Name: **Dr. Y Chalapathi Rao** Designation: Associate Professor

Department: E.C.E

Mail.I.D: <a href="mailto:chalu.8421@gmail.com">chalu.8421@gmail.com</a>, <a href="mailto:chalu.8421@gmail.com">chalu.8421@gmail.com</a>, <a href="mailto:chalu.8421@gmail.com">chalapathirao\_y@vnrvjiet.in</a>

Experience (in years): Teaching: 18 years Research:12

AICTE Id: 1-4574030316 Date of Birth: 20-01-1984 Others (If any, Specify):

## 1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D.	February	ECE-Wireless Sensor
		2018	Networks
2	M.Tech.	2009	ECE -VLSI Design
3	B.Tech.	2005	ECE

### 2. Teaching and Learning:

- 2.1. Teaching Interests: Probability Theory and Stochastic Processes, Signals and Systems, Digital Signal Processing, Linear IC Applications, Digital IC Applications, Pulse and Digital Circuits, Electronic Devices and Circuits, Control Systems, Network Analysis, STLD, Digital Logic Design, Digital System Design, Basic Electronics, Wireless Communication and Networks and VLSI.
- 2.2. Novel Teaching & Learning Techniques adopted: WIT& WIL; POGIL, Project Based Learning.
- 2.3. Involvement in curriculum updating / Design: Yes

### 3. Co-curricular and Extra-Curricular Activities

- 3.1. Interests and Hobbies: Playing all Sports and Games, Watching Movies.
- 3.2. CCA/ECA Organized:
  - TRINITY 2010 National level Technical Fest
  - TECHWINGS 2012 National level Technical Fest
  - ASCARYA 2015 Technical Fest
  - GNAAN 2018 National level Technical Fest
- 3.3. CCA/ECA participated: Actively involved in Convergence, Annual day, Cultural day and Sports day.
- 3.4. Counseling and Mentoring Activity: Actively involving
- 3.5. Committees involved in:

### Department level:

- As a NBA Coordinator, Department of ECE, VNR VJIET, 2018-19.
- Department Academic Coordinator (Curriculum design for B. Tech-ECE R18, R19 and R22 regulations from 2018 to till date)
- BOS Member, DAC, Department of ECE, VNR VJIET from 2019 to till date.
- As a IQAC and AQAR Coordinator, Department of ECE, VNR VJIET, 2018-20.
- BOS Member (3 Years, 2014-17) and Project-Coordinator at Anurag Engineering College.
- As a NBA Coordinator, Department of ECE, Anurag Engineering College, Kodad.
- As a NAAC Coordinator, Department of ECE, Anurag Engineering College, Kodad.

#### Institute Level:

• Sports Committee; R&D Coordinator



- As a Head of the department in ECE, KLR College of Engineering & Technology, Paloncha. (Nov. 2008-Dec. 2011).
- As a Head of the department in ECE, Bhimavaram Institute of Engineering & Technology, Bhimavaram. (Dec. 2011-June 2014).
- As a Head of the department in ECE, Guntur Engineering College, Yanamadala, Guntur. (July 2017-April 2018).

## **4.**Conference / Workshop / Seminar / Guest Lectures:

4.1. Conducted: 8 4.2. Attended: 27

Conducted/Organized at VNR VJIET

S.No	Name of the Course / Summer School	Place	Duration	Sponsoring
				Agency
1	International Conference on Recent	VNRVJIET,	28/12/2022 to	IEEE
	Trends in Microelectronics, Automation,	Hyderabad	30/12/2022	
	Computing and Communication Systems			
	IEEE-ICMACC-2022 (As a Organizing			
	Committee Member)			
2	ATAL Online Faculty Development	VNRVJIET,	09/08/2021 to	AICTE
	Programme on "Challenges in adapting	Hyderabad	13/08/2021	
	Machine Learning towards 5G/6G			
	Communications"			
3	FDP on "Sensor Network and IoT"	VNRVJIET and	26/08/2019 to	Electronics & ICT
		NIT Warangal	31/08/2019	Academies, MeltY
4	FDP on "Embedded Systems & Interfacing	VNRVJIET and	10/06/2019 to	Electronics & ICT
	Hand-on"	NIT Patna	14/06/2019	Academies, MeltY
5	Open House 2019 Faculty Coordinator	VNRVJIET,	8-9 March	VNRVJIET IEEE
		Hyderabad	2019	

