



## VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade  
NBA Accreditation for B.Tech. CE,EEE,ME,ECE,CSE,EIE,IT,AME, M.Tech. STRE, PE, AMS, SWE Programmes  
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF (2022) 113 Rank in Engineering Category  
College with Potential for Excellence by UGC, JNTUH-Recognized Research Centres:CE,EEE,ME,ECE,CSE  
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O.), Hyderabad – 500 090, TS, India.  
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### Department of Electronics and Communication Engineering

Completed and Sanctioned Funded Projects (2012-13 to 2021-22) – Total Amount Sanctioned -- Rs. 417.54 Lakhs

S.No	Year	No. of Projects	Sanctioned Amount (Rs. In Lakhs)
1.	2021-22	03	61.28
2.	2020-21	04	28.96
3.	2018-19	04	115.40
4.	2017-18	03	23.65
5.	2016-17	01	4.40
6.	2015-16	02	27.49
7.	2014-15	05	29.75
8.	2013-14	07	75.20
9.	2012-13	07	51.41
<b>Total</b>		<b>36</b>	<b>417.54</b>



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### Department of Electronics and Communication Engineering

#### Sanctioned/Completed Funded Research & Development Projects (2021- 22) - Total Amount sanctioned -- Rs. 61.28 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1	Design and Development of Night Vision Imaging LIDAR and Laser-3D Imaging System for Homeland security and other Surveillance applications in Defense	ER & IPR, DRDO	Dr.Y.Chalapathi Rao	31/08/2021	51.28	3 years	On going
2	Testing and Design Validation of IoT products used in the smart home automation projects	Blaze Automation Services Pvt. Ltd.	Mrs. G. Sahitya	09/09/2021	6.00	1 Year	On going
3	Design and Development of Knowledge based expert system to assist farmers for maintenance of Agricultural field using aerial data acquisition	TSCOST-DST	Dr. Lam. Padma Sree Mrs. N. Dhanalakshmi	22/03/2022	4.00	1 Year	On going



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#### Sanctioned/Completed Funded Research & Development Projects (2020- 21) - Total Amount sanctioned -- Rs. 28.96 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1	Design and Development of Prototype for Secure Weapon Shooting Information System	ARDE, DRDO	Mr. V.Naveen Kumar	07/07/2020	9.96	1 Year 6 months	Completed
2	Swaasa AI platform – revolutionary approach to respiratory healthcare	Center for Cellular and Molecular Platforms (C-CAMP), Bengaluru	Mr. SVN Narayana Rao Dr. Y. Padma Sai	20/08/2020	7.00	6 months	Completed
3	Frequency band analysis of acoustic signals for health care	Salcit Technologies Pvt. Ltd.	Dr. Y. Padma Sai Mr. V.Naveen Kumar	01/04/2021	10.00	1 Year	On going
4	Design an FFT/IFFT IP-core with run-time configurable FFT size and data type and compile time configurable data type and data precision.	MMRFIC Technologies Pvt. Ltd.	Dr. Y.Padma Sai Mr. K. Naresh Mr.V.Sagar Reddy	15/04/2021	2.00	6 months	On going



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Sanctioned/Completed Funded Research & Development Projects (2018-19) - Total Amount sanctioned -- 115.40 Rs. Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1	Advanced Embedded Systems and IoT Laboratory	MODROB/AICTE	Dr. Y. Padma Sai	26/03/2019	15.00	3 Years	On going
2	Self-Learning Prosthetic Hand based on voice commands	BIRAC – Biotechnology Ignition Grant(BIG) Scheme	Mr.SVN Narayana Rao, Dr.Y.Padma Sai, Mr. N.Mano Satya Sai	19/02/2019	44.80	1 Year 6 Months	Completed
3	Developing a VR tour for Warangal Heritage sites	HRIDAY	Dr.C.D.Naidu, Mr. D. Ramesh Reddy	29/12/2018	10.00	1 Year	Completed
4	Digital Health Advisory System for Chronic Respiratory Diseases	BIRAC – Biotechnology Ignition Grant(BIG) Scheme	Mr.SVN Narayana Rao, Dr.Y.Padma Sai, Mr.V.Naveenkumar	20/12/2018	45.60	1 Year 6 Months	Completed



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#### Sanctioned/Completed Funded Research & Development Projects (2017-18) - Total Amount sanctioned -- Rs.23.65 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1	Cough and Wheeze analyzer for Respiratory Digital Health Services	Biotechnology Industry Research Assistance Council (BIRAC – Soch)	Mr.SVN Narayana Rao, Dr.Y.Padma Sai, Mr.V.Naveenkumar	19/03/2018	15.00	6 months	Completed
2	Digital Health Advisory System for Chronic Respiratory Diseases	IISc - MSME Center of Excellence	Mr.SVN Narayana Rao, Dr.Y.Padma Sai, Mr.V.Naveenkumar	29/01/2018	6.75	1 Year	Completed
3	Semi-Automatic Prosthetic Hand	IISc - MSME Center of Excellence	Mr.SVN Narayana Rao, Dr.Y.Padma Sai	12/06/2017	1.90	1 Year	Completed



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Sanctioned/Completed Funded Research & Development Projects (2016-17) - Total Amount sanctioned -- Rs.4.40 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1	Development and Implementation of Automized System for the detection of Sleep Disorders using EEG Analysis	UGC Minor	Mr. Vijaya Kumar Gurrala	26/03/2017	4.40	2 Years	Completed



