



# GRACE COLLEGE OF ENGINEERING

MULLAKKADU, THOOTHUKUDI - 628005

## FACULTY PROFILE

**Name** : S. Abarna  
**Designation & Department** : Assistant Professor & CSE  
**Gender** : Female  
**DOB** : 14.02.1990  
**DOJ** : 15.06.2015  
**Father's Name** : Mr. S. Santharaj  
**E-mail id** : abarna@gracecoe.org



## EDUCATIONAL QUALIFICATION:

Degree	Course	Month & Year of Passing	Name of the School/College & Board/University	Regular/ Part Time	% of Marks	Class Obtained
UG	BE-CSE	Nov & 2011	Dr. Sivanthi Aditanar college of Engineering, Tiruchendur & Anna University, Tirunelveli	Regular	69	I
PG	ME-CSE	June & 2014	Dr. Sivanthi Aditanar college of Engineering, Tiruchendur & Anna University, Chennai	Regular	7.36 (CGPA)	I
Ph.D (pursuing)	ICE	-	Anna University, Chennai	Part Time	-	-

## EXPERIENCE:

Name of the College	Designation	Duration	
		From	To
Chandy College of Engineering, Thoothukudi	Assistant Professor	15.06.2015	11.08.2020
Grace College of Engineering, Thoothukudi	Assistant Professor	12.08.2020	Till Date
<b>Total Teaching Experience</b>			<b>8 Years 10 Months</b>

**ADDITIONAL QUALIFICATION IF ANY:**

i. GATE Score (In case of B.E. / B.Tech.):-

ii. NET / SLET -

Title of Ph.D. Thesis \*: -

Faculty in which Ph.D. was awarded: -

**MEMBERSHIP IN PROFESSIONAL BODIES:**

Professional Body	Type of Membership	Membership Number
CSI Chapter- Sivakasi	Faculty	F8004635

**PAPERS PRESENTED IN CONFERENCE/SYMPOSIUM:**

Date	Venue	Paper Name	ISBN/ ISSN if any	Conference Title
27 <sup>th</sup> September 2013	AGNI college of Technology, Chennai	A Survey of an Adaptive Selective Verification: An Efficient Adaptive Countermeasure to Thwart DOS Attacks		Computing and Communication Engineering
29 & 30 <sup>th</sup> November 2013	K.L.N College of Information Technology, Pottapalayam	Human Concurrence Based Efficient Pattern Mining		ICDASDC'13
21 & 22 <sup>nd</sup> February 2014	Arunachala college of Engineering For Women, Vellichanthai	Restructure Search Results for Efficient Web Search		Emerging Trends in Computing, Control and Communications
24 <sup>th</sup> February 2014	R.M.K Engineering College, Chennai	Frame Quality Enhancement Based on Piecewise Tone Mapping		Emerging Trends in Computing, Control and Communications
27 & 28 <sup>th</sup> February 2014	D.M.I Engineering college, Aralvaimozhi	Filtering Noisy contents in Online Social Network by using Rule Based Filtering Systems		ICRVICT'14
28 <sup>th</sup> February 2014	EASA college of Engineering and Technology, Coimbatore	FRECA-Fuzzy Relational Clustering Algorithm for Sentence Clustering		Innovations in Computer Technology & Communication
6 & 7 <sup>th</sup> March 2014	JayShriram Group of Institutions, Tirupur	Discovering Patterns of Human Interactions in Meetings using Tree- Based Mining		ICGICT'14
13 & 14 <sup>th</sup>	C.S.I Institute of	Tree-Based Mining		ICRTET'14

March 2014	Technology, Thovalai	Method to Extract Frequent Patterns Of Human Interaction in Meetings		
19 <sup>th</sup> March 2014	St. Joseph college of Engineering, Chennai	Intrusion Detection using Double Guard in Multi Tier Architecture		Advances in Computing Technology
26 & 27 <sup>th</sup> March 2014	Dr. Sivanthi Aditanar college of Engineering, Tiruchendur	Detecting Human Interaction in Meetings using Tree-Based Mining”		Networking and Intelligent Computing
27 <sup>th</sup> February 2016	Bethlehem Institute of Engineering, Karungal	Estimating Crop Yield from Hyper Spectral Image using N-Finder and VCA		Recent Advancement in Computer Science and Engineering
3 & 4 <sup>th</sup> March 2016	Immanuel Arasar JJ College of Engineering, Marthandam on 3 & 4 <sup>th</sup> March 2016	Crop Yield Estimation From Hyper Spectral Image using N-finder and VCA		ICCTT'16
17 & 18 <sup>th</sup> February 2017	Erode Sengunthar Engineering College, Erode	Precise Segmentation of Vessels from MRA Brain Images based on Neural Algorithm		ICETSSST'17
10 & 11 <sup>th</sup> March 2017	Shree Sathyam college of Engineering and Technology, Salem	Android and Web based Electricity Monitoring and Controlling using IOT and Flex Sensor based Glove and Embedded System		ICETM'17
15 <sup>th</sup> March 2017	Francis Xavier Engineering College, Tirunelveli	Android and PHP based electricity and Home based automation based on IOT with embedded system		ICETAC'17
24 & 25 <sup>th</sup> March 2017	Rajas Engineering College, Vadakkangulam	Forwarding Metric based data forwarding scheme in delay-tolerant networks		ICITEST2K17
12 <sup>th</sup> April 2017	Chandy College of Engineering, Mullakkadu	Oncoming Motor Vehicle detection at night time for Indian Conditions using Image Processing Techniques		Futuristic Explorations in Electrical, Communication & Information Engineering
15 & 16 <sup>th</sup> March 2018	Vins Christian Women's College of Engineering, Chunkankadai	Fuzzy Identity and Attribute based Encryption for fine grained access control of Encrypted Data		ICMTER-2018
5 <sup>th</sup> April 2018	Al-Ameen Engineering College, Erode	Five Finger Robotic hand used for Hand		ASER-2018