### **Attended from VNRVJIET**

S.No.	Name of the Course / Summer School	Place	Duration	Sponsoring
				Agency
1	FDP on "Embedded Systems & Interfacing Hand-	NIT Patna	One-week	Electronics & ICT
	on". From 10th to 14th June 2019			Academies, MeltY
2	FDP on "Wireless and Mobile Communication".	NIT Warangal	One-week	Electronics & ICT
	From 1st to 6th July 2019			Academies, MeltY
3	FDP on "VLSI Chip Design Hands-on using open-	IIT Guwahati, NIT	One-week	Electronics & ICT
	source EDA". From 8th to 12th July 2019	Patna		Academies, MeltY
4	FDP on "Python Programming with Industry	MNIT Jaipuri, NIT	One-week	Electronics & ICT
	Perspective". From 2nd to 6th December 2019	Patna		Academies, MeltY
5	FDP on "Deep Learning and Applications". From	NIT Warangal, MNIT	One-week	Electronics & ICT
	9th to 13th December 2019	Jaipuri, NIT Patna		Academies, MeltY
6	Seventh International Conference on	Anurag Group of	Four Days	ICTIEE-2020
	Transformations in Engineering Education	Institutions,		

	(ICTIEE-2020) from 5th to 8th January 2020.	Hyderabad		
7	FDP on "Artificial Intelligence " from 11-05-2020 to 15-05-2020	MSME Technology Development Centre (PPDC), Meerut.	Five Days	AICTE-ATAL
8	FDP on "Research Paper & Project Proposal Writing" under IEEE Student Branch held on 15- May to 16-May, 2020	Sree Vidhya Niketan Engineering College, Titupathi	Two Days	IEEE
9	FDP on Tools for Online Classroom Post Covid-19 from 18 to 20 May 2020	P.V.P. Siddhartha Institute of Tech., Vijayawada	Thee days	Codegnan IT Sol.
10	FDP on Introduction to Data Science from 18 to 22 May 2020	GEC, Guntur	Five Days	Codegnan IT Sol.
11	FDP on "Modern Research Trends in Communication, Signal Processing and VLSI/MEMS", organized by the Department of Electronics and Communication Engineering, from 19th to 23rd May 2020.	ALIET, Vijayawada	Five Days	AICTE-ATAL
12	Faculty development programme on "Machine learning for Signal Processing and VLSI" during 05-06-20 to 08-06-20	Anurag Group of Institutions, Hyderabad	Four days	AICTE-ATAL
13	One-week online Workshop on Effective online Teaching using ICT Tools From 29 June to 4th July 2020	VNR VJIET, Hyderabad	One Week	VNR VJIET
14	FDP on "Data Science and Analytics" from 2020- 07-07 to 2020-07-11	Anurag Group of Institutions, Hyderabad	Five Days	AICTE-ATAL
15	Two-week Online Faculty Development Programme on "Wireless Communication Technologies for IoT" jointly organized by Electronics and ICT Academies held from 27 July to 07 Aug, 2020	IIT Guwahati	Two Week	Electronics & ICT Academies, MeltY
16	Two-week Online Faculty Development Programme on "Demystifying 5G RF ASICs" jointly organized by Electronicsand ICT Academies held from 24 August to 04 September, 2020	IIT Guwahati	Two Week	Electronics & ICT Academies, MeltY
17	Training Programme on Digital tools for Writing, Authoring & Reviewing Manuscripts jointly organized during 21st September and 2nd October 2020	MNIT Jaipur, NIT Patna & IIT Guwahati	Two Week	Electronics & ICT Academies, MeltY
18	One week workshop on Mathematics for Data Science from 26 to 31 October 2020	VNR VJIET	One Week	IEEE VNR VJIET

