Name: G. SUDHA		
Designation:	Associate Professor	
Qualification:	M.E., Ph.D. (Pursuing)	
Area of specialization:	WIRELESS SENSOR NETWORKS	
Experience: **(As on 30.11.2022)**	**Industrial Experience**	**Teaching Experience**
	8 Months	21 Years, 4 Months

Number of workshop / FDP attended:	**Workshops / Webinars**	**FDPs / STTPs**
	51	58

Publications:	**Conference**		**Journal**	
	National	**International**	**National**	**International**
	12	18	1	18

Professional Body Membership:	Indian Society for Technical education Life Member (LM 45276) Institution of Electronics and Telecommunication Engineers – Fellow Member (F-502123) IAENG - International Association of Engineers- (Member Number: 223548) IFERP - Institute for Engineers Research and Publication (PMIN40917536) IEEE - Institute of Electrical and Electronics Engineers - 98083355
Achievements:	**University Gold Medalist** in M.E. Applied Electronics **Achieved 100 % Results** (22 SUBJECTS) **DALE-CARNEGIE certification** for High Impact Teaching Skills **NPTEL MOTIVATED LEARNER** – For completing 10 courses in a span of 4 semesters – Dec 2019, Dec 2022 **NPTEL ENTHUSIASTS & NPTEL DISCIPLINE STAR** – Dec2020 **NPTEL BELIEVER & NPTEL EVANGELIST** – Dec 2021 **NPEL DOMAIN CERTIFICATION – DATA SCIENCE DOMAIN** – Dec 2021**, FACULTY DOMAIN (ADVANCED)** – Dec 2022 **NPTEL BELIEVER** – Apr 2022, Dec 2022 **NITTTR MENTORSHIP CERTIFICATION** – July 2021

Conferences Organized:	- Publication Chair for IC3IOT 2020 – 20th to 22nd Feb'2020 - Conference Co-Chair for IC^{3}IoT 2018 – IEEE sponsored International Conference on Communication, Computing and Internet of Things – 15th to 17th Feb'2018 - Convener for NCACCT'13 – National Conference on Advanced Communication and Computing Techniques – 18th & 19th Mar'2013
Responsibilities:	- Class coordinator for 2002-2006 Batch (UG), 2005-2009 Batch (UG – Academic Year 2007-08), 2006-2010 Batch (UG –2008-09) - Class coordinator for 2012-2014 Batch (PG), 2014-2016 Batch (PG), 2016-2018 Batch (PG) and 2018-2020 Batch (PG) - Project coordinator for 2000-2004 Batch (UG), 2002-2006 Batch (UG), 2012-2014 Batch (PG) - Mentor for ECE students (16 Students – from 2002 to till date) - Mentor for 2012-2014 Batch (PG) - Symposium Coordinator – ZREYASTVA 2008 - Department Student Achievements Coordinator from the year 2006 to till date - Exam Cell Coordinator (Internal Exams) from the year 2008 to till date - Served as ISO Internal Auditor – 6 times - Guided 26 UG Projects and 12 PG Projects

EDUCATIONAL QUALIFICATION:

Category	Name of the Degree	Specialization	Name of the Institution	Name of the University	Class Obtained
UG	B.E	ECE	Periyar Maniammai College of Technology for Women	Bharathidasan University	First Class
PG	M.E	Applied Electronics	Sathyabama University	Sathyabama University	First Class with Distinction and **GOLD MEDAL**
Ph.D.	Pursuing	Wireless Sensor Networks	B. S. Abdur Rahman Crescent University	B. S. Abdur Rahman Crescent University	--

EXPERIENCE – INDUSTRIAL & TEACHING:

Name of the Organization	Designation	From Date	To Date	Experience
Placka Technologies - Industry	Web Developer	01/12/2000	31/07/2001	**8 months**
Sri Sai Ram Engineering College	Associate Professor	05/07/2002	Till Date	**20 Years, 4 Months**

WORKSHOP / WEBINAR / FDP / STTP / CONFERENCE ATTENDED:

WORKSHOP / WEBINAR:

Sl. No.	Title of the Workshop / Webinar	Venue	Month / Year
1	VLSI Design & Embedded System Technologies	Sri Sai Ram Engg. College	26th to 28th July 2002
2	Effective Teaching	G. K. M. College of Engg. & Technology	12th Aug 2002
3	Fiber Optic Communication	Sri Sai Ram Engg. College	27th & 28th Nov 2003
4	Networks& Security	Sri Sai Ram Engg. College	22nd Sep 2006
5	MATLAB and its Applications	Sri Sai Ram Engg. College	26th to 29th July 2007
6	Telecommunication and Information Technology	Falcon Electro-Tek Pvt. Ltd., Hotel Benz, Kodambakkam	7th Dec 2007
7	Recent Trends in Wireless Information Network & Systems	Sri Sai Ram Engg. College	1st Feb 2008
8	Getting Started with MATLAB	Sri Sai Ram Engg. College	30th June to 3rd July 2008
9	Wireless Security	SSN College of Engineering	31st July and 1st Aug 2009
10	Mission 10X	Sri Sai Ram Engg. College (WIPRO Technologies)	2nd Nov'09 to 06th Nov 2009
11	Research Methodologies in Next Generation Wireless Networks Using OPNET	Sri Sai Ram Engg. College	19th to 21st Aug 2010

