



NELENA

(News of Electrical Engineers Activities)

A Half Yearly News Letter Department of Electrical and Electronics Engineering

PVP Siddhartha Institute of Technology
Autonomous & Permanent Affiliation to JNTUK, Kakinada
AICTE Approved, Accredited with A⁺ grade by NAAC, NBA Accredited and
ISO 9001: 2015 certified Institution
(Sponsored by Siddhartha Academy of General and Technical Education)
Kanuru, Vijayawada- 520007

Volume: 21

July-December-2022

Faculty Incharge :

Dr. R.Swathi

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Quotation

“Be a strong wall in the hard times and a be smiling sun in the good times..”

Dinesh Malla

MOU's EXECUTED:

Department executed MOU's with the following firms during July-Dec 2022.

- Software Development Centre South Central railway Women welfare organization ,Vjayawada.
- Bureau of Indian Standards,Vijayawada

FACULTY PUBLICATIONS:

International Journals:

a)Scopus indexed journals

1. **KANAGASABAI LENIN**, “Real Power Loss Reduction by Extreme Learning Machine, Chaotic, Quantum and Opposition based California Condor Optimization Algorithms”, Journal of Engineering Science and Technology Review, Volume 15, No. 2, July 2022, Pages 102 – 116, ISSN: 1791-2377. (Scopus Indexed).
2. **SRINIVASARAO THUMATI**, S Vadivel, M Venu Gopala Rao, “Honey Badger Algorithm Based Network Reconfiguration and Integration of Renewable Distributed Generation for Electric Vehicles Load Penetration”, International Journal of Intelligent Engineering and Systems, Vol.15, No.4, PP: 329-338, August 2022, ISSN: 2185-3118, DOI: 10.22266/ijies2022.0831.30. (Scopus Indexed).

3. **LENIN KANAGASABAI**, “Real power loss reduction by Q-learning and hyper- heuristic method”, International Journal of System Assurance Engineering and Management, Volume 13, issue 4, August 2022, Pages: 1607 - 1622. ISSN: 0976- 4348 (ESCI & Scopus Indexed). <https://doi.org/10.1007/s13198-021-01516-x>
4. **LENIN KANAGASABAI**, “Jerusalem artichoke algorithm for power loss reduction and power stability enhancement”, International Journal of System Assurance Engineering and Management, Volume 13, issue 4, August 2022, Pages: 1788 – 1800, ISSN: 0976-4348 (ESCI & Scopus Indexed). <https://doi.org/10.1007/s13198-021- 01550-9>
5. **LENIN KANAGASABAI**, “Real power loss reduction by quantum based Ptilonorhynchus violaceus optimization and Haliastur Indus algorithms”, International Journal of System Assurance Engineering and Management, Volume 13, issue 4, August 2022, Pages: 1913 – 1931, ISSN: 0976-4348 (ESCI & Scopus Indexed). <https://doi.org/10.1007/s13198-021-01602-0>
6. **M.HEMANTH SAI, N.VIJAYA ANAND** and P.Venu Madhav, “IoT Based Real- Time Energy Monitoring”, ICIC Express Letters, Volume 16, Number 8, August 2022, ISSN:1881-803X, PP:827-834, DOI: 10.24507/icicel.16.08.827 <http://www.icicel.org/ell/contents/2022/8/el-16-08-04.pdf> (Scopus Indexed).
7. **LENIN KANAGASABAI**, “Real Power Loss Reduction by Electric Field, Lepas Anatifera Mating and Dunlin Optimization Algorithms”, GMSARN International Journal, Volume 16, Number 3, September 2022, PP: 256-262, ISSN: 1905-9094. (Scopus Indexed).
8. **KUMAR CHERUKUPALLI and BADDU NAIK BHUKYA**, “An innovative approach congestion management in power transmission lines with advanced control”, Journal of Theoretical and Applied Information Technology, ISSN: 1992- 8645, Vol.100, No.18, pp 5396-5408, September 2022. <http://www.jatit.org/volumes/Vol100No18/32Vol100No18.pdf> (Scopus Indexed).
9. **K. LENIN**, “Real Power Loss Reduction by Rhinotia hemistictus based Jackal Optimization Algorithm”, Suranaree Journal of Science and Technology, ISSN: 2587- 0009, Vol. 29 Issue 5, pp: 010162(1-8), September-October, 2022. <https://ird.sut.ac.th/e-journal/Journal/pdf/220104796.pdf> (ESCI & Scopus Indexed).
10. **K.LENIN**, “Real power loss dwindling and voltage reliability enrichment by gradient based optimization algorithm”, International Journal of System Assurance Engineering and Management (Springer), ISSN: 0976-4348, Volume13, Issue: 5, pp: 2727–2742, October 2022. <https://link.springer.com/article/10.1007/s13198-022- 01743-w> (ESCI & Scopus Indexed).
11. **K.LENIN**, “Buoyancy based optimization algorithm for real power loss diminution”, International Journal of System Assurance Engineering and Management (Springer), ISSN: 0976-4348, Volume