		Assisted Laparoscopic Surgery		
6 & 7 <sup>th</sup> April 2018	Chennai Institute of Technology, Chennai	Attribute based Encryption for fine grained access control scheme using Encrypted Data of Fuzzy Techniques		ICRSI
15 <sup>th</sup> February 2019	VV College of Engineering, Tisayanvilai	Online Banking Portal System using Stenography and Visual Cryptography		Innovative Computing Techniques and Applications
9 & 10 <sup>th</sup> March 2019	Prince Shri Venkateshwara Padmavathy Engineering College, Chennai	Research on deep learning techniques in breaking text based captcha & designing image-based captcha		ICCET2019
22 <sup>nd</sup> March 2019	Nadar Saraswathi College of Engineering and Technology, Theni	Efficient way to store and retrieve data in an Industrial IoT in cloud computing		ICNSCET-19
18 <sup>th</sup> May 2019	J.N.N Institute of Engineering, Chennai	Smart Stick using Ultrasonic Navigation with voice aid for Visually Impaired		ICIETM-19
13 <sup>th</sup> & 14 <sup>th</sup> March 2020	KIT-Kalaignar karunanidhi Institute of Technology, Coimbatore	Real Time Intelligence Alarm System of Driver Fatigue		ICSETM'20
13 <sup>th</sup> April 2020	Karpagam Institute of Technology, Coimbatore	Multiple Pyramids based image inpainting using local patch statistics and steering kernel feature		ICLTSET'20
10 <sup>th</sup> April 2021	Annai Vailankanni College of Engineering, Azhagappapuram	JeKa – The intelligent Chatbots using Various Algorithms		ICAMCCT'21
29 <sup>th</sup> April 2021	SRM TRP Engineering College, Trichy	Change Detection in Remote Sensing images using Homogeneous Pixel Transforms		ICAISEN'21
28 <sup>th</sup> & 29 <sup>th</sup> April 2022	PSN Institute of Technology and Science Melathediyoar	Crop Yield Prediction Using Deep Reinforcement Learning		ICRTMREICT-2022
13 <sup>th</sup> to 15 <sup>th</sup> July 2022	Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai	A survey on different crop yield prediction mechanisms		ICSMTBEA-2022
30 <sup>th</sup> July 2022	Cheran College of Engineering, Karur	Crop Yield Prediction Using Deep XGBOOST Algorithm		IC3MEEAS – 2022
30 <sup>th</sup> & 31 <sup>st</sup> July 2022	Kristu Jyoti College of Management and	Weather Forecast and Rainfall Prediction in		ICMCTT – II

	Technology, Kerala	Time Series Analysis using Deep Learning		
9 <sup>th</sup> & 10 <sup>th</sup> November 2022	Sri Sai Ram Engineering College, Chennai	A Study on Varicose Vein into Ulcer		ICCST 2022
23 <sup>rd</sup> & 24 <sup>th</sup> March 2023	Velammal Institute of Technology, Chennai	A Cognitive edge architecture for the sharing economy based on blockchain and IoT in a smart city		ICA5NT 2023
9 <sup>th</sup> May 2023	Grace College of Engineering, Tuticorin	Assessment of Congenital Heart Disease using Decision Tree Algorithm		NCECE-2023
29 <sup>th</sup> and 30 <sup>th</sup> September 2023	PSN College of Engineering and Technology, Tirunelveli	Blockchain Technology		ICITCC 2023
30 <sup>th</sup> April 2024	Grace College of Engineering, Tuticorin	Bitcoin price Prediction		NCECE-2024

**PAPERS PUBLISHED IN JOURNAL :**

<b>Title of the Paper</b>	<b>Authors</b>	<b>Name of the Journal</b>	<b>Volume Number &amp; Page Number</b>	<b>ISBN/ISSN if any</b>	<b>Year of Publication</b>
A Survey of an Adaptive Selective Verification: An Efficient Adaptive Countermeasure to Thwart DOS Attacks	S. Abarna & A. Muthulakshmi	International Journal of Research in Engineering and Advanced Technology	Volume 1, Issue 5	ISSN 2320 – 8791,	October-November 2013
Discovering Patterns of Human Interaction in Meetings using Tree-Based Mining	S. Abarna	International Journal of Innovative Research in Computer and Communication Engineering	Vol.2, Special Issue 1	ISSN (Print): 2320-9798	March 2014
Precise Segmentation of Vessels from MRA Brain Images based on Neural Algorithm	Ms. S. Abarna & Mr. M. Krishna Kumar	International Journal of Computer science and Engineering	part-1	ISSN (Print): 2348-8549	February 2017
Android and Web based electricity monitoring and controlling using IoT and Flex sensor	Mr.S.Sabharinath ,Mr. B.Satish kumar, Mr.B.Kottalaraja & Ms.S.Abarna	International Journal of Computer science and Engineering	part-1	ISSN (Print): 2348-8387	March 2017

based Glove & Embedded System					
Android and Web based electricity monitoring and controlling using IoT and Embedded System	Mr.S.Sabharinath , Mr. B.Satish kumar,Mr.M. Manikandan& Ms.S.Abarna	International Journal of Engineering and Techniques	part-2, Special Issue	ISSN (Print): 2395-1303	March 2017
Fuzzy Identity and Attribute based Encryption for fine grained access control of Encrypted Data	Mrs. K. Meena & Ms. S. Abarna	International Journal of Modern Trends in Engineering and Research	Volume 05, Issue 04	ISSN (Print): 2393-8161	April 2018
Five Finger Robotic hand used for Hand Assisted Laparoscopic Surgery	Ms .S. Abarna & Mr. M. Krishna Kumar	International Journal of Advanced science and Engineering Research	Volume 03, Issue 01	ISSN : 2455-9288	April 2018
Attribute-based Identity Encryption for Fine Grained Access Control Scheme using Encrypted Data of Fuzzy Techniques	Ms.S.Abarna & Mrs. K. Meena	International Journal of Scientific Research and Innovations	VIII(2018)1 4-21	ISSN:2455-7579, Engineering Digest	May 2018
Efficient way to store & retrieve data in an Industrial IoT in cloud computing	Mrs. A. Ancy Juliet & Ms.S.Abarna	International Journal of Recent trends in Engineering and Research	Special Issue, 625-631	ISSN:2455-1457,	March 2019
Research on Deep Learning Techniques In Breaking Text-Based Captcha And Designing Image-Based Captcha	Mrs. V. Ashika Priscilla & Ms.S.Abarna	International Journal of Science and Innovative Engineering & Technology	Volume 1	ISBN 978-93-81288-184	May 2019
Action Recognition in video using backpropogation	Ms. S. Abarna & Mr. M. Krishna Kumar	International Journal of Analytical and Experimental Modal Analysis	Volume 12, Issue 12	ISSN No: 0886 -9367	December 2020
JeKa – The intelligent Chatbots using Various Algorithms	Ms. S. Abarna, E. Jeremiah & S. Karthik	International Journal of Scientific Research in Science and Technology	Volume 9, Issue 1, Page No 855-863	Print ISSN: 2395-6011   Online ISSN: 2395-602X	April 2021
Detection of Changes in Earth	Ms. S. Abarna, S. Jabiya,	International Journal of	Volume 10, Issue 4,	Print ISSN: 2319-5940	April 2021

