



CVR COLLEGE OF ENGINEERING

(An UGC Autonomous Institution with NAAC 'A' Grade Affiliated to JNTUH)

Vastunagar, Mangalpalli (V), Ibrahimpatan (M), R.R. District

Ph. No:91-8414 – 661601, 661675

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Grants Received by the Department

The Department of ECE has received **2.78 Crores** of funds from external agencies like DST, ISRO, AICTE, UGC, ECIL, DRDO and Comsat Systems Pvt. Ltd.

Research Grants:

S. No.	Name of the Coordinator	Funding Agency	Academic Year	Project Title	Amount	Status
1	1. Dr. P. Hemasree 2. Ms. J Jyostna 3. Ms. M Santhoshi	NRSC (ISRO)	2024-25	Design and Development of Deep Learning Architecture for Extraction of Buildings and change detection from High-Resolution Satellite images using GANs	Rs. 16.8 Lakhs	Ongoing
2	1. Prof. CH VRS Gopala Krishna 2. Dr. L. Nageswara Rao	COMSAT Systems Pvt. Ltd	2022-23	Design & Development of 60/85 feet Troposcatter Antenna Feed System	Rs 10 Lakhs	Ongoing
3	1. Prof. CHVRS Gopala Krishna	NRSC (ISRO)	2017-18	Development of Multi band S/X/Ka band feed system	Rs. 33 Lakhs	Completed
4	Dr. K. Yedukondalu	AICTE - RPS	2017-18	Study and implementation of self-organized femto Cells for Broadband services to indoor users in heterogeneous environment	Rs. 23.87 Lakhs	Completed
5	Dr. T. Esther Rani	UGC – Research Award	2015-16	Design of self-sleep circuit to minimize standby power for VLSI and 3Embedded applications	Rs 46.88 Lakhs	Completed
Sub Total					Rs. 1.30 Crores	
Institutional funding						
6	Prof. P. Subramanyam	Institutional funding CVR College of Engineering	2014-15 onwards	Development of Robust and Low cost unmanned aerial vehicles	Rs. 13 Lakhs	2014-15 onwards

DST NewGen IEDC Projects

S. No.	Name of the Coordinator	Funding Agency	Year of sanction	Project Title	Amount	Status
1	Dr. S. Praveen Chakkravarthy	DST–NewGen IEDC	2023-24	Improving Shelf life of Fruits and Vegetables	Rs.1 Lakhs	Ongoing
2	Dr. Bhanuprakash D.	DST–NewGen IEDC	2023-24	Ambi Connect: Unifying spaces with Intelligent presence.	Rs. 1 Lakhs	Ongoing
3	Dr. K. Arun kumar	DST–NewGen IEDC	2023-24	Data Analytics powered health care solution to prevent maternal deaths in tribal areas.	Rs. 2.0 Lakhs	Ongoing
4	Dr. P. Srinivas Rao	DST–NewGen IEDC	2023-24	AGRILITE	Rs. 2.0 Lakhs	Ongoing
5	S. Sailaja,	DST – NewGen IEDC	2022-23	High Endurance autonomous Mapping Plane	Rs. 1.98 Lakhs	Completed
6	B. Janardhan Rao	DST – NewGen IEDC	2022-23	Vehicle driver monitoring System	Rs. 1.87 Lakhs	Completed
7	Dr. K. S. Nayanathara	DST – NewGen IEDC	2022-23	Design of Isolation device for Array antennas	Rs. 1.8 Lakhs	Completed
8	R. Prameela Devi,	DST – NewGen IEDC	2022-23	Robo prosthetic arm	Rs. 1.95 Lakhs	Completed
9	Dr. Praveen Chakkravarthy	DST – NewGen IEDC	2022-23	Design of low cost RS-485 to Lora WAN converter	Rs. 2.0 Lakhs	Completed
10	1. Mr. L. Nageswara Rao 2. Prof. CH VRS Gopala Krishna	DST – NewGen IEDC	2022-23	Design and Development of C-Band Troposcatter Antenna Feed	Rs. 2.0 Lakhs	Completed
11	Dr. S. Praveen Chakkravarthy	DST – NewGen IEDC	2022-23	IoT Based Smart Display board	Rs. 1.96 Lakhs	Completed
12	Dr. T. Swapna	DST – NewGen IEDC	2022-23	An automatic Smart Access Control and Vehicle tracking system with web application using vehicle license plate recognition	Rs. 1.8 Lakhs	Completed
13	1. Dr. M. Lakshmiswarupa 2. Ms. G. Vijaya Nirmala	DST – NewGen IEDC	2021-22	Electric Vehicle Battery Management System	Rs. 1.42 Lakhs	Completed
14	1. Mr. P. Vinod Kumar 2. Ms. P. Hemasree	DST – NewGen IEDC	2021-22	Electric Vehicle Motor Drive Controller	Rs. 1.77 Lakhs	Completed
15	Dr. Humaira Nishat	DST – NewGen IEDC	2021-22	Smart Parking System	Rs. 0.57 Lakhs	Completed