- 13, Issue: 5, pp: 2442–2457, October 2022. <https://link.springer.com/article/10.1007/s13198-022-01656-8> (ESCI & Scopus Indexed).
12. **K.LENIN**, “Mathematics based calculation and stemonitis inspired optimization algorithms for loss reduction and power solidity augmentation”, International Journal of System Assurance Engineering and Management (Springer), ISSN: 0976-4348, Volume 13, Issue: 5, pp: 2710–2726, October 2022.<https://link.springer.com/article/10.1007/s13198-022-01742-x> (ESCI & Scopus Indexed).
 13. **RAGALEELA DALAPATI RAO, PADMANABHA RAJU CHINDA, KUMAR CHERUKUPALLI**, Srinivasa Rao Mantri, “Security Enhancement and Loss Reduction In Deregulated Power Systems with a Series FACTS Device” Journal of Theoretical and Applied Information Technology 30th November 2022. Vol.100. No 22, PP: 6694- 6704, ISSN: 1992-8645 (Scopus Indexed).
 14. **L.KANAGASABAI**, “Tangible power loss dwindling by canadian Yukon cougar optimization algorithm”, Herald of the Bauman Moscow State Technical University, Series natural sciences, Volume: 104, No.:5, November 2022, pp:16-30, ISSN: 1812- 3368 (Scopus Indexed).
 15. **BALA SAIBABU BOMMIDI, BADDU NAIK BHUKYA, Swarupa Rani Bondalapati, HEMANTH SAI MADUPU**, "Congestion Management in Power Transmission Lines with Advanced Control Using Innovative Algorithm," WSEAS Transactions on Power Systems, vol. 17, pp. 354-363, November 2022. DOI: 10.37394/232016.2022.17.35 (Scopus Indexed).
 16. **LENIN KANAGASABAI**, “A Novel Antillean Nighthawk Swarm Optimization Algorithm for Loss Lessening and Power Reliability Expansion”, Technology and Economics of Smart Grids and Sustainable Energy, Volume 7, issue 1, December 2022 , Article number: 18, ISSN: 2199-4706, <https://doi.org/10.1007/s40866-022-00142-1>(Scopus Indexed).
 17. **LENIN KANAGASABAI**, “Novel Extreme Learning Machine and Chaotic in-Built Opposition Based – Quantum Ruddy Turnstone Optimization Algorithms for Real Power Loss Dwindling and Voltage Consistency Enhancement”, Technology and Economics of Smart Grids and Sustainable Energy, Volume 7, issue 1, Article: 25, December 2022, ISSN: 2199-4706. <https://doi.org/10.1007/s40866-022-00149-8> (ESCI & Scopus Indexed).
 18. **LENIN KANAGASABAI**, “Real Power Loss Reduction by Accipitridae Optimization Algorithm”, Technology and Economics of Smart Grids and Sustainable Energy, Volume 7, issue 1, Article: 24, December 2022, ISSN: 2199-4706. <https://doi.org/10.1007/s40866-022-00147-w>. (ESCI & Scopus Indexed).

19. T.Thenmozhi. M.V.Suganyadevi, R.Ramya, **P.MUTHUKUMAR**, “Hybrid energy management on electric vehicles for power grids with renewables system”, Elsevier, Environmental Challenges, Volume 9, December 2022, PP:100647, ISSN: 2667-0100 (Scopus Indexed).
20. **LENIN KANAGASABAI**, “Novel Western Jackdaw Search, Antrostomus Swarm and Indian Ethnic Vedic Teaching – Inspired Optimization Algorithms for Real Power Loss Diminishing and Voltage Consistency Growth”, International Journal of System Assurance Engineering and Management (springer) , Volume 13, issue 6, December 2022, PP: 2895-2919, ISSN: 0975-6809.(ESCI & Scopus Indexed)
21. **K. LENIN**, “Novel Quantum based Ceratitis and Tetrapturus georgii Optimization Algorithms for Real Power Loss Reduction”, Suranaree Journal of Science and Technology, Volume 30, Number 1, Pg: 010200 (1-7), January - February 2023, ISSN: 0858-849X. (Scopus Indexed).
22. **BADDU NAIK BHUKYA, PADMANABHA RAJU CHINDA**, Srinivasa Rao Rayapudi, and Swarupa Rani Bondalapati, "Advanced Control with an Innovative Optimization Algorithm for Congestion Management in Power Transmission Networks," Engineering Letters, vol. 31, no.1, pp: 194-205, ISSN: 1816-0948, March 2023. (Scopus Indexed).

b) SCI/SCIE/ESCI indexed journals:

1. **LENIN KANAGASABAI**, “Enhanced heat transfer search and enriched replicated coronary circulation system optimization algorithms for real power loss reduction”, Soft Computing (Application of soft computing), volume 26, issue 14, July 2022, PP: 6871–6888, ISSN: 1433-7479, <https://doi.org/10.1007/s00500-021-06630-3> (SCIE and Scopus Indexed).
2. Nookala Venu, **R.SWATHI**, Sanjaya Kumar Sarangi, V. Subashini, D.Arulkumar,Shimpy Ralhan,and Baru Debtera, “Optimization of Hello Message Broadcasting Prediction Model for Stability Analysis”, Wireless Communications and Mobile Computing, , Hindawi journal ,Volume 2022, July 2022, Article ID 2785810 , ISSN: 1530-8669, Special issue, pp: 1-9, Wiley Publisher. <https://doi.org/10.1155/2022/2785810> (SCIE and Scopus Indexed).
3. **LENIN KANAGASABAI**, “Chaotic implanted opposition-based-quantum equipoise state and Ascidiacea algorithms for loss lessening and power permanence enrichment”, Soft Computing (Foundations), Volume 26, issue 17, September 2022, Pages: 8183 – 8202, ISSN: 1433-7479, <https://doi.org/10.1007/s00500-022-07232-3> (SCIE and Scopus Indexed).
4. **PADMANABHA RAJU CHINDA, RAGALEELA DALAPATI RAO**, “Multi- attribute decision making approach for placement of dynaflo controllers in a power system network using particle mobility honey bee algorithm”, Ain Shams Engineering Journal, Volume 13,

