

## BIO-DATA



Dr. S. HUSSAIN VALI

Assistant Professor of EEE Dept,  
JNTUA College of Engineering Pulivendula, -516390, India.

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### Academic Qualifications:

Course	Name of the University	Year of graduation	% of marks obtained
SSC	Board of Secondary Education, Andhra Pradesh	2000	86.33
Intermediate	Board of Intermediate Education, Andhra Pradesh	2002	94.2
B. Tech	JNTU Hyderabad	2007	68.59
M. Tech	I.I.T. Kharagpur	2009	8.21/10
Ph.D.	JNTUA Anantapuramu	2022	----

### Experience:

Name of the employer/ organization	Your designation	Duration of employment		Nature of duties
		From	To	
JNTUACEP	Assistant Professor	September 2016	Till Date	Teaching, research work
JNTUK UCEV	Assistant Professor	January 2013	September 2016	Teaching, research work,

**Teaching Experience:** More than 10 years of teaching experience.

**Industrial Experience:** More than 1 year of Industrial experience.

### **Administrative Services:**

- Working as Head of the Department, EEE, JNTUA CEP since August 2023
- Working as Deputy Controller of Examinations, JNTUA CEP since August 2023
- Working as Coordinator, ISTE Chapter, JNTUA CEP since March 2023
- Working as Project Engineer (Electrical) since May 2021
- Working as Coordinator, IQAC Cell, JNTUA CEP since March 2021
- Worked as Project Engineer (Electrical) from May 2018 to July 2020
- Worked as In-charge Head of the Department, EEE, JNTUA CEP from December 2018 to April 2019
- Worked as NSS Program Officer from November 2017 to May 2018
- Worked as Estate Officer from March 2017 to November 2017
- Worked as Project Engineer (Electrical) from July 2016 to September 2016

### **Professional Services:**

- Serving as UG Chairman, Board of Studies (CSE), JNTUACEP since August 2023
- Serving as governing body member for St. John's College of Pharmaceutical Sciences, Yemmiganur Since April 2022
- Served as governing body member for Sri Sai College of IT & Management, Kadapa from January 2018 to April 2022
- Served as Coordinator for National Level Technical Symposium Phasor2k18, Phasor2k19 and Phasor2k23 organized by department of EEE, JNTUA CEP
- Served as Judge for National Level Technical Symposium Eclectique 2k16 organized by department of EEE, JNTUK UCEV

### **Research Interests:**

Design of SMPS, Bond graph modeling of Physical systems, Solar Photovoltaics and Power Electronics & Drives

### **Project Guidance:**

- M. Tech – Guided 45 projects, currently guiding 1 student.
- B.Tech - Guided more than 15 projects, currently 02 batches.

### **Professional Membership:**

- 1) MISTE
- 2) MIE

### **Number of Research publications:**

- International Journals: 28
- International Conferences: 19

### **Papers published:**

#### **International Journals:**

#### **2022**

1. S. Hussain Vali, S. B. Samihah Tanzeel, B. Lavanya, M. G. Karthik, A. Thomateja, V. Rafi and Shaik Shajid, “Sewage monitoring and maintenance alert using IOT” Juni Khyat, vol. 12, no. 02, pp. 19–27, Oct. 2022.
2. Shaik Hussain Vali, V. Rafi, Ch. Chandu, T. Sindhu, L. Sreshta Reddy, D. Sudhamani and R. Supriyabai, “LIFI based text communication between two Aurdino” Juni Khyat, vol. 12, no. 02, pp. 19–27, Oct. 2022
3. Shaik Hussain Vali, V. Rafi, P. Meenakshi, M.Sivaleela, G. V. Nagesh Kumar, and P. K. Dhal, “Study of Non-Idealities of DC-DC Converters and Design Using Simulation” Juni Khyat, vol. 12, no. 10, pp. 1–11, Oct. 2022

