FACULTY PROFILE

Name of the Staff	: Dr. B. VIGNESHWARAN	
Official Address with E-mail ID	: Assistant Professor (Senior Grad	le)
	EEE Department,	
	National Engineering College	
	vigneshwaran@nec.edu.in	
Mobile Number	:+91 9894414572	
1.Personal Details		

Age	:34
Date of Birth	:06/10/1989
Sex & Marital Status	:Male / Married
Citizenship	: Indian

1.1. Qualification

Degree	Specialization	Class /CGPA	Month &Year of Passing	Institute/University
Ph.D	High Voltage Engineering	December 2019		Anna University, Chennai
M.E	High Voltage Engineering	I Class with Distinction/ 9.1	July 2013	National Engineering College, Kovilpatti.
B.E	Electrical and Electronics Engineering	I Class/82	April 2011	P.S.R Engineering College, Sivakasi.

1.2. Professional Experience:

Designation	Institution/Organization	Period	Nature of Duties
Assistant		15.07.2019 to	Teaching and
Professor	National Engineering College	Present	Research
(Senior Grade)			
Assistant	National Engineering College	13.05.2013 to	Teaching and
Professor	National Engineering College	14.07.2019	Research

2. Academic Achievements

2.1Short term Courses / Seminars / Conference/ WorkshopsAttended:

S.No	Title	Period	Venue
1.	FDP on Python for Data Science	Jul – Aug 2022	NPTEL Course, IIT Madras

	ATAL FDP on Artificial Intelligence: Applications of AI in Research and	05.07.2021 to	Council of Scientific
1	Applications of AI in Research and Development		and Industrial Research (CSIR), Bhopal-462026
3.	ATAL FDP on Artificial Intelligence	09.11.2020 to 13.11.2020	National Institute of Technology, Calicut
4.	AICTE – Margdarshan Scheme sponsored one week faculty development programme on Perspectives and Challenges in Outcome	13.07.2020 to 17.07.2020	National Institute of Technology, Trichy
5.	AICTE – Margdarshan Scheme sponsored one week faculty development programme on Empowering Teachers in 21 st Century	27 th April to 03 rd May 2019	National Institute of Technology, Trichy
6.	TEQIP – III sponsored one-week faculty development programme on Free/open source software for AI and Machine	01 st – 06 th October 2018	Thiagarajar College of Engineering, Madurai
7.	AICTE sponsored short term course on Recent trends in condition monitoring of power apparatus and systems	19 th – 24 th February 2018	Indian Institute of Technology, Madras
8.	Two Weeks AICTE sponsored faculty development programme on "Recent trends and Applications of High Voltage Engineering"	November	National Engineering College, Kovilpatti
9.	Training on protection relay – P14D	October 2017	National Engineering College, Kovilpatti
10.	Three days Quality improvement Programme on "Instructional design and delivery systems" conducted by NITTTR,		National Engineering College, Kovilpatti
11.	Three days Quality improvement Programme on "Technology Enabled Teaching Learning Process" conducted by	2017	National Engineering College, Kovilpatti
12.	Five days QIP-AICTE sponsored short term course on "Recent Advances in UHV transmission and distribution"	19 th – 23 rd December 2016	Indian Institute of Science (IISc), Bangalore
13.	Two Days National Workshop on "Image Processing using MATLAB"	September 2016	KPR Institute of Engineering and Technology, Coimbatore
14.	Anna University sponsored 7 Days FDTP Programme on "Applied Soft Computing Techniques"	7 Days 09 th – 15 th June 2016	MIT, Anna University, Chennai
15.	Workshop on "Hands on training on MATLAB toolboxes" – HTMT'16	2 days 03. 03. 2016 & 04. 03. 2016	National Engineering College, Kovilpatti
16.	IEEE CIS Sponsored Three days workshop on "Implementation of Soft Computing Techniques" ISCT'15	3 Days 5 th to 8 th August 2015	National Engineering College, Kovilpatti
	Two Weeks ISTE STTP Conducted by IIT Bombay "Pedagogy for Effective use of ICT in Engineering Education"	5 th – 7 th & 19 th – 21 st Jan 2015	Anna University of Technology, Tirunelveli

