

(An Autonomous Institution, Affiliated to Anna University, Chennai) Accredited by NAAC A+ Grade, NBA and listed Under, 12 (B) of the UGC Act,1956 Sivakasi - 626140, Virudhunagar (dt), Tamilnadu

News

LETTER



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Institute Vision and Mission

Vision

To contribute to the society through excellence in technical education with societal values and thus a valuable resource for industry and the humanity.

Mission

- To create an ambience for quality learning experience by providing sustained care and facilities.
- To offer higher level training encompassing both theory and practices with human and social values.
- To provide knowledge based services and professional skills to adapt tomorrow's technology and embedded global changes.

Department Vision and Mission

Vision

To be a technical hub of creating Electrical and Electronics Engineers with superior quality, human values and ethical views

Mission

- > To provide an excellent, innovative and comprehensive education in electrical and electronics engineering.
- To create a conducive learning environment and train the students in the latest technological development domain to enhance carrier opportunities
- To produce competent and disciplined engineers suitable for making a successful career in industry/research.

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FACULTY ACTIVITIES

NAME OF THE	NAME OF THE WORKSHOP/FDP	FDP/STTP	NAME OF THE INSTITUTE/INDUSTRY	DATE AND DURATION
FACULIY				(FROM – TO)
Dr.K.PUNITHA	Vehicular Ad-Hoc Networks(VANETS) & Internet of Things(IOT)	FDP	Vellore Institute of Technology	01.04.2023 to 03.04.2023
	Introduction to Machine Learning	NPTEL	IIT Madras	Jan to March 2023
	An Overview of Patents & Procedure for Protection	Workshop	RAMCO Institute of Technology	20.01.2023
	Research Innovations and Emerging Advances in Electrical Engineering	IFDP	Eswari Engineering College	05.01.2023 to 12.01.2023
	Solar Photovoltaics for Sustainable Future	International Webinar	Bharat Institute of Engineering and Technology and Indian Ceramic Society	24.12.2022
Dr R.ARUNA	Microprocessors and Microcontrollers	NPTEL	IIT Madras	January to April 2023
	National Intellectual Property Awareness Mission	Training Program	Government of India, Ministry of commerce and Industry	30.03.2023
	Integrated Artificial Intelligence (AI) in Data science and its Applications in cloud	FDP	Government College of Technology	06.03.2023 to 10.03.2023

	Research Innovations and Emerging Advances in Electrical Engineering	IFDP	Eswari Engineering College	05.01.2023 to 12.01.2023
	M2M &IoT Interface Design & Protocols for Embedded Systems	Coursera Course	University of Colorado Boulder	28.12.2022
	Introduction and Programming with IoT Boards	Coursera Course	Postech Pohang University of Science and Technology	15.12.2022
	Architecting Smart IoT Devices	Coursera Course	Eit Digital Co funded by the European Union	13.12.2022
	Architecting Smart IoT D evices	Coursera Course	EIT Digital	13.12.2022
Dr.M.ULAGANATHAN	Electric Vehicles Part I	FDP	IIT Madras	Jan to Feb 2023
	Electrical Vehicle Motors and Drives: Design Analysis and Validation	FDP	SRM Institute of Science and Technology	20.01.2023 to 25.01.2023
	Research Innovations and Emerging Advances in Electrical Engineering	IFDP	Eswari Engineering College	05.01.2023 to 12.01.2023
Dr.M.CARMEL SOBIA	NBA Accreditation and Teaching and Learning Engineering (NATE)	FDP	IIT Madras	Jan- Apr 2023
	Emerging Technologies on Biomedical Health care applications	FDP	Sathyabama Institute of Science and Technology	12.12.2022 to 17.12.2022
Ms S KRISHNAVENI	Integrated Artificial Intelligence (AI) in Data science and its Applications in cloud	FDP	Government College of Technology	06.03.2023 to 10.03.2023
	Research Innovations and Emerging Advances in Electrical Engineering	IFDP	Eswari Engineering College	05.01.2023 to 12.01.2023

Ms M KANIMOZHI	Integrated Artificial Intelligence (AI) in Data science and its Applications in cloud	FDP	Government College of Technology	06.03.2023 to 10.03.2023
Mr.T.RENGARAJ	Research Innovations and Emerging Advances in Electrical Engineering	IFDP	Eswari Engineering College	05.01.2023 to 12.01.2023
	An Overview of Patents and procedure for protection	Workshop	Ramco institute of Technology	20.01.2023
Mr.A.PRABHU	Recent Trends in Electric Vehicle Technology and Research Opportunities	Workshop	Sri Sivasubramaniya nadir College of Engineering	27.03.2023 to 03.03.2023
	Research Innovations and Emerging Advances in Electrical Engineering	IFDP	Eswari Engineering College	05.01.2023 to 12.01.2023
Mrs.S.VALLIMAYIL	Vehicular Ad-Hoc Networks(VANETS) & Internet of Things(IOT)	FDP	Vellore Institute of Technology	01.04.2023 to 03.04.2023
	Embedded System	FDP	Pantech E Learning Pvt Ltd, Chennai	27.03.2023 to 27.04.203
	National Intellectual Property Awareness Mission	Training Program	Government of India, Ministry of commerce and Industry	30.03.2023
	Python Full stack Development	FDP	Pantech E Learning Pvt Ltd, Chennai	28.02.2023 to 29.03.2023
	EV Design using MATLAB	FDP	Pantech E Learning Pvt Ltd, Chennai	08.02.2023 to 09.03.2023
	Basics of Electronics	Webinar	Knowledge Downloadable	21.01.2023

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Research Innovations and		Eswari Engineering	05.01.2023
Emerging Advances in	FDP	College	to
Electrical Engineering		C	12.01.2023
	EDD	Pantech E Learning Pvt	11.01.2023
Machine Learning	FDP	Ltd, Chennai	to
			10.02.2023
Java Full Stack 2.0 Master		Pantach E Learning Dut	10.12.2022
Class	FDP	I the Channel	to
Class		Liu, Chennai	10.01.2023