#### **2021**

4. Bathena Saiteja, Shaik Hussain Vali, and Vempalle Rafi, “Single-Phase Solar Power Generation System Control with Universal Active Power Filter Capabilities Using Least Mean Mixed Norm -Based Adaptive Filtering Method” High Technology Letters, vol. 27, no. 11, pp. 233–245, Dec. 2021
5. K Uday kumar reddy, Shaik Hussain Vali, and Vempalle Rafi, “Grid-Connected Super-Capacitor Energy Storage Systems Charging and Discharging states by Using Fuzzy Controller” High Technology Letters, vol. 28, no. 03, pp. 355–365, Dec. 2021
6. K. Usha, Shaik Hussain Vali, and Vempalle Rafi, “Wind - Hydro Microgrid And Its Control For Rural Energy System by using ANFIS Controller” The International journal of analytical and experimental modal analysis, vol. 13, no. 11, pp. 1237–1242, Nov. 2021

7. Shaik Hussain Vali, and R Kiranmayi “Modelling of Buck ZVS Multi-resonant DC-DC Converter using Bond Graphs” *Revista Geintec-gestao Inovacao e Tecnologias*, vol. 11, no. 04, pp. 1406–1420, June. 2021

## **2020**

8. M C Rani, and Shaik Hussain Vali, “High-Efficiency Asymmetric Forward-Flyback Converter for Wide Output Power Range” *Alochana Chakra Journal*, vol. 09, no. 12, pp. 377–388, Dec. 2020.
9. Shaik Hussain Vali, and R Kiranmayi “Design of Zero voltage switching Boost DC-DC Converter using Bond Graph Model” *EMITTER International Journal of Engineering Technology*, vol. 08, no. 02, pp. 426–441, Dec. 2020.
10. Shaik Hussain Vali, Ganesh Vulasala, and R Kiranmayi “Bond Graph Modelling and Design of Boost ZCS Quasiresonant DC-DC Power Converter” *International Journal of Power and Energy Systems*, vol. 41, no. 02, pp. 13–22, Dec. 2020.
11. B R Siva Reddy, and Shaik Hussain Vali, “Mitigation Of Interharmonics In PV Systems With Maximum Powe Point Tracking Modification” *The International journal of analytical and experimental modal analysis*, vol. 12, no. 12, pp. 1107–1110, Dec. 2020.
12. P. Muni Madhu, and Shaik Hussain Vali, “A Single-Stage Three Phase High-Frequency Isolation Bidirectional AC/DC converter with PFC using The ANFIS controller” *The International journal of analytical and experimental modal analysis*, vol. 12, no. 12, pp. 1097–1106, Dec. 2020

## **2019**

13. T. Swetha and Shaik Hussain Vali, “Power Quality Enhancement using Distributed Generation Inverters with Active Power Control by using fuzzy logic controllers” *International Journal of Research*, vol. 08, no. 12, pp. 45–53, Dec. 2019
14. K Md Kazimuddin Siddiqui, and Shaik Hussain Vali, “Fuzzy based Maximum Power Point Tracking for DFIG based wind turbine” *The International journal of analytical and experimental modal analysis*, vol. 11, no. 11, pp. 2499–2504, Nov. 2019
15. R Atha Ur Rehaman, and Shaik Hussain Vali, “Photovoltaic System with three switch DC-DC boost converter topology using PSIM software” *The International journal of analytical and experimental modal analysis*, vol. 11, no. 11, pp. 2492–2498, Nov. 2019
16. Shaik Hussain Vali and Ganesh Vulasala, “Bond Graph Modelling and Simulation of Buck ZVS Quasiresonant DC-DC Power Converter” *International Journal of Engineering and*

Advanced Technology, vol. 09, no. 1, pp. 3759–3764, Oct. 2019

17. Shaik Hussain Vali and Ganesh Vulasala, “Bond Graph Modelling and Simulation of Buck ZCS Quasiresonant DC-DC Power Converter” International Journal of Innovative Technology and Exploring Engineering, vol. 08, no. 12, pp. 1916–1921, Oct. 2019
18. G. Sudharmi and Shaik Hussain Vali, “A control scheme series resonant DC-DC Converter” Journal of Engineering Sciences, vol. 10, no. 10, pp. 265–269, Oct. 2019
19. G. Ganga Maheswari and Shaik Hussain Vali, “Power system compensation using a custom power active transformer” Journal of Engineering Sciences, vol. 10, no. 10, pp. 270–276, Oct. 2019
20. Shaik Hussain Vali and Ganesh Vulasala, “Bond Graph Modelling and Simulation of Boost ZVS Quasiresonant DC-DC Power Converter” International Journal of Recent Technology and Engineering, vol. 08, no. 03, pp. 5952–5957, Sep. 2019

