



Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING



IEEE

(Accredited by NAAC with 'A' Grade / ISO 9001:2015 Certified Institution)

NH-7, 17th KM, Hosur – Krishnagiri Highways, Koneripalli, HOSUR – 635 117.

Website: www.pmctech.org



PMC - EEE ANNUAL NEWS LETTER

29th JUNE 2024



CHIEF PATRON

Mr.P.Kumar,Chairman and Correspondent

PATRONS

Smt.P.Mallar,Secretary

Smt.P.Sasirekha,Trustee

CO-PATRON

Dr.S.Chitra,M.E.,Ph.D.,Principal

HOD

Dr.S.Mahendran, M.E., Ph.D.,

About the Institution

About the Department

Students Participation

Faculty Participation

Photo Gallery

EDITOR

Faculty Members

Department of EEE

ABOUT THE INSTITUTION

Er.Perumal Manikekalai College of Engineering, established in the academic year 2002-2003 is approved by All India Council of Technical Education (AICTE), affiliated to Anna University and accredited by NBA in 5 departments and NAAC with 'A' Grade. Our Institution achieved Autonomous status from 2023-2024 for a period of ten years. Our Institution has been recognized by 2(f) and 12(B) from UGC, SIRO by DSIR, Ministry of Science and Technology, Govt of India to promote scientific research activities. PMC TECH creates unique opportunities affords individualized educational challenges, promotes high order thinking skills and maintains a strong tradition of academic excellence for the students.

The College is equipped with world class infrastructure, highly qualified and well experienced faculty members for grooming the student's proficiency in their subjects. In addition, an active training cell is acquainting the students with essential technical and soft skills. After that the placement cell successfully carry out placements under the expert guidance of our principal.

VISION AND MISSION OF THE INSTITUTION

VISION

PMC TECH strives to achieve excellence in technical Education through innovative teaching, learning and applied Multidisciplinary research with professional and ethical practices.

MISSION

PMC TECH will Endeavour

- To become the state of art teaching and learning center for Engineering and Technology, Research and Management Studies
- To have world class infrastructure for providing quality education and research towards creativity, self-discipline and ethical values
- To associate with industry, R&D and business organizations and to have connectivity with the society
- To create knowledge, based professionals to enrich their quality of life by empowering self and family.

ABOUT THE DEPARTMENT

The Department of Electrical & Electronics Engineering was established in the academic year 2002-2003 & Postgraduate Programme M.E., in Power Electronics and Drives in 2013, and is currently recognized by Anna university for Ph.D research.

It has well-equipped laboratories with state-of-the-art Electrical Machines, Power Electronics and Power System Simulation Lab built with Latest software's. Qualified and experienced faculty members have been involved in teaching and conducting various short-term courses for the benefit of students. The Department initiates the students in research projects in Embedded Systems, Power systems and Power Electronics through the IEDC and MSME which is based on the collaboration of Institution & Industry.

VISION AND MISSION OF THE DEPARTMENT

VISION

To develop eminent electrical and electronics engineers with innovation ability, research and ethical values.

MISSION

M1: To impart fundamental and advanced education in Electrical, Electronics and interdisciplinary disciplines, suitable for emerging industrial and societal needs.

M2: To endow the students in research activities leading to innovation.

M3: To inculcate the habit of leadership, ethics and lifelong learning for betterment of self and society.

Chairman's Message



“The aim of education should be to teach us rather how to think, than what to think - rather to improve our minds, so as to enable us to think for ourselves, than to load the memory with thoughts of other men”

In this era of rapid technological advancement, the role of engineers is more critical than ever. At PMC, we understand the importance of fostering out-of-the-box thinking and innovative approaches – qualities that define a true engineer. We are committed to providing our students with the skills and knowledge necessary not only to excel in their chosen fields but also to become valuable contributors to society.

I extend my best wishes to all our students and look forward to witnessing their future successes and positive impact on the world.

**Shri.P.Kumar,
Chairman,
PMC TECH- Group of Institutions**

Secretary's Message



“Great results are attained only by great patience, great courage and great attempts”

I believe every student has a wealth of untapped potential waiting to be discovered. With the right support, guidance, and a positive environment, we can help each student unlock their unique talents and achieve their personal best. This institution is dedicated to providing that platform for growth, where inherent abilities are nurtured and celebrated.

**Smt. P. Mallar,
Secretary,
PMCTECH–Group of
Institutions.**

Principal's Message



“Education has the potential to propel you forward, but in practice, it often hinders progress with superficial learning.”

Education functions as an important which is used to facilitate integration of the younger generation into the logic of the present system and to bring many great things to happen creatively which is beneficial to the society. Any technical program is the platform to demonstrate the student's own talents innovatively and effectively. Hard work is the only key to succeed in such tasks.

**Dr.S.Chitra,M.E,Ph.D.,
Principal,
PMCTECH- Engineering College**

HOD's Message



Electrical and Electronics Engineering is the branch that deals with designing and testing circuits that use the electromagnetic properties of the electrical components such as resistors, capacitors, inductors and transistors to achieve a particular functionality.