18.	DST sponsored "Empowering Indian Engineering Education for Global Expectations"	2 Days 7 th & 8 th November	National Engineering College, Kovilpatti
19.	Anna University sponsored 7 Days FDP Programme on " Electromagnetic Theory"	7 Days 12 th – 19 th June 2014	Kamaraj College of Engineering and Technology, Virudhunagar
20.	AICTE sponsored on day CD-Cell workshop on "Research Themes on High Voltage Technology"	1 Day 8 th February 2014	Indian Institute of Technology, Madras
21.	CSIR Sponsored One day National level Technical Seminar on "Recent Advancements in the field of High Voltage Testing Techniques"	1 Day 27 th December 2013	National Engineering College, Kovilpatti
22.	Three day workshop on "Implementation of Soft Computing Techniques Using MATLAB 2013"	3 Days 23 rd to 25 th October 2013	National Engineering College, Kovilpatti
23.	One day workshop on "High Voltage Insulation Testing, Measurement and Simulation Techniques"	1 Day 28 th September 2013	SASTRA University, Thanjavur.
24.	Three days workshop named " Nuances of Support Vector Machine"	3 Days 5 th to 7 th October 2012	National Institute of Technology, Trichy
25.	National Level Seminar titled " Speech and Audio Signal Processing"	2 Days 14 th and 15 th September	MepcoSchlenk Engineering College, Sivakasi
26.	Technical Seminar on "Media Security: A set- theoretic framework for Data Hiding" delivered by Dr. Gaurav Sharma, Professor, Department of Electrical and Computer Engineering, University of Rochester, USA.	1 Day 29 th August 2012	National Engineering College, Kovilpatti.
27.	Two Days National Level Technical Seminar on "Application of Artificial Intelligence Techniques in Renewable Energy Systems"	2 Days 20 th and 21 th January 2012	National Engineering College, Kovilpatti.
28.	Two Days National Level Technical Seminar on "Design, Modeling and Control of Electrical Machines using Artificial	2 Days 28 th and 29 th October 2011	National Engineering College, Kovilpatti.

2.2 Expert Lecture Delivered:

S.No	Title	Date	Venue	Participants
1.	Startup Ideas for Green Energy Technology	31 th March 2022	Karpagam Institute of Technology, Coimbatore	80
2	Innovative Research in Condition Monitoring of High Voltage Insulator using Deep Learning Algorithm	11 th March 2021	Karpagam Institute of Technology, Coimbatore	30
3	Recognition of High Voltage defective	06 th February	Dept of EEE, National Engg. College, Kovilpatti	60

	Insulator using Deep Learning Algorithm	2021		
4	Flashover characteristics on High Voltage Insulator	20 th February 2019	Dept of EEE, National Engg. College, Kovilpatti	30
5	Characterization of Solid Insulation, Simulation Tools for Field Computation and Partial discharge characterization and recognition	6 th – 19 th November 2017	Dept of EEE, National Engg. College, Kovilpatti.	35
6.	Introduction to COMSOL	1 st September 2015	Dept of EEE & Mechatronics, Kamaraj College of Engineering and Technology, Virudhunagar.	30
7	Introduction to High Voltage Laboratory	8 th December 2014	Dept of EEE, National Engg. College, Kovilpatti.	19
8	Electric field computation using ANSYS	11 th December 2014	Dept of EEE, National Engg. College, Kovilpatti.	19
9	Breakdown in Solid and Composite Dielectrics	12 th December 2014	Dept of EEE, National Engg. College, Kovilpatti.	19
10	Electric field computation using COMSOL	14 th December 2014	Dept of EEE, National Engg. College, Kovilpatti.	19