Surface using Satellite Image	A. Karthiga, M. Nandhini & S. Princy	Advanced Research in Computer and Communication Engineering	Page No 61-64	Online ISSN: 2278-1021	
Crop Yield Prediction Using Deep XGBOOST Algorithm	Ms. S. Abarna & P. Ganesh Priya	International Journal of Engineering Technology and Management Sciences (IJETMS),	Volume 6, Issue 5, Page No 297-304	ISSN: 2581-4621, DOI:10.46647/ijetms.2022.v06i05.043	August-September 2022
A Study on Varicose Vein into Ulcer	V. Rajathi, A. Chinnasamy & S. Abarna	Scopus ID: 58128294100			March 2023
Predicting Heart Disease and Diabetes	S. Arockia Nisha & Ms. S. Abarna	International Journal of Scientific Research in Engineering and Technology (IJSREM)	Volume 8, Issue 2, Page No 1 to 4	ISSN: 2582-3930, DOI: 10.55041/IJSREM28857	February 2024

#### **WORKSHOPS ATTENDED :**

<b>Workshop Title</b>	<b>Venue</b>	<b>Date</b>	<b>Duration</b>
Android Application Development - A Practical Approach	EASA College of Engineering and Technology, Coimbatore	30 & 31 <sup>st</sup> January 2014	Two days
Cloud Infrastructure	Nadar Saraswathi College of Engineering and Technology, Theni	26 <sup>th</sup> February 2016	One day
PHP and MYSQL	K.S.Rangasamy College of Technology, Namakkal	8 & 9 <sup>th</sup> March 2016	Two days
Applications of Machine Learning in 5G Wireless Communication: A research Perspective	Mahendra Engineering College, Salem	11 <sup>th</sup> February 2020	One day
Cyber Security	Sri Venkateswara College of Engineering and Technology, Chittoor, Andhra Pradesh	8 & 9 <sup>th</sup> June 2020	Two days
Outcome Based Education and Accreditation	Anna University, Chennai	20 <sup>th</sup> October 2020	One day
Basics of Research	Indore School of Social Work, Indore, Madhya Pradesh	13 <sup>th</sup> May 2021	One day
Research Publication in Engineering and Technology – Elsevier	Loyola –ICAM College of Engineering and Technology, Chennai	27 <sup>th</sup> August 2021	One day
Applications of Deep Learning	Sri Sivasubramaniya Nadar College	10 <sup>th</sup> to 12 <sup>th</sup>	Three days

in Computer Vision	of Engineering, Chennai	February 2022	
Designing and Modelling of IoT, AI & ML Systems	AICTE, ATAL Academy	1 <sup>st</sup> to 5 <sup>th</sup> August 2022	Five days
Edge Computing and its Applications	Sri Sivasubramaniya Nadar College of Engineering, Chennai	26 <sup>th</sup> & 27 <sup>th</sup> August 2022	Two days
IPR Awareness Program	RVS College of Engineering and Technology, Coimbatore	30 <sup>th</sup> August 2022	One day
Training on IoT using Node MCU & Thingspeak	Study World College of Engineering, Coimbatore	31 <sup>st</sup> October 2022	One day
Cyber Security for Operational Technology Systems	Sri Krishna College of Technology, Coimbatore	24 <sup>th</sup> to 28 <sup>th</sup> April 2023	Five days
Mystic World of Data Science	Karpagam College of Engineering, Coimbatore	18 <sup>th</sup> August 2023	One day
Building Computer Vision Modules with Python	Karpagam College of Engineering, Coimbatore	5 <sup>th</sup> September 2023	One day
Full Stack Web Development	Karpagam College of Engineering, Coimbatore	15 <sup>th</sup> September 2023	One day
Edge AI: Future of Next-Gen AI for Engineering Applications	Karpagam College of Engineering, Coimbatore	21 to 22 <sup>nd</sup> September 2023	Two days
Machine Learning using Python	PET Engineering College, Vallioor	26 <sup>th</sup> September 2023	One day
Android Application Development	Karpagam College of Engineering, Coimbatore	27 <sup>th</sup> September 2023	One day
Ethical Hacking and Cyber Security	Sree Sakthi Engineering College, Coimbatore	7 <sup>th</sup> October 2023	One day
Embedded Systems and IoT Technologies	Mangayarkarasi College of Engineering, Madurai	12 <sup>th</sup> October 2023	One day
Raspberry PI using Cloud Services	Mangayarkarasi College of Engineering, Madurai	28 <sup>th</sup> October 2023	One day
ChatGPT & AI Tools	Skill Nation	28 <sup>th</sup> December 2023	One day
AI- Augmented Scientific Writing and Publishing	Vardhaman College of Engineering, Hyderabad	14 <sup>th</sup> to 16 <sup>th</sup> February 2024	Three days
Development of Machine Learning Models: From Data to Decision	Karpagam College of Engineering, Coimbatore	12 <sup>th</sup> April 2024	One day



Copyright Filing for Research Work	D. Y. Patil College of Engineering and Technology, Kolhapur	5 <sup>th</sup> May 2024	One day
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**SEMINARS ATTENDED :**