The theoretical together with the practical content of the source provides a thorough knowledge of the core concepts relating to transmission of signals along the global. Our aim is to develop In young technocrats, ability to solve design-oriented problems in electronic circuits and various communication systems. Electrical and Electronics Engineers have good employment opportunity in power generation, industrial, core & IT fields.

**Dr. S.Mahendiran, M.E, Ph.D.,
HOD/EEE,
PMCTECH–Engineering College.**

Chief Patrons

Shri.P.Kumar, Chairman, PMC TECH - Group of Institutions

Smt.P.Mallar, Secretary, PMC TECH – Group of Institutions

Smt.P.Sasirekha, Trustee, PMC TECH–Group of Institutions

Patron

Dr.S.Chitra, Principal, PMCTECH–Engineering College

Convener

Dr. S.Mahendiran, Associate Professor, HOD/ Electrical & Electronics Engineering

Editorial Board Members (Faculty)

Dr. C.R.Balamurugan, Professor / Department of EEE

Dr. M. Sahithullah, Associate Professor / Department of EEE

Mrs. G. Shasikala, Assistant Professor / Department of EEE

Mrs.S.MeenaKumari, Assistant Professor / Department of EEE

Mr. T. Senthilkumar, Assistant Professor / Department of EEE

Mr.R.Vinoth, Assistant Professor / Department of EEE

Mrs.L.Maheswari, Assistant Professor / Department of EEE

Mrs.S.Madhumathi, Assistant Professor / Department of EEE

Mrs.M.Jayashree, Assistant Professor / Department of EEE

Mr N.Rajesh, Assistant Professor / Department of EEE

Mr.T.DineshKumar, Assistant Professor / Department of EEE

Editorial Board Members (Students)

N. Maha Ajithkumar, final year EEE

A. Hemalatha, final year EEE

M. Boja prasath, final year EEE

S. Barath, third year EEE

S. Chandra sekar, third year EEE

N. Nayana, third year EEE



**Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
SYMPOSIUM/CONFERENCE/SEMINAR/FDP/GUEST LECTURES
ACADAMIC YEAR 2023-2024 (EVEN SEMESTER)**



CO-CURRICULAR ACTIVITIES

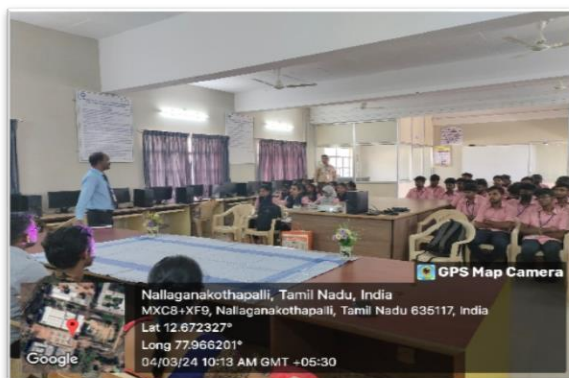
S.NO	NAME OF THE EVENT	RESOURCE PERSON	DATE	YEAR/ STRENGTH
1.	Technical Seminal on “Recent Power Switching Devices”	Dr.I.Thangaraju, M.E,Ph.D. Associate Professor Govt College of Engineering, Bargur.	21.2.2024	III / 60
2.	One day Technical seminar on Recent power Electronic converter	M.Marudhupandi Sr.Project Engineer, VI Microsystems Pvt Ltd, Chennai.	4.3.2024	III / 60
3.	Technical training on “Hybrid power system using MATLAB, MIPOWER using KI CAD”	Sanjana S M Innovation Engineering Projects, Hosur. Immaculate Suganthi T Innovation Engineering Projects, Hosur	7.3.2024	III / 60
4.	Technical Seminar on “Sustainable development goals-2030”	Dr.Suresh Muthusamy (IEEE Member) Assistant Professor (Sr.Gr.EEE) Kongu Engineering College Perundurai, Erode	26.3.2024	II / 65
5.	Technical Seminar – on “Recent Advancements in CBs”	Mr.Sanjay Deonath patil Deputy Director National power Institute	16.4.2024	IV / 36

		Bangalore		
6.	National conference on Emerging Trends in Renewable Energy, Power Quality & Optimization Techniques (ETREPQOT 2K24)	Er.S.Sivasakthivel, Design Engineer, CCUBA TECHNOLOGIES, HOSUR	26.4.2024	Internal & external participants
7.	One day Technical seminar on “Unit Commitment”	Mr.R.K.Ashok Kumar Technical Proposal Engineer H & MV Engineering Bangalore	2.5.2024	IV / 36
8.	Two days’ Workshop on “PCB & TINKER CAD”	T.Immaculate Suganthi Novate Engineering Products, Hosur.	22.5.2024 to 24.5.2024	II / 65

Technical Seminal on “Recent Power Switching Devices”