Sl. No.	Title of the Workshop / Webinar	Venue	Month / Year
12	Wireless Communication & Radiating Systems	Sri Sai Ram Engg. College	21st & 22nd March 2011
13	VLSI, MEMS & Integration	VIT (Chennai Campus)	9th & 10th Dec 2011
14	Recent Trends in Antennas for Multifield Applications	Sri Sai Ram Engg. College	27th & 28th Dec 2012
15	WBAN – Challenges and Enabling Technologies	College of Engineering, Guindy	22nd & 23rd Mar 2013
16	Springer Author Workshop	Anna University	2nd Nov 2015
17	MATLAB Interfacing with ARDUINO	Agni College of Technology	5th Mar 2016
18	National Instruments Technical Symposium	Radisson Blu, Chennai	8th Nov 2016
19	RTL Design and Functional Verification	Maven Silicon Softech Pvt, Ltd. (Webinar)	11th Oct 2017
20	MATLAB Integration with FPGA in Image Processing and Digital Communication	St. Joseph's Institute of Technology	8th to 10th Nov 2017
21	Industrial IoT	B.S.A Crescent Inst. of Science & Technology	6th to 7th April 2018
22	Rapid Prototyping IoT & Embedded System Design	Sri Sai Ram Engg. College	12th to 14th Nov 2018
23	Recent Trends in Image Analysis	Vel Tech Rangarajan Dr. Sagunthala R&D Inst. of Science and Technology	16th Nov 2018
24	FPGA Design Flow using Xilinx VIVADO	Anna University	11th to 12th Oct 2019
25	Online Teaching and Branding	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	24th Apr 2020
26	How to Get Published In Scientific Journal: From Research to Publication "	Sri Sairam Institute of Technology	27th Apr 2020

Sl. No.	Title of the Workshop / Webinar	Venue	Month / Year
27	COVID Impacts on Technology	Nallamuthu Gounder Mahalingam College, Pollachi	29th Apr 2020
28	Electromagnetic pollution hazards of Cell phone Base station on Environment	Panimalar Institute of Technology, Chennai	13th May 2020
29	Machine Learning	PBS College of Arts &Science, Vijayawada	07th Jun to 09th Jun 2020
30	Recent Advancements in AI, IOT & Data Science	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	08th Jun to 12th Jun 2020
31	How to Publish High Impact Research Articles	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	09th Aug 2020
32	Introduction top Deep Learning	PBS College of Arts &Science, Vijayawada	21st Aug to 23rd Aug 2020
33	How to Write an Effective Technical Paper	GSSS Institute of Engineering and Technology for Women, Mysuru	24th Aug 2020
34	Insightful Rudiments of Originating Google Forms & Generating Certificates- A Horde of Approaches Adaptable for Online Academic Motives	Balaji Institute of Technology & Science, Warangal	25th Sep & 26th Sep 2020
35	Deep Learning Models and its Applications	SSN College of Engineering	08th Dec & 09th Dec 2020
36	Assistive Technology - The challenges	SSN College of Engineering	15th Dec & 16th Feb 2021
37	How to Publish High Impact Research Articles	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	09th Aug 2020
38	Introduction top Deep Learning	PBS College of Arts &Science, Vijayawada	21st Aug to 23rd Aug 2020
39	How to Write an Effective Technical Paper	GSSS Institute of Engineering and Technology for Women, Mysuru	24th Aug 2020

Sl. No.	Title of the Workshop / Webinar	Venue	Month / Year
40	Insightful Rudiments of Originating Google Forms & Generating Certificates - A Horde of Approaches Adaptable for Online Academic Motives	Balaji Institute of Technology & Science, Warangal	25th Sep & 26th Sep 2020
41	MATLAB Master Class Series 2020	IETE Mumbai	Sep 2020
42	Deep Learning Models and its Applications	SSN College of Engineering	08th Dec & 09th Dec 2020
43	Assistive Technology - The challenges	SSN College of Engineering	15th Dec & 16th Feb 2021
44	Intellectual Property Rights	Sathyabama Institute of Science and Technology	26th & 27th April 2021
45	Online -Training on Full custom and Semi-custom Design Flow in VLSI using Cadence Tools	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	29th & 30th April 2021
46	FPGA for Verification	B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai	03rd May 2021
47	Outcome Based Teaching Learning Process in Technical Education	NITTTR, Chennai	06th May 2021
48	Sustainability and Engineering Education	VIT, Chennai	07th May 2021
49	Tinker your Ideas to the Next Level	Dept. of ECE, Sri Sairam Engineering College	22nd May 2021
50	Revised Accreditation Framework for Quality Education in Higher Education Institutes	Sri Sai Ram Engineering College	14th & 15th July 2021
51	Machine Learning in Wireless Communication: 5G and beyond	G. H. Raisoni College of Engineering and Management & IETE Chennai	09th Dec 2022