Seminars Title	Venue	Date	Duration
Recent Research Challenges in Image Processing and Network security	Dr. Sivanthi Aditanar college of Engineering, Tiruchendur	19 <sup>th</sup> December 2012	One day
Emerging Trends in Green Networking Technologies	National Engineering College, Kovilpatti	8 <sup>th</sup> March 2013	One day
Recent Advances in emerging Trends in Life Science Research in BIOCLOUD-Bioinformatics using Cloud Computing Technologies	National Engineering College, Kovilpatti	20 & 21 <sup>st</sup> September 2013	Two days
Computer Vision	Dr. Sivanthi Aditanar college of Engineering, Tiruchendur	8 & 9 <sup>th</sup> October 2013	Two days
Artificial Neural Network for solving Medical Diagnosis Problems	N.S.N College of Engineering and Technology, Karur	6 <sup>th</sup> February 2019	One day
Deep Learning for Medical Image Analysis - Challenges & Future	AAA College of Engineering and Technology, Sivakasi	29 & 30 <sup>th</sup> April 2019	Two days
Oracle DB, Query and Trends	Kings Engineering College, Chennai	8 <sup>th</sup> June 2020	One day
Impact of Climate Change on Human Health using Deep Learning Algorithms	Kongunadu College of Engineering and Technology, Trichy	10 <sup>th</sup> June 2022	One day
Securing the Digital Frontier: A Comprehensive Guide to Cyber Security	Chalapathi Institute of Engineering and Technology, Guntur	19 <sup>th</sup> & 20 <sup>th</sup> January 2024	Two days

**WEBINARS ATTENDED :**

Webinars Title	Venue	Date	Duration
Challenges in Integrating Nano Sensors to IoT platform	Chennai Institute of Technology, Chennai	4 <sup>th</sup> May 2020	One day
Hangout with Successful Start Ups	Chennai Institute of Technology, Chennai	5 <sup>th</sup> May 2020	One day
India First Leadership Talk	UGC Broadcasted Chief Innovation Officer, MHRD's Innovation Cell	9 <sup>th</sup> May 2020	One day
How the teachers should be ready to handle post pandemic challenges	Chennai Institute of Technology, Chennai	12 <sup>th</sup> May 2020	One day
Introduction to Image Quality Measures	Chennai Institute of Technology, Chennai	13 <sup>th</sup> May 2020	One day
Art of Writing and Publishing Research Paper for High	J. K. K. Nataraja College of Engineering and Technology,	15 <sup>th</sup> May 2020	One day

Indexed Journals	Namakkal		
Internet of Things(IoT) Technologies for SMART CITIES	SCAD College of Engineering and Technology, Cheranmahadevi	15 <sup>th</sup> May 2020	One day
Leadership Talk	Praj Industries Limited & Chief Innovation Officer, MHRD's Innovation Cell	16 <sup>th</sup> May 2020	One day
Autonomous Vehicles	Vimal Jyothi Engineering College, Kannur	16 <sup>th</sup> May 2020	One day
Green Building Technology	Chennai Institute of Technology, Chennai	21 <sup>st</sup> May 2020	One day
How to be an Excellent Online Tutor	Unitieup	21 <sup>st</sup> May 2020	One day
Leadership Talk	Mahindra Electric Mobility Limited & Chief Innovation Officer, MHRD's Innovation Cell	23 <sup>rd</sup> May 2020	One day
Enhancing the Power within	Dr. Sivanthi Aditanar College of Engineering, Tiruchendur	23 <sup>rd</sup> May 2020	One day
Identification of Internet Suspect Criminals using Forensic Field True Traveller Kit	Francis Xavier Engineering College, Tirunelveli	27 <sup>th</sup> May 2020	One day
Leadership Talk	Indian Civilization & History & Chief Innovation Officer, MHRD's Innovation Cell	30 <sup>th</sup> May 2020	One day
Experimental learning using Virtual Labs, and jobs of the future	Unitieup	30 <sup>th</sup> May 2020	One day
Revised Accreditation Framework (RAF) of NAAC: An awareness webinar for faculty members of Higher Education Institutions	PSNA College of Engineering and Technology, Dindigul	30 <sup>th</sup> May 2020	One day
IoT – What a Commoner needs out of it?	Jeppiaar Engineering College, Chennai	1 <sup>st</sup> June 2020	One day
Overcoming Challenges in taking online classes	Jeppiaar Engineering College, Chennai	2 <sup>nd</sup> June 2020	One day
Blockchain and Bitcoins	Francis Xavier Engineering College, Tirunelveli	3 <sup>rd</sup> June 2020	One day
IPR – An asset for Professionals	Dr. N. G. P Institute of Technology, Coimbatore	5 <sup>th</sup> June 2020	One day
Patentability and Industrial Design	Dr. N. G. P Institute of Technology, Coimbatore	5 <sup>th</sup> June 2020	One day
Introduction to Blockchain Technology	Arasu Engineering College, Kumbakonam	6 <sup>th</sup> June 2020	One day
Leadership Talk	Co-Founder and Director Elephant Design & Chief Innovation Officer, MHRD's Innovation Cell	6 <sup>th</sup> June 2020	One day
Introduction to Multi Criteria Decision Making Approach	Rajalakshmi Engineering College, Chennai	9 <sup>th</sup> June 2020	One day