19	FDP on " Internet of Things (IoT)" from 2020-12-	Anurag Group of	Five Days	AICTE-ATAL
	15 to 2020-12-19	Institutions,		
		Hyderabad		
20	IEEE SPS summer school IoT for Bio-medical and	VNR VJIET	Four Days	IEEE SPS
	Healthcare Applications From 28 to31 December	Hyderabad		
	2020			
21	Machine Learning Master Class From 19 to 23	Pantech Solutions	Five Days	Pantech Solutions
	April 2021			
22	FDP on "Role of Mathematics in Future	Stanley College of	Five Days	AICTE-ATAL
	Technologies" from 2021-07-12 to 2021-07-16	Engineering and		
		Technology for		
		Women, Hyderabad		
23	FDP on "Facylty Development Program on	University Institute	Five Days	AICTE-ATAL
	Sensor Technology" from 06/09/2021 to	of Engg. & Tech.,		
	10/09/2021	Kurukshetra		
		University,		
		Kurukshetra		
24	Recent Advances in AI for Signal Processing from	VNR VJIET	Four days	IEEE SPS
	28 to 31 December 2021			
25	10th International Conference on Contemporary	Chennai	Two Days	OSIET
	Engineering and Technology, 21st and 22nd May			
	2022			
26	6th International Conference on Electronics,	IEEE, Kolkata	Three Days	IEEE
	Materials Engineering & Nano Technology, 2-4			
	December, 2022			

# 5.Academic Contribution and Research & Consultancy:

- 5.1. Invited Lectures: 6
- 5.2. Articles/Chapters published in Books: 02
- 5.3. Books published as an author or as editor: 01
- 5.4. Projects Guided:
  - a) UG: 19 b) PG: 11
- 5.5. Research Interests: VLSI, Wireless Sensor Networks, Wireless Communications, and Embedded Systems
- 5.6. Ph.D students:
  - a) Enrolled: 01 (Full-Time PhD)
  - b) Submitted:
  - c) Awarded:01 (30<sup>th</sup> August 2021)

Evidence of actively involved in guiding of Ph.D. Scholars.					
S. No	Name of the Student/Scholar	Hall Ticket No.	Name of the University		
1	G. Jagga Rao	24917047 (PhD Awarded)	JJTU, Rajasthan		

5.7. Papers published in reviewed Journals: 38

S.No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	ECG beat classification using proposed pattern adaptive wavelet-based hybrid classifiers.	Signal, Image and Video Processing, Volume 17, Issue 3, 2023	1863-1711	Scopus/WoS	International
2	Recognition of Intent Using Light Detection and Ranging	Journal of Pharmaceutical Negative Results Volume13 Special Issue 3 2022	2229-7723	Scopus	International
3	Design of Optimized SRAM with Scaled Technology	Design Engineering, Issue: 9   2022, Pages: 5198 - 5209	0011-9342	Scopus	International
4	Milli meter Wave MIMO- OFDMA Scheme with MMSE-based VEMF in 6G Wireless Technology	Turkish Journal of Computer and Mathematics Education. Vol.12 No.3(2021)	4701-4707	Scopus	International
5	A Machine Learning Approach to Monitor Water Quality in Aquaculture	International Journal of Performability Engineering, December 2020, Volume 16(12): pg. 1845-1852.	0973-1318	Scopus 0.6	International
6	NPSF Testing and Diagnosis of SRAM using March-96N Algorithm	IJIEMR Transactions, Vol 10 Issue02, Pages: 9-17, Feb 2021	2456 – 5083	3.8	International
7	Real-Time Vehicle	JETIR January 2021, Volume 8,	2349-5162	5.87	International