16	Dr. S. Praveen Chakravarthy	DST – NewGen IEDC	2021-22	Smart Precision Interface for Conventional Agricultural Methods	Rs. 1.99 Lakhs	Completed
17	1. Ms. Prameela Devi 2. Mr. G. Venkateswarlu	DST – NewGen IEDC	2021-22	IoT Workbench conveyer and Industrial PLC for Automanual Inspection and Production Counting System	Rs. 1.99 Lakhs	Completed
18	1. Prof. CH VRS Gopala Krishna 2. Mr. L. Nageswara Rao	DST – NewGen IEDC	2021-22	Millimeter- Wave Horn Antenna	Rs. 1.99 Lakhs	Completed
19	Dr. S. Praveen Chakravarthy	DST – NewGen IEDC	2021-22	Solar powered IoT Weather Station with Rain Gauge	Rs. 2.0 Lakhs	Completed
20	1. Ms. R. Prameela devi 2. Ms. T. Padmavathi	DST – NewGen IEDC	2021-22	LuX Based curtain open/close control system	Rs. 1.99 Lakhs	Completed
21	Mr. L. Nageswara Rao	DST – NewGen IEDC	2021-22	Design & development of X-Band septum polarizer	Rs. 1.90 Lakhs	Completed
22	Prof. CH VRS Gopala Krishna	DST – NewGen IEDC	2021-22	RADAR Cut off and 5G Cut off Filters	Rs. 1.90 Lakhs	Completed
23	Prof. CHVRS Gopala Krishna	DST-NewGen IEDC	2021	X-Band Feed for Doubly Curved Reflector	Rs. 2 Lakhs	Completed
24	Dr. K. Lalithendra	DST-NewGen IEDC	2021	C-Band Wave Guide Switch	Rs. 1.95 Lakhs	Completed
25	Mr. L. Nageswara Rao	DST-NewGen IEDC	2021	C-Band Rotary Joint	Rs. 1.78 Lakhs	Completed
26	Mrs. P. Hema Sree	DST – NewGen IEDC	2020	Hands free attendance monitoring using face detection	Rs. 1 Lakhs	Completed
27	Dr. Gaurav Sharma	DST – NewGen IEDC	2020	IoT based saline bottle Monitoring System for hospitals	Rs. 2.5 Lakhs	Completed
28	Dr. P. Subrahmanyam	DST – NewGen IEDC	2020	Agriculture drone for Pesticide spraying	Rs. 1 Lakh	Completed
29	Dr. Praveen Chakravarthy	DST – NewGen IEDC	2020	Smart electric metering in fracture	Rs. 2.5 Lakhs	Completed
30	Mr. Shakeel Ahmed	DST-NewGen IEDC	2019	Remote Control of Agricultural pumps	Rs. 25,000	Completed

31	Dr. I. Raghu	DST – NewGen IEDC	2019	Smart aqua – culture System	Rs. 1.25 Lakhs	Completed
32	Dr. Subrahmanyam	DST – NewGen IEDC	2019	Medium range payload copter	RS. 2 Lakhs	Completed
Sub Total					51.92 Lakhs	

Other Grants (FDPs/Tools/Modrobs)