## 2018

21. B. Obulapathi and Shaik Hussain Vali, “A New Photovoltaic Topology With Reliable And Reactive Power Capability” i-manager’s Journal on Electrical Engineering, vol. 12, no. 2, pp. 32–41, Oct-Dec. 2018
22. Suresh Reddy, Shaik Hussain Vali and Y S Kishore babu, “ Grid Interconnection Of Renewable Energy Sources At The Distribution Level With Power-Quality Improvement Features Using PR Controller” International Journal of Creative research thoughts, vol. 6, no. 1, pp. 305–309, March. 2018
23. M. Sreerajitha, Shaik Hussain Vali and Y S Kishore babu, “Closed loop Control of Hybrid Boosting Converter for Renewable Energy Applications” International Journal of Scientific research in science, Engineering and Technology, vol. 4, no. 1, pp. 1236–1248, Jan/Feb. 2018
24. B. Madhava Rao and Shaik Hussain Vali, “Fuzzy Control Of An Islanding Detection Method For The Inverter Based Distributed Generators Based Reactive Power Disturbance” International Journal of Technical Innovation in Modern Engineering & Science, vol. 4, no. 1, pp. 212–225, Jan. 2018
25. D. Subbarayudu and Shaik Hussain Vali, “Power-Electronics Based Efficient Energy Management System With Fuzzy Logic Controller” International Journal of Technical Innovation in Modern Engineering & Science, vol. 4, no. 1, pp. 98–107, Jan. 2018
26. B. Kiran Kumar and Shaik Hussain Vali, “High-Performance Constant Power Generation With Fuzzy Control Of Grid-Connected PV Systems” International Journal of Technical

Innovation in Modern Engineering & Science, vol. 4, no. 1, pp. 204–211, Jan. 2018

27. N. Rajendra and Shaik Hussain Vali, “Power Quality Improvement in Induction motor Drives by using Seven Level SAPF” International Journal of research, vol. 5, no. 1, pp. 2019–2025, Jan. 2018
28. P. Srikanth and Shaik Hussain Vali, “Grid-Tied Solar Photovoltaic System by Droop Control Strategy for Shunt Active Power Filter Application” International Journal for Modern Trends in Science and Technology, vol. 4, no. 1, pp. 131–138, Jan. 2018

### **International Conferences:**

#### **2022**

1. T Rama Manohar Reddy, Shaik Hussain Vali, Phanindra Thota and Kamaraju V, “Modelling and Analysis Of PVSC Type Buck Buck-Boost DC-DC Converter” 1<sup>st</sup> International conference on Science and Technology Innovation, Yogyakarta, Indonesia, Feb-2022, pp. 1–7

#### **2021**

2. E Gowtham Reddy, Shaik Hussain Vali, and V Rafi, “Grid-Connected conversion Based Optimization of DG for Unbalanced System Disturbances” International conference on Recent Trends in Electrical Electronics Communication and Instrumentation (ICRTEECI-2021), Hyderabad, India, Dec-2021, pp. 1–7
3. Sree Datta Patri, Shaik Hussain Vali and Vempalle Rafi, “Battery charging using a hill climbing MPPT algorithm and heuristic algorithm (MPPT)” 2021 IEEE International conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bengaluru, India, Aug-2021, pp. 91–96
4. J Singarappa, Shaik Hussain Vali, and Vempalli Rafi, “Distribution state estimation and its impact of load modelling” 4<sup>th</sup> International conference on Advancements in Aeromechanical Materials for Manufacturing, Hyderabad, India, August-2021, pp. 1–7
5. B Sravan Kumar, Shaik Hussain Vali, Vempalli Rafi, and G Nageswara Reddy “Optimal value of Economic Load Dispatch using Swarm Algorithm” Journal of Physics: conference series, Coimbatore, India, August-2021, pp. 1–7
6. D Krishna Praveen, Shaik Hussain Vali, and Vempalli Rafi, “A Novel Fast Hybrid Frequency Domain Approach for Evaluating Harmonic Power Flow in Electricity Networks” Journal of Physics: conference series, Coimbatore, India, August-2021, pp. 1–12
7. Ravilla Padma, Shaik Hussain Vali and Vempalli Rafi, “Reducing Fault Current by Adaptive Stabilizer in Distribution System” 2021 International Conference on Intelligent Technologies