One day Technical Seminar on Recent power Electronic Converter



Technical training on “Hybrid power system using MATLAB, MIPOWER using KI CAD

ER.PERUMAL MANIMEKALAI
COLLEGE OF ENGINEERING
INSPIRE TO INNOVATE
Koneripalli, HOSUR 635 117.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
 The HOD and Faculty Members Cordially invite you
Technical training on "HYBRID POWER SYSTEM
Using MATLAB, MIPOWER Using Ki CAD"

Date: 07.03.2024
 Time: 9.00 am- 4.15pm

SANJANA S M
 Innovation engineering projects, Hosur

IMMACULATE SUGANTHI T
 Innovation engineering projects, Hosur

Shri.P.KUMAR,
CHAIRMAN,PMCTECH

Smt.P.MALLAR,
SECRETARY,PMCTECH

Prof.N.SUDHAKARAN,
DIRECTOR,PMCTECH

Dr.S.CHITRA,M.E, Ph.D,
PRINCIPAL,PMCTEH

KINDLY GRACE THE OCCASION BY YOUR PRESENCE
 ALL ARE INVITED

ER.PERUMAL MANIMEKALAI
COLLEGE OF ENGINEERING
INSPIRE TO INNOVATE
Koneripalli, HOSUR 635 117.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IN ASSOCIATE WITH

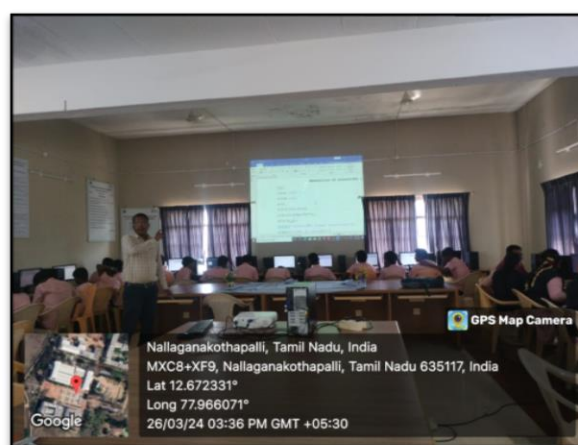
Technical training on
"HYBRID POWER SYSTEM
Using MATLAB, MIPOWER Using Ki CAD"

SANJANA S M
Innovation engineering projects
Hosur

IMMACULATE SUGANTHI T
Innovation engineering projects
Hosur

Date: 07.03.2024
 Time: 9.00 am- 4.15pm

Technical Seminar on “Sustainable development goals-2030”



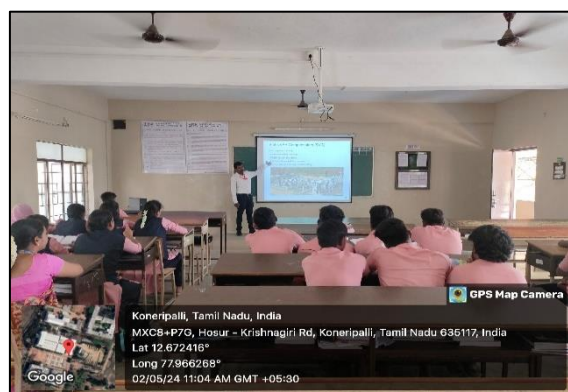
Technical Seminar on recent Advancements in Circuit Breaker



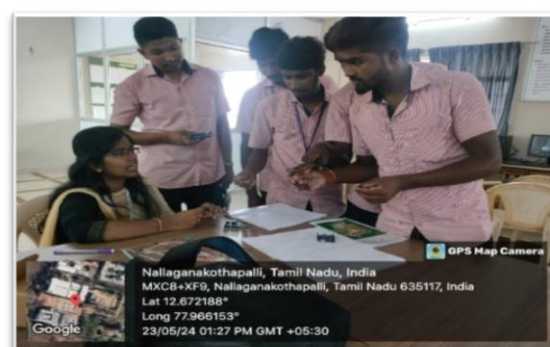
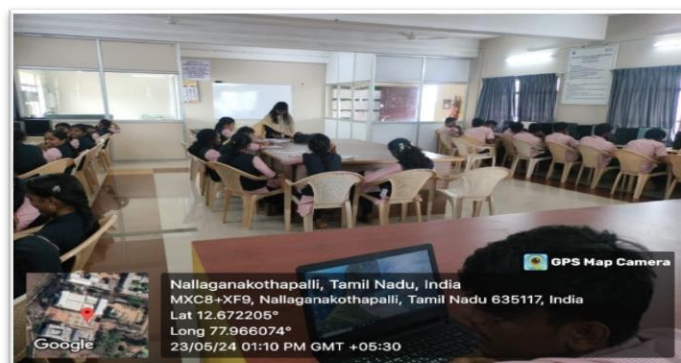
National conference on Emerging Trends in Renewable Energy, Power Quality & Optimization Techniques (ETREPQOT 2K24)