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#### Sanctioned/Completed Funded Research & Development Projects (2015-16) - Total Amount Sanctioned -- Rs.27.49 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1	Development of low power and high speed FPGA based IP core mini Ace architecture compatible to data device corporation	AICTE/RPS	Dr.C.D.Naidu Mr. P.Kishore	14/08/2015	14.35	3 Years	Completed
2	Student Design and Experiential Learning center	AICTE/PCTE	Dr.C.D.Naidu	14/01/2016	13.14	3 Years	Completed



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#### Sanctioned/Completed Funded Research & Development Projects (2014-15) - Total Amount Sanctioned – Rs. 29.75 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	Sanctioned amount Rs. (in lakh)	Duration	Status
1.	Weapon Locking & Tracking System (WLTS)	ARDE, DRDO	Mr. V.Naveen Kumar	15/07/2014	9.90	1.2 Years	Completed
2.	Development & Implementation of Algorithm Real Time Home Automation System to ASSI ED Patients Eye Blinking	UGC minor	Dr. L. Padma Sree	16/08/2014	3.00	2 Years	Completed
3.	Prototyping of Wireless Network System on Agricultural Applications using Zigbee	UGC minor	Mrs. G.Sahitya	16/08/2014	3.25	2 Years	Completed
4.	Trends in wireless communication Technology and Evolution of simulation tools	AICTE/FDP	Dr.L.PadmaSree Mrs.K.B.Archan a	18/11/2014	5.80	1 Year	Completed
5.	ROI Booster	Mira Consulting Inc Sdn Bhd, Kuala Lumpur	Mr.S.V.N. Narayana Rao	16/03/2015	7.80	1 Year	Completed





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#### Sanctioned/Completed Funded Research & Development Projects (2013-14) -Total Amount Sanctioned – Rs.75.20 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	amount Rs. (in lakhs)	Duration	Status
1.	Development of effective Wireless sensor Network System for Water quality and quantity monitoring (AquaSense) (in Collaboration with HCU & IIITH)	ITRA	Dr. C. D. Naidu Dr. Rajendra Prasad Mr. Ramesh Reddy	20/09/2013	33.00	3 Years	Completed
2.	Virtual Assistant for Mobile Devices using Voice and Gesture Technologies (in Collaboration with IIITH)	ITRA	Dr. Y. Padma Sai Mr. V. Naveen kumar	20/09/2013	18.14	3 Years	Completed
3.	IP Core Development of MIL STD 1553 for RT and MT terminals	Ananth Technologies	Dr. Y. Padma Sai Dr. L. Padmasree Mr. P. Kishore Mr. K. Sarath Mr. Vijaya kumar Mr. V. Sagar Reddy Ms. Swetha	07/10/2013	4.24	1 Year	Completed
4.	Statistical Signal Processing (National Mission project on Pedagogy -Main Phase) in Collaboration with IIITH	IIT KGP	Dr. Y. Padma Sai	06/01/2014	7.00	2 Years	Completed
5.	Basic Electronics (National Mission project on Pedagogy -Main Phase) in Collaboration with IIITH	IIT KGP	Dr. L. Padma Sree	06/01/2014	7.00	2 Years	Completed
6.	Fund for improvement of S&T infrastructure	DST	Dr. C. D. Naidu Dr. Y. Padma Sai Mr. S. K. Sharif	27/09/2013	4.70	5 Years	Completed
7.	Travel Grant (2013 Int. Telemetry Conf. (ITC) held in Nevada (USA) from 21-10-2013 to 24-10-2013)	DST (SERB)	Dr. Y. Padma Sai	16/09/2013	1.12	1 Year	Completed



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#### Sanctioned/Completed Funded Research & Development Projects (2012-13)-Total Amount Sanctioned – Rs. 51.41 Lakhs

S.No	Project title	Funding Agency	Principal Investigator	MOU date	amount Rs. (in lakh)	Duration	Status
1.	Design and Development of System for ECG waveform characterization and processing	AICTE/RPS	Dr. Y.PadmaSai Mrs.L.V.RajaniKumari	14/02/2013	8.25	3 Years	Completed
2.	Advanced Digital Signal Processing and Processors Lab	AICTE / MODROBS	Dr. Y.PadmaSai	27/02/2013	9.00	1 year	Completed
3.	VLSI Design during 20th May-1st June 013	AICTE/ FDP	Dr. Y.PadmaSai. Dr.L.Padma Sree	12/12/2012	4.91	1 year	Completed
4.	Real Time Embedded System Development	AICTE/ FDP	Dr. Y.PadmaSai Dr. V.Padmaja	20/02/2013	4.80	3 years	Completed
5.	Upgradation of VLSI and ECAD Lab	AICTE/ MODOROBs	Dr.N.Balaji Dr. Y.PadmaSai	27/02/2013	9.45	2 Years	Completed
6.	Upgradation of Microprocessors and Microcontrollers Laboratory	AICTE/ MODOROBs	Dr. V.Padmaja Dr.P.Shrihari	06/03/2012	5.00	1 Year	Completed
7.	Industry Institute Partnership Cell	AICTE/ IIPC	Dr.N.Balaji	31/03/2011	10.00	2 Years	Completed