at HfO <sub>2</sub> / Ge stacks for MOS devices.
<b>Academic Year (2017-18)</b>			
1.	04-05-2018	Dr.P.Lachi Reddy	Fabrication of MOS Capacitance
2.	04-05-2018	Mr.G.Venkata Rao	Germanium MOS Devices

3.	17-03-2018	Smt. K. Rani Rudrama	An efficient Online Mileage Indicator by using Sensors for New Generation Automobiles
4.	03-03-2018	Dr.G.Srinivasulu	Role of Student in enhancing educational research for the development of community projects
5.	03-03-2018	Mr.G.Venkata Rao	Comparison of Germanium and Silicon Gate stacks and their stability
6.	17-02-2018	Mr.K.V. Ashok	Towards an Energy-Efficient Anomaly-Based Intrusion detection engine for embedded systems
7.	03-02-2018	Mr.K.Sasi Bhushan	Privacy Leakage of Physical Activity Levels in Wireless Embedded Wearable Systems
8.	30-12-2017	Dr.P.Lachi Reddy	General Procedure of IC Fabrication
9.	30-12-2017	Smt. K. Rani Rudrama	PS2 VGA Peripheral based Arithmetic application using Micro Blaze processor
10	16-12-2017	Dr.G.Srinivasulu	Development of High Performance level shifters for multi-VDD systems
11	18-11-2017	Dr.S.V. Jagadeesh Chandra	Investigation on alternate semiconducting material for high frequency metal oxide semiconductor devices

### **Academic Year (2016-17)**

1.	20-07-2016	Dr.S.V. Jagadeesh Chandra	Investigation of structural and electrical properties on substrate material
2.	29-09-2016	Mr.Y.Amar Babu	Micro Blaze Based SOC Platform for JPEG2000 compression on SPARTAN6 FPGA
3.	22-04-2017	Dr.M.Suman	Design of energy efficient transceivers for NOC Communications

### **Academic Year (2015-16)**

1.	22-08-2015	Mr. Y. Amar Babu	SDM based NOC for MPSOC using Spartan6 FPGA
2.	26-09-2015	Mr.G.Venkata Rao	Self Heating BIST for FPGA based on the RMAL Awareness
3.	20-02-2016	Dr.S.V. Jagadeesh Chandra	Zirconium Oxide Mixed Tantalum Oxide High-K Gate Dielectric films for Metal-Oxide-Semiconductor
4.	30-04-2016	Ms.B.S.D.Padmaja	Development of high performance clocked latches for high speed applications

## Student Projects

**AY: 2022-23**

Batch	Students	Project Guide	Title of Project
A1	20765A0402	Dr.Y.Amar Babu	Design and Analysis of Area Efficient Adder and it's Layout using 90nm Technology
	19761A0449		
	19761A0440		
	18761A0462		
A2	19761A0418	Dr.E.V.Krishna Rao	Design and analysis of CMOs XOR gate and its layout in 90nm technology
	19761A0432		
	19761A0408		
	19761A0415		
A4	19761A0436	Dr.Y.Amar Babu	Design And Analysis Of CMOS NAND gate and it's Layout using 90nm technology
	19761A0416		
	19761A0458		
A5	19761A0420	Dr.P.Lachi Reddy	Data Encryption using Pseudorandom generation
	20765A0404		
	19761A0407		
A6	19761A0437	Dr.G.Srinivasulu	Design of Energy-Efficient with wide voltage and frequency range femto Second delay Level Shifter
	19761A0404		
	19761A0411		
A7	19761A0453	Dr.B.Poornaiah	Automatic Weed detection and killing robot using Machine learning
	19761A0426		
	19761A0442		
A8	19761A0463	Dr.T.Satyanarayana	Development and testing of collar Helmet for bike riders
	20765A0401		
	19761A0424		
A13	19761A0430	Mr.B.V.N.R. Siva Kumar	Automatic Hoovering and mopping Robot
	19761A0454		
	19761A0410		
A17	19761A0401	Mr.M.Siva Sankara Rao	A Novel Hybrid Electronic Voting Machine using IOT
	19761A0431		
	19761A0429		
A18	19761A0425	Mrs.M.Ramya Harika	Design of medicine dispensing cabinets and alerting system
	19761A0406		
	19761A0445		
A19	19761A0402	Mr. M. Sambasiva Reddy	Water Quality Monitoring and Purification System
	19761A0447		
	19761A0441		
A20	19761A0461	Mrs.T.Kalpna	Deep learning based Intelligent driver monitoring and alerting system
	19761A0451		
	19761A0413		
A21	19761A0423	Mr.Ch.Mallikharjuna Rao	Design of VLSI Architecture for error tolerant image processing applications
	20765A0403		
	19761A0427		
A22	19761A0412	Mr.N.Dharmachari	Highly Compact device modelling and alerting system for remote patient monitoring
	19761A0448		