2.3 Industrial Training Attended:

S. No	Training Details	Period	Company Details
1.	Faculty Internship Training	24 th February – 01 st	Mohan Power Infrastructure
	on Partial Discharge	March 2022	Private Limited, Tirunelveli
	characteristics		
2.	Faculty Internship Training	01 st – 05 th March	TANGEDCO/M.E.D.C,
	on condition Monitoring of	2021	Kallikudi, Madurai Division
	Insulator		
3.	Faculty Internship Training	19 th – 23 rd	Shree AbiramiEnggineering
	on Transformer	November 2018	works, Chennai
	Manufacturing and Testing		
4.	Faculty Internship Training	05 th – 09 th June	Global Power Research
	on High Voltage Testing	2017	Institute, NABL Certified Lab,
	Techniques		Cuddalore

2.4 Online Certification Completed:

S. No	Certification	Period	Organizers	Remarks
1.	NPTEL Online Certification	July – August 2022	Indian Institute	Elite
	on " Python for Data Science"	(4 Weeks)	of Technology	
			(IIT), Madras	

2.	Data Processing and Feature Engineering with MATLAB	June 2022	Course	ra
3.	Exploratory Data Analysis with MATLAB	July 2021	Coursera	
4.	Neural Network and Deep Learning	Feb 2021	Course	ra
5.	MATLAB Online Certification on "MATLAB Programming Techniques"	June 2020	Mathworks Train	ning Services
6.	MATLAB Online Certification on "Machine Learning with MATLAB"	Apr 2020	Mathworks Train	ning Services
7.	Coursera Online Certification on "Electric Power Systems"	Mar 2020	The State Univ Newyo	-
8.	Coursera Online Certification on "Python Data Structures"	Dec 2019	University of	Michigan
9.	MATLAB Online Certification on "Deep Learning with MATLAB"	Oct 2019	Mathworks Training Services	
10.	Coursera Online Certification on "Programming for Everybody (Getting Started with Python)"	Oct 2019	University of Michigan	
11.	MATLAB Online Certification on "Deep Learning Onramp"	Sep 2019	Mathworks Train	ning Services
12.	NPTEL Online Certification on "Recent Advances in Transmission Insulators"	August – September 2018 (4 Weeks)	Indian Institute of Science (IISC), Bangalore	Elite
13.	NPTEL Online Certification on "Advances in UHV Transmission and Distribution"	July-September 2018 (8 weeks)	Indian Institute of Science (IISC), Bangalore	Elite
14.	NPTEL Online Certification on "Introduction to Research"	January-February 2016 (10 Hours)	Indian Institute of Technology (IIT), Madras	Elite

2.5. Event Organized:

S. No	Title of the Webinar/ Event	Date	Participants
1	Application of Artificial Intelligence Techniques in High Voltage Engineering	5.02.2021 and 6.02.2021	60
2	Condition Monitoring and Diagnosis Techniques for High Voltage Power Apparatus using Soft Computing Approaches	11.03.2022 and 13.03.2022	60

3. Research Achievements

3.1 International Journal Publication – SCI (With Impact Factor)

S.No.	Title of the Paper	Name of the Journal	Vol. No & Page No.	Year
1.	Development of Sustainable poly benzoxazine based organic-inorganic hybrid composites for high voltage insulator applications	Journal of Material Science: Materials in Electronics IF = 2.779	Accepted for Publication	2023
2.	Deep Learning Based Monitoring of High Voltage Transformer Using Partial Discharge Patterns	Intelligent Automation & Soft Computing IF = 2.334	Vol. 34, Issue 3	2022
3.	StatisticalReliabilityAnalysisonFlashoverCharacteristicsofCeramicDiscInsulator and PolymericInsulators	Arabian Journal for Science and Engineering IF = 1.647	Vol. 47, pp14627– 14639	2022
4.	Enhanced Particle Swarm Optimization based Convolution Neural Network hyperparameters tuning for Transformer failure diagnosis under Complex Data Sources	Electrical Engineering – Springer IF = 1.836	Vol. 104, pp2621– 2636	2022
5.	Recognition of Shed damage on 11kV Polymer Insulator using Bayesian Optimized Convolution Neural Network	Soft Computing – Springer IF = 3.643	Vol. 26, pp6857– 6869	2022
6.	Recognition of pollution layer location in 11 kV polymer insulators used in smart power grid using dual- input VGG Convolutional Neural Network	Energy Reports – Elsevier IF = 3.595	Vol. 7 pp. 7878– 7889	2021
7.	Partial discharge pattern analysis using multi class support vector machine to estimate cavity size and position in solid insulation	Soft Computing – Springer IF = 2.784	Vol. 24 pp. 10645–10656	2020
8.	Recognition of multiple partial discharge patterns by multi-class support vector machine using fractal image processing technique	IET Science, Measurement & Technology I.F = 1.336	Vol. 12, Issue 8, November 2018, pp. 1031 – 1038	2018
9.	Genetic Algorithm Based Automated Threshold Estimation in Translation Invariant Wavelet Transform for De-noising PD Signal	International Journal for Computation and Mathematics in Electrical and Electronic Engineering I.F = 0.440	Vol.34, No.4.: pp. 1252 - 1269	2015