	Tracking and	Issue 1			
	Alerting System				
	A Study of	Journal of Xidian	1001-2400	5.4	International
	Future Wireless	University,			
8	Communication:	VOLUME 14,			
	6G Technology	ISSUE 11, 2020			
	Era				
	Design Of High-	Journal of	2454 -7190	2.82	International
	Performance	Mechanics of			
	Adder Using	Continua and			
9	Modified Gdi	Mathematical			
	Based Full	Sciences, Vol15, No8, August			
	Adder	(2020)			
	Detection for	International	2005-4238	Scopus	International
	6g-Noma Based	Journal of			
	Machine	Advanced Science			
	Learning	and Technology			
10	Optimization for	Vol. 29, No. 3s,			
	Successive	(2020), pp. 1803-			
	Adaptive	1812			
	Matching				
	Pursuit Analysis				
	Generation Of	Aut Aut Research	0005-0601	5.2	International
	Electricity	Journal			
11	Using	Volume XI, Issue			
	Piezoelectric	V, May/2020			
	Tyre				
	Automation Of	Alochana Chakra	2231-3990	6.3	International
	Industrial	Journal			
12	Parameters	Volume IX, Issue			
	Using IoT with	IV, April/2020			
	Raspberry Pi				
	Machine	Test Engineering	0193-4120	Scopus	International
	learning based	and Management,			
	copy move	81, Page No. 6401			
13	forgery	- 6406, Dec,2019			
13	detection with				
	forensic				
	psychology				
	ultra-HD images				
	A Novel	The International	0886-9367	6.3	International
14	Approach for	journal of			
	High Secured	analytical and			

	Image	experimental			
	Transmission in	modal analysis			
	6G via MIMO-	Volume 9-Issue			
	OFDMA	10, pp. 1481-			
	process in	1492, Oct 2019			
	NCHAOS	,			
	Encryption				
	Algorithm				
	Artificial	International	2236-6124	5.7	International
	Intelligence &	Journal of			
	Machine	Research Volume			
	Learning Based	8-Issue 5, pp.			
	Wireless	3740-3755,			
15	MIMO-OFDM	May2019			
	Communication	1 <b>via</b> y2019			
	system in				
	JAG6G				
	Analysis				
	Low power and	International	2249-8958	5.97	International
	high-speed	Journal of	2249-0930	(Scopus)	International
	synchronous			(Scopus)	
		Engineering and Advanced			
16	carry generate				
	adder using	Technology			
	modified gate	(IJEAT) Volume-			
	diffusion input	8, Issue-2S2,			
	technique	January 2019	2277 2070	<b>5</b> 11	T 1
	Riverbed modeler	International Journal of Recent	2277-3878	5.11	International
	simulation-	Technology and			
	based	Engineering			
17	performance	(IJRTE), Volume-			
1 /	analysis of	7, Issue-6S,			
	routing	March 2019			
	protocols in mobile Ad hoc				
	networks				
	Robust bit	International	2278-3075	5.15	International
	error rate	Journal of			
	optimization	Innovative			
18	for MASSIVE	Technology and			
	MIMICEM	Exploring			
	system using channel coding	Engineering (IJITEE),			
	method	Volume-8 Issue-			
		4S2 March, 2019			
19	Performance	International	2278-3075	5.15	International
	comparison for	Journal of			

	rinnle comm	Innovative			
	ripple carry	Technology and			
	adder using various logic				
	design	Exploring Engineering			
	uesigii	(IJITEE),			
		Volume-8 Issue-			
		4S2 March, 2019			
	An Efficient	International	2236-6124	5.7	International
		Journal of	2230-0124	5.7	International
	Test Data	Research, Volume			
	Compression	7-Issue 11, 2018			
20	Scheme Using	pp. 2107-3112.			
20	Optimal	pp. 2107-3112.			
	Selective				
	Huffman				
	Coding				
	Robust	International	2456-3307	4.03	International
	Analysis of	Journal of			
	Minimizing	Scientific			
	PAPR	Research in			
	Reduction by	Computer			
21	Using Low	Science,			
	Density	Engineering and			
	Symbol Check	Information			
		Technology			
		IJSRCSEIT			
		Volume3, Issue5			
	Cluster-based	Asian Journal of	0976-3376	6.946	International
	Energy	Science and			
	Efficiency	Technology, Vol.			
22	Protocols for	08, Issue, 07, July			
	Wireless Sensor	2017, pp.5144-			
	Networks	5150			
	DDCD	Indian Journal of	0974-5645	H index-22,	International
	Algorithm based	Science and	ijst/2016/v9i29	SJR-0.27	
	Energy Efficient	Technology,	/85515		
23	Clustering for	Volume 9(29),			
23	WSNs	August 2016, pp.			
	WSINS	1-7			
	Position Energy	JASC: Journal of	1076-5131	4.6	International
	Spectral	Applied Science			
24	Clustering	and Computations			
	Algorithm based				
	WSNs				
		mer rolanist	2202 4045	TT 1 44	T
25	Energy Efficient	TELKOMNIKA	2302-4046	H index-11,	International
1	Clustering for	Indonesian		SJR-0.25	