Big Data Powering AI and Data Stream Processing	Sathyabama Institute of Science and Technology, Chennai	11 <sup>th</sup> & 12 <sup>th</sup> June 2020	Two days
Web Application Security	Loyola Institute of Technology, Chennai	12 <sup>th</sup> June 2020	One day
How to Control the Restless Mind	Chennai Institute of Technology, Chennai	12 <sup>th</sup> June 2020	One day
Embrace Conflicts In Challenging World	St. Joseph's College of Engineering, Chennai	12 <sup>th</sup> June 2020	One day
Generative Transformers in Natural Language Processing	St. Joseph's College of Engineering, Chennai	13 <sup>th</sup> June 2020	One day
Leadership Talk	Secretary Ministry of Social Justice & Empowerment & Chief Innovation Officer, MHRD's Innovation Cell	13 <sup>th</sup> June 2020	One day
Leadership Talk	Akshay Patra Foundation & Chief Innovation Officer, MHRD's Innovation Cell	18 <sup>th</sup> June 2020	One day
Emerging Trends in IoT Sensors	Sri Ranganathar Institute of Engineering and Technology, Coimbatore	22 <sup>nd</sup> June 2020	One day
Research Issues in Medical Image Processing	St. Mother Theresa Engineering College, Vagaikulam	25 <sup>th</sup> June 2020	One day
Scope of Machine Learning in Automotive Industry	Francis Xavier Engineering College, Tirunelveli	25 <sup>th</sup> June 2020	One day
Cloud Computing-Serverless Architecture: Function as a Service	Panimalar Engineering College, Chennai	25 <sup>th</sup> June 2020	One day
Leadership Talk	Motivational Speaker & Chief Innovation Officer, MHRD's Innovation Cell	27 <sup>th</sup> June 2020	One day
Energy Efficiency in Wireless Sensor Network	Francis Xavier Engineering College, Tirunelveli	30 <sup>th</sup> June 2020	One day
Leadership Talk	CEO- Prasar Bharti & Chief Innovation Officer, MHRD's Innovation Cell	11 <sup>th</sup> July 2020	One day
Employability Post COVID Era: Expectation of Industry Vs Education System's Preparedness	ASSOCHAM INDIA, ISHRAE Pune chapter, New Delhi	11 <sup>th</sup> July 2020	One day
Uses of Web & Application Server in Industry	Vemana Institute of Technology, Bengaluru	3 <sup>rd</sup> August 2020	One day
Biometric Recognition Techniques for Authentication in Smart Cities	National Taiwan University of Science and Technology, Taipei, Taiwan	3 <sup>rd</sup> August 2020	One day
The Role & Impact of AI, Machine Learning and Deep Learning in Engineering Applications	Sri sairam Engineering College, Chennai	24 <sup>th</sup> October 2020	One day
Fast-Track your career with cloud	Panimalar Engineering College, Chennai	30 <sup>th</sup> July 2021	One day
Conceptualizing Hypotheses	Karpagam Institute of Technology,	27 <sup>th</sup> August	One day

Developing a Competitive Proposal for Research Funding	Coimbatore	2021	
Getting Started with Deep Learning	Government Engineering College, Rajkot	16 <sup>th</sup> October 2021	One day
Machine Learning	Government Engineering College, Rajkot	22 <sup>nd</sup> October 2021	One day
Practical Debugging for Data Science	Government Engineering College, Rajkot	20 <sup>th</sup> November 2021	One day
Intellectual Property Rights	Intellectual Property Office, India	28 <sup>th</sup> February 2022	One day
Machine Learning using Python	Simats School of Engineering, Chennai	26 <sup>th</sup> May 2022	One day
Cloud Computing-Tools, Technologies and Research Growth	Simats School of Engineering, Chennai	27 <sup>th</sup> May 2022	One day
Data Visualization using SEABORN Package	Simats School of Engineering, Chennai	30 <sup>th</sup> May 2022	One day
Industrial Applications of Machine Learning and Challenges	Government Engineering College, Rajkot	30 <sup>th</sup> July 2022	One day
Filing a National and International Patent and Understanding the Procedure for the Same	Shri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh	6 <sup>th</sup> August 2022	One day
Computer Vision for Self Driving Cars	Chalapathi Institute of Engineering and Technology, Guntur	17 <sup>th</sup> August 2022	One day
Hands on Artificial Intelligence and Data Analytics	Chalapathi Institute of Engineering and Technology, Guntur	25 <sup>th</sup> August 2022	One day
Effective Methodology for Research paper writing	V.S.B. Engineering College, Karur	3 <sup>rd</sup> September 2022	One day
Introduction to Cyber Security	Chalapathi Institute of Engineering and Technology, Guntur	7 <sup>th</sup> September 2022	One day
Guest Lecture on DBMS	Chalapathi Institute of Engineering and Technology, Guntur	21 <sup>st</sup> September 2022	One day
Role of IoT in Industry and Academia	Kongunadu College of Engineering and Technology, Trichy	28 <sup>th</sup> September 2022	One day
Mulsemmedia in 360 VR	Study World College of Engineering, Coimbatore	28 <sup>th</sup> October 2022	One day
Healthcare Informatics	Study World College of Engineering, Coimbatore	1 <sup>st</sup> November 2022	One day
Career Opportunities in Communication Systems- Industry Perspective	Kumaraguru College of Technology, Coimbatore	11 <sup>th</sup> April 2023	One day
Cyber Security challenges for common man through Wind Turbine Generators	Institution of Engineers, Tiruchirappalli	11 <sup>th</sup> April 2023	One day
Advancements and Opportunities in Defence Technology for Engineering/ Science Graduates	Kumaraguru College of Technology, Coimbatore	15 <sup>th</sup> April 2023	One day

Performance of Industry Sector	Institution of Engineers, Tiruchirappalli	18 <sup>th</sup> April 2023	One day
Technical Paper Writing	Central Institute of Technology, Kokrajhar	29 <sup>th</sup> April 2023	One day
Machine Intelligence: Happenings, Hopes and Hypes	Study World College of Engineering, Coimbatore	31 <sup>st</sup> August 2023	One day
Role of 5G in the Enhanced Communication of Wireless Sensor Networks	Study World College of Engineering, Coimbatore	22 <sup>nd</sup> September 2023	One day
Environmental Sensor Technologies to Smart Cities	Institution of Engineers, Tiruchirappalli	31 <sup>st</sup> October 2023	One day
Improving Software Quality: An Industrial Case Study	Study World College of Engineering, Coimbatore	26 <sup>th</sup> February 2024	One day
What's the future of generative AI?	Study World College of Engineering, Coimbatore	28 <sup>th</sup> February 2024	One day