(CONIT), Karnataka, India, June-2021, pp. 1–9

8. T Dastagiri, Shaik Hussain Vali, Vempalli Rafi, and G Nageswara Reddy“ Integration of Renewable energy based distributed generation in the power distribution network” International Conference on Energy & Environment (ICEE2K21), Ramanathapuram, India, June-2021, pp. 1–9
9. Srivani Marthala, Shaik Hussain Vali, and Vempalli Rafi, “Multilevel Boost Inverter with Switched Capacitor for Smart Grid Applications” International Conference on Energy & Environment (ICEE2K21), Ramanathapuram, India, June-2021, pp. 1–9

#### **2019**

10. Shaik Hussain Vali and Ganesh Vulasala, “Modelling and Simulation of Cuk ZVS Quasiresonant DC-DC Power Converter using Bond graphs” International conference on System automation, Reliability, Quality control, Safety, Maintenance & Management (ICSARQCSMM-2019), Ananthapuramu, India, Dec-2019, pp. 61–67
11. K. P. Lakshmi Priya and Shaik Hussain Vali, “Design Fuzzy controller based Boost converter to improve DWIG speed range in Wind power system” Proceedings of International conference on Science Engineering & Technology (ICSET-19), Hyderabad, India, Sep-2019, pp. 61–67
12. Y. Nissy Iswarya and Shaik Hussain Vali, “Closed loop control of Two switch Buck boost converter with low voltage stress” Proceedings of International conference on Science Engineering & Technology (ICSET-19), Hyderabad, India, Sep-2019, pp. 61–67
13. Shaik Hussain Vali and Ganesh Vulasala, “Bond graph modeling and Simulation of LC Resonant Circuit for Quasi-resonant DC-DC Power Converters” 2019 4<sup>th</sup> IEEE International conference on Recent Trends on Electronics, Information, Communication & Technology (RTEICT), Bengaluru, India, May-2019, pp. 45–49

#### **2018**

14. N. Sudheer Kumar and Shaik Hussain Vali, “Modeling and simulation of DC grid based Wind Power Generation in a Microgrid” Proceedings of International conference on Electrical, Electronics, Communications & Robotics Engineering (ICEECRE) – 2018, Tirupati, India, Sep-2018, pp. 90–97.
15. V. Sreedhar Yadav and Shaik Hussain Vali, “Power Quality Enhancement of a Standalone Photovoltaic (PV) Diesel-Battery Hybrid system” Proceedings of International conference on Electrical, Electronics, Communications & Robotics Engineering (ICEECRE) – 2018, Tirupati, India, Sep-2018, pp. 55–60
16. M. Vinod and Shaik Hussain Vali, “Electric Spring A New Technology To Improve The Power Quality Of Micro Grid” Proceedings of International conference on Electrical,

Electronics, Communications & Robotics Engineering (ICEECRE) – 2018, Tirupati, India, Sep-2018, pp. 68–73