FDP / STTP:

Sl. No.	Title of the FDP / STTP	Venue	Month / Year
1	Instructional Design & Delivery	Sri Sai Ram Engg. College	8th & 9th Jan 2009
2	Mobile Networks	Sri Sai Ram Engg. College	19th to 30th Jan 2009
3	Recent Advances in Wireless Information Networks	SRM University	1st Oct 2010
4	Work Life Balance for Engineering and Management Faculty	Sri Sai Ram Engg. College	16th to 22nd Feb 2012
5	Embedded Systems with ARM7 Microcontrollers	Pantech ProEd Pvt. Ltd.	25th & 26th June 2015
6	Real Time Embedded System Applications using Arduino and LabVIEW	Agni College of Technology	29th & 30th Oct 2015
7	An Introduction to Information Theory	NPTEL, IIT Kanpur	Aug to Sep 2018 (Equivalent to 1 Week)
8	Introduction to Internet of Things	NPTEL, IIT Kharagpur	Jul to Oct 2018 (Equivalent to 1.5 Weeks)
9	Embedded Systems with Machine Learning	St. Joseph's Inst. of Technology	10th to 12th Apr'19
10	Introduction to Coding Theory	NPTEL, IIT Kanpur	Jan to March 2019 (Equivalent to 1 Week)
11	Basics of Software Defined Radios and Practical Applications	NPTEL, IIT Roorkee	Jan to Feb 2019 (Equivalent to 0.5 Week)
12	Cloud Computing	NPTEL, IIT Kharagpur	Feb to Apr 2019 (Equivalent to 1 Week)
13	Data Science for Engineers	NPTEL, IIT Madras	Jul to Sep 2019 (Equivalent to 1 Week)
14	Python for Data Science	NPTEL, IIT Madras	Aug to Sep 2019 (Equivalent to 0.5 Week)
15	Courseware Creation using MOODLE for OBE	Integral University, Lucknow	15th Nov to 15th Jan 2020

Sl. No.	Title of the FDP / STTP	Venue	Month / Year
16	Art of Writing Research Article in Hi-Indexed Journals	Nehru Arts & Science College, Coimbatore	29th Apr & 30th Apr 2020
17	ATAL FDP on "Artificial Intelligence"	College of Engg. & Tech, Udaipur	30th Apr to 04th May 2020
18	Recent Trends in Information, Computing, Communication and Teaching Methodology Competency	Sri Sai Ram Engg. College	04th May to 17th May 2020
19	R Programming	Shri Krishnaswamy College for Women	Jan to 04th May 2020
20	LEARNATHON 2020	ICT Academy	May to June 2020
21	Deep Learning Applications and Concepts	NRI Inst. of Tech., Andhra Pradesh	11th Jun to 14th Jun 2020
22	Latex & Xfig	Calcutta Institute of Technology, West Bengal	15th Jun to 19th Jun 2020
23	Get Ready for AI with MATLAB and Simulink	Sri Sai Ram Engg. College	18th Jun to 20th Jun 2020
24	Moodle Learning Management System	Amity University, Lucknow (Offered by Spoken Tutorial Project, IIT Bombay.)	23rd Jun to 27th Jun 2020
25	Emerging Trends & Technologies in Data Science	GMR Institute of Technology, Kakinada	24th Aug to 29th Aug 2020
26	AI Using Python	GMR Institute of Technology, Kakinada	14th Sep to 19th Sep 2020
27	Patent Drafting for Beginners	NPTEL, IIT Madras	Sep to Oct 2020 (Equivalent to 0.5 Week)
28	Practical Machine Learning with TensorFlow	NPTEL, Google & IIT Madras	Sep to Nov 2020 (Equivalent to 1 Week)
29	Introduction to Machine Learning	NPTEL, IIT Madras	Sep to Dec 2020 (Equivalent to 1.5 Weeks)
30	STTP on "Recent Emerging Trends in Wireless Communication using IoT"	Vidya Jyothi Institute of Technology, Hyderabad	09th Nov to 16th Nov 2020