**FDP ATTENDED :**

FDP Title	Venue	Date	Duration
Contemporary Teaching Techniques-Revisiting Education Pedagogy	Chandy College of Engineering, Mullakadu	29th June 2015	One day
Cummulative Association of Humanities and Science	Chandy College of Engineering, Mullakadu	19 <sup>th</sup> January 2016	One day
Research Methodologies	Chandy College of Engineering, Mullakadu	30 <sup>th</sup> January 2016	One day
Data Science and Big Data Analytics	Jayaraj Annapackiam CSI College of Engineering, Nazareth	23 <sup>rd</sup> June 2017	One day
IoT using ARDUINO and RASPBERRY PI	SRM Institute of Science and Technology, Chennai	26 <sup>th</sup> & 27 <sup>th</sup> November 2018	Two days
Overview of OBE & NBA process under Margdarshan scheme for share and Mentor Institutions	Francis Xavier Engineering College, Tirunelveli	18 <sup>th</sup> to 23 <sup>rd</sup> November 2019	Six days
Data Science and Cloud Computing	Chebrolu Engineering College, Guntur	18 <sup>th</sup> to 22 <sup>nd</sup> May 2020	Five days
Role of IoT, Embedded, Electric Vehicle & Power Electronic Converters for smart world	St. Joseph's College of Engineering, Chennai	18 <sup>th</sup> to 22 <sup>nd</sup> May 2020	Five days
Principles of Management	Panimalar Institute of Technology, Chennai	18 <sup>th</sup> to 22 <sup>nd</sup> May 2020	Five days
Data Structures(CS8391)	Velammal Engineering College, Chennai	25 <sup>th</sup> to 29 <sup>th</sup> May 2020	Five days

Data Science using python	Mohamed Sathak A J College of Engineering, Chennai	25 <sup>th</sup> to 30 <sup>th</sup> May 2020	Six days
Artificial Intelligence & Machine Learning	Vaagdevi College of Engineering, Hyderabad	29 <sup>th</sup> & 30 <sup>th</sup> May 2020	Two days
Angular and Business Intelligence	St. Joseph's Institute of Technology, Chennai	30 <sup>th</sup> & 31 <sup>st</sup> May 2020	Two days
Big Data Engineering	Kings Engineering College, Chennai	1 <sup>st</sup> to 5 <sup>th</sup> June 2020	Five days
Research Challenges in Computer Science and Engineering	Ramachandra College of Engineering, Eluru	1 <sup>st</sup> to 5 <sup>th</sup> June 2020	Five days
Data Science with R Programming for Data Analytics	Sharad Institute of Technology College of Engineering Yadrav-Ichalkaranji, Maharashtra	4 <sup>th</sup> to 9 <sup>th</sup> June 2020	Six days
Machine Learning and Data Science for Engineering Applications	Shadan College of Engineering and Technology, Hyderabad	5 <sup>th</sup> to 10 <sup>th</sup> June 2020	Six days
Artificial Intelligence & Data Science	Oriental Institute of Science & Technology, Bhopal	10 <sup>th</sup> to 14 <sup>th</sup> June 2020	Five days
Advanced Networking Technologies	Shadan College of Engineering and Technology, Hyderabad	13 <sup>th</sup> to 15 <sup>th</sup> June 2020	Three days
CS8711-Cloud Computing	St. Xavier's Catholic College of Engineering, Nagercoil	15 <sup>th</sup> to 20 <sup>th</sup> June 2020	Six days
Latest Trends and Challenges in IT Industry	R.M.D Engineering College, Kavaraipettai	15 <sup>th</sup> to 20 <sup>th</sup> June 2020	Six days
A DevOps approach: Docker in Blockchain	AMC Engineering College, Bangalore	17 <sup>th</sup> to 21 <sup>st</sup> June 2020	Five days
Cyber Security	Sreyas Institute of Engineering and Technology, Hyderabad	19 <sup>th</sup> to 24 <sup>th</sup> June 2020	Six days
Applications of Machine Learning and Deep Learning	Raj Kumar Goel Institute of Technology, Ghaziabad	24 <sup>th</sup> to 28 <sup>th</sup> June 2020	Five days
Big Data Analytics and Data Visualization	St. Joseph's Institute of Technology, Chennai	28 <sup>th</sup> & 29 <sup>th</sup> June 2020	Two days
CS8592-Object Oriented Analysis and Design	Velammal Engineering College, Chennai	29 <sup>th</sup> June to 3 <sup>rd</sup> July 2020	Five days
Future of Education and Research	Syed Ammal Engineering College, Ramanathapuram	29 <sup>th</sup> June to 5 <sup>th</sup> July 2020	Seven days
Cloud Computing With AWS	Mahaveer Institute of Science & Technology, Hyderabad	30 <sup>th</sup> June to 4 <sup>th</sup> July 2020	Five days
Data Handling and Data Visualization using Python	Government College of Engineering, Tirunelveli	6 <sup>th</sup> to 10 <sup>th</sup> July 2020	Five days
Evolving Trends in Communication and Networking	St. Joseph's College of Engineering, Chennai	6 <sup>th</sup> to 10 <sup>th</sup> July 2020	Five days
Recent Trends in Computer Science & IT	Raj Kumar Goel Institute of Technology, Ghaziabad	13 <sup>th</sup> to 17 <sup>th</sup> July 2020	Five days
MATLAB and its Applications in Engineering using Machine Learning & Deep Learning	G Pulla Reddy Engineering College, Kurnool, Andhra Pradesh	13 <sup>th</sup> to 17 <sup>th</sup> July 2020	Five days
Recent trends in Information Technology	St. Joseph's Institute of Technology, Chennai	13 <sup>th</sup> to 18 <sup>th</sup> July 2020	Six days