	19761A0403		
<b>A23</b>	19761A0450	<b>Mr.K.V.Ashok</b>	MRI Breast Tumor Segmentation Using Different Encoder and Decoder Using CNN Architecture
	19761A0435		
	19761A0405		
<b>B1</b>	19761A04B6	<b>Dr.Y.Amar Babu</b>	Design and Implementation of FPGA based Embedded Vision System
	20765A0412		
	19761A04A4		
<b>B5</b>	19761A0488	<b>Dr.P.Lachi Reddy</b>	A High-Throughput VLSI Architecture Design of Canonical Huffman Encoder
	19761A04A3		
	19761A04C3		
<b>B7</b>	19761A04C6	<b>Dr.B.Poornaiah</b>	Brain Disease Detection using Unsupervised Machine Learning
	20765A0411		
	19761A0471		
<b>B13</b>	19761A04C7	<b>Mr.B.V.N.R. Siva Kumar</b>	Efficient Classification of Autism in Childrens by Thermal Imaging using Deep Learning
	19761A04A2		
	19761A04A1		
<b>B14</b>	19761A0480	<b>Mr.G.Venkata Rao</b>	A Slew Rate Enhancement Class AB on Operational Transconductance Amplifier
	19761A0489		
	19761A0466		
<b>B18</b>	19761A0474	<b>Mrs.M.V.L.Bhavani</b>	Detection of Copper ions by Adapting ISPR Technique on Plastic Optic Fibers
	19761A0482		
	20765A0410		
<b>B19</b>	19761A04B8	<b>Mr.K.V.Ashok</b>	Object Recognition and Tracking in Video
	19761A0476		
	19761A04B3		
<b>B20</b>	19761A04B2	<b>Mr.P.Venkateswara Rao</b>	IoT based Gas Leakage Monitoring System using FPGA
	19761A04C5		
	19761A0493		
<b>B21</b>	19761A0472	<b>Mr.Ch.MallikharjunaRao</b>	Design of Power Efficient Multiplier Architectures for Image Processing Applications.
	19761A0479		
	19761A0490		
<b>B22</b>	19761A0465	<b>Mr.P.James Vijay</b>	Development of IOT based Air Pollution Monitoring System with Enabled GSM Service
	19761A0478		
	19761A04C9		
<b>B23</b>	19761A0495	<b>Mr.N.Dharmachari</b>	Development of Smart Trash Bin Level Monitoring System using a LoRaWAN Module
	19761A04A6		
	19761A0491		
<b>C5</b>	19761A04E1	<b>Dr.G.Srinivasulu</b>	Identification Of Parkinson's Disease By The Voice And Spiral Drawing Using Machine Learning
	19761A04D5		
	19761A04H4		
<b>C7</b>	19761A04H7	<b>Dr.T.Satyanarayana</b>	Prediction On Heavy Vehicles Average Fuel Consumption Using Machine Learning Techniques
	19761A04G0		
	19761A04H6		
<b>C18</b>	19761A04E4	<b>Mr.M.Sambasiva Reddy</b>	Arm7 Based Accident Detection And Vehicle Tracking
	19761A04E8		
	19761A04F8		
<b>C19</b>	19761A04G1	<b>Mrs.T.Kalpana</b>	Human Activity Recognition Using Convolutional Neural Networks
	19761A04F6		
	19761A04H3		

<b>C21</b>	19761A04I5	<b>Mrs.K.Balavani</b>	Detection Of Plant Leaf And Its Disease ByUsing Rcn/Cnn Techniques
	19761A04G3		
	19761A04E2		
<b>C22</b>	19761A04E5	<b>Mrs.K.Pavani</b>	A Method For Information Hiding And Transferring It Securely In Public Domains
	19761A04F5		
	19761A04J1		
<b>C23</b>	19761A04E0	<b>Ms.G.Asha</b>	Design And Implementation Of Hybrid Embedded System Based Driver Monitoring System
	20765A04I3		
	19761A04I0		

**AY: 2021-22**

A1	18761A0459	Dr. Y.Amar Babu	Transparent and genuine charity application using Block chain Technology
	18761A0436		
	18761A0429		
	18761A0441		
A4	18761A0418	Dr. Y.S.V.Raman	Smart home automation using IOT
	18761A0439		
	18761A0452		
	17761A0459		
A5	18761A0444	Dr. P. Lachi Reddy	Irrigation Monitoring and crop protection system
	18761A0414		
	18761A0433		
	18761A0454		
A7	18761A0455	Dr. T. Satyanarayana	Modelling investigations on efficiency of miniaturized piezoelectric energy harvester
	18761A0437		
	18761A0413		
	18761A0428		
A13	18761A0445	Mr. M.Sivasankara Rao	Used indoor and outdoor health safety monitoring system
	18761A0410		
	18761A0457		
	18761A0408		
B1	18761A0460	Dr. Y.Amar Babu	Alive human detection and Health Monitoring using IOT based robot
	18761A04A0		
	18761A04A1		
	18761A0487		
B5	18761A0482	Dr. G. Srinivasulu	Vehicle safety control for the anticipation of accidents
	19765A0411		
	18761A0474		
	18761A0463		