17. P G Balaji and Shaik Hussain Vali, “Integration Of Grid Connected Dfig Wind Turbine With Advanced Solid State Transformer By Using Fuzzy Controller ” Proceedings of International conference on Electrical, Electronics, Communications & Robotics Engineering (ICEECRE) – 2018, Tirupati, India, Sep-2018, pp. 15–20
18. Yeddula Rohini and Shaik Hussain Vali, “Three Degrees of Freedom (3DoF) Approach for Ultrahigh Step-up DC-DC Converter with LLC Filter” Proceedings of International conference on Electrical, Electronics, Communications & Robotics Engineering (ICEECRE) – 2018, Tirupati, India, Sep-2018, pp. 31–36
19. I. Ramana Nayak and Shaik Hussain Vali, “A single phase hybrid series active filter for reliable power of non-linear load by using ANFIS” Proceedings of International conference on Electrical, Electronics, Communications & Robotics Engineering (ICEECRE) – 2018, Tirupati, India, Sep-2018, pp. 61–67

### **Workshops Organized:**

1. Organized two day national level technical symposium PHASOR2K18 from 15.03.2023 to 17.03.2023
2. Organized One week workshop on ECAD FOR BUILDING from 10.10.2022 to 16.10.2022 in association with Radiant Technologies
3. Organized One day workshop on Intellectual Property Awareness Program by IP Office, India on 31.12.2021
4. Organized two day national level technical symposium PHASOR2K19 from 22.03.2019 to 23.03.2019
5. Organized two day national level technical symposium PHASOR2K18 from 12.03.2019 to 13.03.2019

### **Workshops attended:**

1. Attended Fifteen day Short Term online course on “Emerging Trends in Computer Science and Engineering” organized by JNTU-GV Vizianagaram from 26<sup>th</sup> June – 10<sup>th</sup> July 2023
2. Attended one day Regional workshop on “The Preparation of a Roadmap and an Action Plan for EISCs Established at Universities and Colleges in the State” organized by QAC, APSCHE in Collaboration with SPMVV, Tirupati on 17.04.2023



3. Attended NPTEL-AICTE Faculty Development Programme for completing course on “Fundamentals of Power Electronics organized by NPTEL-AICTE from January – March 2023
4. Attended Online Elementary FDP on “EDP on fostering start-up, Innovation and Entrepreneurship/Intrapreneurship” organized by ATAL Academy, Guwahati from 6<sup>th</sup> – 10<sup>th</sup> December -2021
5. Attended Online Elementary FDP on “Electric Vehicle & Energy Storage Systems integrated with renewable Energy Source” organized by ATAL Academy, Guwahati from 23<sup>rd</sup> – 28<sup>th</sup> August -2021
6. Attended Online Advanced FDP on “Framework for Online Assessment” organized by ATAL Academy, Guwahati from 16<sup>th</sup> – 20<sup>th</sup> August -2021
7. Attended Two-Week Online Short Term Training Programme on “Emerging Technologies in Electric Vehicles” organized by Bapatla Engineering College, Bapatla from 2<sup>nd</sup> -14<sup>th</sup> August-2021
8. Attended Two-Week Faculty Development Programme on “Digital Tools for Writing, Authoring and Reviewing Manuscripts” organized by Ministry of Electronics and Information Technology (MeitY), Government of India from 12-07-2021 to 23-07-2021
9. Attended Two-Week Faculty Development Programme on “ICT Tools for Teaching, Learning process and Institute” organized by Ministry of Electronics and Information Technology (MeitY), Government of India from 10-08-2020 to 21-08-2020
10. Attended FDP on “3D Printing & Design” organized by ATAL Academy, Guwahati from 25<sup>th</sup> – 29<sup>th</sup> November -2019
11. Attended NPTEL-AICTE Faculty Development Programme for completing course on “Modelling and Simulation of Dynamic Systems organized by NPTEL-AICTE from January – March 2019
12. Attended NPTEL-AICTE Faculty Development Programme for completing course on “Technical English for Engineers organized by NPTEL-AICTE from August – September 2018
13. Attended Short Term Course on “Embedded Systems Design for Power Electronic Converters” organized by IISc Bangalore from 6<sup>th</sup> – 10<sup>th</sup> August– 2018
14. Attended Short Term Course on “Power Semiconductor Devices for Power Electronic Converters” organized by IISc Bangalore from 23<sup>rd</sup> – 27<sup>th</sup> July – 2018