10.	Analysis of Stress Control on33kVNon-CeramicInsulators using FEM	Taylor & Francis Electric Power System & Components I.F = 0.690	Vol.43, No.5. : pp. 566- 577	2015
11.	Support Vector Machine Based Denoising Technique for Removal of White Noise in Partial Discharge Signal	Taylor & Francis Electric Power System & Components I.F = 0.690	Vol.42, No.14. : pp. 1611-1622	2014
12.	Non Linear Support Vector Machine Based Partial Discharge Patterns Recognition Using Fractal Features	and Fuzzy System	Vol.27, No.5.: pp. 2649-2664	2014
13.	PartialDischargeSignalDenoisingusingAdaptiveTranslationInvariantWaveletTransform- OnlineMeasurement- Online		Vol.9, No.2: pp. 695-706	2014

3.2 International Journal Publication – (Without Impact Factor)

S.No	Title of the Paper	Name of the Journal	Vol. No & Page No.	Year
1.	Pollution Severity Diagnose on Solid Insulators using the Partial Discharge and Flashover Characteristics	International Journal of Innovative Technology and Exploring Engineering	Volume-9 Issue-4,	February 2020
2.	Development of Partial Discharge Signal in Ester Oil Impregnated Paper	International Journal of Innovative Technology and Exploring Engineering	Volume-9 Issue-4,	February 2020
3.	Measurement and Denoising of Partial Discharge Signal in High Voltage Cables using Wavelet Transform	International Journal of Engineering and Advanced Technology (IJEAT)	Volume-9 Issue-2,	December, 2019
4.	Influence of Electric field distribution on 33KV Non- ceramic Insulator with different shed configurations using 3D finite element Method	International Journal of Recent Technology and Engineering	Volume-8 Issue 4	November 2019
5.	Analysis of Partial Discharge Characteristics on Aged Mineral Oils	International Journal of Applied Engineering Research	Vol.10, No.20.: pp. 18260 - 18264	2015
6.	Extraction of Wave Parameters for Classification of Partial Discharge Signal Using Pearson Cross Correlation Method	Australian Journal of Electrical & Electronics Engineering (AJEEE)	Vol. 11, No. 1: pp. 105-118	2014