B12	18761A0473	Smt M. Ramya Harika	rolling system using LABVIEW
	18761A0476		
	18761A0489		
	18761A0490		
B13	18761A0488	Dr. P. Venkat Rao	An IOT based embedded system for monitoring and control of green houseparameter
	18761A0483		
	18761A04A9		
B16	18761A04B8	Mr. A. Uday Kumar	Theft control, accident detection andvehicle positioning using ARM 7 LPC 2148 Microcontroller
	18761A0467		
	18761A0470		
B17	18761A0475	Mr. B. P. Madhusudan	based smart energy managementsystem for home automation
	19765A0412		
	18761A0498		
	18761A0477		
B18	18761A0479	Smt. K Balavani	IOT based automated irrigation system and detection of soil nutrients
	19765A0409		
	18761A04A5		
C5	18761A04D3	Dr. P. Lachi Reddy	A system which procures attendance by using face recognition and Raspberry PI
	18761A04H6		
	18761A04G8		
	19765A0415		
C6	18761A04F0	Dr. G. Srinivasulu	An Power Efficient Level Shifterfor Ultra Low-Voltage Digital circuits
	19765A0414		
	18761A04F9		
	18761A04H7		
C7	18761A04E7	Dr. B. Poornaiah	IoT based efficient detection ofCovid-19 using Rasberry Pi
	18761A04D0		
	18761A04F2		
	18761A04G4		
C13	18761A04F3	Smt.T. Kalpana	Smart controlled wheel chair
	18761A04G5		
	18761A04F7		
	18761A04E1		
C14	18761A04D7	Mr.Ch.Mallikarjuna Rao	Smart voting GIZMO
	18761A04G6		
	18761A04D8		
	18761A04C3		



C15	18761A04C2	Mr. K V Ashok	urpose agriculturerobot
	19765A0419		
C16	18761A04F6	Mrs. M.V.L. Bhavani	Design of wideband antenna using defected ground structure
	18761A04D6		
	18761A04H1		
C17	18761A04F5	Mr. N. Dharmachari	Digital Payment based petrol filling using Raspberry Pi and RF-ID
	19765A0418		
	18761A04H4		
C18	18761A04E2	Mr. K. Bhanu	Designing of Conformal Antenna
	18761A04H5		
	18761A04C0		

**AY: 2020-21**

<b>ATCH NO.</b>	<b>REGD. NO.S</b>	<b>PROJECT WORK TITLE</b>	<b>Guide Name</b>
A1	17761A0417	Smart Power Management System	Dr. Y. Amar Babu
	17761A0422		
	18765A0403		
	17761A0435		
A2	17761A0426	se Power Fault DetectionSystem	Dr.E.V.Krishna Rao
	17761A0412		
	17761A0402		
A3	17761A0445	Monitoring And AutomationIrrigation	Dr. Y.S.V.Raman
	17761A0441		
	17761A0444		
	18765A0410		
A4	17761A0401	Development Of Smart Parking System	Dr.M.V.Sudhakar
	17761A0424		
	17761A0431		
	17761A0457		
A5	17761A0427	ecognition Using MachineLearning	Dr.G.Srinivasulu
	17761A0415		
	17761A0404		
	17761A0452		
A7	17761A0451	t Based Home SecuritySystem	Dr.B.Y.V.N.R.Swamy
	17761A0421		
	18765A0411		
	18765A0412		
A11	17761A0450	ching Alert System For RedSandalwood Safety	Smt. K.Rani Rudrama
	17761A0409		
	17761A0406		
	17761A0455		
A12	17761A0420	icultural Multi-TaskingVehicle	Mr.T.Anil Raju
	17761A0425		
	17761A0456		
	17761A0454		
	17761A0437	Smart Home Security Alert SystemFor	

A15	17761A0433	Continuous Supervision	Smt. B. Rajeswari
	17761A0439		
A16	17761A0416	Covid_19 Indoor Monitoring System Using Iot	Mr.P.Venkateswara Rao
	17761A0430		
	17761A0440		
A17	17761A0419	Smart Virtual Assistant	Smt. K. Pavani
	18765A0446		
	17761A0411		
B1	17761A0485	Smart Water Meter	Dr.Y.Amar Babu
	17761A0488		
	17761A0491		
	18765A0421		
B3	17761A04B2	Protective Equipment For Women	Dr.B.Ramesh Reddy
	17761A0496		
	18765A0416		
	17761A04A8		
B4	17761A0481	Chair With Health Monitoring Using Lpc2148	Dr.A.Narendra Babu
	17761A0466		
	18765A0420		
	17761A0483		
B7	17761A04A7	d Garbage Segregation And Monitoring System	Dr.P.Lachi Reddy
	17761A0479		
	17761A04B5		
	17761A04A1		
B8	17761A0480	Effective Monitoring On Agriculture Farming And Protecting System Using Raspberry Pi	Dr.B.Poornaiah
	17761A0473		
	17761A0475		
	17761A0464		
B9	17761A04C0	illing Of Piezoelectric Cantilever Based Energy Harvester Using Comsol	Dr.T. Satyanarayana
	17761A0469		
	18765A0418		
B10	17761A0470	Design Of High Speed And Low Area Confined Multiplier On FPGA	Dr.K.Ravi Kumar
	17761A0476		
	17761A0462		
	17761A0498		
B14	17761A04B1	ognition Of Leaf Diseases Using Cnn Python	h.Siva Rama Krishna
	17761A04B7		
	17761A0477		
	18765A0413		
B16	17761A0474	User Cum Ecofriendly Smart Parking Lot.	Mr. P. Venkat Rao
	17761A0494		
	17761A04A2		
	18765A0414		
B17	17761A04A9	tation Of A Counter Using QuantumDot Cellular Automata(Qca)	Mr. K.V. Ashok
	18765A0422		
	18765A0419		
C1	17761A04E5	theft technology of museum by integrating RFID technology	Prof.B.Ramesh Reddy
	17761A04F9		
	17761A04G5		
	17761A04F4		
	17761A04F0		