One day Technical Seminar on Unit Commitment



Three days' workshop on PCB & Tinker CAD (22.5.2024 & 24.5.2024)



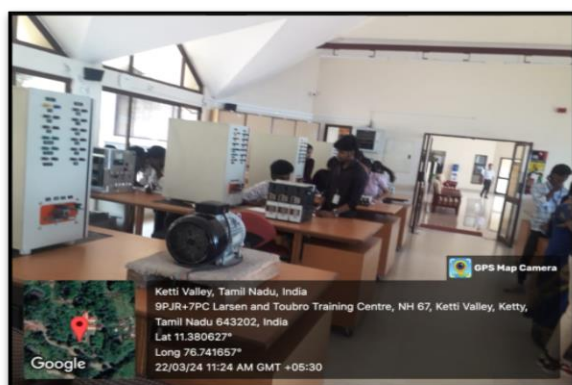
**Department of Electrical and Electronics Engineering
Academic Year 2023-2024 (EVEM SEM)**

**PARTICIPATIONS OF STUDENTS IN CONFERENCE, SYMPOSIUM,
TECHNICAL EXHIBITIONS (2023-2024)**

INDUSTRIAL VISIT

S.No	Year/Strength	Name of the company	Period of Visit	
			Start date	End date
1.	III / 31	L & T switch gear, Coonoor (Ooty)	22.3.2024	23.3.2024

III-year EEE Students seeking Industrial visit to L&T Switchgear



INDUSTRIAL TRAINING

S.No	Name of the Student	Year	Name of the company	Period of Internship	
				Start date	End date
1.	Mr.L.Sachin	III	Exide Industries Limited	29.1.24	3.2.24
2.	Mr.R.Manjunath	III	Exide Industries Limited	29.1.24	3.2.24
3.	Ms.T.Haripriya	II	Zeco Aircon Limited	19.2.2024	26.2.2024
4.	Mr.K.Vasanth	III	Titan Engineering & Automation Limited	20.2.2024	29.2.2024


EXIDE
 EXIDE INDUSTRIES LIMITED
 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 9

	
<h2>CERTIFICATE OF INTERNSHIP</h2> <p>THIS CERTIFICATE IS AWARDED TO</p> <p style="font-size: 1.2em;"><u>Ms. T. HARIPRIYA</u></p> <p>(Reg No: 610822105021)</p> <p>Was in our company as an internship from February 19, 2024 to February 26, 2024 in the Department of Electrical and Electronics Engineering.</p> <p>She is found to be hardworking sincere and diligent, we wish her all the best for future.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 45%;"> <p>_____ DATE</p> </div> <div style="width: 45%; text-align: right;"> <p>_____ SIGNATURE</p> </div> </div>	
	
Zeco Aircan Ltd <small>CIN Number U75999GPNR2024NPL000001 GST IN 33AAACU2010B1N75</small> <small>Corporate office: VIT-VEIT Road - 3rd Floor - 600 046 Chennai Tamil Nadu India. Telephone : +91 8860000000 Email: info@zecoaircan.com</small> <small>Plant Office: Unit Production Building - 1st Floor - 600 046 Chennai Tamil Nadu India. Telephone : +91 8860000000 Email: hr@zecoaircan.com</small> <small>Maintenance: 2nd Floor - 600 046 Chennai Tamil Nadu India. Telephone : +91 8860000000 Email: maintenance@zecoaircan.com</small> <small>Accounts: 3rd Floor - 600 046 Chennai Tamil Nadu India. Telephone : +91 8860000000 Email: accounts@zecoaircan.com</small> <small>Human Resources: 4th Floor - 600 046 Chennai Tamil Nadu India. Telephone : +91 8860000000 Email: hr@zecoaircan.com</small>	

TEAL
TITAN ENGINEERING & AUTOMATION LIMITED

01st Mar. 2024


TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Vasanth K. B.E** (Electrical & Electronics Engineering), student of **Er.Perumal Manimekalai College of Engineering, Hosur**, has completed his Internship training in our organization from **20.02.2024 to 29.02.2024**.

During this period, he has evinced keen interest in learning and his conduct & character were found to be **GOOD**.

We wish all success in his future endeavors.