3.3 International Conference Publication

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year	Publication
1.	Computation of Electric Field distribution on 110 kV Polymer Insulator for Different Corona Ring Positions	International Conference on Artificial Intelligence and Smart Systems (ICAIS 2023)	JCT College of Engineering and Technology, Coimbatore	02 - 04, Feb 2023	Published in IEEE Xplore Digital Library.
2.	Transformer fault diagnosis based on the rule-based Duval method using Semi- Supervised Learning Approaches	International Conference on Computer Communication and Informatics (ICCCI 2023)	Sri Shakthi Institute of Engineering and Technology, Coimbatore	25-27, January 2023	Accepted for Publication
3.	Optimized Parameter selection of Induction Motor using Finite Element Method	International Conference on Computer Communication and Informatics (ICCCI 2023)	Sri Shakthi Institute of Engineering and Technology, Coimbatore	25-27, January 2023	Accepted for Publication
4.	Recognition of Partial Discharge Signatures using Convolution Neural Network	International Conference on Circuits, Communication, Control, and Computing (IC4 2022)	Ramaiah Institute of Technology, Bengaluru	21 - 23 Dec 2022	Published in IEEE Xplore Digital Library.
5.	Fuzzy Logic-Based Fault Recognition in HV Transformer	International Conference on Circuits, Communication, Control, and Computing (IC4 2022)	Ramaiah Institute of Technology, Bengaluru	21 - 23 Dec 2022	Published in IEEE Xplore Digital Library.
6.	Fuzzy Based Pollution Severity Prediction In Polymer Insulator Using Harmonic Analyzer	International Conference on Automation, Computing and Renewable Systems (ICACRS 2022)	Mount Zion College of Engineering and Technology, Pudukottai	13 - 15, Dec 2022	Published in IEEE Xplore Digital Library.
7.	Fuzzy Logic-Based Efficient Blending of Mineral and Vegetable Oil as Alternate Liquid Insulation	International Conference on Electronics, Communication, and Aerospace Technology (ICECA 2022)	RVS Technical Campus, Coimbatore	01 - 03 Dec 2022	Published in IEEE Xplore Digital Library.
8.	Recognition of Power Transformer Defect	International Conference on Electronics,	RVS Technical Campus, Coimbatore	01 - 03 Dec 2022	Published in IEEE Xplore Digital

	Identification	Communication,			Library.
	Based on Dissolved	and Aerospace			
	Gas Analysis using	Technology			
	Support-Vector	(ICECA 2022)			
	Machine	(
9.	Deep learning-	International	Poornima	23 & 24	https://link.s
	based condition	Conference on	College of	April 2022	pringer.com/
	monitoring of	Artificial	Engineering,	1	book/97898
	insulators in	Intelligence:	Jaipur		11970405
	overhead power	Advances and			
	distribution lines	Applications			
	using Enhanced Cat	(ICAIAA 2022)			
	Swarm				
	Optimization				
10	0	International	JCT College of	23-25,	Published in
	Electrocardiogram	Conference on	Engineering	February	IEEE Xplore
	Signal using Multi-	Artificial	and	2022	
	class Kernel	Intelligence and	Technology,		
	Support Vector	Smart Systems	Coimbatore		
	Machine	(ICAIS 2022)		05.05	
11		International	Sri Shakthi	25-27,	Published in
	quality assessment	Conference on	Institute of	January	IEEE Xplore
	using Machine	Computer	Engineering	2022	
	learning	Communication	and		
	techniques	and Informatics	Technology,		
17	. Investigation and	(ICCCI 2022) International	Coimbatore Sri Shakthi	25-27,	Published in
12	Performance of	Conference on	Institute of	January	IEEE Xplore
	Pollution Layer	Computer	Engineering	2022	TEEE APIOLE
	Location on 11kV	Communication	and		
	Polymer Insulator	and Informatics	Technology,		
		(ICCCI 2022)	Coimbatore		
13	. Support Vector	International	K.	16-18,	Published in
	Machine based	Conference on	Ramakrishna	February	IEEE Xplore
	Recognition of	Electrical,	n College of	2022	
	cavity size and	Electronics,	Engineering,		
	location in High	Information and	Tiruchirappall		
	Voltage Cable	Communication	i		
		Technologies			
		(ICEEICT 2022)			
14	. Recognition of	International	JCT College of	25-27,	Published in
	Single and	Conference on	Engineering	March	IEEE Xplore
	Multiple Partial	Artificial	and	2021	
	Discharge patterns	Intelligence and	Technology,		
	using Deep	Smart Systems	Coimbatore		
	Learning	(ICAIS 2021)			
	Algorithm				
15	0	International	KoneruLaksh	19 th & 20 th	Published in
	properties of	Conference on	maiah	April	Springer
	short-term aged	Smart Grids,	Education	2021	Book Series
	liquid dielectrics	Structure and	Foundation		
		materials			
1.0	Dim on -1 1''	(ICSGSM2021)	Datast	Dalarra	Country of the
16	Dimensionality	RTU TEQIP-III	Rajasthan	February	Springer