	17761A04E1		
	18765A0428		
C3	17761A04H6	Smart traffic light controller	Dr.P.Lachi Reddy
	17761A04D6		
	17761A04D5		
	18765A0431		
C4	17761A04F8	or camera with thermal screening and face mask detection	Dr.G.Srinivasulu
	17761A04D9		
	17761A04C8		
	17761A04E0		
C7	17761A04E9	ign of antenna for wireless applications	Dr.P.Rakesh Kumar
	18765A0435		
	18765A0438		
	17761A04C6		
C9	18765A0425	nt of wearable vest for measuring body health parameters	Mr.B.V.N.R.Siva Kumar
	17761A04C2		
	18765A0429		
	18765A0430		
C11	17761A04E2	Design and analysis of carry look ahead adder using full swing gate diffusion input technique	Mr.G. Venkata Rao
	17761A04F3		
	18765A0434		
	17761A04H5		
C15	17761A04G1	olar tracking system using weather sensor	Smt.M.Ramya Harika
	17761A04G3		
	17761A04D4		
	18765A0432		
C18	17761A04C1	Development of GPS & GSM based advanced system for tracking vehicle speed violations and accidents	Mr.B.P.Madhusudhan
	18765A0426		
	17761A04F5		
<b>AY: 2019-20</b>			
A1	16761A0459 16761A0414 16761A0428	IOT Based enhanced and efficient safety system using raspberry pi through website and Android application	Dr.E.V.Krishna Rao
A2	16761A0411 16761A0412 16761A0426 16761A0433	Electronic voting machine using FPGA	Dr.Y.Amar Babu
A3	16761A0443 16761A0410 16761A0427 16761A0420	Web server based patient monitoring system using LabView	Dr.A.Narendra Babu
A4	17761A0407 16761A0452 16761A0430 17761A0404	Nursing robot for hospital applications	Mr.B.V.N.R.Siva Kumar
A5	16761A0436 16761A0403 16761A0455 16761A0409	Fall detection for elderly using Labview	Mr.V.V.Rama Krishna

A7	16761A0457 16761A0453 16761A0450 17761A0409	Novel approach to Design and Implementation of efficient multiplier using Urdhva Triyakbhyam Sutra	Smt.K.Rani Rudramma
A13	16761A0415 16761A0435 16761A0441 16761A0439	An emergency air ambulance	Mr.M.Siva Sankara Rao
A15	16761A0404 16761A0425 16761A0407 17761A0403	Advanced security and assisting system based on face and eye blink detection	Mr.P.Venkateswara Rao
B1	16761A0463	IoT Based Smart Irrigation	Dr.Y.Amar Babu
	16761A0486		
	16761A0461		
	16761A0475		
B2	16761A0487	Development Of Optimised Voltage Level Shifter For Nano Scale Applications	Dr.G.Srinivasulu
	16761A04A9		
	16761A0481		
	17765A0414		
B3	16761A0470	Gsm Path Planning For Blind People Using Ultrasonic Sensor	Dr.P.Lachi Reddy
	16761A04A0		
	16761A04A7		
	17765A0417		
B4	16761A0472	Wireless Electronic Notice Board Using Arduino And Labview	Mr.V.V.Rama Krishna
	16761A0477		
	16761A0491		
	16761A0467		
B6	16761A0479	Dare To Touch	Dr.A.Narendra Babu
	16761A0490		
	17765A0423 17765A0422		
B7	16761A04B3	PRE AMPLIFIER LATCH CMOS COMPARATOR USING 130nm TECHNOLOGY FOR ANALOG TO DIGITAL CONVERTER	Mr.G.Venkata Rao
	16761A04A8		
	16761A0483		
	16761A0492		
B9	16761A04B1	Children's Tracking System Using Gps And Rfid Technology	Mr.Siva Hari Prasad
	16761A0482		
	16761A04A1 16761A0480		
B11	16761A04A3	Rechargeable Electric Energy Meter Using Gsm And Arduino	Mr.B.Y.V.N.R. Swamy
	16761A04B0		
	16761A0462		
	17765A0413		
B12	16761A04B6	Real-Time People Tracking And Attendance System Using Klt Algorithm	Dr.E.V.Krishna Rao
	16761A0466		
	16761A0499		
	16761A0464		
B13	16761A0469	Driver Activity Recognition For Vehicles	Mr.M.Siva Sankara Rao
	16761A0494		