S. No.	Name of the Coordinator	Funding Agency	Academi c Year	Project Title	Amount	Status
1	Dr. T. Esther Rani	AICTE	2021-22	Grant for Organizing Conference	Rs. 50,000	Completed
2	Dr. Humaira Nishat	Equity Action Plan TEQIP-III, JNTUH	2019-20	Faculty Development programme on “Wireless Sensors Network and Internet of Things”	Rs. 79,765	Completed
3	Dr. T. Esther Rani	AICTE	2017-18	Hands on Embedded System Design using Arduino	Rs. 1 Lakh	Completed
4	Dr. KS Nayanathara	AICTE - ISTE	2017-18	Recent Advances in Radar Systems for Special Applications	Rs.3 Lakhs	Completed
5	Prof. S Sengupta	AICTE	2013-14	Industry Institute Partnership Cell (IIPC)	Rs. 12 Lakhs	Completed
6	Prof. Nayanathara KS	AICTE	2013-14	MODROBS	Rs. 10.8 Lakhs	Completed
7	Dr. T. Esther Rani	SCL	2017-18	PDK under SMDP _C2SD Project (under non-disclosure agreement)	Tools worth 1 Crore	Ongoing
8	Dr. S. Praveen Chakkravarthy	Intel Corporation	2017-18 to 2020-21	Building IoT and cloud platform for smart agricultural practice	Software Tools Worth 54 Lakhs	Ongoing
Sub Total					28.09 Lakhs	

Consultancy Projects

S. No.	Name of the Coordinator	Funding Agency	Year of sanction	Project Title	Amount	Period
1	1. Prof. CHVRS Gopala Krishna 2. Dr .L. Nageswara Rao	COMSAT Systems Pvt. Ltd.	2025-26	Design, Development and Prototype Manufacturing of Ka- Band Feed System (CP)	Rs. 3.0 Lakhs	Ongoing
2	1. Prof. CHVRS Gopala Krishna 2. Dr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2024-25	RF Simulation, Development and Fabrication of TE ₂₁ Tracking coupler of Ku - Band Cassegrain Feed System	Rs. 6.5 Lakhs	Completed
3	1. Prof. CHVRS Gopala Krishna 2. Dr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2024-25	Design and Development of (a) Cut Parabola Reflector Antenna for S-Band & (b) 7.5M Φ Sub Reflector for Ku-Band.	Rs. 1.04 Lakhs	Completed
4	1. Prof. CHVRS Gopala Krishna 2. Dr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2024-25	Design of Ka-Band Septum Polarizer	Rs. 1.0 Lakh	Ongoing
5	1. Prof. CHVRS Gopala Krishna 2. Dr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2023-24	Design of shaped reflector for 9.3 M dia antenna	Rs. 3.75 Lakhs	Completed
6	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2023-24	Design and manufacture of C Band 4 port combiner	Rs. 7.62 Lakhs	Ongoing
7	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2022-23	Design & Development of C-Band 4 port combiner	Rs. 5.2 Lakhs	Completed
8	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd.	2022-23	Design & Development of Ku-Band 4 port combiner	Rs. 2.3 Lakhs	Ongoing
9	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd., Oct. 2021	2021-22	Design & Simulation of TRF, RRF, RCF & 5GCF Filters	Rs. 1.20 Lakhs	Completed
10	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd., Feb. 2020	2019-20& 2020-21	Design & Development of Precision Microwave Components	Rs. 1.28 Lakhs	Completed
11	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd., Aug. 2019	2019-20	Design and Manufacture of feed components	Rs. 4.60 Lakhs	Completed

12	1. Prof. CHVRS Gopala Krishna 2. Mr.L.Nageswara Rao	COMSAT Systems Pvt. Ltd., July. 2018	2018-19	Design & Development of 13.5 M Dia Dual Band Antenna	Rs. 3.88 Lakhs	Completed
13	Dr. T. Esther Rani	ECIL	2016-17	Implementation of DSP algorithms in FPGA and ARM controller card for nuclear pulse processing Applications	Rs. 6.6 Lakhs	Completed
14	Prof. S Sengupta	DRDO	2012-13	Data Acquisition System (DAS) Software	Rs. 8.7 Lakhs	Completed
15	Prof. S Sengupta	DRDO	2012-13	Development of orthogonal Frequency Division multiplexing (OFDM)	Rs. 9 Lakhs	Completed
16	Prof. S Sengupta	DRDO	2012-13	Data Acquisition System (DAS) Hardware	Rs. 8.8 Lakhs	Completed
Consultancy Received					RS 68.83 Lakhs	