Issue 5, September 2022, 101682, PP: 1-11, ISSN: 2090-4479, Impact factor: 3.180 (SCIE & Scopus Indexed). <https://authors.elsevier.com/sd/article/S2090447921004>

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5. **NIDUMOLU VIJAYA ANAND**, Ammanamanchi Venkata Jaya Sai Praneeth, Naveen Yalla & Vijay K. Sood, “Simplified DC voltage sensor less control of single- phase PFC converters in EV chargers”, Journal of Power Electronics, ISSN: 1598- 2092, Vol: 22, Issue: 11, pp 1956–1965, November 2022. <https://doi.org/10.1007/s43236-022-00494-y>. (SCIE and Scopus Indexed).

International Conferences:

1. **SAI GEETHA LAKSHMI VALLURU, DEVIKA RANI MTHUKURI, Dr.P.MUTHUKUMAR**, “An Improved version of Analyzing Detailed Model of Type-4 Wind Turbine Generator using PSCAD/EMTDC”, IEEE- Sponsored 3rd International Virtual Conference on Power Engineering Computing and Control PECCON’ 22, ISBN: 978-1-6654-8592-0, pp. 1-5, August 2022, organized by school of Electrical Engineering, Vellore Institute of Technology, Chennai in association with Deakin University, Australia during 5th - 6th May 2022. Doi: 10.1109/PECCON55017.2022.9851178. **(Scopus Indexed)**.
2. Kamalesh MS, **KUMAR CHERUKUPALLI**, Gopinath N, Jagadeeswaran S, Meenatchisundaram U, “Knowledge Based Power Sharing in DC-Homes and Power Injection in Single Phase Grid” August 2022, pp. 1-6, doi: 10.1109/ICEFEET51821.2022.9848268, 2nd IEEE International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET), during 24th – 25th June 2022, NIT Patna, India. **(Scopus Indexed)**
3. T.Gopi Krishna, Paruchuri Chandra Babu Naidu, **KUMAR CHERUKUPALLI**, A. Veera Reddy, M.Sravani, “Smart Energy Grid Using IOT”, August 2022, pp. 142- 147, doi: 10.1109/TECCON54414.2022.9854816. IEEE 2022 Trends in Electrical, Electronics, Computer Engineering Conference (TECCON), during 26th & 27th May 2022, REVA University, Bangalore, India. **(Scopus Indexed)**
4. **K.LENIN**, “Real Power Loss Reduction by Pieris rapae Optimization Algorithm”, IEEE IAS Global Conference on Emerging Technologies (GlobConET), September 2022, pp. 306-309, doi: 10.1109/GlobConET53749.2022.9872464, Arad, Romania during May 20-22, 2022 **(Scopus indexed)**
5. **K. LENIN**, "Real Power Loss Reduction by Mudskipper Optimization Algorithm," IEEE

2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT), October 2022, August 4-6, 2022 conducted by GRIET, Hyderabad, India, pp. 1-4, doi: 10.1109/SeFeT55524.2022.9909263. **(Scopus Indexed)**

6. **K. LENIN**, "Real Power Loss Reduction by Quantum based Mellivora Capensis Optimization Algorithm," IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT), October 2022, August 4-6, 2022 conducted by GRIET, Hyderabad, India, pp. 1-5, doi: 10.1109/SeFeT55524.2022.9909181. **(Scopus Indexed)**
7. **MUTHUKUMAR PARAMASIVAN V.** Nagarajan, L. Padmasuresh and M. V. Suganyadevi, "Power Factor Correction Strategies for BLDC Drives – A Review," IEEE Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICICT), October 2022, pp. 1821-1826, doi: 10.1109/ICICICT54557.2022.9917783 held at Kannur, India during 11-12 August 2022 **(Scopus Indexed)**
8. **K. LENIN**, "Quantum based Northern Rockhopper Penguin Optimization Algorithm for Power Loss Diminution," 2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT), November 2022, organized on September 23-25, 2022 at India Habitat Centre, Lodhi Road, New Delhi, India. With Financial Sponsorship of IEEE Industry Applications Society USA, pp. 1-4, doi: 10.1109/GlobConPT57482.2022.9938175. **(Scopus indexed)**
9. **K.LENIN** "Active Power Loss Diminution by Caulerpa Lentillifera Algorithm," 2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT), November 2022, organized on September 23-25, 2022 at India Habitat Centre, Lodhi Road, New Delhi, India. With Financial Sponsorship of IEEE Industry Applications Society USA, pp. 1-6, doi: 10.1109/GlobConPT57482.2022.9938253. **(Scopus indexed)**
10. **K.LENIN**, "Real Power Loss Reduction by Choosing Certain Parameters to Modernize - Grounded Algorithm", 2nd International Conference on Applied Mathematics, Modeling and Computer Simulation (AMMCS 2022), Wuhan, China, August 13-14, 2022, conducted by Hubei Zhongke Institute of Geology and Environment Technology, China, Advances in Transdisciplinary Engineering, December 2022 Volume 30, PP: 637 – 642, ISBN: 978-1-64368-353-9 **(Scopus indexed)**