	16761A04A6		
	16761A04B5		
B14	16761A04C0	Air Quality Prediction DataLog By Machine Learning	Mr.P.Venkata Rao
	16761A04B7		
	17765A0421		
	16761A0484		
B16	16761A0496	DEVELOPMENT OF ALERTING AND MONITORING SYSTEM FOR MANHOLEMANAGEMENT USINGIOT	Dr.M.Venkata Sudhakar
	16761A04B9		
	16761A04A5		
	16761A0489		
B17	17765A0416	ZIGBEE BASED DEFENSE ROBOT	Smt.T.Kalpana
	16761A04A4		
	17765A0424		
	16761A0495		
C02	16761A04H5	Smart Agriculture and Home Automation usingGoogle Assistance.	Dr. P. Lachi Reddy
	16761A04E0		
	16761A04D1		
	16761A04D8		
C03	16761A04G2	Green House Monitoring And Controlling UsingWsn Protocol	Dr.G. Srinivasulu
	16761A04I0		
	16761A04E2		
	17765A0430		
C04	16761A04G9	Lab View Based MobileRobot In Hospitals	Mr.B.V.N.R Siva Kumar
	16761A04H0		
	16761A04E4		
	16761A04G5		
C05	16761A04C1	Design Of Optimized LowPower Multiplier Using CMOS Pass-Transistor Technology	Mrs. K. Rani Rudrama
	16761A04D9		
	16761A04F4		
	16761A04C3		
C07	16761A04C4	Designing Of SR And D Flip FlopUsing Reversible Logic and Pass Transistor Logic	Mr. G.Venkata Rao
	16761A04E3		
	16761A04F9		
	17765A0425		
C14	16761A04G3	IOT Based Intelligent Vehicle Communication For CollisionAvoidance	Mr. Ch. Siva RamaKrishna
	16761A04E8		
	16761A04D5		
	17765A0435		
C15	16761A04C6	PEPE – The Hand wash PromotingROBOT	Mrs. Ramya Harika
	16761A04H7		
	17765A0431		
	17765AA032		
C16	16761A04H1	Intelligent Fire Accident ControlSystem In Trains	Mrs. K. Lakshmi
	16761A04F3		
	16761A04F1		
C17	17765A0429	Microcontroller Based AutomaticWaste Segregation System	Mr.K.V.Ashok
	16761A04F2		
	17765A0428		

**A.Y. 2018-19**

<b>A2</b>	15761A0412	IOT Cloud Based Health Care System	Dr. Y.Amar Babu
	15761A0413		
	15761A0402		
	15761A0401		
<b>A3</b>	15761A0431	Fingerprint and IRIS Biometric Controlled Smart Banking Machine	Dr. A.NarendraBabu
	15761A0420		
	15761A0422		
	15761A0408		
<b>A4</b>	15761A0442	Designing a System for Detecting Unwanted Gases and Monitoring the Agricultural Parameters Using IOT	Dr. M VenkataSudhakar
	15761A0458		
	15761A0441		
	15761A0406		
<b>A5</b>	15761A0415	Real Time Automatic Irrigation System with Mobile Alert	Dr. P. Lachi Reddy
	16765A0412		
	15761A0440		
<b>A6</b>	15761A0411	Cognitive Integrated Hydration Management Using IOT	Mr.K.SasiBhushan
	15761A0404		
	15761A0410		
	15761A0453		
<b>A7</b>	15761A0455	Smart Ambulance	Dr. S. V. JagadeeshChandra
	15761A0418		
	15761A0426		
<b>A10</b>	15761A0429	Smart Crop Protection System from Wild Animals Attack using PIC	Mr. P. Venkateswara Rao
	15761A0432		
	15761A0417		
	15761A0419		
<b>A11</b>	15761A0447	Arduino Based Communication System for Disabled Persons	Smt. M. V.L. Bhavani
	15761A0452		
	15761A0409		
<b>A12</b>	15761A0437	An Automated System for Accident Detection Using IOT and Fuzzy Logic	Dr. Y S V Raman
	15761A0439		
	16765A0402		
	16765A0406		
<b>A14</b>	15761A0448	Air Quality Monitoring System Using IOT and Wireless Sensors	Mr. P.Venkata Rao
	15761A0435		
	15761A0416		
	16765A0404		
<b>A15</b>	15761A0433	Crop Disease Detection Using Machine Learning	Mr. K.Ravi Kumar
	15761A0436		
	15761A0449		
	15761A0445		
<b>A16</b>	15761A0459	Eye Controlled Wheel Chair Using HOG Algorithm	Mr. Ch. V.Naga Bhaskar
	15761A0446		
	15761A0451		
	16765A0405		
<b>A17</b>	15761A0427	Intelligent Walking Stick for Visually Impaired	Dr. G.L.N.Murthy
	15761A0425		
	15761A0421		
	15761A0456		