JOURNALS LIST

- S.Saroja, S.Haseena, R.Madavan," Disolved gas Analysis of Transformer : An Approach Based on ML and MCDM" IEEE transactions on Dielectrics and Electrical Insulation 2023 DOI: 10.1109/TDEI.2023.3271609.
- Dr.R.Aruna, Jaya Christa Sargunar Thomas, "System Identification, Stability Analysis and PID Controller Design for PEM Electrolyzer" Springer Nature Singapore Smart sensors and Measurement and Instrumentation Vol.957. 3rd March, 2023.
- M.Yamuna, R.Madavan "Imapet nanoparticles mixtures on mineral and pongamia ester oils dielectric strength" Springer Nature, Biomass Conversion and Biorefinery, 2022 <u>https://doi.org/10.1007/s13399-022-03235-0.</u>
- S.Haseena, S.Kavipriya, S.Saroja, R.Madavan, M.Muhibbullah and Umashankar Subramaniam "Moth- Flame Optimization for Early Prediction of Heart Diseases" Computational and Mathematical Methods in Medicine DOI:<u>10.1155/2022/9178302</u>
- S.Haseena, S.Saroja, R.Madavan, Alagar Karthick, Bhaskar Pant, and Melkamu Kifetew " Prediction of the Age and Gender Based on Human Face Images Baed on Deep Learning Algorithm" Computational and Mathematical Methods in Medicine Volume 2022 | Article ID 1413597 | https://doi.org/10.1155/2022/1413597.
- Dr.K.Punitha V. Seetharaman D. Devaraj, and V. Selvaganesh "Deep learning based maximum power point prediction for Arduino controlled solar water pumping systems" Songklanakarin Journal of Science and Technology 44 (3), 884–891, May – Jun. 2022.
- 7. R.Aruna, S.T.Jaya Christa and Praveen Paul Jeyapaul "Modelling analysis and design of

Solar PV based hydrogen energy storage system for residential applications" International journal of Advanced Technology and Engineering Vol 9(91) ISSN(Print): 2394-5443 ISSN (Online): 2394-7454 <u>http://dx.doi.org/10.19101/IJATEE.2321.875129.</u>

 Dr.M.Carmel Sobia "Smart foot wear and Tracking system for women security" International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 30 Issue 1 – JANUARY 2023

CONFERENCE LIST

- Dr.R.Madavan, "Novel Portable Hybrid Renewable Energy Based Concrete Pipe Water Heater" International Conference on Renewable and Sustainable Energy Technologies (RESET - 2023) organized by the Department of Electrical and Electronics Engineering, during 22 -23 March 2023.
- Dr.R.Madavan, "IoT based Voice Control Wheel Chair" International Conference organized by Paavai Engineering College 17th March 2023.
- R. Madavan "On the Loading and Workability of Synthetic Ester Filled Transformers" IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2023) 22 - 24, February 2023.
- Dr.K.Punitha, "Wireless power Transfer System" in the international conference organized by Paavai Engineering College on 17th March 2023.
- Dr.K.Punitha, "Generation of Power using Horse Herd Optimization Algorithm for photovoltaic Solar System" International Conference on Advancements in Automotive Technology- 2023 organized by Automobile Engineering at Bannari Amman Institute of Technology held on 5th and 6th April 2023.
- Dr.K.Punitha, "Single Phase Voltage Source Inverter for Harmonics Mitigation" International Conference on Advancements in Automotive Technology- 2023 organized by Automobile Engineering at Bannari Amman Institute of Technology held on 5th and 6th April 2023.
- 7. **Dr.R.Muniraj** and Dr.M.Ulaganathan "Design and Evaluation of MPPT Based Two Stage Battery Charging Scheme For A Solar PV Lightning System" IEEE International conference

on Innovation in Science and Technology for Sustainable Development August 25 and 26 2022.

- Dr.R.Muniraj "A comparative analysis on super capacitor based HEV" ISET International Conference on Applied Science & Engineering, AIP Conference Proceedings https://doi.org/10.1063/5.0120011 24.03.2023
- Dr.R.Aruna, Jaya Christa Sargunar Thomas, "System Identification, Stability Analysis and PID Controller Design for PEM Electrolyzer" Springer Nature Singapore Smart sensors and Measurement and Instrumentation Vol.957. 3rd March, 2023.
- Dr.R.Aruna, "Fast Charging System for Electric Vehicle Using LUO Converter" International Conference on Advancements in Automotive Technology- 2023 organised by Automobile Engineering at Bannari Amman Institute of Technology held on 5th and 6th April 2023.
- Dr.R.Muniraj and Dr.M.Ulaganathan "Quasi Z Source Inverter Fed Induction Motor Drive Using Chaotic Carrier Sinusoidal PWM" IEEE International conference on Innovation in Science and Technology for Sustainable Development August 25 and 26 2022.
- 12. Dr.M.Carmel Sobia "Smart wireless power transmission system for Autonomous EV charging" International Conference on Advancements in Automotive Technology- 2023 organised by Automobile Engineering at Bannari Amman Institute of Technology held on 5th and 6th April 2023.
- Dr.M.Carmel Sobia, "IoT Based Physiological Data Monitoring For Construction Worker" International Conference on Smart Engineering for Renewable Energy Technologies -2023 (ICSERET - 2023) organized by Department of Electrical and Electronics Engineering, Ramco Institute of Technology, Rajapalayam on 24 & 25 March 2023.
- 14. Dr.M.Carmel Sobia "Transmission tower tilt monitoring system using Wireless Technology" International Conference on Advancements in Automotive Technology- 2023 organised by Automobile Engineering at Bannari Amman Institute of Technology held on 5th and 6th April 2023.
- 15. **Mrs.S.Krishnaveni** and Mrs.M.Kanimozhi, "On board Battery Charger for BLDC Based Electric Vehicles" National level conference Renewable Energy for Electric Vahicle Charging system organized by the department of Electrical and Electronics Engineering on

17th March 2023.

- 16. Mrs.S.Krishnaveni, "Solar panel Fault Monitoring System Through IoT" International Conference on smart Engineering for renewable Energy Technologies- 2023 organized by Department of Electrical and Electronics Engineering, Ramco Institute of Technology, 24 and 25 March 2023.
- Mr.S.Ramarj, "Detection of fire Accident and Prevented by Automated ChainPulling Mechanism" in the international conference organized by Paavai Engineering College on 17th March 2023.
- Mr.T.Rengaraj, "Automated Tracking and water cooling systemfor Solar Panel" in the international conference organized by Paavai Engineering College on 17th March 2023.
- Mrs.M.Kanimozhi and Mrs.S.Krishnaveni "Optimal load sharing in a micro grid Integrated with renewable Energy System" International Conference on Advancements in Automotive Technology- 2023 organized by Automobile Engineering at Bannari Amman Institute of Technology held on 5th and 6th April 2023.
- 20. S.Vallimayil, "Evaluation of Harvesting Energy from Pedestrians using pizeo electric Sensors" in the international conference organized by Paavai Engineering College on 17th March 2023.
- 21. **R.Palselvam**, "System to Identify Drunk Driving and Avoid Auto Accidents" in the international conference organized by Paavai Engineering College on 17th March 2023.