11. L.Vishnu Vardhan , P.Chandra Babu Naidu and **KUMAR CHERUKUPALLI**, “Comparison and Analysis of SL-DS-DC Converter with VM-DC Converter” 2nd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), 11th -12th November 2022, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, ODISHA, INDIA, , PP. 1-7, ISBN:978-1-6654-7839-7,January 2023,DOI:10.1109/ODICON54453.2022.10010131(**Scopus indexed**)

UGC/other journals:

1. **PATCHALA KARUNAKAR**, Dudla Prabhakar, S.V.Rama Rao, “Design and Implementation of Triangular patch Antenna Array for Multiband Applications”, Second International conference on Computational and Intelligent Techniques for Automation of Engineering Systems (CITAES’ 22) organized by department of Electronics and Communication Engineering, Seshadri Rao Gudlavalleru Engineering College, India during July 29-30, 2022.
2. Mokara Pavan Kalyan, **T.SRINIVASA RAO**, “Review on Multilevel controllers”, International conference on Digital Archiving and presentation on cultural Heritage of India, Organized by Dept of EEE, AMET University, Chennai, held on 8th – 9th December 2022.
3. M.Sai Deepthi,V. Bhavya Sahithi, S.Madhav, P.Bhavana, **P.MUTHUKUMAR**, “Critical review on PWM Techniques in Single phase and three phase inverters”, International conference on Digital Archiving and presentation on cultural Heritage of India, Organized by Dept. of EEE, AMET University,Chennai, held on 8th – 9th December 2022.
4. Abdul Sameer, **P.MUTHUKUMAR**, “Survey on FPGA based PWM generation for inverters”, International conference on Digital Archiving and presentation on cultural Heritage of India, Organized by Dept. of EEE, AMET University, Chennai, held on 8th – 9th December 2022.

Book chapters:

1. **LENIN KANAGASABAI**, “True Power Loss Reduction by Enhanced Tree Squirrel Search, Enhanced Salp Swarm, and Swim Bladder Operation-Based Shark Optimization Algorithms”, Modeling and Control of Static Converters for Hybrid Storage Systems, IGI – Global, Pages: 26-90, September 2022, ISBN 13: 9781799874478 DOI: 10.4018/978-1-7998-7447-8.ch003

2. **LENIN KANAGASABAI**, “Enhanced Symbiotic Organisms Search and Hydrological Cycle Algorithms for Real Power Loss Diminution and Voltage Stability Enhancement”, Modeling and Control of Static Converters for Hybrid Storage Systems, IGI – Global, Pages: 175-206, September 2022, ISBN13: 9781799874478, DOI: 10.4018/978-1-7998-7447-8.ch003

PATENTS :Nil

PROGRAMMES ORGANIZED:

- Arranged a Guest Lecture on “Indian Standards & Quality Connect Programme” for IV B. Tech EEE Students on 29th December 2022.
- Arranged a Seminar on “Role of Energy efficiency in addressing the climate changes” as part of Energy conservation week 2022. The program was organized in association with APSECM and in collaboration with The Hindu FIC on 17th December 2022.
- Arranged a guest lecture on "Career Prospects in Electrical and Electronics Engineering" for I B. Tech. EEE students by the EEE Department Alumni Committee on 28th November 2022.
- Arranged training program for II & III B.tech students in association with Pinnamaneni Siddhartha Institute of Medical Sciences & Research Foundation, Gannavaram on “First Aid and CPR” on 8th November 2022. Total 179 students attended the training.
- Organized a value added course on “Advanced problem solving for higher packages” for III B.Tech EEE Students from 17th to 23rd October 2022 . Total 105 students attended the program.Speaker: Mr. B. Sai Kiran, Senior technical analyst, Byts
- Department of EEE is organized value added course titled “Kick start to Competitive programming using C language”, to III B. Tech., students from 19-09-2022 to 25th September,2022.
- Student Chapter of Solar Energy Society of India (SESI) , EEE Department organized Poster Presentation on “Innovative and Emerging Technologies in Electrical and Electronics Engineering “for IV, III, II B.Tech EEE Students in view of Engineer’s Day. on 15th September 2022

- Department of EEE in collaboration with ISTE student chapter organized a guest lecture on “Generation and Transmission of power” to III B. Tech students and faculty on 15th September 2022.



- Department of EEE in collaboration with Indian Society of Systems for Science and Engineering organized a guest lecture on “Entrepreneurship” to III B. Tech students on 14th September 2022.

PROGRAMMES ATTENDED BY STAFF (SEMINARS / GUEST LECTURES / WORKSHOPS):

FDP's:

1. **V Sai Geetha Lakshmi & M.Seshu** participated & completed successfully AICTE Training And Learning (ATAL) Academy Blended/Hybrid FDP on "Internet of Things Based Green Energy Technologies" from 17th to 29th October 2022 at Lakireddy Bali Reddy College of Engineering, Mylavaram
2. **M.Devika Rani, V Sai Geetha Lakshmi and K.Bhavana** have attended an online professional Development Program on "Electrical and Electronic systems for wind and solar" from 19th to 23rd September 2022. organized by Department of EECE,NITTTR, Chennai.