A18	15761A0438	Aadhar Authenticated Smart E-Voting System	Mr. M Samba Siva Reddy
	15761A0450		
	15761A0414		
	16765A0403		
B1	15761A0490	Smart Farming Using IOT	Dr. Y.Amar Babu
	15761A04A9		
	15761A04B4		
	15761A0492		
B2	15761A04A6	Hand Gesture Controlled Mouse	Dr. E.V.Krishna Rao
	15761A0463		
	16765A0421		
	15761A0468		
B5	15761A0491	Rural Warehouse Monitoring System	Dr. G Srinivasulu
	15761A0481		
	15761A0461		
	15761A0464		
B6	15761A0485	Design & Implementation of Multiplexer based flash ADC using 130 nm CMOS technology	Dr. G.Srinivasa Rao
	15761A04A4		
	15761A04B3		
	16765A0416		
B9	15761A04B0	Advanced Driver Assistance system	Mr.S.K.Masthan Sharif
	15761A0489		
	15761A04C0		
	16765A0423		
B10	15761A04A3	Fingerprint Based Electronic Voting Machine	Mr. M.Siva Sankara Rao
	15761A0478		
	15761A0466		
	15761A0462		
B11	15761A04A5	Intelligent Home Automation	Dr. P. Lachi Reddy
	16765A0419		
	15761A0480		
B12	15761A0484	Highly Secured Weather Forecasting and Flood Monitoring System	Smt.K.Rani Rudrama
	15761A0476		
	15761A04B8		
B13	15761A04A0	Ingenious Helmet Protection	Smt. K.Lakshmi
	15761A0498		
	16765A0418		
	15761A0497		
B15	16765A0424	Acknowledgment based TimeTable using Aurdino	Mr. Ch. Siva rama Krishna
	15761A0465		
	16765A0417		
	16765A0422		
B17	15761A0496	Smart Traffic Control system based on Traffic Density	Mr. Ch.Mallikarjuna Rao
	15761A0473		
	15761A04A2		
	15761A0474		
B18	15761A0482	Coal Mine safety Monitoring System using GSM Module	Smt. T.Kalpana
	15761A0499		

	16765A0414		
	15761A0486		
<b>C1</b>	15761A04C2	Smart decentralized freight monitoring system for transport and logistics industry using block chain	Dr. G Srinivasulu
	15761A04H3		
	15761A04F1		
	15761A04F6		
<b>C2</b>	15761A04E1	My Rio based mobile rescue robot	Dr. Y Amar Babu
	15761A04G5		
	16765A0435		
	15761A04C8		
<b>C3</b>	15761A04H7	Design and implementation of coal mine safety system using IoT	Mr. G.VenkataRao
	16765A0436		
	15761A04C3		
	15761A04G2		
<b>C4</b>	15761A04D0	Wireless black box using MEMS accelerometer for Vehicle Accidental Monitoring	Prof. B. Ramesh Reddy
	15761A04E8		
	16765A0429		
	16765A0432		
<b>C5</b>	15761A04C9	Ignition of a car based on face recognition system	Mr. K.Venkata Ashok
	15761A04G8		
	15761A04H6		
	15761A04G9		
<b>C6</b>	15761A04C5	Hands-free Text entry using labview	Mr. R.Hari Kishan
	15761A04E7		
	16765A0430		
	15761A04C7		
<b>C8</b>	15761A04H1	Implementation of high speed and less area confined multiplexer based full adder on FPGA	Mr. A Anil Kumar Reddy
	15761A04F5		
	15761A04G6		
	15761A04E0		
<b>C9</b>	15761A04D5	IoT enabled solar powered environmental monitoring system	Dr. J Babu
	15761A04F4		
	15761A04E2		
	16765A0425		
<b>C11</b>	15761A04D7	Design of compact low power autonomous vehicle for multi purpose	Mr. B.V.N.R. Siva Kumar
	15761A04F9		
	15761A04D1		
	15761A04G4		
<b>C13</b>	15761A04E4	Obstacle detection device for blind people using GPS tracking system	Dr. E.V.KrishnaRao
	15761A04E9		
	14761A0466		
	15761A04C6		
<b>C15</b>	15761A04D6	Self activated commuting of train allying between stations	Dr. G.SrinivasaRao
	15761A04D8		
	15761A04H8		
	14761A0477		
<b>C16</b>	15761A04E3	IoT based Biometric Attendance System	Mr. B.Y.V.N.R. Swamy
	15761A04H0		
	15761A04D2		
	16765A0433		
	16765A0438	Dumpster monitoring system using Arduino UNO	Smt. M Ramya
	15761A04F8		