Sl. No.	Title of the FDP / STTP	Venue	Month / Year
31	ATAL FDP on "Internet of Things"	Amity School of Engineering & Technology, Noida	12th Oct to 16th Oct 2020
32	STTP on Scilab: An Effective Open Source Tool for Computer Vision and Machine Learning	Vidya Jyothi Institute of Technology, Hyderabad	02nd Nov to 07th Nov 2020
33	ATAL FDP on "Augmented Reality (AR) / Virtual Reality (VR)"	Gurunanak Dev Engg. College, Ludhiana	23rd Nov to 27th Nov 2020
34	STTP on "Predictive Analytics using Artificial Intelligence"	NRI Institute of Technology, Vijayawada	14th Dec to 19th Dec 2020
35	ATAL FDP on "Robotics"	Rajeev Gandhi Memorial College of Engineering and Tech., Nandyal, AP	05th Jan to 09th Jan 2021
36	ATAL FDP on "Mathematical Foundations of Data Sciences and its Applications"	Global Academy of Technology, Bengaluru	19th Jan to 23rd Jan 2021
37	STTP on "Emerging Trends and Research Challenges in Next Generation Wireless Networks"	Kongunadu College of Engineering and Technology	29th Mar to 03rd Mar 2021
38	Effective Engineering Teaching in Practice	NPTEL, IIT Madras	Jan to Feb 2021 (Equivalent to 0.5 Week)
39	Programming, Data Structures and Algorithms Using Python	NPTEL, IIT Madras	Jan to Mar 2021 (Equivalent to 1 Week)
40	Inculcating Universal Human Values in Technical Education	AICTE	17th to 21st May 2021
41	Role of Augmented Reality (AR) & Virtual Reality (VR) in Real – Time Applications	Karunya Institute of Technology and Sciences	07th Jun to 11th Jun 2021
42	Data Science with Statistical Methods using R Programming-Basic Course	Amity University Uttar Pradesh, Lucknow Campus	21st Jun to 26th Jun 2021
43	Artificial Intelligence for Computer Vision	IIT, Roorkee	12th Jun to 16th Jun 2021
44	Educational Leadership	NPTEL, IIT, Kharagpur	Jul to Sep 2021 (Equivalent to 1 Week)

Sl. No.	Title of the FDP / STTP	Venue	Month / Year
45	Teaching And Learning in General Programs: TALG	NPTEL, IISc Bangalore	Jul to Aug 2021 (Equivalent o 0.5 Week)
46	Introduction to Machine Learning	NPTEL, IIT Madras	Jul to Oct 2021 (Equivalent to 1.5 Weeks)
47	Learning Analytics Tools	NPTEL, IIT Bombay	Jul to Oct 2021 (Equivalent to 1.5 Weeks)
48	Introduction to Professional Scientific Communication	NPTEL, IIT Kanpur	Jan to Feb 2022 (Equivalent to 0.5 Weeks
49	Fundamentals of MIMO Wireless Communication	NPTEL, IIT Kharagpur	Jan to Mar 2022 (Equivalent to 1 Week)
50	Evolution of Air Interface towards 5G	NPTEL, IIT Kharagpur	Feb to Apr 2022 (Equivalent to 1 Week)
51	Research Trends in Wireless Sensor Networks	NIT, Tiruchirappalli	07th to 16th March2022
52	Scilab Programming	NITTTR, Chandigarh	25th Apr to 29th Apr 2022
53	Cyber Crime and Forensic Tools	NITTTR, Chandigarh	23rd May to 27th May 2022
54	AI & ML in Next Generation Communication Techniques and Systems	NIT, Warangal	25th Jul to 04th Aug 2022
55	Demystifying Networking	NPTEL, IIT Bombay	Jul to Aug 2022 (Equivalent to 0.5 Week)
56	Ethics In Engineering Practice	NPTEL, IIT Kharagpur	Aug to Oct 2022 (Equivalent to 1 Week)
57	Accreditation and Outcome Based Learning	NPTEL, IIT Kharagpur	Aug to Oct 2022 (Equivalent to 1 Week)
58	Deep Learning	NPTEL, IIT Ropar	Jul to Oct 2022 (Equivalent to 1.5 Weeks)

CONFERENCE PARTICIPATION:

Sl. No.	Title of the Conference	Venue	Month / Year
1	International Conference on Computers, Controls & Communication	Sri Sairam Engg. College	20th Aug to 22nd Aug 2004
2	National Conference on Biomedical Electronics & Biomedical Informatics	Sri Sairam Engg. College	5th Feb & 6th Feb 2009
3	Tutorial session on "Wireless Sensor Networks" at the International Conference on Innovative Computing, Information and Communication Technology	Sri Sairam Engg. College	16th Dec to 18th Dec 2009
4	National Conference on Advanced Communication & Computing Techniques	Sri Sairam Engg. College	18th Mar to 19th Mar 2013
5	National Conference on Advanced Communication & Computing Techniques	Sri Sairam Engg. College	11th Apr 2014
6	International Conference on Broadband and Wireless Technologies	Sri Sairam Engg. College	23rd Jun & 24th Jun2016
7	International Conference on Communication, Computing and IOT(IC3IOT 2018)	Sri Sairam Engg. College	15th Feb to 17th Feb 2018
8	International Conference on Communication, Computing and IOT(IC3IOT 2020)	Sri Sairam Engg. College	20th Feb to 22nd Feb 2020

PUBLICATIONS – INTERNATIONAL CONFERENCE PROCEEDINGS:

Sl. No.	Title of the Paper	Venue	Month / Year
1	Energy Efficient ZIGBEE Cluster-Tree WSN using Modified Distributed Algorithm	St. Joseph College of Engineering	21st March 2014
2	A Novel Method for Secure and Energy Efficient Image Compression in WMSN	Sri Venkateswara College of Engineering	7th & 8th Mar 2014
3	A Reliable Scheme to Filter False Data at Minimal Hops for Secured WSN	M.E.T Engineering College	23rd April 2016
4	Smart Wheel Chair for Quadriplegics	Sri Sai Ram Engg. College	15th Feb to 17th Feb 2018
5	Secured Speech Data Hiding using Steganography of Images	Vaigai College of Engineering	15th Apr to 17th May 2019
6	Variable Vehicle Speed Limiter for Accident Avoidance using RF Technology	Sri Sai Ram Engg. College	20th Feb to 22nd Feb 2020
7	Zigbee based Automation Systems for Homes with the Deployment of Smart Sensors	Stanley College of Technology for Women, Abids, Hyderabad.	20th & 21st Nov 2020
8	EEG based Epileptic Seizure Detection Methods	International Forum of Interdisciplinary Research and Issuance	26th Jun & 27th Jun 2021
9	Raspberry Pi Based Smart Walking Stick for Visually Impaired Person	Musaliar College of Engineering and Technology, Pathanamthitta, Kerala	24th & 25th Sep 2021
10	Personality Prediction Through CV Analysis using Machine Learning Algorithms for Automated E-Recruitment Process	Sri Sai Ram Engg. College	16th & 17th Dec2021
11	Arduino Based Circuit Breaker for Power Distribution Lines to Enhance the Safety of Lineman	Francis Xavier Engineering College, Tirunelveli	10th & 11th Feb 2022
12	A Novel Algorithm with Complexity Reduction for Multimedia Applications	Sri Sairam Engg. College	10th & 11th March2022
13	Analysis of Wavelets on Discrete Wavelet Transform for Image Compression and Transmission in Wireless Sensor Networks	Sri Sairam Engg. College	10th & 11th March2022

Sl. No.	Title of the Paper	Venue	Month / Year
14	Identification of Currency Note for Blind People	Symbiosis Institute of Technology, Pune	21st & 22nd June2022
15	Image Compression Algorithm for Energy Efficiency Optimization in Wireless Sensor Networks	Symbiosis Institute of Technology, Pune	21st & 22nd June2022
16	Smart Guiding Assistant for Visually Impaired using Raspberry Pi	Sri Sairam Engg. College	09th Nov to 10th Nov 2022
17	Smart Blind Cane for Blind and Deaf People with a Safety Trigger	Sri Sairam Engg. College	08th Dec to 09th Dec 2022
18	Cloud Assisted IoT Enabled Forest Fire Detection System	Sri Sairam Engg. College	08th Dec to 09th Dec 2022

PUBLICATIONS – NATIONAL CONFERENCE PROCEEDINGS

Sl. No.	Title of the Paper	Venue	Month / Year
1	An Algorithmic Approach for Image Compression using MSPIHT	Adhiparasakthi Engg. College	6th & 7th Feb 2008
2	A Novel Method for Lossless Video CODEC: An Algorithmic Approach using MSPIHT	Kumaraguru College of Technology	7th & 8th Mar 2008
3	Performance Analysis of RFID Generation-2 Protocol for Privacy Protection	Easwari Engg. College	8th to 10th Dec 2010
4	Security Enhancement for RFID Generation-2 Protocol	Tagore Engg. College	18th Apr 2011
5	Security Enhancement for RFID Generation-2 Protocol	R.M.K Engg. College	27th Apr 2011
6	Efficient Frequency Spectrum using Multicast Forest Method for Multichannel in WMN	Ganadipathy Tulsi's Jain Engg. College	24th Feb 2012
7	Swarmbots - Autonomous Collaborative Multi-Robot Color Map Exploration for First-Responder and Military Applications	Sri Ramakrishna Engg. College	1st & 2nd Mar 2012
8	Swarmbots- Autonomous Collaborative Multi-Robot Color Map Exploration for First-Responder and Military Applications	Bannari Amman Inst. of Tech.	23rd & 24th Feb 2012
9	A Robust & Energy Efficient Approach for WSN in Precision Agriculture	Velammal Engineering College	19th Mar 2013
10	FPGA Implementation of Composite Field Based Fault Detection Scheme for AES	Easwari Engg. College	12th Mar 2013
11	FPGA Implementation of AES Encryption Using Composite Field Based Fault Detection Scheme for S-Box	R.M.K. Coll. of Engineering & Technology	1st Apr 2013
12	Adaptive Load Balancing Algorithm for Routing in WSN	Velammal Engineering College	13th March 2015

PUBLICATION –INTERNATIONAL / NATIONAL JOURNALS:

Sl. No.	Title of the Paper	Journal Name	Volume / Month / Year
1	A Novel Method for Lossless Video CODEC: An Algorithmic Approach using MSPIHT	SSEC TECH JOURNAL	Vol-8, 2008
2	Efficient Cryptographic Image Compression by Pixel Reordering	IJAIR- International Jour. of Advanced & Inno. Research	Vol 3, Issue 4, April 2014 ISSN:2278-7844
3	Energy Efficient ZIGBEE Cluster-Tree WSN using Modified Distributed Algorithm	IEEE Xplore Digital Library	DOI: 10.1109/ICCSP.2014.6950177, Nov 2014
4	A Reliable Scheme to Filter False Data at Minimal Hops for Secured WSN	IOSR Journal of VLSI and Signal Proc	e-ISSN: 2319–4200, p-ISSN No.: 2319 – 4197 PP 41 - 46
5	Modified Contourlet Transform Based Effective Image Compression Framework for Wireless Sensor Networks	Journal of Advanced Research in Dynamical and Control Systems (SCOPUS INDEXED)	Volume - 10, Issue 01 - Special Issue, 2018
6	Smart Wheel Chair for Quadriplegics	IEEE Xplore Digital Library (SCOPUS INDEXED)	**Electronic ISBN:** 978-1-5386-2459-3 **Print on Demand (PoD)ISBN:** 978-1-5386-2460-9 March 2019
7	A Secure Image Steganography for Speech Data Hiding	International Journal of Engg. Research in Computer Science and Engineering (IJERCSE) – UGC JOURNAL	Vol 6, Issue 7, July 2019
8	High Pressure Turbine Casing Expansion Measurements in Thermal Power Stations Using Smart Sensor	Test Engineering and Management	January - February 2020 **ISSN:** 0193 - 4120 **Page No.** 7629 - 7634
9	Zigbee based Automation Systems for Homes with the Deployment of Smart Sensors	Materials Today: Proceedings (SCOPUS INDEXED)	https://doi.org/10.1016/j.matpr.2021.01.043

Sl. No.	Title of the Paper	Journal Name	Volume / Month / Year
10	Driverless Vehicle for Garbage Collection	Materials Today: Proceedings (SCOPUS INDEXED)	https://doi.org/10.1016/j.matpr.2021.01.044
11	Variable Vehicle Speed Limiter for Accident Avoidance using RF and Light Fidelity (LiFi) Technology	International Journal of Future Generation Communication and Networking (WEB OF SCIENCE)	Vol. 14, No. 1, (2021), pp. 372–383
12	Personality Prediction Through CV Analysis using Machine Learning Algorithms for Automated E-Recruitment Process	IEEE Xplore Digital Library	**Electronic ISBN:** 978-1-6654-1447-0, **DOI:** 10.1109/ICCCT53315.2021.9711787, Feb 2022
13	A Novel Algorithm with Complexity Reduction for Multimedia Applications	(SCOPUS INDEXED)	**Electronic ISBN:** 978-1-6654-7995-0/22/$31.00 ©2022 IEEE | DOI: 10.1109/IC3IOT53935.2022.9767977, May 2022
14	Analysis of Wavelets on Discrete Wavelet Transform for Image Compression and Transmission in Wireless Sensor Networks	IEEE Xplore Digital Library	**Electronic ISBN:** 978-1-6654-7995-0/22/$31.00 ©2022 IEEE | DOI: 10.1109/IC3IOT53935.2022.9767977, May 2022
15	Smart Footwear for Patients with Diabetic Neuropathy	Indian Journal of Natural Sciences	Vol. 13, Issue 71, April 2022
16	A Smart Navigation Gadget for Visually Impaired People	Indian Journal of Natural Sciences	Vol. 13, Issue 71, April 2022

Sl. No.	Title of the Paper	Journal Name	Volume / Month / Year
17	Arduino Based Circuit Breaker for Power Distribution Lines to Enhance the Safety of Lineman	Lecture Notes on Data Engg. and Communications Technologies	Volume 131, https://doi.org/10.1007/978-981-19-1844-5_55
18	Raspberry Pi based Smart Walking Stick for Visually Impaired Person	AIP Conference Proceedings	20 August 2022, https://doi.org/10.1063/5.0103097
19	EEG based Epileptic Seizure Detection Methods	AIP Conference Proceedings	28 September 2022, https://doi.org/10.1063/5.0103536

PATENT:

Sl. No.	Title of the Patent	Country	Applied Date
1	One Bit Compression Sensing Mechanism for Low-Rate Wireless Sensor Networks (Published)	Australia	29.11.2020
2	A Foldable Electric Vehicle – Design Patent (Published)	India	20.10.2021
3	An Internet of Things and Machine Learning Based Self-Driven Warehouse Robot Vehicle	India	15.05.2022

BOOK CHAPTER:

Sl. No.	Title of the Patent	Book Name / Publisher Name	Volume / Month / Year
1	In-Memory Computing	Emerging Technologies in Engineering Research, Technical Research Publications	ISBN: 978-93-5419-211-1 (Online), Dec 2020
2	Communication Scheme Based on Blue Ray Optical Modems for Autonomous Marine Vehicles	Recent Trends in Engineering and Technology	ISBN-9788194714989
3	Home Automation Using Brain Wave Technology	Recent Trends in Engineering and Technology	ISBN-9788194714989