DEPARTMENT ACTIVITIES

Sl. No	Name of t	he Event	Date
1.	ONE DAY SEMINAR	ON INDUSTRY 4.0	27.12.2022
	P.S.R. ENGINEER (An Autonomous Institution, Affilia Accredited by NBA&NAAC with A+ Grade an SIVAKAS DEPARTMENT OF ELECTRICAL A In associat PSREC-IEEE SB (624- Cordially invit	RING COLLEGE ted to Anna University, Chennai.) a listed under 12(B) of the UGC Act, 1956. I – 626 140 ND ELECTRONICS ENGINEERING ion with 41)& EEE Association	
	One day	Seminar	
	0	n	
	"INDUC	PDV 4.0"	
	INDUST	IRY 4.0	
	27 th Decer Time: 10 Venue: EEE Resourc	nber 2022 0.00 AM Seminar Hall e person	
	DR. MANII	KANDAN.P	
	Founder & Coden Play Ro Karnataka-State, Has kindly consented to be the chief		
	In the augus	presence of	
	Thiru. R. SC	DLAISAMY	
	Managing Trustee, F.S.	c. Group of institutions	
	Er. S. VIGNESHWA Trustee & Director, P.S.	ARI ARUNKUMAR R. Group of Institutions	
	Dr. J.S.SENTHIL KUMAAR	Dr. P. MARICHAMY	
	Principal, P.S.R. Engineering College	Dean, P.S.R. Engineering College	
	Dr.M.Carmel Sobia, ASP/EEE Mr.P.Saratchandran, AP / EEE Association Incharges	Dr.R.MADAVAN HOD/EEE PSREC- IEEE SB COUNSEL OR	
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(An Autonomous Institution, Affi Accredited by NBA&NAAC with A+Grad SIVAK.	iliated to Anna University, Chennai.) Anna Sana Sana Sana Sana Sana Sana Sana
DEPARTMENT OF ELECTRICAL	AND ELECTRONICS ENGINEERING
In assoc EEE Association &P	iation with SREC-IEEE SB (62441)
Cordially in	nvite you for the
o	ine day
"Hands on	n Training on
Poster Design	using Pixel Lab"
07 th Ja Time: 1.00 Venue: EE	nuary 2023) Pm to 4.00 Pm EE Seminar Hall
In the aug	gust presence of
Thiru. R. Managing Trustee, P.	SOLAISAMY S.R. Group of Institutions
Er. S. VIGNESHV Trustee & Director, P	& Torrest was a construction of Institutions
Dr. J.S.SENTHIL KUMAAR	Dr. P. MARICHAMY
Principal, P.S.R. Engineering College	Dean, P.S.R. Engineering College
Dr.M.Carmel Sobia, ASP/EEE Mr.P.Saratchandran,AP /EEE Association Incharges	<i>Dr.R.MADAVAN</i> HOD/EEE PSREC- IEEE SB COUNSELOR
Mr.M. Mohammed Nazar, Final EEE Mr. P.Mahesh Boopathi final EEE Students Coordinaors	
All Are	Welcome

	P.S.R. ENGINEER		
	(An Autonomous Institution, Affilia Accredited by NBA&NAAC with A+ Grade an SIVAKAS	ted to Anna University, Chennai.) ad listed under 12(B) of the UGC Act,1956. I - 626 140	
	DEPARTMENT OF ELECTRICAL A	ND ELECTRONICS ENGINEERING	
18-	In associat PSREC-IEEE SB (6244	ion with 1) & EEE Association	
	Cordially invi	te you for the	
	One day S	eminar On	
	"INDUSTRIAL AUTO	MATION USING PLC"	
	21 st Janu: Time: 1.00 Pr Venue: EEE s	ary 2023 n to 4.00 Pm Seminar Hall	
	In the august	presence of	
	Thiru R SC	I AISAMV	
	Managing Trustee, P.S.I	R. Group of Institutions	
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	Er. S. VIGNESHWA Trustee & Director, P.S.	RI ARUNKUMAR R. Group of Institutions	
	Dr. L.S.SENTHIL KUMAAR	Dr. D. MADICITANY	
	Principal, P.S.R. Engineering College	Dean, P.S.R. Engineering College	
	Dr.M.Carmel Sobia, ASP/EEE Mr. P. Sanath Chandram AD/EEE	Dr.R.Madavan	
<u> </u>	Association Incharge	HOD/EEE PSREC - IEEE SR COUNSEL OP	
		I SALC - ILLE SD COONSELOR	
	Mr.S.Mohit,Second Year/EEE Mr.S.Mukesh Kannna, Second Vear/EEE		
	Mr.M.Murugananth, Second Year/EEE	2 2 22	
	Mr.M.Thilagaraj, Second Year/EEE Mr.M.Saravana Selvam, Second Year/EEE	P. Brod arton 192	
	Student Coordinators		
	All Are W	elcome	
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(An At Accredited	P.S.R. ENGIN atonomous Institution, A by NBA&NAAC with A+ G	EERING COLLEGE Affiliated to Anna Universit rade and listed under 12(B) of the	y, Chennai.) le UGC Act,1956.
	SIV	AKASI - 626 140	
DEPARTMI	ENT OF ELECTRIC	AL AND ELECTRON	ICS ENGINEERING
A	In	association with	
	PSREC-IEEE SI	B (62441) & EEE Assoc	iation
IEEE	Cordially invite y	vou for the One Day Wo	rkshop
		on	
	<i>"Electric V</i> 1 ^s Venue	Tehicle using Matlab ⁴ February, 2023 Fime: 10.00 AM e: EEE Seminar Hall	″ 📣 MathWorks
-	Re	source person	
	Custom Education Te Education Te	Ajay Talluri er Success Specialist, am MathWorks, Bangalo Deb Singdeo Engineer, am MathWorks, Bangalo	re ore
Has k	indly consented to be t	he chief guest and delivers	keynote address
	In th	ne august presence of	
	Thi	ru. R. SOLAISAMY	
	Managing Trus	tee, P.S.R. Group of Institutio	ns
	Er. S. VIGN	X VESHWARI ARUNKUMAR	
	Trustee & Direc	ctor, P.S.R. Group of Instituti	ons
Dr. J.S.SENTHIL KU	IMAAR	Dr. P. MARIO	CHAMY
Principal, P.S.R. Eng	gineering College	Dean, P.S.R.	Engineering College
Dr.M.Carmel Sobia, Mr.P.Sarathchandrai Association Incharge	ASP/EEE n, AP /EEE es	. HoD/EEE, F	SREC- IEEE SB COUNSELOR
	ai ai	Ell Fire Welcome	10
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STUDENT ACTIVITIES