<b>C18</b>	16765A0437		Harika
	15761A04F2		
<b>A.Y.2017-18</b>			
<b>A1</b>	<b>14761A0415</b>	A smart students attendance system using QR code	Prof B.Ramesh Reddy
	<b>14761A0421</b>		
	<b>15765A0407</b>		
	<b>15765A0406</b>		
<b>A4</b>	<b>14761A0422</b>	Sensor based traffic light controller by using arduino	Dr.G.Srinivasa Rao
	<b>14761A0458</b>		
	<b>14761A0433</b>		
	<b>14761A0446</b>		
<b>A5</b>	<b>14761A0457</b>	Smart prepaid electricity energy metering and power	Dr.Y.S.V.Raman
	<b>14761A0443</b>		
	<b>14761A0441</b>		
	<b>15765A0408</b>		
<b>A6</b>	<b>14761A0436</b>	Early stage detection of fire accidents using GSM and GPSmodules	Dr.P.Lachi Reddy
	<b>14761A0437</b>		
	<b>14761A0416</b>		
	<b>14761A0456</b>		
<b>A7</b>	<b>14761A0445</b>	Bidirectional voltage level shifter with optimized power and delay	Dr.G.Srinivasulu
	<b>14761A0413</b>		
	<b>14761A0440</b>		
<b>A9</b>	<b>14761A0406</b>	Gesture controlled robotic vehicle	Smt. K.Rani Rudrama
	<b>14761A0460</b>		
	<b>14765A0414</b>		
<b>B1</b>	<b>14761A0438</b>	Navigation Assistive Interface forVisually Challenged People	Prof. B. Ramesh Reddy
	<b>14761A0497</b>		
	<b>14761A0467</b>		
	<b>14761A0499</b>		
	<b>14761A0465</b>		
<b>B2</b>	<b>14761A0496</b>	Arduino based Wireless Electronic Notice Board and Controlling of HomeAppliances using GSM Technology	Dr. E. V. Krishna Rao
	<b>14761A0492</b>		
	<b>14761A04A0</b>		
	<b>14761A0488</b>		
<b>B4</b>	<b>14761A0490</b>	A multi functioning system for vehiclesafety and security	Dr. S. V. Jagadeesh Chandra
	<b>14761A0495</b>		
	<b>14761A0476</b>		

	<b>14761A0479</b>		
<b>B5</b>	<b>14761A0474</b>	School Bus Tracking System using RFID	Dr. Y. V. S. Raman
	<b>15765A0423</b>		
	<b>14761A04A6</b>		
	<b>14761A0464</b>		
<b>B6</b>	<b>14761A04C0</b>	Human Arm Controlled Wireless Robotic Arm	Dr. M. Venkata Sudhakar
	<b>15765A0413</b>		
	<b>15765A0420</b>		
	<b>15765A0418</b>		
<b>B8</b>	<b>14761A0498</b>	Semi Automated Fire Control Robot using Android Application	Mr. G. L. N. Murthy
	<b>14761A0483</b>		
	<b>15765A0416</b>		
	<b>14761A04A3</b>		
	<b>14761A0487</b>	Arduino and IoT based patient health monitoring	
	<b>14761A0486</b>		
<b>B10</b>	<b>14761A0481</b>	system using Wi-Fi module	Mr. Sk. Mastan Sharif
	<b>14761A0468</b>		
<b>B11</b>	<b>14761A0471</b>	Mobile Controlled Home Appliances	Mr. P. Rakesh Kumar
	<b>14761A04B8</b>		
	<b>14761A0475</b>		
	<b>14761A04B7</b>		
<b>B12</b>	<b>14761A0472</b>	Arduino based underground cable fault detector	Mr. B. Y. V. N. R. Swamy
	<b>14761A0470</b>		
	<b>14761A0485</b>		
	<b>14761A0463</b>		
<b>B13</b>	<b>14761A04B4</b>	Sensing and actuating multiple tasks using IoT	Smt. B. Rajeswari
	<b>14761A0480</b>		
	<b>14761A04A7</b>		

	15765A0422		
B14	14761A0489	Facial recognition enabled smart door using raspberry pi (IoT)	Mr Ch.Siva Rama Krishna
	14761A04B2		
	15765A0415		
	14761A0491		
B15	14761A04B6	Driver Assistance Vehicle using Raspberry pi	Smt. M. V. L. Bhavani
	15765A0414		
	14761A0469		
B16	14761A04A8	Arduino and Raspberry Pi based Smart Communication and Control of Home Appliance System	Mr. K. Ravi Kumar
	14761A04B9		
	14761A04A5		
B17	14761A0494	IoT based Temperature and Humidity Monitoring System for Agriculture	Mr. Ch. V. Naga Bhaskar
	14761A0473		
	15765A0421		
	14761A04B0		
B18	14761A0493	Advanced security system with theft control and accident notification using GSM & GPS	I. Sambasiva Reddy
	14761A0482		
	14761A0461		
C1	14761A04E8	Implementation of Indoor Air Quality monitoring system using IOT and GSM.	Dr. E.V. Krishna Rao
	14761A04E6		
	14761A04F3		
	15765A0429		
C3	14761A04H7	RFID and GSM based automatic toll collection system using LPC 2148 controller.	V. Jagadeesh Chandra
	14761A04G0		
	14761A04E2		
	15765A0430		
C4	14761A04C9	Coal mine safety system using wireless sensor	Dr.G. Srinivasa Rao
	14761A04D1		