## **Academic Details**

### **a. Subjects Taught**

1. Electrical Circuit Analysis
2. Electrical Machines
3. Power Electronics

4. Digital Electronics
5. Signals and Networks
6. Switched Mode Power Supply
7. Electrical and Electronic Measurements & Instrumentation
8. Electric Drives
9. Control Systems
10. Renewable Energy Systems

### **b. M.Tech Projects Guided**

<b>S.No.</b>	<b>Year</b>	<b>Title of the thesis Supervised</b>	<b>Name of the Student</b>
1	2018	Power Quality Improvement in Induction motor Drives by using Seven Level SAPF	N. Rajendra (Roll No: 14192D0701)
2	2018	Grid Interconnection Of Renewable Energy Sources At The Distribution Level With Power-Quality Improvement Features Using PR Controller	Suresh Reddy (Roll No: 14192D0703)
3	2018	A New Hybrid Boosting converter for renewable energy applications	Molakala Sree Rajitha (Roll No: 14192D0709)
4	2018	High-Performance Constant Power Generation With Fuzzy Control Of Grid-Connected PV Systems	B.Kiran Kumar (Roll No: 14192D0721)
5	2018	Fuzzy Control Of An Islanding Detection Method For Inverter Based Distributed Generators Based Reactive Power Disturbance	B. Madhava Rao (Roll No: 14192D0724)
6	2018	Grid-Tied Solar Photovoltaic System by Droop Control Strategy for Shunt Active Power Filter Application	P. Srikanth (Roll No:14192D0711)
7	2018	Power-Electronics Based Efficient Energy Management System With Fuzzy Logic Controller	D. Subba Rayudu (Roll No: 14192D0714)
8	2019	Electric Spring A New Technology To Improve The Power Quality Of Micro Grid	M. Vinod (Roll No: 16191D0703)
9	2019	Integration Of Grid Connected Wind Turbine With Advanced Solid State Transformer By Using Fuzzy Controller	P. G. Balaji (Roll No: 16191D0706)
10	2019	Three Degrees of Freedom (3DoF) Approach for Ultrahigh Step-up DC-DC Converter with LLC Filter	Yeddula Rohini (Roll No: 16191D0712)
11	2019	Modeling and simulation of DC grid based Wind Power Generation in a Microgrid	N Sudheer Kumar (Roll No: 16191D0715)
12	2019	A New Photovoltaic Topology With Reliable And Reactive Power Capability	B Obulapathi (Roll No: 16191D0718)
13	2019	A single phase hybrid series active filter for reliable power of non-linear load by using ANFIS	I Ramana Nayak (Roll No: 16191D0724)
14	2019	Power Quality Enhancement of a Standalone Photovoltaic (PV) Diesel-Battery Hybrid system	V Sreedhar Yadav (Roll No: 16191D0709)
15	2020	Closed loop control of Two switch Buck boost converter with low voltage stress	Y Nissy Iswarya (Roll No: 17191D0703)
16	2020	Fuzzy based maximum power point tracking for DFIG based wind turbine	K MD Kazimuddin Siddiqui (Roll No: 17191D0706)