ONLINE CERTIFICATION COURSES:

Sl. No.	Title of the Course	Course Offered by	Month / Year
1	Deep Learning A-Z: Hands-On ArtificialNeural Networks	UDEMY	10th Nov 2019
2	Speaking Effectively	NASSCOM FUTURESKILLS	26th Jan 2020
3	Complete Machine Learning and Data Science: Zero to Mastery	Udemy	27th Mar 2020
4	Introduction to IoT	Simplilearn (NASSCOM FUTURESKILLS)	29th Mar 2020
5	Introduction to Artificial Intelligence	Simplilearn (NASSCOM FUTURESKILLS)	01st Apr 2020
6	Introduction to Robotic Process Automation	Simplilearn (NASSCOM FUTURESKILLS)	02nd Apr 2020
7	Introduction to Project Management	Simplilearn (NASSCOM FUTURESKILLS)	02nd Apr 2020
8	Foundational Artificial Intelligence	SkillUp (NASSCOM FUTURESKILLS)	03rd Apr 2020
9	Introduction to Data Analytics	Simplilearn (NASSCOM FUTURESKILLS)	03rd Apr 2020
10	Introduction to Cyber Security	Simplilearn (NASSCOM FUTURESKILLS)	04th Apr 2020
11	Big Data Foundation Course	Digital Vidya (NASSCOM FUTURESKILLS)	Apr 2020

Sl. No.	Title of the Course	Course Offered by	Month / Year
12	IoT for Beginners	Jigsaw Academy (NASSCOM FUTURESKILLS)	Apr 2020
13	IoT Foundation	Jigsaw Academy (NASSCOM FUTURESKILLS)	Apr 2020
14	Learning How to Learn: Powerful Mental Tools to Help you Master Tough Subjects	UC San Diego (COURSERA)	05th May 2020
15	Introduction to Big Data	UC San Diego (COURSERA)	06th May 2020
16	AI for Everyone	Deeplearning.ai (COURSERA)	08th May 2020
17	Data Science in Real Life	John Hopkins University (COURSERA)	08th May 2020
18	Classical Cryptosystems and Core Concepts	University of Colorado (COURSERA)	09th May 2020
19	The Data Scientist's Toolbox	John Hopkins University (COURSERA)	09th May 2020
20	Cryptography and Information Theory	University of Colorado (COURSERA)	17th May 2020
21	Neural Networks and Deep Learning	Deeplearning.ai (COURSERA)	10th May 2020
22	Machine Learning for All	University of London (COURSERA)	14th May 2020
23	Mathematical Foundations for Cryptography	University of Colorado (COURSERA)	15th May 2020
24	Wireless Communications for Everybody	Yonsei University (COURSERA)	16th May 2020
25	Data Science Ethics	University of Michigan (COURSERA)	18th May 2020
26	R Programming	John Hopkins University (COURSERA)	19th May 2020
27	Asymmetric Cryptography and Key Management	University of Colorado (COURSERA)	20th May 2020
28	Introduction to the Internet of Things and Embedded Systems	University of California, Irvine (COURSERA)	20th May 2020

Sl. No.	Title of the Course	Course Offered by	Month / Year
29	Symmetric Cryptography	University of Colorado (COURSERA)	21st May 2020
30	Introduction to Virtual Reality	University of London (COURSERA)	23rd May 2020
31	Getting and Cleaning Data	John Hopkins University (COURSERA)	24th May 2020
32	Exploratory Data Analysis	John Hopkins University (COURSERA)	25th May 2020
33	Applied Cryptography - Specialization	University of Colorado (COURSERA)	26th May 2020
34	Cryptographic Hash and Integrity Protection	University of Colorado (COURSERA)	26th May 2020
35	Data Smart for Beginners	Jigsaw Academy (NASSCOM FUTURESKILLS)	May 2020
36	Robotic Process Automation	GUVI – SKILLATHON	01st Jun 2020
37	Practical Machine Learning	John Hopkins University (COURSERA)	03rd Jun 2020
38	Regression Models	John Hopkins University (COURSERA)	03rd Jun 2020
39	Statistical Inference	John Hopkins University (COURSERA)	03rd Jun 2020
40	Digital Footprint	The University of Edinburgh (COURSERA)	05th Jun 2020
41	Software Defined Networking	University of Chicago (COURSERA)	05th Jun 2020
42	Beyond the Sustainable Development Goals (SDGs): Addressing Sustainability and Development	University of Michigan (COURSERA)	07th Jun 2020
43	Create Your First Python Program	COURSERA	07th Jun 2020
44	Introduction to Python	COURSERA	07th Jun 2020