	14761A04C7	networks and RFID Technology.	
	14761A04G8		
C5	14761A04C1	Design of automatic irrigation system using Aurdino and IOT.	.M.Venkata Sudhakar
	14761A04F5		
	15765A0435		
	14761A04E0		
C6	14761A04F6	Rasperry pi based security system.	Dr. P. Lachi Reddy
	14761A04G3		
	14761A04G9		
	14761A04G5		
C7	14761A04D5	Smart reader for visually impaired people with Rasperry Pi.	Mr. Y. Amar Babu
	14761A04C2		
	14761A04F1		
	14761A04C3		
	14761A04D6		
C12	14761A04G6	Object tracking robot using RasperryPi.	Mr.L.Srinivasa Reddy
	15765A0427		
	14761A04E3		
C14	14761A04G2	Finger print based electronic voting machine.	Mr.Ch.Mallikarjuna Rao
	14761A04C5		
	14761A04D3		
	14761A04H8		
C15	14761A04F7	An IOT based vehicular pollution monitoring system using arduino.	Mr.P.Venkata Rao
	15765A0428		
	14761A04D4		
	14761A04G7		
C16	14761A04C6	Automated driverless metro train.	Mr.K.Rama Krishna
	14761A04F4		

	<b>14761A04E4</b>	
	<b>14761A04D2</b>	
<b>A.Y. 2016-17</b>		
A1	12761A0441	Home automation using IOT
	13761A0408	
	13761A0449	
	13761A0439	
A3	13761A0414	Android based voice operated Robot
	13761A0415	
	13761A0457	
	13761A0413	
A6	13761A0422	Raspberry pi based IOT weatherstation
	13761A0452	
	13761A0426	
	13761A0447	
A7	14765A0412	Design of a controller for an Actuator used in Aerospace Vehicles
	14765A0405	
	14765A0407	
	13765A0445	
A8	13761A0429	Labview controlled score board
	13761A0428	
	14765A0402	
	13761A0410	
A10	13761A0409	Leakage power analysis and reduction for nanoscale circuits
	13761A0401	
	13761A0448	
	13761A0455	
	13761A0418	
A15	13761A0417	Advanced solar security system
	13761A0420	
	13761A0405	
A18	13761A0454	Dual Axis sun tracking solar panel
	13761A0453	
	13761A0404	
	13761A0403	
B1	13761A0476	Arduino based vehicle alert system using GPS
	13761A0475	
	13761A0485	
	13761A0477	
B2	13761A04A5	IOT based water tank monitoring using NODEMCU
	13761A04B8	
	13761A0463	
B7	13761A0466	Bar Code Based student Activity Log using Labview
	13761A0461	
	14761A0418	
	14765A0465	
B8	13761A0491	Smart locker security system using biometric fingerprint and GSM technology
	13761A0493	
	13761A0471	
	13761A0470	



B9	13761A0482	Vehicle tracking using adaptive background subtraction
	13761A0495	
	13761A04A4	
	13765A0478	
B15	13761A0484	Android agriculture monitoring system using ESP8266 WI-FI module
	13761A0469	
	13761A0496	
	13761A0486	
C1	13761A04D9	Blood Bank Monitoring System
	14765A0431	
	14765A0426	
	13761A04F7	
C5	13761A04E7	Solar Powered Smart Irrigation System using AURDINO UNO
	13761A04H6	
	13761A04G6	
	13761A04C8	
C7	13761A04G1	Integrated Canteen Automation System Using LABVIEW
	13761A04G9	
	13761A04G0	
	14765A0434	
C9	13761A04D3	Wireless Signal Control System in Railways
	13761A04C6	
	13761A04E4	
	14765A0432	
C12	13761A04D7	DTMF based Load Control System using PIC Microcontroller
	13761A04C7	
	13761A04E0	
	13761A04D4	
C13	13761A04G7	Agricultural Motor Control System using GSM
	13761A04H1	
	13761A04F6	
	13761A04G8	
C14	13761A04G3	IOT based Home Automation using Internet Cloud
	13761A04E1	
	13761A04H3	
	14765A0430	
C15	13761A04H8	IOT based Intelligent Health Care System
	13761A04H9	
	13761A04F2	
C16	13761A04D1	Environmental Moisture Monitoring Station
	13761A04G2	
	13761A04D2	
	13761A04C1	
C18	14765A0428	Eye Gaze Tracking and Eyes off the Road Detection for Traffic Safety on RASSBERRY PI
	13761A04H4	
	14765A0433	
	14765A0429	