3. **Dr.R.Swathi** participated in one week online faculty development program on "Research and Development in Electrical, Electronics and Communication Engineering", organized by the Department of Electrical Engineering and Electronics & Telecommunication Engg, Fabtech Technical Campus COER, Sangola from 16th to 21st August 2022.
4. **Dr. C. Kumar** attended in FDP on "Role Of Power Electronics Advances In Infrastructure For E-Mobility In India" conducted by Department of Electrical Engineering NIT Warangal and MNIT Jaipur from 11th to 19th July 2022.
5. **Dr. C. Kumar** attended in FDP on "Solar PV Partial Shading Mitigation Techniques and Its Applications" conducted by Department of Electrical and Electronics Engineering, National Institute of Technology, Goa from 4th to 8th July 2022.
6. **Dr. K. Lenin and Dr. D.Ragaleela** participated in online faculty development programme "Artificial Intelligence and ICT application to Power System Protection" organized by E & ICT Academy & Department of Electrical Engineering, NIT Warangal in association with Gayatri Vidya Parishad College of Engineering (Autonomous), Visakhapatnam, 18th – 27th July, 2022.
7. **Dr. K. Lenin** participated in online faculty development programme on "Optimization Techniques using ML for Engineering Discipline", organized by E & ICT Academy & Department of Computer Science & Engineering, NIT Warangal in association with Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad from 18th - 27th July 2022.

Training Program :

1. **Dr. N. Vijaya Anand** attended in Training Program on "Electrical Power Systems Design and Analysis Using Etap Software (With Real Ongoing Industrial Projects)" conducted by online, MSME, Chennai from 27th June to 11th July 2022.
2. **Mr. P. Karunakar** attended in Training Programme on "30 days master class on Electric Vehicle Design" conducted by Pantech eLearning, Chennai, from 20th June to 19th July 2022.

STTP/STCs: NIL

Seminars /Webinars:

1. **Mr.M.SESHU** has participated in "A National Level Webinar on Adaptive Control Schemes for Grid-Tied Inverters to Improve Power Quality of Micro-Grid Systems" conducted by the Department of EEE, in Association with IEEE Student Branch & Tesla Club at SRMTRP Engineering college, Trichy on 17th August,2022.

Workshops:

1. **Dr. K. Lenin** participated in three day workshop on “Recent Developments in Smart Grid and Applications” (Virtual Mode) conducted by Department of Electrical & Electronics Engineering, GSSS Institute of Engineering and Technology for Women (GSSSIETW), Mysuru in association with Visvesvaraya Technological University (VTU) Belagavi, IEEE Bangalore section & IEEE PES from 05th – 07th September 2022
2. **Mr. P. Karunakar** attended in Workshop on “Design & Development of IOT systems for targetted Applications” conducted by ECE Dept., PVPSIT , Vijayawada from 28th to 30th July 2022.
3. **Dr. K. Lenin** attended in Workshop on “Advances in Mechanical Engineering For Biomedical Applications” Organized by Department of Mechanical Engineering National Institute of Technology Karnataka (NITK), Surathkal from 11th to 15th July 2022.

FACULTY ACHIEVEMENTS :

- **M.Hemanth Sai & B.Bala Sai Babu** have successfully completed “ Energy conservation Building Code (2017) Program and Expert Certification” conducted by Andhra Pradesh State Energy Conservation Mission (APSECM) during 21st - 25th February 2022 organized in coordination with Administrative Staff College of India (ASCI), Hyderabad and with the support of Bureau of Energy Efficiency (BEE), MoP, GoI.
- **Madhavi Gudavalli** has attended the online course work on "Research Methodology" conducted by the Directorate of Research and Development, JNTUK, Kakinada during 4th -23rd July 2022.
- The following list of faculty enrolled and certified in Coursera / uLektz /NPTEL Online Course during July- December 2022

S. No.	Name Of The Faculty	Name Of The Course	Name Of The Organisation
1	Dr.C.Kumar	Introduction to Smart Grid	NPTEL
2	Dr N. Vijaya Anand	DC Microgrid and Control Systems	NPTEL
3	Dr.D.Ragaleela	DC Microgrid and Control Systems	NPTEL
4	Dr.R.Swathi	Data Science for Engineers	NPTEL
5	Ms. Hemalatha Javvaji	Data Science for Engineers	NPTEL
6	Mr B. Baddu Naik	Programming for Everybody (Getting Started with Python)	COURSERA
7	Mr.B.Mohan	Introduction to Smart Grid	NPTEL

8	Ms. Madhavi Gudavalli	Data Science for Engineers	NPTEL
9	Ms. Vemulapalli Harika	Data Science for Engineers	NPTEL
10	Ms. M. Devika Rani	Operations Research (2): Optimization Algorithms	COURSERA
11	Mr. M. Hemanth Sai	Exploring Renewable Energy Schemes	COURSERA
12	Mr. B. Bala Sai Babu	Programming for Everybody (Getting Started with Python)	COURSERA
13	Mr. B. Baddu Naik	Introduction to Self-Driving Cars	COURSERA

FACULTY INTERACTION WITH OUTSIDE WORLD: NIL

STUDENT PARTICIPATION:

a) **Curricular activities:**

- **S.Rupesh Sai (21505A0223)** participated in the Technical Fest E-VERSE organized by the department of E.E.E ,VRSEC,Vijayawada on 28th October 2022.
- **P.Sravani (21501A263)** participated in the event on National Education Day conducted by IIC of PVPSIT on 11th November ,2022 at PVPSIT,Vijayawada.
- **R.Beneta (21501A268)** participated in the “JAM” event on and won THIRD prize National Education Day conducted by IIC of PVPSIT on 11th November ,2022 at PVPSIT,Vijayawada.
- **S.Veda Naga Vazra Sri (21501A287),N.Balaji (21501A258)** participated in the National Education Day conducted by IIC of PVPSIT on 11th November ,2022 at PVPSIT,Vijayawada.
- **P.Sravya (21505A217),P.Nadiya (21505A219)** ,participated in the “Poster Presentation (Nari Vidhya) and won SECOND prize event on National Education Day conducted by IIC of PVPSIT on 11th November ,2022 at PVPSIT,Vijayawada.
- **G.S.N.D.Adhikya (21505A204)** of III EEE student participated in “National Education day” on 11th November 2022 Organized by IIC- PVPSIT, Vijayawada
- **B.Yaswanth Kumar(22505A0203),Sk.Shakeel (22505A0220)** of II EEE participated in the rally from district collectors camp office to Stadium organized by APSECM,SDA under

Bureau of energy Efficiency ministry of power on the occasion of National Energy Conservation week 2022 conducted on 14th December ,2022.