NPTEL ONLINE COURSES:

Name of the student	Duration of the course	Title of the course
S.Mukeshkanna	8 weeks(January 23- March 23)	Automatic control(Elite)
K.Abirami	8 weeks(January 23- March 23)	Automatic control
P.Prakash Raj	4 weeks(January 23- February 23)	Electric Vehicle- Part 1(Elite)
A.Dineshkumar	4 weeks(January 23- February 23)	Electric Vehicle- Part 1
S.Mukeshkanna	4 weeks(January 23- February 23)	Python for Data Science(Elite)
M.Saravana Selvam	4 weeks(January 23- February 23)	Python for Data Science

INTERNSHIPS AND INPLANT TRAINING:

S.No	Name of the Participant	Duration (from to)	Title of the linkage	Name of the partnering industry/ institution/research lab
1.	Vignesh M.A			
2.	Kalyanisundaram P			
3.	Vijayakumar R			
4.	GopiKrishna P	12.12.2022 to	· · · ·	National Small
5.	Vengadesh G	16.12.2022	Internship	Industries Corporation, Chennai
6.	Rajeshkumar S			
7.	Manoj S			
8.	Kesavan S			
9.	Robert S			
10.	Kamalesh K	02.01.2023 to	Inplant	33/11kv substation,
11.	Hariharan A	06.01.2023	Training	Nakalamuthanmpatti
12.	Vijayaraj R			
13.	Eniyanambirajan G			Tamil Nadu Cements
14.	Murugaraj G	12.12.2022 to 17.12.2022	Inplant Training	Corporation Limited
15.	SikkantharMydeen R			Alangulam