	Reduction and Feature Extraction using Image processing techniques for classification of Single Partial Discharge Patterns	Sponsored, 3 rd International Conference on Communication and Computational Technologies (ICCCT 2021),	Institute of Engineering and Technology, Jaipur	27 th & 28 th 2021	Book Series, 'Algorithms for Intelligent Systems'
17.	Investigation of Pollution severity and dry and characteristics on 11KV composite Insulator	2020 IEEE International Conference on Advances and Developments in Electrical and Electronics engineering (ICADEE 2020)	Karpagam College of Engineering, Coimbatore	December 10 th & 11 th 2020	Published in IEEE Xplore
18.	A Comprehensive Study and Prediction of Flashover Voltage of 11kV Bushing with Various Pollutions Using Support Vector Machine	IEEE International Conference on Innovation in Power and advanced computing technologies IPACT'19	VIT Vellore	22 th & 23 rd March 2019	Published in IEEE Xplore Digital Library.
19.	Experimental Study of Electrical Characteristics of High Voltage Bushing under Single Dry Band Conditions	IEEE International Conference on Electrical Energy systems ISEES'19	SSN College of Engineering, Chennai	21 st and 22 nd February 2019	Published in IEEE Xplore Digital Library.
20.	Prediction of flashover voltage on 11kV Composite Insulator using Kernel Support Vector Machine	International Conference on Soft Computing for Problem Solving – (Springer)	VIT Vellore	17 th – 19 th December 2018	Soft Computing for Problem Solving: SocProS 2018
21.	Investigation of Electrical characteristics of dielectric fluids using 3D finite element method	IEEE International Conference on Electrical Energy systems ISEES'18	SSN College of Engineering, Chennai	07 th and 09 th February 2018	Published in IEEE Xplore Digital Library.
22.	Electric Field Analysis of 11kV Socket End Fitting Composite Insulator	IEEE International Conference on Intelligent Systems and Control	Karpagam College of Engineering	05 th and 06 th January 2016	Published in IEEE Xplore Digital Library.

		ISCO'16			
23.	Investigation on Electrical Characteristics of Dielectric Fluids under Aging Phenomena	IEEE International Conference on Communication and Signal Processing- ICCSP'15	Adhiparasakthi Engineering College	02 nd – 04 th April 2015	Published in IEEE Xplore Digital Library.
24.	Modeling and Behaviour of Partial Discharge in Nano Composite Materials	IEEE International Conference on Circuits, Power and Computing Technologies, ICCPCT-2014	Noorul Islam Centre for Higher Education, Kumaracoil	21 st and 22 nd March 2014	Published in IEEE Xplore Digital Library.
25.	Employing Mathematical Morphological filters for Partial Discharge Signal Denoising.	IEEE International Conference on Circuits, Power and Computing Technologies, ICCPCT-2014	Noorul Islam Centre for Higher Education, Kumaracoil	21 st and 22 nd March 2014	Published in IEEE Xplore Digital Library.
26.	An Improved Threshold Estimation for Partial Discharge Signal Denoising Using Wavelet Transform	IEEE International Conference on Circuits, Power and Computing Technologies, ICCPCT-2013	Noorul Islam Centre for Higher Education, Kumaracoil	21 st and 22 nd March 2013	Published in IEEE Xplore Digital Library.