With regards,
For **TITAN ENGINEERING & AUTOMATION LIMITED**,


FELIX DEVASIA
ASSOCIATE SENIOR MANAGER – PEOPLE FUNCTION

TITAN ENGINEERING & AUTOMATION LIMITED
Plot No. 1, 7A & 7B, SIPCOT Industrial Complex, Hosur - 635 126, Tamil Nadu, India. Tel : +91 4364 864 831, Fax : +91 4364 276 523
Regd Office: 1st & 2nd Fls., 8, Mangalam Street, Oppannaikaval Road, Hosur - 635 110, Tamil Nadu, India. Tel : +91 4364 431 500
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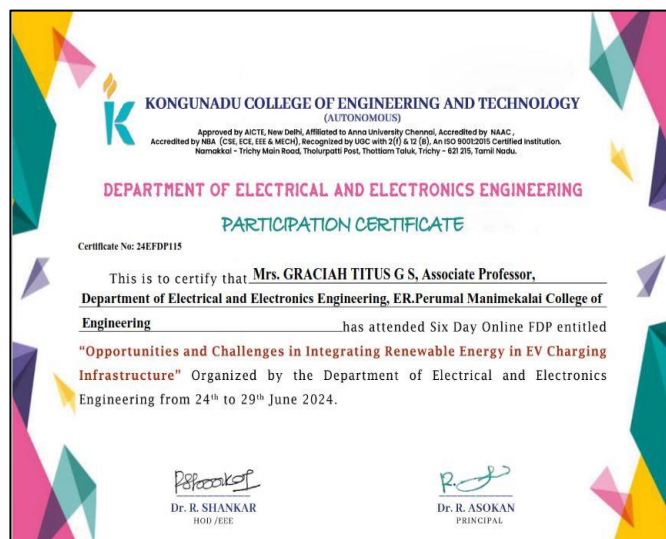
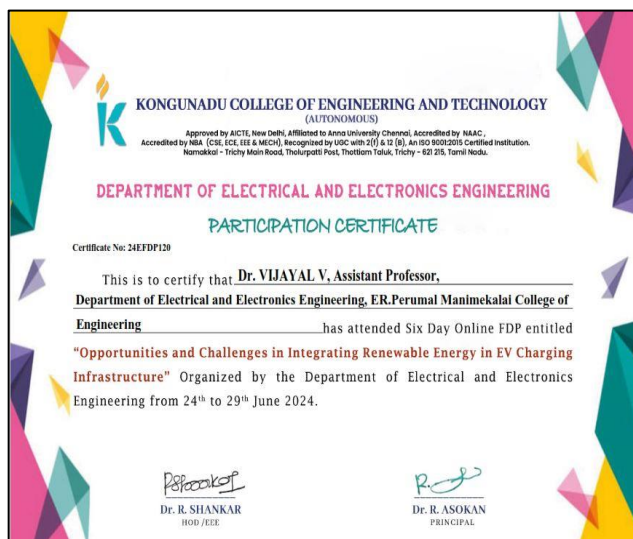
Department of Electrical and Electronics Engineering
Academic Year 2023-2024 (EVEM SEM)
Participation of staffs in Conference, Journal, Symposium and Technical Exhibitions

A. FACULTY FDP/WORKSHOP/INTERNSHIP

Si.No	Name of the Faculty	Title of the FDP/STTP/NPTEL	Organization Details	Duration	No.of days
1.	Dr.C.R.Balamurugan	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
		workshop on Outcome Based Education	Er.Perumal Manimekalai College of Engineering	2.1.2024 to 6.1.2024	5 days
2..	Dr.S.Mahendran	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
3..	Dr.M.Sahithulla	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
4.	Dr.V.Vijayal	Opportunities & Challenges in Integrating Renewable Energy in EV Charging Infrastructure	Kongunadu College of Engineering	24.6.2024 to 29.7.2024	6 days
5.	Mrs.S.Meenakumari	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
6.	Mr.T.Senthilkumar	EV design using Matlab	I - Stem	29.5.2024 to 20.6.2024	23 days

7.	Mrs.N.Neeladevi	Opportunities and Challenges in Integrating Renewable Energy in EV Charging Infrastructure	Kongunadu College of Engineering	24.6.2024 to 29.7.2024	6 days
8.	Mrs.G.S.Graciah Titus	Opportunities and Challenges in Integrating Renewable Energy in EV Charging Infrastructure	Kongunadu College of Engineering	24.6.2024 to 29.7.2024	6 days
9.	Mr.S.Devaraj	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
10.	Mr.N.Selvakumar	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
11.	Mr.T.Senthilkumar	Outcome based Education	NITTTR, Chennai	2.1.2024 to 6.1.2024	5 days
12.	Mr.R.Vinoth	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
13.	Mrs.L.Maheswari	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
14.	Mrs.R.M.Madhumathi	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
15.	Mrs.M.Jayashree	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days

16.	Mr.N.Rajesh	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days
17.	Mr.DineshKumar T	Generative AI	D I Patil College of Engineering	4.3.2024 to 9.3.2024	6 days



B. FACULTY CONFERENCE

Si.No	Name of the faculty	Title of the Paper	Name of the Conference	ISBN NO.	Date
1.	Mrs.V.Vijiyal	IOT Based smart parking system using ESP8266	International Conference on Adaptive Technologies on sustainable growth	978-93-340-2953-6	27.4.2024
2.	Mrs.N.NeelaDevi				
3.	Mrs.G.S.Graciah Titus				