17.Abinesh KImage: Constraint of the second s	16.	Yogeshwaran P			
18.SarathPrabhakaran A.M13.12.2022 to 17.12.2022Inplant Training110/11kV Sankarankovil substation20.Gowtham Raj S13.12.2022 to 17.12.2022Inplant TrainingLoyal Textile Mills Ltd21.Muthuselvi R12.12.2022 to 17.12.2022InternshipPebbles Electronics22.Surya VInternshipPebbles ElectronicsInplant TrainingTNEB SS, Puliyangudi24.Muthu Pradeep13.12.2022 to 17.12.2022Inplant TrainingTNEB SS, Puliyangudi25.Paul Daniel A07.12.2022 to 15.12.2022 to 15.12.2022 to 15.12.2022 to 15.12.2022Inplant TrainingSalzer Electronics Ltd.28.C.ArunPrashath15.12.2022 to 01.12.12.0022 to 31.12.2022 to 04.02.2023InternshipTEDI (India) Private Corporation Ltd., Alangulam30.M.Rajeshwaran 22.01.2023 to 01.10.2.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam33.P.Gangatharan06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam34.K.Ravikumar30.01.2023 to 11.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin35.P.Krishnamoorthy 36.30.01.2023 to 20.02.2023 to	17.	Abinesh K			
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22.Surya VInplantInplantTNEB SS, Puliyangudi24.Muthu Pradeep13.12.2022 to 17.12.2022 to 17.12.2022 to 17.12.2022 to 15.12.2022Inplant TrainingTNEB SS, Puliyangudi26.Ganesh R07.12.2022 to 15.12.2022 to 15.12.2022Inplant 	21.	Muthuselvi R	12.12.2022 to 17.12.2022	Internship	Pebbles Electronics
23.Surya K24.Muthu Pradeep13.12.2022 to 17.12.2022Inplant TrainingTNEB SS, Puliyangudi26.Ganesh R07.12.2022Inplant 	22.	Surya V			
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26.Ganesh RInplant27.S.Saran Kumar07.12.2022 to 15.12.2022Inplant TrainingSalzer Electronics Ltd.28.C.ArunPrashath15.12.2022 to 31.12.2022InternshipTEDI (India) Private Limited29.J.Dineshkumar22.01.2023 to 04.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam31.J.Vikram22.01.2023 to 04.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam33.P.Gangatharan06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam34.K.Ravikumar24.01.2023 to 11.02.2023InternshipDoowon Electronics India Private Limited, Oragadam35.P.Krishnamoorthy30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar06.02.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar06.02.2023 to 2.002.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam41.M.Muthukumar06.02.2023 to 2.002.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam44.R.ManishPrabhu02.01.2023 to 2.001.2023 to 2.002.2023InternshipSri JayavilaSubbaraj, Spinning Mills (P) Ltd45.J.Dinesh02.01.2023 to 2.001.2023 to 2.001.2023InternshipSri JayavilaSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 to 2.001.2023 to<	25.	Paul Daniel A	17.12.2022		Pullyanguui
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29.J.Dineshkumar30.M.Rajeshwaran31.J.Vikram32.P.Lakshmanaraj33.P.Gangatharan34.K.Ravikumar35.P.Krishnamoorthy36.S.Kirthickroshan37.R.Sarankumar38.M.MohammedNazar39.M.AhamedAsick40.K.Dharmaraj41.M.Muthukumar42.06.02.2023 to 11.02.202314.Tamil Nadu Cements Corporation Ltd., Alangulam39.M.AhamedAsick40.K.Dharmaraj41.M.Muthukumar42.T.Karthick43.V.Jeyasimman44.R.ManishPrabhu45.J.Dinesh46.S.Rukkumani13.02.2023 to 2.0223 to46.S.Rukkumani46.S.Rukkumani	28.	C.ArunPrashath	15.12.2022 to 31.12.2022	Internship	TEDI (India) Private Limited
30.M.Rajeshwaran J.Vikram22.01.2023 to 04.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam32.P.Lakshmanaraj06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., 	29.	J.Dineshkumar			
31.J.Vikram22.01.2023 to 04.02.2023InternshipCorporation Ltd., Alangulam32.P.Lakshmanaraj06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam33.P.Gangatharan06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam34.K.Ravikumar24.01.2023 to 11.02.2023InternshipDoowon Electronics India Private Limited, Oragadam35.P.Krishnamoorthy30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar06.02.2023 to 2.002.2023 to 2.002.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam41.M.Muthukumar06.02.2023 to 2.002.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam43.V.Jeyasimman02.01.2023 to 2.001.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd45.J.Dinesh02.01.2023 to 2.001.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 to 2.001.2023InternshipSpiro Solutions Pvt	30.	M.Rajeshwaran	22.01.2023 to	Internshin	Tamil Nadu Cements
32.P.LakshmanarajAlangular33.P.Gangatharan06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam34.K.Ravikumar24.01.2023 to 11.02.2023InternshipDoowon Electronics India Private Limited, Oragadam35.P.Krishnamoorthy30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar06.02.2023 to 14.02.2023Inplant Tamil Nadu Cements Corporation Ltd., Alangulam40.K.Dharmaraj 20.02.2023 to 20.02.2023 to 20.02.2023Inplant Tamil Nadu Cements Corporation Ltd., Alangulam44.R.ManishPrabhu02.01.2023 to 20.01.2023 to 20.01.2023 to 20.01.2023Internship45.J.Dinesh02.01.2023 to 20.01.2023 to 20.01.2023 to 20.01.2023Sri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 to 20.01.2023 toInternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd	31.	J.Vikram	- 04.02.2023	internship	Corporation Ltd.,
33.P.Gangatharan06.02.2023 to 11.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam34.K.Ravikumar24.01.2023 to 11.02.2023InternshipDoowon Electronics India Private Limited, Oragadam35.P.Krishnamoorthy30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar06.02.2023 to 14.02.2023Inplant Tamil Nadu Cements Corporation Ltd., Alangulam39.M.AhamedAsick06.02.2023 to 20.02.2023 to 20.02.2023Inplant Tamil Nadu Cements Corporation Ltd., Alangulam41.M.Muthukumar06.02.2023 to 20.02.2023Inplant Tamil Nadu Cements Corporation Ltd., Alangulam44.R.ManishPrabhu02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 to 20.01.2023InternshipSpiro Solutions Pvt	32.	P.Lakshmanaraj			Alangulam
34.K.Ravikumar24.01.2023 to 11.02.2023InternshipDoowon Electronics India Private Limited, Oragadam35.P.Krishnamoorthy30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin36.S.Kirthickroshan30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar06.02.2023 to 20.02.2023 to 20.02.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam41.M.Muthukumar06.02.2023 to 20.01.2023 to 20.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd45.J.Dinesh02.01.2023 to 20.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd	33.	P.Gangatharan	06.02.2023 to 11.02.2023	Internship	Tamil Nadu Cements Corporation Ltd., Alangulam
35.P.Krishnamoorthy30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar14.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam39.M.AhamedAsick06.02.2023 to 20.02.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam41.M.Muthukumar06.02.2023 to 	34.	K.Ravikumar	24.01.2023 to 11.02.2023	Internship	Doowon Electronics India Private Limited, Oragadam
36.S.Kirthickroshan30.01.2023 to 14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin37.R.Sarankumar14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin38.M.MohammedNazar14.02.2023InternshipNC John & Sons (P) Ltd, Tuticorin39.M.AhamedAsick06.02.2023 to 20.02.2023 to 20.02.2023Inplant 	35.	P.Krishnamoorthy			
37.R.Sarankumar14.02.2023Ltd, Tuticorin38.M.MohammedNazar14.02.202314.02.202314.02.202339.M.AhamedAsick06.02.2023 toInplantTamil Nadu Cements40.K.Dharmaraj06.02.2023 to20.02.2023Corporation Ltd., Alangulam41.M.Muthukumar06.02.2023 to20.02.2023Training43.V.Jeyasimman02.01.2023 toInternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd45.J.Dinesh02.01.2023 toInternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 toInternshipSpiro Solutions Pvt	36.	S.Kirthickroshan	30.01.2023 to	Internship	NC John & Sons (P)
38.M.MohammedNazarInplant39.M.AhamedAsick40.K.Dharmaraj41.M.Muthukumar42.T.Karthick43.V.Jeyasimman44.R.ManishPrabhu45.J.Dinesh46.S.Rukkumani46.S.Rukkumani	37.	R.Sarankumar	14.02.2023		Ltd, Tuticorin
39.M.AhamedAsick40.K.Dharmaraj41.M.Muthukumar42.T.Karthick43.V.Jeyasimman44.R.ManishPrabhu45.J.Dinesh46.S.Rukkumani46.S.Rukkumani	38.	M.MohammedNazar			
40.K.DharmarajInplantTamil Nadu Cements41.M.Muthukumar06.02.2023 to 20.02.2023Inplant TrainingTamil Nadu Cements Corporation Ltd., Alangulam42.T.Karthick20.02.2023InternshipTamil Nadu Cements Corporation Ltd., Alangulam43.V.Jeyasimman02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd45.J.Dinesh02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 toInternshipSpiro Solutions Pvt	39.	M.AhamedAsick			
41.M.Muthukumar06.02.2023 to 20.02.2023Implant TrainingTumin Hadu Centents Corporation Ltd., Alangulam42.T.Karthick20.02.2023TrainingCorporation Ltd., Alangulam43.V.Jeyasimman02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd45.J.Dinesh02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 to 13.02.2023 toInternshipSpiro Solutions Pvt	40.	K.Dharmaraj	_	Inplant	Tamil Nadu Cements
42.T.Karthick20.02.2023TruningDript Hain Lair, Alangulam43.V.Jeyasimman20.02.2023Alangulam44.R.ManishPrabhu02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 to 13.02.2023 toInternshipSpiro Solutions Pvt	41.	M.Muthukumar	06.02.2023 to	Training	Corporation Ltd
43.V.Jeyasimman44.R.ManishPrabhu45.J.Dinesh02.01.2023Internship46.S.Rukkumani13.02.2023 toInternshipSpiro Solutions Pvt	42.	1.Karthick	20.02.2023		Alangulam
44.K.ManishPraonu02.01.2023 to 20.01.2023InternshipSri JayavilasSubbaraj, Spinning Mills (P) Ltd46.S.Rukkumani13.02.2023 toInternshipSpiro Solutions Pvt	43.	V.Jeyasımman	_		-
46.S.Rukkumani13.02.2023 toInternshipSpiro Solutions Pvt	44.	J.Dinesh	02.01.2023 to 20.01.2023	Internship	Sri JayavilasSubbaraj, Spinning Mills (P) I td
	46.	S.Rukkumani	13.02.2023 to	Internship	Spiro Solutions Pvt