3.3 National Conference Publications

S.No	Title of the Paper	Organizer	Year
1	Modeling of Nano Composite polymer Dielectrics and Electrical Stress	AlagappaChettiar College of Engineering and Technology	2014
2	Analysis of Partial Discharge Signal using Advanced Wavelet Transform Techniques	Government College of Engineering, Tirunelveli.	2013
3	Enhancement the Electrical Properties of High Voltage Composite Insulators Using Grading Materials	Government College of Engineering, Tirunelveli.	2013

4. Membership in Professional bodies :

Name of Society	Grade of Membership
ISTE	Life Member

5. Courses taught:

Course Title	U.G. or P.G.
Circuit Theory, Electromagnetic Theory, AC Rotating Machines, Basic	U.G
Electrical and Electronics Engineering, High Voltage Engineering, Bio	
Medical Engineering, CAD of Electrical Apparatus, Linear Integrated	
Circuits and its Applications and Principles of Management, DC	
Machines and Transformer, Insulation Technology	
Pollution Performance of High Voltage power Apparatus, Advanced	P.G
Electromagnetic Fields, High Voltage Testing Techniques, Field	
computation and modeling of power apparatus	

6. Project Grants and Funding – Received:

6.1. Research Projects:

✓ Sanctioned a fund of Rs. 18, 90, 960/- under the scheme of Respond Basket 2022 from Indian Space Research Organization (ISRO), Department of Space, Government of India for the academic Year (2022 – 2023) - Ongoing.

Title:Denoising Algorithm for Noise reduction in MEMS Sensors Role: Co-Principal Investigator Duration: 2 Years

6.2. Student Projects:

S.No.	Name of the Project	Student and Mentor	Project ID & Funded Year	Amount Received
1	Computer Vision based Meat quality Checker	EEE STUDENTS 1.RAJA SEKARAN. E 2.MOHAMED ALTHAF WAHID. T.S 3.MOHAMED MUSAB. V.M 4.SUDALAIMANI. G 5.SUNDAR RAJ. P Mentor(s): Dr.B.Vigneshwaran M.E., Ph.D., Asst. Prof. (SG), EEE Dept. Mr.M.Sivapalanirajan, M.E., Asst. Prof., EEE Dept.	ID: NewGen IEDC /2022- 23/01/ 13.07.2022	Rs. 2,50,000/-
2	IoT Based Chick Incubator	EEE STUDENTS 1. JAGADISH.L 2. JEKHAN.J.S 3. PON SARAVANA KUMAR.S 4. ARIF NAUSHATH.M Mentor(s): Dr.R.V.Maheswari M.E., Ph.D., Professor, EEE Dept. Dr.B.Vigneshwaran M.E., Ph.D., Asst. Prof. (SG), EEE Dept.	ID: NewGen IEDC /2021- 22/01/ 06.10.2021	Rs. 2,50,000/-

3	Electrocardiogram	EEE STUDENTS		
	Based Human	1. GOMATHI ARASU.A		
	Authentication	2. GANESHKUMAR.M		
	(ECG-HA)	3. NAVEEN KUMAR.P	ID:	
		4. SELVAKUMAR.A	NewGen	Rs. 2,50,000/-
		Mentor(s):	IEDC	
		Dr.N.B.Prakash M.E., Ph.D.,	/2020-	
		Asso. Prof., EEE Dept.	21/01/	
		Dr.M.WilljuiceIruthayarajan	10.11.2020	
		M.E., Ph.D.,		
		Professor and Head, EEE		
		Dept.		
		Dr.B.Vigneshwaran M.E., Ph.D.,		
		Asst. Prof. (SG), EEE Dept.		

7. Patent Filed

S.No.	Title of Invention	Application Number	Date of Publication
1.	A device for Authenticating a Person	202241010734	04.03.2022

8. Supervisor Status (Guiding Research Scholars)

- ✓ Received Supervisor status under Anna University, Chennai on 14.11.2022.
- ✓ Supervisor Reference Number: **4030017**
- ✓ Supervisor Department: Electrical Engineering

9. Additional Responsibilities held

- EEE Newsletter (I/C)
- EDC Cell (Co-coordinator)
- ICT/ Virtual Lab/ Online Course (In-Charge)
- IEEE Student Chapter (Dept In-charge)
- ERP (Dept In-charge)
- Class In-charge and Tutor (IV Year Students)