17	2020	A Design of Fuzzy based Boost converter to improve DWIG speed range in Wind power system	K P Lakshmi Priya (Roll No: 17191D0709)
18	2020	Photovoltaic system with three switch DC-DC boost converter topology using PSIM software	R Athaur Rehman (Roll No: 17191D0716)
19	2020	A control scheme series resonant DC-DC Converter	G Sudharmi (Roll No: 17191D0719)
20	2020	Power system compensation using a custom power active transformer	G Ganga Maheswari (Roll No: 17191D0724)
21	2021	Power Quality Enhancement Using Distributed Generation Inverters With Active Power Control By Using Fuzzy Logic Controller	T Swetha (Roll No: 14192D0708)
22	2021	Neural Network controller based maximum power point tracking for mitigation of interharmonics in photovoltaic systems	B R Siva Reddy (Roll No: 18191D0703)
23	2021	A Single-Stage Three Phase High-Frequency Isolation Bidirectional AC/DC converter with PFC using The ANFIS controller	P Muni Madhu (Roll No: 18191D0713)
24	2021	High-Efficiency Asymmetric Forward-Flyback Converter for Wide Output Power Range	M C Rani (Roll No: 18191D0720)
25	2021	Integration of Renewable energy based distributed generation in the power distribution network	T Dastagiri (Roll No: 18192D0702)
26	2021	Multilevel Boost Inverter with Switched Capacitor for Smart Grid Applications	Marthala Si Vani (Roll No: 18192D0703)
27	2021	Reducing Fault Current by Adaptive Stabilizer in Distribution System	Ravilla Padma (Roll No: 18192D0706)
28	2021	Distribution state estimation and its impact of load modelling	Janapati Singarappa (Roll No: 18192D0707)
29	2021	Optimal value of Economic Load Dispatch using Swarm Algorithm	Boggula Sravan Kumar (Roll No: 18192D0710)
30	2021	A Novel Fast Hybrid Frequency Domain Approach for Evaluating Harmonic Power Flow in Electricity Networks	D Krishna Praveen (Roll No: 18192D0711)
31	2022	Wind - Hydro Microgrid And Its Control For Rural Energy System by using ANFIS Controller	K Usha (Roll No: 18191D0702)
32	2022	Grid-Connected Super-Capacitor Energy Storage Systems Charging and Discharging states by Using Fuzzy Controller	Kakanuru Uday Kumar Reddy (Roll No: 19191D0708)
33	2022	Grid-Connected conversion Based Optimization of DG for Unbalanced System Disturbances	E Gowtham Reddy (Roll No: 19191D0709)
34	2022	Single-Phase Solar Power Generation System Control with Universal Active Power Filter Capabilities Using Least Mean Mixed Norm - Based Adaptive Filtering Method	Bathena Saiteja (Roll No: 19191D0716)
35	2022	Modelling and Analysis Of Multi-input Buck-Boost Buck DC-DC Converter	Ram Manohar Redy Tamiliseti (Roll No: 19191D8303)
36	2022	Analysis of Fault Detection Techniques using SVPWM with Multi-Level Inverters	K Sirisha (Roll No: 19191D0711)
37	2022	Battery Charging using a Hill Climbing MPPT and Heuristic Algorithm MPPT	Sree Datta Patri (Roll No: 19191D8301)
38	2023	Unit Commitment using Harmony Search Algorithm with Varying initial status	V. Naveen Krishna (Roll No: 20191D0711)

39	2023	An improvement of stability and dynamic response in Hybrid AC-DC Microgrids using optimal power control management	K. Sri Lakshmi Gayathri Devi (Roll No: 20191D8306)
40	2023	Optimal fuel consumption using Multilevel inverter based ANFIS RSC control strategy on wind driven DFIG, DG, and solar PV array	P. Jaya Krishna (Roll No: 20191D0710)
41	2023	Design and implementation of Fuzzy controller for micro-grid connected PV-battery energy storage system	R. Anjani Kumar (Roll No: 20191D0715)
42	2023	Multi-level inverter fed BLDC motor drive irrigation pump application using peak current detection method	K V Siva Kalyan (Roll No: 20191D8303)
43	2023	Implementation of multi functional electric vehicle charger base on ANFIS with solar PV array	Othuru Baba (Roll No: 20191D0705)
44	2023	THD mitigation in grid-tied solar PV system with the multi-level inverter and MPPT by the ANN controller	G. Karimulla (Roll No:20191D8305)
45	2023	Gird connected converters active power flow control under unbalanced conditions by using Fuzzy technique	P. Sruthi (Roll No: 20191D8301)

### Research Projects:

1. Received Research Seed Grant of Rs. 1 Lakh from JNTUA Anantapuramu in March 2023 for a project period of 2 years

**Dr.S.Hussain Vali,**  
**Assistant Professor,**  
**Dept of EEE,JNTUA CEP,**  
**Pulivendula,Andhra Pradesh**