- **M.Yashoda(20501A0246), N.Sudharasana Rao (21505A0214),S.Rupesh Sai (21505A0223), Y.Surya Deepak(20501A0262),P.Surya Prathap (20501A0263), M.Shaik (20501A0280),S Mohan Krishna(20501A0284), V.Santhosh Kumar (20501A0295),V.Geetha Sai Rishi(20501A0294)** of III EEE Students participated in “Yuvasabha-2022” conducted by student council of the PVPSIT on 9th September,2022.
- **Kote Kreethi ((20501A0236)** of III EEE student participated in the event “**Save YO’s-The Ultimate Saviour Quiz Contest**”an national wide quiz organized by 76th Indian Independence Day on August 2022.
- **P.Jahnavi (20505A0212), K.Neeraj Akhil (20505A0208), M.V.S.Naga Mani (20505A0209), B. Sravani (20505A0202), S.Sara Prabha (20505A0213), D.Hyma Bai (20505A0204),** Project team titled “**Electrical Emperors**” Participated in “Smart India Hackathon 2022”, # SIH Senior Hardware Edition Grand Finale 2022, organized by Ministry of Education at nodal center “Arya Institute of Engineering and Technology, Jaipur” from 25th to 29th August 2022.
- Student Chapter of Solar Energy Society of India(SESII) , EEE Department organized Poster Presentation on Innovative and Emerging Technologies in Electrical and Electronics Engineering on 15.9.2022 for IV, III, II B.Tech EEE Students in view of Engineer’s Day. A total of 31 students with 13 posters participated in this event. Cash prizes were given to the prize winners. The prize winners are as follows

PRIZE	Name of the student	Roll number	Year of study
1	M.YASHODA	20501A0246	III
	M.LOHITHA	20501A0243	III
	K.PRATHYUSH	20501A0235	III
2	K.CHARMI THANUJA	21501A0238	II
	K.GNANA LASYA	21501A0235	II
3	M.KAVYA	20501A0249	III
4	N.KYATHI PRIYA	20501A0254	III
	R.VARSHA	20501A0270	III
	R.VENKATA SRAVANI	20501A0296	III
4	M.AKHILA	21501A0254	II



b) Extra-Curricular Activities:

- **B.Renu Vyshnavi (20501A210)** participated in the SPORTS FEST conducted by ROTRACT CLUB of PVPSIT on 2nd and 3rd November ,2022 at PVPSIT,Vijayawada.
- **S.Veda Naga Vazra Sri (21501A287)** participated in the SPORTS FEST (CARROMS) and winner conducted by ROTRACT CLUB of PVPSIT on 2nd and 3rd November ,2022 at PVPSIT,Vijayawada.
- **S.Veda Naga Vazra Sri (21501A287)** participated in the SPORTS FEST (Badminton) and Runner conducted by ROTRACT CLUB of PVPSIT on 2nd and 3rd November ,2022 at PVPSIT,Vijayawada.
- **S.Veda Naga Vazra Sri (21501A287)** participated in the INDRAPRASTHA ,Zonal Rotract Conference conducted by ROTRACT CLUB of PVPSIT held during 26-27th November ,2022 at PVPSIT,Vijayawada.

- **N.Balaji (21501A258)** participated in the INDRAPRASTHA ,Zonal Rotract Conference conducted by ROTRACT CLUB of PVPSIT held during 26-27th November ,2022 at PVPSIT,Vijayawada.
- **S.Rupesh Sai (21505A0223)** participated in the Technical Fest E-VERSE organized by the department of E.E.E ,VRSEC,Vijayawada on 28/10/22.
- **M.Kavya(20501A0250),T.Syamili(20501A0289),Syed Mohammad Azmal (20501A0279) ,Shail Fhayaz(21501A0275),Avani Sree(21501A0249)** of III and IV EEE students NCC cadets participated in the Rasthriya Ektha Diwas National Unity Day on 31st October ,2022.
- **K.Prathyusha (20501A0232)** NCC cadets participated in the group selection camp for RDC at GIET College ,Rajahmundry from 23-30th October,2022.
- **G.Kavya(21501A0222),K.Neha Latha(21501A0241),P.Sravani (21501A0263),T.V.Naga Durga(21501A0282),V.Hemanth(21501A0285),V.Pavan Kumar (21501A0290)** of II EEE students NSS unit participated in “Clean India 2.0 Campaign “ Organized by PVPSIT,Kanuru on 20/10/22.
- **G.Kavya(21501A0222),K.Nanda Vardhan (21501A0239),Vahini (210501A0225), Koushik (21501A0230),Bhavani(21501A0245) K.Neha Latha (21501A0241),P.Sravani (21501A0263), T.V.Naga Durga(21501A0282), V.Pavan Kumar (21501A0290)** of II EEE students NSS unit participated in “Phyto Expo“ Organized by PVPSIT,Kanuru on 21st October,2022.
- **.Kavya(21501A0222), P.Sravani (21501A0263)** of II EEE students NSS unit participated in “Rotaract Club of PVP Siddhartha-ZRR’s Visit“ Organized by PVPSIT,Kanuru on 22nd October,2022.
- **P.Sravani(21501A0263)** NSS unit participated in “National Unity Day event “ Organized by PVPSIT,Kanuru on 26/10/22.
- **I.Jaswanth** of II EEE student participated in “Kabaddi” in KL University national level sports fest on 18th October,2022. held at KL university,Guntur.
- **Appikatla Naveen (20501A0204)** has participated in a “Painting Competition” held on 15.10.2022 (World Students Day 2022), Organised by College Cultural Committee,