Artificial Intelligence Applications through Machine Learning	Balaji Institute of Technology & Science, Warangal, Telangana	14 <sup>th</sup> to 18 <sup>th</sup> July 2020	Five days
Effective Teaching Pedagogy	Inderprastha Engineering College, Ghaziabad, Uttar Pradesh	20 <sup>th</sup> to 22 <sup>nd</sup> July 2020	Three days
Contemporary Research Methodology and LaTeX for Research Documentation	GSSS Institute of Engineering & Technology for Women, Mysuru, Karnataka	20 <sup>th</sup> to 24 <sup>th</sup> July 2020	Five days
Research Trends In Image Processing With Machine Learning And Deep Learning	G Pulla Reddy Engineering College, Kurnool, Andhra Pradesh	21 <sup>st</sup> to 25 <sup>th</sup> July 2020	Five days
OBM752-Hospital Management	St. Joseph's Institute of Technology, Chennai	27 <sup>th</sup> July to 3 <sup>rd</sup> August 2020	Eight days
Blockchain and its applications	Ajay Kumar Garg Engineering College, Ghaziabad	10 <sup>th</sup> to 14 <sup>th</sup> August 2020	Five days
Computer Networks Simulation using NS2	Mahatma Gandhi Institute of Technology, Hyderabad	10 <sup>th</sup> to 14 <sup>th</sup> August 2020	Five days
Recent Trends in IoT and Cyber Security	St. Joseph's College of Engineering, Chennai	10 <sup>th</sup> to 14 <sup>th</sup> August 2020	Five days
Research Proposal: Writing and Opportunities	Government College of Technology, Coimbatore	6 <sup>th</sup> to 8 <sup>th</sup> January 2021	Three days
Cyber Security	Government College of Technology, Coimbatore	19 <sup>th</sup> to 23 <sup>rd</sup> January 2021	Five days
Advanced Trends in Biomedical Research using Deep learning Techniques	Mepco Schlenk Engineering College, Sivakasi	17 <sup>th</sup> to 21 <sup>st</sup> May 2021	Five days
GE8151-Problem Solving and Python Programming	Madras Institute of Technology, Anna University, Chennai	17 <sup>th</sup> to 22 <sup>nd</sup> May 2021	Six days
CS8791-Cloud Computing	LICET : Loyola-ICAM College of Engineering and Technology	24 <sup>th</sup> to 29 <sup>th</sup> May 2021	Six days
CS8082-Machine Learning Techniques	Sri Sairam Engineering College, Chennai	7 <sup>th</sup> to 12 <sup>th</sup> June 2021	Six days
<b>ATAL</b> -IOT in 5G Technology	Silicon Institute of Technology, Bhubaneswar, Odisha	21 <sup>st</sup> to 25 <sup>th</sup> June 2021	Five days
CS8591-Computer Networks	Madras Institute of Technology, Anna University, Chennai	21 <sup>st</sup> to 26 <sup>th</sup> June 2021	Six days
<b>ATAL</b> -Data Science	Indian Institute of Information Technology, Una	1 <sup>st</sup> to 5 <sup>th</sup> July 2021	Five days
<b>ATAL</b> -Software Testing: Emerging Trends	Manipal University, Jaipur	26 <sup>th</sup> to 30 <sup>th</sup> July 2021	Five days
<b>TN State Govt</b> -Advanced Trends and Applications in Mobile Ad Hoc Networks	Government College of Engineering, Thanjavur	26 <sup>th</sup> to 30 <sup>th</sup> July 2021	Five days
Block Chain and Crypto Currency	Sri Sairam Institute of Technology, Chennai	9 <sup>th</sup> to 13 <sup>th</sup> August 2021	Five days
Deep Learning in Healthcare	Sri Sairam Institute of Technology, Chennai	25 <sup>th</sup> to 29 <sup>th</sup> October 2021	Five days
CS8085- Social Network Analysis	Karpagam Institute of Technology, Coimbatore	20 <sup>th</sup> to 25 <sup>th</sup> December 2021	Six Days
GE8075-Intellectual Property Rights	Loyola-ICAM College of Engineering and Technology,	27 <sup>th</sup> December 2021 to 3 <sup>rd</sup>	Six days

	Chennai	January 2022	
5G Wireless Communication Technology	IEEE India Council	28 <sup>th</sup> to 30 <sup>th</sup> July 2022	Three days
Applications of Machine Learning and Deep Learning using MATLAB	Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai	1 <sup>st</sup> to 7 <sup>th</sup> August 2022	Seven days
Amazon Web Services	GMR Institute of Technology, Rajam	22 <sup>nd</sup> to 27 <sup>th</sup> August 2022	Six Days
TN State Govt-Next Generation Cyber Security through Blockchain	Government College of Technology, Coimbatore	19 <sup>th</sup> to 23 <sup>rd</sup> September 2022	Five days
Foundations of Data Science	Dr. G. U. Pope College of Engineering, Sawyerpuram	23 <sup>rd</sup> to 24 <sup>th</sup> September 2022	Two Days
TN State Govt-Integrated Artificial Intelligence(AI) in Data Science and its Applications in Cloud	Government College of Technology, Coimbatore	6 <sup>th</sup> to 10 <sup>th</sup> March 2023	Five days
Emerging Trends in Artificial Intelligent Systems	Jain University	31 <sup>st</sup> March, 1 <sup>st</sup> , 2 <sup>nd</sup> , 8 <sup>th</sup> & 9 <sup>th</sup> April 2023	Five days
LaTeX - Migrate to LaTeX from word	Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology	4 <sup>th</sup> to 9 <sup>th</sup> April 2023	Six Days
Education 5.0	Dr. M.G.R. Educational and Research Institute, Chennai	15 <sup>th</sup> to 19 <sup>th</sup> May 2023	Five days
Advancement of Artificial Intelligence in Cyber Security	Ajay kumar Garg Engineering College, Ghaziabad	19 <sup>th</sup> to 23 <sup>rd</sup> June 2023	Five days
Artificial Intelligence and its Applications	Chalapathi Institute of Tehnology, Guntur	3 <sup>rd</sup> to 8 <sup>th</sup> July 2023	Six days
Emerging Technologies for Next Generation Networks	Kings Engineering College, Chennai	17 <sup>th</sup> to 22 <sup>nd</sup> July 2023	Six Days
IT3501-Full Stack Web Development & IT3511-Full Stack Web Development Lab	Jayaraj Annapackiam CSI College of Engineering, Nazareth	24 <sup>th</sup> to 27 <sup>th</sup> and 29 <sup>th</sup> July 2023	Five days
Recent Research Trends in Smart Technologies	Amity University, Kolkata	31 <sup>st</sup> July to 4 <sup>th</sup> August 2023	Five days
CS3501-Compiler Design	National Engineering College, Kovilpatti	31 <sup>st</sup> July to 5 <sup>th</sup> August 2023	Six Days
Modern Research Convergence in Next Generation Computing	Sri Krishna College of Engineering and Technology, Coimbatore	18 <sup>th</sup> to 22 <sup>nd</sup> December 2023	Five days