	Wireless Sensor	Journal of			
	Networks using	Electrical			
	EASSR	Engineering Vol.			
	LASSK	15, No. 3,			
		September 2015,			
		pp. 554 ~ 568			
	Energy	IJITEE, Vol. 5(2),	2278-3075	3.48	International
	Efficiency and	July 2015, pp. 15-	2270 3073	3.10	International
	Maximizing	20			
26	Network	20			
20	Lifetime for				
	WSNs using				
	ACO Algorithm				
	Performance	IJAER, Vol.10,	0973-4562	H index-9,	International
	Evaluation and	Issue.10, May		SJR-0.13	
	Optimization of	2015, pp. 27191-			
27	Wireless Sensor	27204			
	Networks using				
	Firefly				
	Algorithm				
	Performance	IASET-IJECE,	2278-9901	3.2029	International
	Evaluation of	Vol. 3, Issue 1,			
28	Cluster Tree	Jan 2014, pp. 17-			
20	Topology Based	33			
	Wireless Sensor				
	Networks	TA GETT LIEGE	2270 0001	2.2020	T
	WSNs Based on	IASET-IJECE,	2278-9901	3.2029	International
	Sugar Cane	Vol. 2, Issue 4,			
29	Industrial	Sep 2013, pp. 85-			
29	Monitoring &	94			
	Control Using Energy Efficient				
	Algorithm				
	WSN's based	IJCT, Vol. 10,	2277-3061	0.435	International
	Oil Well Health	Issue 1, July	2211-3001	0.733	memanonai
	Monitoring and	2013, pp. 1178-			
30	Control Using	1185			
	ARM9				
	Processor				
	Monitoring and	IJECCT, Vol.2,	2249-7838	1.2456	International
	Protection of Oil	Issue 5, Sep 2012,			
	and Gas	pp. 213-218			
31	Condition in				
	Industrial Using				
	Wireless Sensor				
	Networks				
	Rapid Spanning	IJIRD, Vol.1,	2278-0211	0.5	International
32	Tree and Cluster	Issue 4, July			
32	Head Routing in	2012, pp. 216-230			
1	WSN's Using a				

	Hybrid Routing Protocol				
33	Energy Efficient Aggregation Algorithm for Wireless Sensor Networks	IJSER, Vol.3, Issue 7, July 2012, pp. 1-7	2229-5518	1.4	International
34	Non-Locally Centralized Sparse Representation for Image Super- Resolution With Spatial Information Filtering	International Journal of Advances in Applied Science and Engineering (IJAEAS) Vol-1, Iss4, 99-104	2348-1811	0.6	International
35	GSM-GPRS Based Intelligent Wireless Mobile Health Monitoring System for Cardiac Patients	International Journal of Engineering Research & Technology (IJERT), Vol 2, Issue 10	2278-0181	1.02	International
36	A Novel Approach of Kalman Filtering Algorithm for Speech Enhancement	International Journal of Electronics & Communication Technology (Iject), Vol 4, Issue 3	2230-7109	3.871	International
37	A New Concept of Face Identification Based on Logical Features and Nonlinear Mappings	International Journal of Electronics & Communication Technology (Iject), Vol 4, Issue 3	2230-7109	3.871	International
38	A Novel Approach for Automated Number Plate Recognition	International Journal of Electronics & Communication Technology (Iject), Vol 4, Issue 3	2230-7109	3.871	International