Department of CE, Prasad V Potluri Siddhartha Institute of Technology, Kanuru, Vijayawada.

- 6 students of III and IV year NCC cadets participated in Combined Annual Training Camp, Gannavaram on 18th September, 2022 to 25th September, 2022.
- 4 students of II year NSS unit participated in various events Awareness on Literacy, Hemoglobin Test ,Grocery Distribution ,Orphanage Visit & JAM ,Distributed Ganesh Idols conducted by PVPSIT, kanuru during the dates 8th,9th,24th,28th September,2022 and 27th and 29th August ,2022.
- **S.Srujana Manaswini ((20501A0282))** of III EEE student participated in the event “**Throw ball**” in KREEDOTSAVA one day national level games meet for girls and won a Second Prize organized by Vijaya Institute of technology for womens, Vijayawada on 27th August 2022.

STUDENT ACHIEVEMENTS:

- 23 Students completed certification courses offered through Infosys SpringBoard.
- Three students completed 3 NPTEL certification courses.
- One student completed a certification course offered through Google Digital Garage.
- One student completed a certification course offered through Microsoft Technology Associate
- One student completed a certification course offered through Udemy.
- One student completed a certification course offered through Coursera.

Higher Education:

- **RAMAKRISHNA KANNEGANTI (18501A0265)** of 2018-2022 Batch joined Masters Degree in Computer Science Engineering in 'University of South Florida (Tampa), USA'.
- **GANDHAM SAI GANESH (18501A0226)** of 2018-2022 Batch joined Masters Degree in Electrical and Electronics Engineering in 'University of South Alabama, Alabama, USA'.

- **KAMMILI SREE SAI CHARAN (18501A0236)** of 2018-2022 Batch joined Masters Degree in Computer Information Systems and Information Technology in University of Central Missouri, Missouri, USA.
- **MAGANTI GOWTHAM KRISHNA (18501A0247)** of 2018-2022 Batch joined Masters Degree in Computer Science Engineering in Lewis University, Romeoville, USA.
- **GUDE BHANU PRASEEDHA (19505A0211)** of 2019-2022 Batch joined Masters Degree in Electrical Engineering (M.S.) program in University of Bridgeport, Bridgeport, United States.
- **GOSU YOGESWAR (18501A0230)** of 2018-2022 Batch joined Masters Degree in Electrical and Computer Engineering (M.S.) program in Southern Illinois University Edwardsville.

PLACEMENTS:

S.No.	Roll.No.	Student Name	Company
1	19501A0212	Chagantipati Venkata Naga Sai Vara Prasad	HEXAWARE
2	19501A0220	Chintala Thanusha	HEXAWARE
3	19501A0228	Gopisetty Kavya Sri	HEXAWARE
4	19501A0250	Kothapalli Lakshmi Rasagna	HEXAWARE
5	19501A0253	Kuchibhotla Srija Lalitha	HEXAWARE
6	19501A0257	Manchiraju Kavya Gayathri	HEXAWARE
7	19501A0265	Motepalli Sai Deepthi	HEXAWARE
8	19501A0274	Peruri Charan Nagaraj	HEXAWARE
9	19501A0278	Raavi Venkata Sai Vijay Krishna	HEXAWARE
10	19501A0281	Samanthapudi Sai Jayanth Varma	HEXAWARE
11	20505A0210	Mokara Pavan Kalyan	HEXAWARE
12	19501A0214	Chattu Chinmai	ACCENTURE
13	19501A0231	Gullipalli Nagasrivalli	ACCENTURE
14	19501A0299	Tirupathi Lakshmi Narayana Kashyap	ACCENTURE
15	19501A0201	Amam Satya Priyanka	ACCENTURE
16	19501A0202	Appikatla Divya Sree	ACCENTURE
17	19501A0205	Balasa Sravya	ACCENTURE
18	19501A0206	Bhimavarapu Bharath Reddy	ACCENTURE
19	19501A0213	Chagarlamudi Bhavya	ACCENTURE
20	19501A0219	Chinnam Nivedith	ACCENTURE
21	19501A0221	Dasari Sushma	ACCENTURE
22	19501A0230	Gowru Ratna Kumari	ACCENTURE
23	19501A0236	Kadari Sai Sri	ACCENTURE
24	19501A0237	Kakani Mahathi	ACCENTURE