Emerging Technologies in Computer Science	Easwari Engineering College, Chennai	22 <sup>nd</sup> to 27 <sup>th</sup> January 2024	Six Days
Role of Bigdata and Cloud in the Era of Transformation	Gates Institute of Technology, Gooty	29 <sup>th</sup> January to 3 <sup>rd</sup> February 2024	Six Days
Python Programming with Django Framework for Building Web Applications	CMR Engineering College, Hyderabad	12 <sup>th</sup> to 16 <sup>th</sup> February 2024	Four days
Recent Trends and Challenges in Deep Learning for Advancing Computer Vision	VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad	26 <sup>th</sup> February to 1 <sup>st</sup> March 2024	Five days
Next Generation Artificial Intelligence	Vishwakarma Institute of Information Technology, Pune	11 <sup>th</sup> to 16 <sup>th</sup> March 2024	Six Days
Cognitive Computing for Smart Applications	Vishwakarma Institute of Information Technology, Pune	18 <sup>th</sup> to 22 <sup>nd</sup> March 2024	Five Days
Recent Trends in Artificial Intelligence	PSN College of Engineering and Technology, Tirunelveli	20 <sup>th</sup> to 24 <sup>th</sup> May 2024	Five Days
Generative AI Models and Applications of Machine Learning	Shri Vishnu Engineering College for Women (A), Bhimavaram	21 <sup>st</sup> to 25 <sup>th</sup> May 2024	Six Days

**STTP ATTENDED :**

STTP Title	Venue	Date	Duration
<b>AICTE-AQIS</b> Integrative Internet of Things and Deep Learning for Smart Healthcare(Series-I)	KPR Institute of Engineering and Technology, Coimbatore	19 <sup>th</sup> to 24 <sup>th</sup> October 2020	Six days
<b>AICTE-Research</b> Challenges and Applications of Internet of Things (IoT) in Smart Agriculture	Kongunadu College of Engineering and Technology, Trichy	30 <sup>th</sup> November to 5 <sup>th</sup> December 2020	Six days
<b>AICTE-</b> Innovative Teaching and Learning Methods for Inspiring Students	Sagi Rama Krishnam Raju Engineering College, Andhra Pradesh	18 <sup>th</sup> to 23 <sup>rd</sup> December 2020	Six days
<b>AICTE-</b> Artificial Intelligence and Applications	Marian Engineering College, Kerala	9 <sup>th</sup> to 14 <sup>th</sup> August 2021	Six days
<b>AICTE-ISTE Orientation/Refresher Programme-</b> Medical Data Analytics With Python	Anna University Regional Campus, Tirunelveli	4 <sup>th</sup> to 10 <sup>th</sup> January 2022	Six days
Foundations and Frontiers: A Research Perspective on Deep	Vardhaman College of	18 <sup>th</sup> to 22 <sup>nd</sup>	Five days

Learning Applications	Engineering, Hyderabad	December 2023	
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**BOOKS AUTHORED:**

Title of the Book	Authors	Publishers	ISBN/ISSN if any	Year of Publication
Big Data using Hadoop	Dr. A. V. K. Shanthi, V. V. Sivaramaraju, Dr. S. Sangeetha & Ms. S. Abarna	Scientific International Publishing House	ISBN 978-93-5625-315-5	June 2022
Data Structures and Algorithms	Dr. S. Umadevi, Dr. M. Prakash, S. Rajalakshmi & Ms. S. Abarna	Deccan International Academic Publishers	ISBN 978-81-962206-6-2	March 2023
Food Nutrition and Health	Mr. M. Krishna Kumar & Ms. S. Abarna	GCS Publishers	ISBN – 978-81-967671-4-3	April 2024

**PROJECT CERTIFICATES:**

Sl. No	Topic	Organizing Institution	Date	No. of Days
1.	Get Started with Figma	Coursera Project Network	8 <sup>th</sup> September 2023	One day
2.	Designing a Low Fidelity Prototype in Figma	Coursera Project Network	20 <sup>th</sup> October 2023	One day
3.	Work with Components in Figma	Coursera Project Network	16 <sup>th</sup> November 2023	One day
4.	Ethical Hacking Essentials	EC Council	20 <sup>th</sup> November 2023	One day
5.	Network Defense Essentials	EC Council	6 <sup>th</sup> April 2024	One day
6.	Digital Forensics Essentials	EC Council	17 <sup>th</sup> April 2024	One day
7.	SQL Injection Attacks	EC Council	25 <sup>th</sup> May 2024	One day

**RESOURCE PERSON APPRECIATION:**

Sl. No	Topic	Organizing Institution	Date	No. of Days
1.	Innovation Unleashed: Python success stories Explored	Grace College of Engineering, Tuticorin	30 <sup>th</sup> November 2023	One day
2.	The Intersection of Need and Solution: Attaining Product-Market and Problem-Solution Fit	Grace College of Engineering, Tuticorin	24 <sup>th</sup> February 2024	One day
3.	A Session on: How to Plan	Grace College of	28 <sup>th</sup> May 2024	One day

	for Start Up and Legal & Ethical Steps	Engineering, Tuticorin		
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**Publications:**

In Journals :

National : 0

International : 15

In Conferences :

National : 11

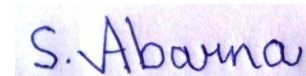
International : 26

**Any other relevant information:**

- Indian Patent Application No: 202141003159, “**Multiple Layered Communication with Optical Wireless Link using Integrated Wireless Sensor Networks**” 29<sup>th</sup> January, 2021
- Australian Patent Application No: 2021107057, “**Node discovery mechanism for IoT capillary Networks**” granted for 8 years from 24<sup>th</sup> August, 2021

**DECLARATION**

I solemnly, hereby declare that the above-mentioned information is true to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.



**Signature of the Faculty**