C. FACULTY JOURNAL

Si.no	Name of the Faculty	Name of the Journal	Title	ISSN No	Volume
1.	Dr.Mahendiran Mrs.N.Neeladevi	Industrial Engineering journal	Smart Home Gas Level Monitoring System with ESP32 and BLYNK Integration	0970-2555	Volume:53, Issue6, No.1, June:2024
2.	Dr.C.R.Balamurugan	Industrial Engineering journal	IOT based battery Monitoring of Alerting for Electrical Vehicle	0970-2555	Volume:53, issue5, No.6, May:2024
		International Journal on Semantic Web and information System	Semantic Web-based Energy – Efficient Design of Dual-Mode Vehicles based on Deep Neural Networks		Volume:20 Issue 1, January-December: 2024
			A New Asymmetric H-6 Structured Multilevel Inverter with Reduced Power Components		5 th January 2024
		Electrical Engineering,Springer Publication	FOPIR controller for TCSC based gate turn-off switches to control power quality in transmission line		3 rd feb 2024
		Electrical Engineering,Springer Publication	Selective harmonic elimination in Novel 27-Level trinary DC source inverter using optimization algorithm for hybrid renewable energy		28 June 2024
3.	Mrs.G.Shasikala	Journal of interdisciplinary Cycle Research	Effortless Smart Living-Smart Home Automation with Arduino UNO	0022-1945	Volume XVI, Issue V, May:2024

4.	Mr.T.Senthil Kumar	Journal of interdisciplinary Cycle Research	IOT based Industrial Sensor Monitoring and Automatic Controlling System	0022-1945	Volume XVI, Issue V, May:2024
		International Journal of Advanced Trends in Engineering and Management (IJATEM)	Artificial Intelligence with Metaheuristic Algorithm Based Optimization for a Hybrid Energy Storage System	2583-7052	Volume 3, Issue-05, May 2024
5.	Dr.V.Vijayal	Industrial Engineering journal	IoT based smart parking system using ESP8266 Through a mobile App	0970-2555	Volume 53, Issue 5, No:8 May:2024
6.	Mrs.S.Meenakumari	Journal of interdisciplinary Cycle Research	Revolutionizing smart Agriculture with Efficient Irrigation Management using NODEMCU	0022-1945	Volume XVI, Issue V, May:2024

Industrial Engineering Journal
ISSN: 0970-2555
Volume : 53, Issue 5, No.6, May : 2024

IOT BASED BATTERY MONITORING OF ALERTING FOR ELECTRICAL VEHICLE
Dr.C.R.Balamurugan, Govtham G., Balu R., Rajagrasah M., Madhu N, Er. Perumal manimekalai College of Engineering, Hosur, drcb2015@gmail.com

ABSTRACT
The increasing adoption of electric vehicles (EVs) has heightened the demand for efficient and reliable battery monitoring systems. An Internet of Things (IoT)-based battery monitoring and alerting system for EV applications provides a comprehensive approach to track and manage the performance and health of EV batteries in real-time. This system utilizes advanced sensors and communication technology to gather data on various battery parameters such as voltage, current, temperature, and state of charge (SOC). The collected data is then transmitted wirelessly to a central monitoring platform, where it can be analyzed for early detection of potential issues such as overcharging, undercharging, or temperature anomalies. The system employs intelligent algorithms to provide proactive alerts and notifications to EV owners or operators when the battery's health or performance deviates from the optimal range. This real-time alerting enables timely interventions, preventing costly damage and ensuring the longevity of the battery. Furthermore, the system's data analytics capabilities facilitate predictive maintenance, allowing users to schedule servicing or replacements before critical failures occur. Overall, the IoT-based battery monitoring and alerting system enhances the safety, reliability, and efficiency of EVs, promoting sustainable transportation solutions and improving user experience.

Keywords : IOT, Battery Monitoring, Electric Vehicles, ESP32, BMS Module, Current Sensor, Voltage Sensor, Lithium Battery, LCD Display, Alerting System.

1. Introduction
Electronic notice board can be used at different places where the information is displayed. For example, if the system is implemented in colleges all the information uses to the students can be shared by the higher authorities of the college. It is very easy to use this kind of notice board and display the information. This process helps in having less physical work which is mostly used for physically challenged people. The main aim of the project is to have an electronic notice board where the least information can be shared by the faculty to the students. The system is using a wireless system so there is no mess of wires on the board and so the system is very flexible and it can store the information up to 30 meters. The input here we are using is an android phone. This phone is connected to electronic notice board by using Wi-Fi through connection terminal app. The following components are used to create hardware module
1. Microcontroller ESP32
2. Battery Management System (BMS)
3. Wireless Communication Module
4. Power Supply
5. User Interface Components
6. Display Interface

Scope of the method
• Constantly monitor the battery's health, charge level, and temperature in real-time.
• Provides early warnings and alerts about potential issues or failures, allowing for proactive maintenance and intervention.
• Enables remote access to battery data and alerts via a mobile app or web interface, allowing vehicle owners or manufacturers to monitor the battery's status from anywhere.
• Collects and analyzes historical data to identify patterns and trends, facilitating predictive maintenance and optimization of battery performance.