5.8. Papers presented at National / International conferences: 21

5.8. Papers presented at National / International conferences: 21						
S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period		
1	APD-BASED LASER RANGE- GATING SYSTEM	7th IEEE International Conference on Trends in Electronics and Informatics (ICOEI-2023)	International	11-13, April 2023		
2	Vehicle Detection Using Panoramic 3D LiDAR	3rd International Conference on Management, Engineering and Social Science (ICMESS-2023)	International	6th April 2023		
3	FPGA based smart home automation device controller	6th International Conference on Electronics, Materials Engineering & Nano Technology (IEMETech-2022)	International	2-4, December 2022		
4	A deep learning approach lung segmentation and pneumonia detection from x-ray	International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems IEEE-ICMACC-2022	International	28–30 December 2022		
5	Recognition of Intent using Light Detection and Ranging	12th International Conference on Science and Innovative Engineering 2022	International	5th June 2022		
6	Smart Application Based Parking System using Internet of Things	10th International Conference on Contemporary Engineering and Technology 2022 (ICCET)	International	21st & 22nd May 2022		
7	Design and Development of a novel Accident Detection and Emergency Reporting System	10th International Conference on Contemporary Engineering and Technology 2022 (ICCET)	International	21st & 22nd May 2022		

		International Conference on		
	Implementation of Low	Advances in Science,		29th & 30th
8	Power SRAM using	Engineering and		December 2021
	CNTFET,	Technology, ICASET 2021	International	
	Real-Time Vehicle	1st International conference	International	23rd & 24th,
9	Tracking and Alerting	on "Internet of Things: The		December,
	System	Eco System for sustainable		2020
	5	growth" ICIoT-2020		461 1451
	Designing of Tg based	International Conference on	International	16th and 17th
10	novel 12T SRAM cell with reduced leakage power	Advances in Computing and Communication		December, 2019
10	reduced leakage power	Technologies (ICACCT),		2019
		CMT CET, Hyderabad.		
	Machine learning based	International Conference on	International	9th and 10th
	copy move forgery	Advances in Electronics		July, 2019
11	detection with forensic	and Communication		
	psychology ultra HD	Engineering (ICAECE-		
	images	2019)		
	Designing of Tg based	International Conference on	International	9th and 10th
10	novel 12T 5mm cell with	Advances in Electronics		July, 2019
12	reduced leakage power	and Communication		
		Engineering (ICAECE-		
	T 11:-1 1	2019)	International	11411
	Low power and high-speed	International Conference on	International	11th and 12th
	synchronous carry generate adder using modified gate	Advanced in signal processing, Power,		January,
13	diffusion input technique	Embedded, Soft computing,		2019
13	diffusion input technique	Communication and		2017
		Control systems		
		(ICSPECS-2019)		
	Riverbed modeler	International Conference on	International	11th and
	simulation-based	Advanced in signal		12th
	performance analysis of	processing, Power,		January,
14	routing protocols in mobile	Embedded, Soft computing,		2019
	Ad hoc networks	Communication and		
		Control systems		
		(ICSPECS-2019)		
	Robust bit error rate	International Conference on	International	11th and
	optimization for	Advanced in signal		12th
15	MASSIVE MIMICEM	processing, Power,		January,
	system using channel	Embedded, Soft computing,		2019
	coding method	Communication and		
		Control systems		
	Parformanaa aamnariaan	(ICSPECS-2019) International Conference on	International	11th and
16	Performance comparison for ripple carry adder using	Advanced in signal	пистнаиопаг	11th and 12th
	various logic design	processing, Power,		January,
	various logic uesign	Embedded, Soft computing,		2019
		Communication and		2019
		Control systems		
		(ICSPECS-2019)		
17	Performance Analysis of	IEEE 2nd International	International	19th &20th
17	1			