Sl. No.	Title of the Course	Course Offered by	Month / Year
45	The Sustainable Development Goals – A Global, Transdisciplinary Vision for the Future	University of Copenhagen (COURSERA)	07th Jun 2020
46	Reproducible Research	John Hopkins University (COURSERA)	08th Jun 2020
47	Image Compression with K-Means Clustering	COURSERA	14th Jun 2020
48	Support Vector Machine Classification in Python	COURSERA	14th Jun 2020
49	Support Vector Machines in Python, From Start to Finish	COURSERA	14th Jun 2020
50	Support Vector Machines with scikit-learn	COURSERA	14th Jun 2020
51	Build a Deep Learning Based Image Classifier with R	COURSERA	Jun 2020
52	Portfolio Diversification using Correlation Matrix	COURSERA	15th Jun 2020
53	Statistical Data Visualization with Seaborn	COURSERA	15th Jun 2020
54	Logistic Regression with NumPy and Python	COURSERA	19th Jun 2020
55	Cryptography: Boolean functions and Related Problems	Novisibirsk State University (COURSERA)	04th Jul 2020
56	Managing G Suite	Google Cloud (COURSERA)	04th Jul 2020
57	Fundamentals of Network Communication	University of Colorado (COURSERA)	21st Sep 2020
58	Build a Face Recognition App using Python	Guvi	25th Apr 2021
59	Step into RPA	UIPATH	17th Dec 2021

NPTEL ONLINE CERTIFICATION COURSES:

Sl. No.	Title of the Course	Course Offered by	Performance	Month / Year
1	Wireless Ad Hoc and Sensor Networks	IIT Kharagpur	Elite + 2% Topper	Feb - Mar 2018
2	Introduction to Internet of Things	IIT Kharagpur	Elite	Jul - Oct 2018
3	An Introduction to Information Theory	IIT Kanpur	Elite	Aug - Sep 2018
4	Introduction to Coding Theory	IIT Kanpur	Elite	Jan - Mar 2019
5	Basics of Software Defined Radios and Practical Applications	IIT Roorkee	Elite + Silver + 5% Topper	Jan - Feb 2019
6	Cloud Computing	IIT Kharagpur	Elite + Gold + 1% Topper	Feb - Apr 2019
7	Data Science for Engineers	IIT Madras	Elite + Silver	Jul - Sep 2019
8	Python for Data Science	IIT Madras	Elite + Silver	Aug - Sep 2019
9	Introduction to R Software	IIT Kanpur	Elite + Gold + 1% Topper	Aug - Oct 2019
10	Patent Drafting for Beginners	IIT Madras	Successfully Completed	Sep - Oct 2020
11	Practical Machine Learning with TensorFlow	Google & IIT Madras	Elite	Sep - Nov 2020
12	Introduction to Machine Learning	IIT Madras	Elite	Sep - Dec 2020
13	Effective Engineering Teaching in Practice	IIT Madras	Elite + Silver + 5% Topper	Jan - Feb 2021
14	Programming, Data Structures And Algorithms Using Python	IIT Madras	Elite	Jan - Mar 2021
15	Educational leadership	IIT Kharagpur	Elite + Gold + 1% Topper	Jul to Sep 2021
16	Teaching And Learning in General Programs: TALG	IISc Bangalore	Elite + Silver	Jul to Aug 2021
17	Reinforcement Learning	IIT Madras	Elite	Jul to Oct 2021
18	Learning Analytics Tools	IIT Bombay	Elite + Silver	Jul to Oct 2021
19	Introduction to Professional Scientific Communication	NPTEL, IIT Kanpur	Elite + Silver	Jan to Feb 2022
20	Fundamentals of MIMO Wireless Communication	NPTEL, IIT Kharagpur	Elite	Jan to Mar 2022

Sl. No.	Title of the Course	Course Offered by	Performance	Month / Year
21	Evolution of Air Interface towards 5G	NPTEL, IIT Kharagpur	Elite + Silver	Feb to Apr 2022
22	Deep Learning	NPTEL, IIT Ropar	Successfully Completed	Jan to Apr 2022
23	Demystifying Networking	NPTEL, IIT Bombay	Elite + Silver	Jul to Aug 2022
24	Ethics In Engineering Practice	NPTEL, IIT Kharagpur	Elite + Gold + 1% Topper	Aug to Oct 2022
25	Accreditation and Outcome Based Learning	NPTEL, IIT Kharagpur	Elite + Gold + 2 % Topper	Aug to Oct 2022
26	Deep Learning	NPTEL, IIT Ropar	Elite + Silver	Jul to Oct 2022

NITTT MODULES

Sl. No.	Title of the Course	Score	Month / Year
1	Module 6: Student Assessment and Evaluation	97	September 2021
2	Module 1: Orientation towards Technical Education and Curriculum Aspects	93	February 2022
3	Module 4: Instructional Planning and delivery	86	February 2022
4	Module 2: Professional Ethics & Sustainability	94	July 2022
5	Module 5: Technology Enabled Learning & Life Long Self Learning	95	July 2022
6	Module 7: Creative Problem Solving, Innovation and Meaningful R & D	91	July 2022

Signature

(G. Sudha)