47.	N.Ushanandhini	26.02.2023		Ltd
48	M Vinoth Kumar	01.02.2023 to	Internship	The Ramco Cements
+0.		20.02.2023		Limited
49.	S.Vignesh			
50.	R.Dhamotharakannan		Inplant	Tamil Nadu Cements
51.	S.VeeraManikandan	22.02.2023 to	Troining	Corporation L td
52.	S.Anguraj	09.03.2023	Training	Alangulam
53.	E.Shanmuga Kumar			Thangulan
54.	J.Gopikannan			
55.	A.Mohanraj	08.02.2023 to	Internship	Innowell Engineering
56.	K.Pothiraj	10.03.2023	internship	International Pvt Ltd, Chennai
57.	P.Manoraniith	25.01.2023 to	Internship	The Ramco Cements
		23.02.2023		Limited
		20.02.2023 to	Inplant	110/11kV Substation,
		24.02.2023	Training	Kadayanallur
58.	M.Dinesh Krishnan	06.02.2022 to	Inplant	Tamil Nadu Cements
		16 03 2023 10	Training	Corporation Ltd.,
		10.03.2023	_	Alangulam
59.	M.Manoj	27.02.2023 to	Internship	Tamil Nadu Cements
60	M Udhayakumar	12 03 2023	internship	Corporation Ltd.,
00.	Wi. O dha yaKumai	12.03.2023		Alangulam
61	G Aravind	30.01.2023 to	Internship	SentiniFlopipes India
01.		15.02.2023		Pvt Ltd
		06.03.2023 to	Inplant	Tamil Nadu Cements
62.	S.Gobi Krishna	16.03.2023	Training	Corporation Ltd.,
		10.03.2023		Alangulam
63.	A.Manikandan	06.02.2023 to	Internship	Tespro System,
64.	K.Sudarson	28.02.2023		Chennai
		06.02.2023 to	Internship	Sri Akilandeshwari
65.	M.Gopala Krishnan	11.02.2023	memorp	Electricals,
		11.02.2020		Rajapalayam

CONFERENCE ATTENDED:

Name of the student	Title of the Project	Institute
ANGURAJ S	Evaluation of Harvesting Energy	International Conference on Adaptive
DHAMOTHARAKANNA N R GOPIKANNAN J	From Pedestrians using Piezoelectric Sensors	Growth(ICATS), Paavai Engineering College, Namakkal,17/03/2023
VIGNESH S		

ARAVIND G	Detection of Fire	International Conference on Adaptive	
JEYASIMMAN V	Accident and prevented by Automated Chain Pulling Mechanism	Growth(ICATS), Paavai Engineering	
MAHESH BOOPATHI P		College, Namakkal,17/03/2023	
ARUMUGAKANI R	Fast Charging System	International Conference on Advancement in Automobile	
MOHAMMED NAZAR M	Vehicle(EV) Using	Technology(ICAAT), Bannari Amman	
SHANMUGA KUMAR E	LUO Converter	06/04/2023	
ARUN PRASHATH C	Automated Tracking	International Conference on Adaptive	
KRISHNAMOORTHY P	System For Solar	Growth(ICATS), Paavai Engineering	
VEERA MANIKANDAN S	Panel	College, Namakkal, 17/03/2023	
AHAMED ASICK M	Transmission Tower	International Conference on Advancement in Automobile	
KARTHICK T	System using Wireless	Technology(ICAAT), Bannari Amman Institute of Technology, 05/04/2023 and 06/04/2023	
MUTHUKUMAR M	Techniques		
PANDI KUMAR.S			
DHARMARAJ K	Single Phase Voltage	International Conference on	
GOVIKUMAR M	Harmonics Mitigation	Technology(ICAAT), Bannari Amman Institute of Technology, 05/04/2023 and 06/04/2023	
MANISHPRABHU R			
SANGILIPANDI M			
DHINESH J	Low - Cost Autonomous Guided	International Conference on Adaptive	
SURIYA A	Robot for fire Fighting	Growth(ICATS), Paavai Engineering	
DINESH KRISHNAN M		College, Namakkal, 17/03/2023	
DHIVAKAR R	Optimal Load Sharing	International Conference on	
TATHIN DHEVESH K	In a Micro grid Integrated with	Technology(ICAAT), Bannari Amman	
UDHAYAKUMAR M	Renewable Energy System	Institute of Technology, 05/04/2023 and 06/04/2023	
DINESH R	Comparative Analysis	International Conference on Electrical Energy Systems (ICEES) SSN College	
LAKSHMANARAJ P	Lithium Ferro	of Engineering, 23- 25 March 2023.	

RAJESH L	phosphate battery pack		
DINESHKUMAR J	Wireless Power	International Conference on Adaptive	
SARAVANAN R	Transfer System	Growth(ICATS), Paavai Engineering College, Namakkal,17/03/2023	
VIKRAM J			
GANESHKUMAR J	-		
GOBI KRISHNA S	Generation Of Power	International Conference on	
MUTHUKUMAR M	Optimization	Technology(ICAAT), Bannari Amman	
RAMESH S	Voltaic Solar System	Institute of Technology, 05/04/2023 and 06/04/2023	
JEYAKRISHNA N	Smart wireless power transmission system	International Conference on Advancement in Automobile Technology(ICAAT), Bannari Amman	
NANDHA BALAN A	for Autonomous EV		
RENGARAJ S	charging	06/04/2023	
KIRTHICKROSHAN S	System to Identify Drunk Driving and	International Conference on Adaptive Technologies for Sustainable	
SARAN KUMAR R	Avoid Auto Accidents	Growth(ICATS), Paavai Engineering	
VINOTH KUMAR M		College, Namakkal, 17/03/2023	
MANOJ M	Isolated Bidirectional	International Conference on Adaptive	
MOHANRAJ A	Proportional Resonant	Growth(ICATS), Paavai Engineering	
SUDARSON K	Controller for Renewable Energy System	College, Namakkal, 17/03/2023	
POTHIRAJ K	IoT based borewell water Monitoring and	International Conference on Emerging Engineering Technologies (ICEET), Raji	
RAMKUMAR S	Control system	Publications ,11-12 March 2023	
SAMPATHKUMAR S	-		
RAJA S	IoT based Voice Control Wheel Chair	International Conference on Adaptive Technologies for Sustainable	
MANORANJITH P		Growth (ICATS), Paavai Engineering	
PALANIVEL S		Conege, Ivaniakkai, 17/03/2023	
RAJESWARAN M	IoT based	International Conference on Smart	