UGC CARE Group-I

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REVOLUTIONIZING SMART AGRICULTURE WITH EFFICIENT IRRIGATION MANAGEMENT USING NODEMCU
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¹Assistant Professor, Department of Electrical and Electronics Engineering, Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu, India.
²HOOD and Associate Professor, Department of Electrical and Electronics Engineering, Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu, India.
^{3,4,5,6}UG Students, Department of Electrical and Electronics Engineering, Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu, India.

Abstract
Scarcity of water in agriculture poses a significant challenge in its optimal utilization. Addressing this, an automated irrigation system integrates low-cost sensors to monitor critical variables like soil moisture, pH, soil composition, and weather conditions. This paper introduces a cutting-edge smart irrigation solution tailored for agricultural and garden applications. Central to this system is the ESP32 microcontroller board, capitalizing on its powerful processing and energy-efficient features. The setup comprises key elements including a relay for water flow regulation, a soil moisture sensor for real-time moisture assessment, an IR sensor for obstacle detection, and a DHT11 temperature sensor for environmental monitoring. Additionally, an innovative sensor, exclusive to this setup, offers invaluable insights into soil conditions vital for plant health. Further enhancing functionality, a buzzer provides audible alerts for system status updates or critical events. Designed for affordability, ease of use, and adaptability, this system caters to diverse irrigation requirements. Through seamless integration of these components and harnessing the ESP32 microcontroller's capabilities, the proposed smart irrigation solution ensures precise water management, contributing significantly to sustainable agricultural practices and environmental preservation.

Keywords: NodeMCU, Smart irrigation system, sensors, Agriculture, Buzzer.

1. Introduction
The development of a Smart Agriculture model represents a real-time monitoring system that tracks soil properties such as temperature, humidity, soil moisture, and pH levels. Employing modern irrigation techniques, farmers can conserve up to 51% of water usage. This approach relies on two irrigation methods: overhead sprinklers and flood-type feeding systems. Through IoT technology, farm operations can be remotely controlled from anywhere, anytime, overcoming logistical challenges [1-3]. To address the limitations of traditional irrigation techniques, new methods focus on applying small amounts of water directly to the root zone of plants, thus preventing soil moisture stress and promoting optimal growth. Compared to conventional methods like

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Authored by :
Mr.T.Senthil Kumar
from
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from
Er. Perumal Manimekalai College of Engineering, Hosur, Tamil Nadu, India.

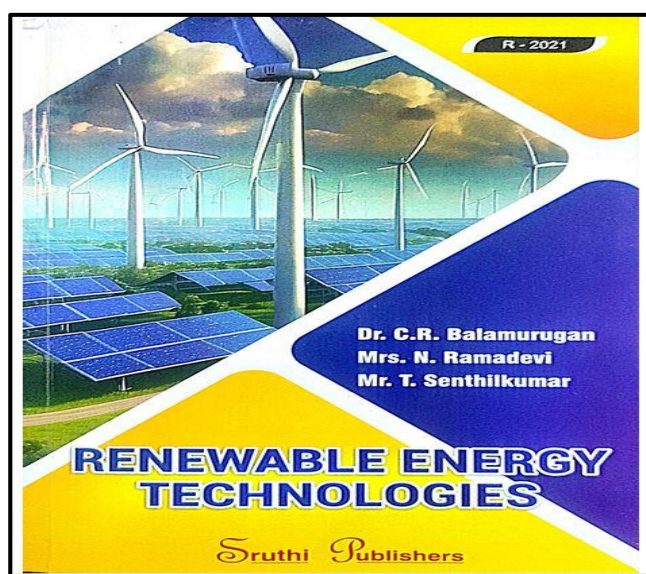
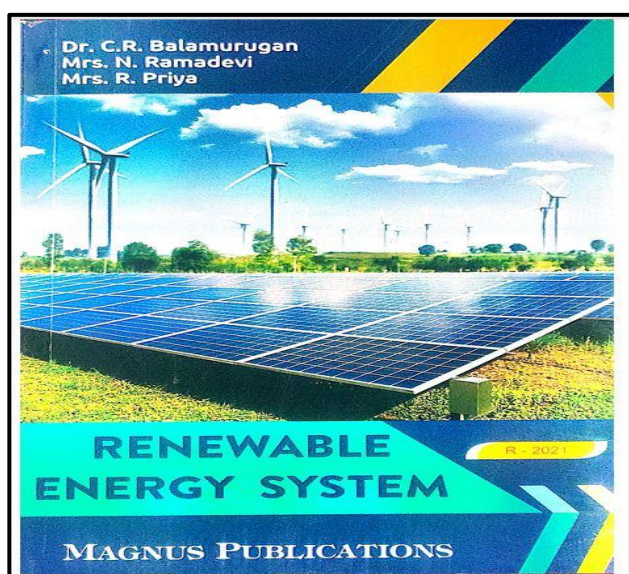
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D. FACULTY BOOKS PUBLISHED