	Zigbee Wireless Sensor	Conference on Inventive		January, 2018
	Networks using Riverbed	Systems and Control		
	Simulation Modeler	(ICISC 2018)		
18	Minimize the power	IEEE 2nd International	International	7th & 8th
	consumption and extend	Conference on Intelligent		December 2017
10	the lifetime of WSNs using	Sustainable Systems (ICISS		
	Firefly algorithm	2017)		
	Network Calculus Based	National Conference on	National	24th and 25th
19	Performance evaluation of	Communications, Antennas		March, 2017
19	Cluster-Tree Wireless	and Signal Processing,		
	Sensor Networks	(NCCAS'17)		
	FFA routing algorithm to	IEEE 2nd International	International	27th and 28th
20	extend the lifetime and	Conference on Knowledge		March, 2015
20	efficiency of wireless	Collaboration in		
	sensor networks	Engineering (ICKCE'15)		
21	Efficient clustering and	IEEE Sponsored 2nd	International	19th and 20th
	Energy optimization	International Conference on		March, 2015
	Algorithm for WSNs: An	Innovations in Information		
	approach in environment	Embedded and		
	monitoring system	Communication Systems		
		(ICIIECS'15)		

5.9. Sponsored research Projects: 02

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Design and Development of Night Vision Imaging LIDAR and Laser 3-D Imaging System for Homeland Security and Other Surveillance applications in Defence	ER& IPR Scheme, DRDO	31-08-2021 to 31-08-2024	51,28,600/-	Ongoing
2	ATAL FDP on" Challenges in adapting Machine Learning towards 5G/6G Communications"	AICTE	9 <sup>th</sup> to 13 <sup>th</sup> August 2021	93,000/-	Completed

5.10 Patents: 05

S.No.	Title of invention	Patent File No. & Date of Filing	Status
1	IoT Based Smart Electrical Power Plug	2021105184 & 09- 08-2021	Granted Patent, Patent Number: 2021105184 Date of Certificate Issue: 30- 03-2022
2	Intelligent Wearable Brain Machine Interface To Assist Paralyzed People	202241011680 & 03-03-2022	Published Awaiting Request for Examination
3	AI and IoT Based Miniature Circuit Breaker	202241052573 23-09-2022	Published Awaiting Request for

			Examination
4	Security System for Women Safety and Real-Time Monitoring	202341018492 & 18-03-2023	Published on 31-03-2023.  Awaiting Request for Examination
5	Artificial Intelligence Based Analysis of Smart Agriculture System Using Embedded IoT	202341018956 & 21.03.2023	Published on 31-03-2023.  Awaiting Request for Examination

#### 6. Awards / Honors received:

- Received Best Teacher award from "Dr. Sarvepalli Radhakrishnan best teacher award-2021".
- Received Best Academician award from "IJIEMR-ELSEVIER SSRN Research awrds-2020".
- Received Three Silver medal from NPTEL courses for Analog Communications, Principles of Signals and Systems and Digital Circuits during the period 2018-2021.
- Editorial board member in SCIREA Journal of Electrical Engineering
- Editorial board member in Journal of VLSI Design and its Advancement from 2022
- Editorial board member in Journal of Advancement in Electronics Design from 2022
- Editorial board member in Journal of Advancement in Communication System from 2022
- Reviewer as an International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems IEEE ICMACC-2022
- Reviewer as an International Journal of Communication Systems
- Reviewer as an International Journal of IEEE ACCSESS
- Reviewer as an International Journal of Mathematics, Hindawai
- Awarded to Reviewed Three SCI indexed Journal papers in International Journal of Communication Systems in 2021
- Awarded to Reviewed Two SCI indexed Journal papers in International Journal of Communication Systems in 2020.
- Senior Member of IEEE.
- Life-time Member of the Institution of Engineers (India)
- Life-time Member of ISTE
- **7. Motto:** Commitment to work, adaptability, and goal-oriented person, problem-solving abilities, Comfortable with teamwork, good coordination, and persuasion skills.