RAVIKUMAR K	Physiological Data	Engineering for Renewable Energy
	Monitoring for	Technologies (ICSERET), Ramco
SURYA A	Construction Worker	Institute of Technology, 24.03.2023 and
		25.03.2023
RUKKUMANI S	Solar Panel Fault	International Conference on Smart
	Monitoring System	Engineering for Renewable Energy
USHANANDHINI N	Through IOT	Technologies (ICSERET), Ramco
		Institute of Technology, 24.03.2023 and
		25.03.2023
ARULJEEVA A	Smart Electrical	International Conference on Adaptive
JOHN SOLAMAN S	Energy Management	Technologies for Sustainable
JUHN SULAMAN S	System by Hybrid	Growth(ICATS), Paavai Engineering
SURENDHAR	Power Source using	College, Namakkal, 17/03/2023
	IoT	
GANGATHARAN P	Smart Energy meter	International Conference on Adaptive
	For Power Theft	Technologies for Sustainable
GURUMAHARAJA A	Monitoring System	Growth(ICATS), Paavai Engineering
	using IOT	College, Namakkal, 17/03/2023
MANIKANDAN A		
GOPALAKRISHNAN	Design and Analysis	International Conference on Adaptive
	of Quadrupler	Technologies for Sustainable
S.KARAN KUMAR	DC - DC High gain	Growth(ICATS), Paavai Engineering
	boost converter	College, Namakkal, 17/03/2023
G.SANJEEVI KUMAR		

Value Added Courses Organized:

S.No.	Title	Date	No. of students Attended
1.	MATLAB For Engineering	14.03.2023 - 18.03.2023	II EEE - 64
	Application		
2.	Embedded System and IOT	02.02.2023 - 07.02.2023	III EEE – 64
3.	Hands On Training On DAQ Using	25.07.2022 To 29.07.2022	IV EEE - 55
	Graphical Approach-LABVIEW		
4.	Master class on EV Design Using	08.02.2023 To 09.03.2023	IV EEE - 33
	MATLAB		
5.	Master class on Machine Learning	11.01.2023 To 10.02.2023	IV EEE - 37
6.	The fundamental of digital marketing	19.01.2023	IV EEE - 35

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Mr. V.V. BREM KUMAR

Alumni: 2015

Department of Electrical and Electronics Engineering

PSR Engineering College,

Sivakasi-626140.

EDUCATION

Course: Bachelor of Engineering in Electrical and Electronics Engineering

College: PSR Engineering College, Sivakasi

Year of Passing: 2016

EXPERINCE SUMMARY

- 1. 5.1 Years Experience as Senior Test Engineer in Novac Technologies, Chennai.
- 2. 1.6 Years Experience as Associate in CTS, Chennai.

PLACEMENT DETAILS

S. No.	Name of the student placed	Name of the Employer
1.	VIGNESH S	TCS, Chennai / Pinnacle Infotech, Madurai
2.	RAJA S	CTS / Mithra Soft
3.	MUTHUKUMAR M	Soft Suave
4.	GOPIKANNAN J	VPG Sensors, Chennai
5.	RAMKUMAR S	VPG Sensors, Chennai
6.	ARAVIND G	VPG Sensors, Chennai
7.	SHANMUGA KUMAR E	VPG Sensors, Chennai
8.		VPG Sensors, Chennai / Pinnacle Infotech,
	GURUMAHARAJA A	Madurai
9.	ANGURAJ S	VPG Sensors, Chennai
10.	KRISHNAMOORTHY P	VPG Sensors, Chennai
11.		VPG Sensors, Chennai / Pinnacle Infotech,
	GOBI KRISHNA S	Madurai
12.	SAMPATHKUMAR S	Innowell ,Sivakasi
13.	RAMESH S	Innowell ,Sivakasi
14.	USHANANDHINI N	Aspire Systems
15.	RUKKUMANI S	Renault Nissan
16.	SURYA A	Shree Abirami Engineering Works, Chennai
17.	VINOTH KUMAR M	Shree Abirami Engineering Works, Chennai
18.	ARUMUGAKANI A	Shree Abirami Engineering Works, Chennai

19.	MANORANJITH P	Shree Abirami Engineering Works, Chennai
20.	SURIYA A	Shree Abirami Engineering Works, Chennai
21.	MAHESH BOOPATHI P	Shree Abirami Engineering Works, Chennai
22.	LAKSHMANARAJ P	Shree Abirami Engineering Works, Chennai
23.		Shree Abirami Engineering Works, Chennai /
	POTHIRAJ K	Pinnacle Infotech, Madurai
24.	VEERAMANIKANDAN S	Shree Abirami Engineering Works, Chennai
25.	SARAN KUMAR.R	Shree Abirami Engineering Works, Chennai
26.	VIKRAM J	Shree Abirami Engineering Works, Chennai
27.	ARULJEEVA A	Shree Abirami Engineering Works, Chennai /
		Omega Healthcare Management Services Pvt Ltd,
		Coimbatore
28.	GOPALA KRISHNAN M	Shree Abirami Engineering Works, Chennai
29.	MANIKANDAN A	Shree Abirami Engineering Works, Chennai
30.	SURENDHAR T	Shree Abirami Engineering Works, Chennai
31.	KIRTHICK ROSHAN S	Shree Abirami Engineering Works, Chennai /
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35.	SARAVANAN R	Shree Abirami Engineering Works, Chennai
36.	KARANKUMAR S	Pinnacle Infotech, Madurai

37.	JEYAKRISHNA N	Upmost Solution, Chennai
38.	AHAMED ASICK M	Omega Healthcare Management Services Pvt Ltd,
		Coimbatore

STUDENT ARTICLE

Internet of Things (IoT)

The Internet of Things (IoT) is a broad term for the billions of physical "things" connected to the Internet and sharing information with other devices and systems.

The Internet of Things (IoT) has been around since the 1990s. However, it is still evolving recently in many ways

- Technology based on sensors that are easy to use and don't cost a lot
- The growing number of cloud-based services
- Machine learning and artificial intelligence are two fields where technology is making progress.

From the kitchen to the factory floor, big and small appliances can all be connected to the Internet. In the Internet of Things, each device has a unique identifier (UID) and can talk to each other without needing a person to help.

Types of IoT

Consumer IoT: Primarily for general, everyday use. Electronics, voice assistants, and lamps/lighting are all excellent examples.

Commercial IoT: The medical and transportation industries use it a lot. One example is an intelligent device like a pacemaker or a health tracker.

Military Things (IoMT): The Internet of Military Things (IoMT) is a part of the Internet of Things (IoT) made for military use. Biometric identification systems worn by soldiers and surveillance robots are just two examples.