S.no	Faculty Name	Name of the Book/Chapter	Details of publication	Date
1.	Dr.C.R.Balamurugan,	Renewable Energy System	MAGNUS Publication ISBN:978-81-968522-3-8	First Edition- February2024
2.	Dr.C.R.Balamurugan, Mr.T.Senthil Kumar	Renewable Energy Technologies	SRUTHI Publication ISBN:978-81-961881-6-0	First Edition- June:2024



E. FACULTY / DEPARTMENT FUNDS RECEIVED

S.no	Name of the Faculty/Department	Project / Workshop Title	Funding Agency	Fund
1.	Dr.C.R.Balamurugan	Student project scheme	Tamilnadu state council for Science and Technology	7500

805.	Dr.C.R.Balamurugan Professor and Associate Director/R&D Dept. of EEE Er. Perumal Manimekalai College of Engineering. Krishnagiri-635 117	Automatic rain and dust sensing system using car wiper	Naveen M, Balu R, Bojaprasath M, Gowtham G.	EEE-0567	7500
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**Department of Electrical and Electronics Engineering
Academic Year 2023-2024 (EVEM SEM)**

Name of the Dept. Association: Effulgent Electrical Engineer's Association (EEFA)

List of Students Office Bearers

S.No	Responsibility	Name of the Student	Year	School Education	CGPA
1	President	Ragavendhra Rao.K	Final	Sri Vijay Vidhyalaya Matric Hr Sec School Krishnagiri	7.6
2	Vice President	Megala.M	Final	Govt Girls Hr Sec School, Hosur	7.8
3		Deekshitha.C	Third	Viswa Chetan Puc College, Hosur Road.	8.4
4	Secretary	Anirud Shriram. A. G	Third	Parimalam Matric Higher Secondary School, Dinnur	7.4
5	Joint Secretary	Aamina Begum. S	Second	Govt Girls Hr. Sec School, Shoolagiri.	8.2
6	Treasurer	Veera Ragavan. S	Second	IVN Boys Govt Hr Sec School, Gajalnaickenpatti.	8.0

Topper list

Si.No	Year	Reg.Number	Student Name	Average	Rank
1.	IV	610820105014	Naveen.M	9.25	I
2.	IV	610820105004	Hemalatha.A	8.875	II
3.	III	610821105005	Bhavya.K	9.0	I
4.	III	610820105005	Kavya.M	8.875	II
5.	III	610821105038	Soundarya.P	8.53	II
6.	II	610822105030	Mahalakshmi.C	6.97	I
7.	II	610822105309	Raveena R Moorthy	6.8	II

Placed student list (Batch:2020 – 2024)

S.no	Register Number	Name of the Student		Company	Salary
1.	610820105004	Hemalatha	A	WEG INDUSTRIES	2.2LPA
2.	610820105005	Kavya	M	WEG INDUSTRIES	2.2LPA
3.	610820105006	Keerthana	B	SAVVY CORPORATE SERVICES PVT.LTD	2.64 LPA
4.	610820105007	Likith	C	AERON SYSTEMS PVT LTD	4.5LPA
5.	610820105008	Madhan	V	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8LPA
6.	610820105009	MahaAjith Kumar	N	AERON SYSTEMS PVT LTD	4.5LPA
7.	610820105010	Mahalakshmi	S	H&MV PVT LTD	3 LPA
8.	610820105012	Megala	M	H&MV PVT LTD	3 LPA
9.	610820105013	Mutharasan	A	FOXCONN	3 LPA
10.	610820105014	Naveen	M	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
11.	610820105015	Pavankalyan	K	SAVVY CORPORATE SERVICES PVT.LTD	4.5LPA
12.	610820105016	Pavithra	M	SAVVY CORPORATE SERVICES PVT.LTD	2.5LPA
13.	610820105020	Sakthivel	C	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
14.	610820105021	Sanjai	M	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
15.	610820105022	Saran	P	SAVVY CORPORATE SERVICES PVT.LTD	2.5 LPA
16.	610820105024	Steephan Gerald	I	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
17.	610820105025	Uveash	M	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
18.	610820105028	Vinoth	L	FOXCONN	1.8 LPA
19.	610820105301	Abishek	K	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
20.	610820105304	Bojaprasath	M	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
21.	610820105310	Purushothaman	S	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
22.	610820105311	Raghavendra Rao		SAVVY CORPORATE SERVICES PVT.LTD	3 LPA

23.	610820105312	Rahul	M	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
24.	610820105313	Sanjai	P	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA
25.	610820105314	Sudharson	N	SRI SAI POWER AND EQUIPMENTS PRIVATE LIMITED	1.8 LPA

Sports Activities

S.no	Year	Name of the Game	Name of the Student	Prize/Award
1.	2023-2024	Hepathlon	G.Jayashree	1 st Prize
		Javelin Through	G.Jayashree	1 st Prize
		Relay (4x100)	G.Jayashree	3 rd Prize

**தொட்டனைத் தூறும் மணற்கேணி மாந்தர்க்குக்
கற்றனைத் தூறும் அறிவு.**