25	19501A0245	Kodali Krishna Kumari	ACCENTURE
26	19501A0249	Kota Sony Dakshayani	ACCENTURE
27	19501A0260	Meerja Shafathe Zahera	ACCENTURE
28	19501A0263	Mohammad Sumaiya Sultana	ACCENTURE
29	19501A0266	Muthi Rekha	ACCENTURE
30	19501A0277	Pulluru Ajay	ACCENTURE
31	19501A0279	Ranga Charan Sai Vamsi	ACCENTURE
32	19501A0287	Shaik Roheen	ACCENTURE
33	19501A02A0	Uppuleti Rochan	ACCENTURE
34	19501A02A8	Vemula Bhavya Sahithi	ACCENTURE
35	19501A02B0	Yarrabikki Sai Ramya	ACCENTURE
36	20505A0201	Abdul Sameer	ACCENTURE
37	20505A0209	Meruguboina Venkata Siva Nagamani	ACCENTURE
38	19501A0225	Dubba Prabhas	TORRY HARRIS
39	19501A0265	Motepalli Sai Deepthi	TORRY HARRIS
40	19501A0292	Sunkara Sri Chaitra Charani	TORRY HARRIS
41	19501A0281	Samanthapudi Sai Jayanth Varma	CTS (Genc pro)
42	19501A0201	Amam Satya Priyanka	CTS (Genc)
43	19501A0202	Appikatla Divya Sree	CTS (Genc)
44	19501A0206	Bhimavarapu Bharath Reddy	CTS (Genc)
45	19501A0207	Bhuma Aditya	CTS (Genc)
46	19501A0215	Chattu Lahari	CTS (Genc)
47	19501A0219	Chinnam Nivedith	CTS (Genc)
48	19501A0221	Dasari Sushma	CTS (Genc)
49	19501A0223	Dhevarapalli Enjileena	CTS (Genc)
50	19501A0225	Dubba Prabhas	CTS (Genc)
51	19501A0226	Gangavarapu Navya	CTS (Genc)
52	19501A0242	Katragadda Sai Jitendra Chowdary	CTS (Genc)
53	19501A0249	Kota Sony Dakshayani	GenC- ITPAT (SFDC)
54	19501A0250	Kothapalli Lakshmi Rasagna	CTS (Genc)
55	19501A0257	Manchiraju Kavya Gayathri	CTS (Genc)
56	19501A0258	Manem Venumadhuri Durgamba	CTS (Genc)
57	19501A0266	Muthi Rekha	CTS (Genc)
58	19501A0267	Namala Harshak	CTS (Genc)
59	19501A0275	Pogula Bhargavi	CTS (Genc)
60	19501a0278	Raavi Venkata Sai Vijay Krishna	CTS (Genc)
61	19501A0280	Ravuri Navya	CTS (Genc)
62	19501A0284	Sarikonda Ramya	CTS (Genc)
63	19501A0285	Bala Venkata Aditya Seelam	CTS (Genc)
64	19501A0287	Shaik Roheen	CTS (Genc)
65	19501A0289	Sirigiri Durgam Raju	CTS (Genc)
66	19501A0292	Sunkara Sri Chaitra Charani	CTS (Genc)
67	19501A02A4	Vamjarapu Jothirmayi	CTS (Genc)
68	19501A02A5	Vemuri Siva Chaithanya	CTS (Genc)
69	20505A0201	Abdul Sameer	CTS (Genc)
70	20505A0203	Chedurthipati Vinay	CTS (Genc)
71	20505A0213	Seelam Sara Prabha	CTS (Genc)

INDUSTRIAL VISITS:

- Arranged for the II B.Tech students on 13th December 2022. Name of the Industry: INCAP Limited(Capacitance assembling unit and Capacitance Testing Unit), Vijayawada.

Internship/Training Programs:

- 63 IV.B.Tech Students and 113 students III B.Tech students underwent internship at various reputed companies.

OTHERS:

- An orientation program organized at Z.P.H.School, Penamaluru on the eve of —Energy conservation week. It was organized o 15.12.2022
- Second year EEE students participated in the —Energy conservation rallyl at Indira Gandhi Municipal stadium on 14.12.2022. This program was organized by APSECM.
- **Dr N.Vijaya anand and Dr Ch. Padmanabha raju** submitted a project proposal titled “**Design and development integrated charger for EV**” under State University Research Excellence (SERB SURE) scheme. Total cost of project: 28,70,000/-, September 2022.
- **Mr.P.Karunakar** has received 1000 rupees (cheque No425059) towards registration fee for attending Second International Conference on “**Computational and Intelligent Techniques for Automation of Engineering Systems**”, organized by Dept. of ECE,Gudlavalleru Engineering College, 29th -30th July 2022
- **Dr.K.Lenin** participated as Technical Committee Member (TPC) in 10th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2022) June 18 - 19,2022, National Institute of Technology Mizoram, India
- **Dr.K.Lenin** actively participated as Technical Committee Member (TPC) in the IEEE IAS 5th IEEE International Conference on Computing, Power and Communication Technologies (GUCON-2022) which to be held during September 23-25, 2022 , at India Habitat Centre, Lodhi Road, New Delhi, India.

- **Dr.K.Lenin** acted as session chair in 2nd IEEE International Conference on Sustainable Energy and Future Electric transportation (SEFET) 2022, August 4-6, 2022 conducted by GRIET,Hyderabad, India.
- **Dr.K.Lenin** acted as session chair in 2nd International Conference on Applied Mathematics,Modeling and Computer Simulation (AMMCS 2022) August 13 - 14, 2022, Wuhan, China.
- 9 B.Tech students received a scholarship amount of Rs.3,51,500 from 5 different scholarship agencies.

Electrical and Electronics Engineering