Industrial Internet of Things (IIoT) : In contrast to the IoT, which is geared toward consumers, the IIoT is made to be used in industrial settings, such as the food and energy industries. For example, digital control systems, smart farming, and big data in the industry.

Infrastructure IoT : The primary purpose of this technology is to make it easier for people in smart cities to talk to each other—for example, systems for managing and keeping an eye on public buildings.

Best Real-World IoT Examples

Here are the best ways to use the Internet of Things in the real world.

IoT Sensors: Sensors for the Internet of Things (IoT) are analog and digital devices that plug into microcontrollers like the Arduino Uno or Raspberry Pi 2. The circuit boards can measure the levels of carbon monoxide, temperature, humidity, pressure, vibration, and motion, which are all part of the data from the sensors. They can predict maintenance, boost productivity, and cut business costs.

Home Security: The Internet of Things is the main reason homes are safe. Because sensors, lights, alarms, and cameras are all connected, security is around the clock (all of which may be managed from a smartphone).

Activity Trackers: Intelligent home security cameras can keep track of your activity. Activity trackers use sensors to monitor your vital signs and provide you with information about them in real-time. Watch your blood pressure, hunger, exercise, and how much oxygen you use.

Industrial Security and Safety: Putting IoT-enabled detection systems, sensors, and cameras in secret places can help find people who intrude on your property. They can also find pressure buildups and small leaks of dangerous materials and fix them.

Process Automation: Repetitive tasks in production, like labeling, wrapping, packing, etc., are hard to do by hand and prone to mistakes, so they are done by machines. Think about a business that makes cold drinks. Devices and conveyors in a factory must be connected to a network to share data and information about how things are going. In other words, this cooperation can't happen without the Internet of Things. Periodically, the manufacturer gets a report on the state of the finished product and the state of the equipment used to make it. Both of these reports could help the manufacturer predict problems. An industry that invests in the Internet of Things will see its productivity increase and the quality of its products stay the same.

Augmented Reality Glasses: Augmented Reality (AR) glasses are computer glasses that add extra information, like 3D animations and movies, to the user's view of the real world. The data is shown on the glasses' lenses and can be used to access online services.

Motion Detection: Motion sensors can monitor significant buildings, bridges, and dams. These instruments can find disturbances in the structures that could lead to disasters. Also, they can be used in areas prone to natural disasters like earthquakes, tsunamis, and landslides.

Wearable Health Monitors: Health monitors that you wear are both exciting and valuable. Wearable technologies like intelligent clothing, wristwear, and medical devices make it possible to provide high-quality medical care. They can keep track of several things for you, like your heart rate, step count, and pulse. This information can be sent to doctors and saved for later use to learn more about a person's health. Wearable electronics made possible by the Internet of Things are changing our daily lives. In case of a medical emergency, like an asthma attack, seizure, etc., they can also send an alarm and call the authorities.

Internet of Things (IoT) is a system of interrelated, internet-connected objects which are able to collect and transfer data over a wireless network without human intervention.

For example, smart fitness bands or watches, driverless cars or drones, smart homes that can be unlocked through smartphones and smart cars, etc.

Architecture of IoT

There are different phases in the architecture of IoT but they can vary according to the situations but generally, there are these four phases in the architecture of IoT.

Networked Devices: These are the physical devices which include sensors, actuators, and transducers. These are the actual devices that collect and send the data for processing. They are capable of receiving real-time data and they can convert the physical quantities into electrical signals which can be sent through a network.

Data Aggregation: It is a very important stage as it includes converting the raw data collected by sensors into meaningful data which can be used to take actions. It also includes Data Acquisition Systems and Internet Gateways. It converts the Analog signals provided by sensors into digital signals.

Final Analysis: This is a stage that includes edge IT analytics and the processing of data to make it more efficient and fully capable of execution. It also includes managing and locating all the devices correctly **Cloud Analysis :** The final data is received here and analysed closely and precisely in data centres. They process and clean the data to make it free from any kind of errors and missing values. After this stage, data is ready to be sent back and executed to perform operations.

The basic fundamental architecture of IoT which consists of four stages as shown in the diagram given below



- **Sensing Layer:** The first stage of IoT includes sensors, devices, actuators etc. which collect data from the physical environment, processes it and then sends it over the network.
- Network Layer: The second stage of the IoT consists of Network Gateways and Data Acquisition Systems. DAS converts the analogue data (collected from Sensors) into Digital Data. It also performs malware detection and data management.
- **Data Processing Layer:** The third stage of IoT is the most important stage. Here, data is preprocessed on its variety and separated accordingly. After this, it is sent to Data Centres. Here Edge IT comes into use.
- **Application Layer:** The fourth stage of IoT consists of Cloud/Data Centres where data is managed and used by applications like agriculture, defence, health care etc.

Advantages

The advantages of IoT are as follows

- **Cost Reduction:** IOT devices catch any problem very fast as compared to traditional troubleshooting. It not only saves time but also saves costs of large repairs.
- **Efficiency and Productivity:** An automated PDF conversion and creation tool will remove the hustle of PDF editing and archiving. Hence, increase in Efficiency and Productivity.
- **Business Opportunities:** IOT provides advanced analytics, smart utility grids which help Small Management Businesses to provide more valuable content and things to their customers.
- **Customer Experience:** Nowadays customer's experience is the most valuable thing in running a business. IoT has drastically increased the customer's experience. An example of customer experience is Home Automation. Since everything is connected, customers need not have to worry about appliances. One can turn off the appliance through mobile.
- **Mobility and Agility:** With the help of IoT, employees can do their work from any geographical location, anytime without any restrictions.

Disadvantages

The disadvantages of IoT are as follows

- Security: The data is travelling all over the Internet. So maintaining its privacy is still a Big Challenge. End-to-end Encryption is a must in IoT.
- Compatibility: There is no International Standard for the monitoring of the equipment.
- **Complexity:** Most of the devices still contain some software bugs. Each device must be able to seamlessly interact with other devices in the network.
- **Safety:** Suppose a patient is left unattended by a doctor. And some notorious guy changes the prescription or Health monitoring devices malfunctioned. Then it can result in the death of the patient.
- **Policies:** Government authorities must take some steps to make policies and standards related to IoT to stop the Black marketing of IoT devices.

The technologies supported by IoT are as follows

- Big Data Analytics
- Cloud
- Wireless Sensor Networks
- Embedded Systems

By,

RUKKUMANI S

USHANANDHINI N

(FINAL-EEE)

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