VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institute, NAAC Accredited with 'A^{++}' Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses
Approved by AICTE, New Delhi, Affiliated to JNTUH
Recognized as "College with Potential for Excellence" by UGC
Vignana Jyothi Nagar, Pragathi Nagar, Nizampet (S.O), Hyderabad – 500 090, TS, India.
Telephone No: 040-2304 2758/59/60, Fax: 040-23042761
E-mail: postbox@vnrvjiet.ac.in, Website: www.vnrvjiet.ac.in

Estd.1995

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty	Aspects	Details of Aspects
Dr.K.Anuradha, Professor	**Area of Specialization**	**Industrial Drives Control**
	Domain Expertise	**Power Converters,** **Electrical Drives & Control** **Renewable Energy Systems**
	Funding Projects	**1.** Development of AI Based Efficient and Storage Independent Water Pump for Agricultural Applications
		2. Grants under share & Mentor (Margdarshan)
		3. Data acquisition-based control and design of regular and special electrical machines
	Intellectual Property Rights	1. A Passive Filter Configuration to Reduce THD Produced by Non-Linear Loads 2. A DC-To-DC Converter Configuration by Soft Switching Devices
	Board of Studies	**1. VNR VJIET** **2. GokarajuRangaraju Institute of Engineering & Technology, Hyderabad** 3. **Srinidhi Institute of Science & Technology, Hyderabad** 4. **Non Autonomous constituent colleges and unites of the University and non autonomous affiliated colleges of JNTUH, Hyderabad**
	As Invited Speakers	**Margdarshan Scheme** **Quality in Engineering Education: An Outcome-Based Education Approach"**
	Memberships	IEEE, MISTE
	As PhD Supervisor	Number of students - 4

Dr. Poonam Upadhyay Professor & HOD	**Area of Specialization**	Power Systems
	Domain Expertise	• Power System, • Gas Insulated Sub-station • AI and Neural Networks • High Voltage Engineering
	Consultancy Services	**Training To Electricians Identified by Anchor -Panasonic** **Power circuit of ultrasonic wave generator for heat sealing** **No load losses acquisition of transformer**
	Board of Studies	**VNR VJIET**
	As Invited Speakers	**1. RECENT TRENDS IN MECHATRONICS** **2. National E-Seminar on Quality Improvement Strategies in Higher Education Institutes**
	Reviewer	IEEE Transaction on power Electronics
	Memberships	LMISTE, SMIEEE, FIEI
	As PhD Supervisor	Number of students - 6
Dr.J.Viswanatha Rao Professor	**Area of Specialization**	Power Systems
	Domain Expertise	• **Electrical Distribution System** • **Renewable Energy Systems** **AI Applied to Electrical Engineering**
	Consultancy Services	**Training To Electricians Identified by Anchor -Panasonic** **Development of Megawatt Wind Turbine for Optimal Management of Smart Agricultural Farms**
	Board of Studies	**1. VNR VJIET** **2. Dept of Electrical and Electronics Engineering, St Martin College of Engineering , Hyderabad.**
	Awards	**Dr. A.P.J Abdul Kalam Inspiring Teacher Award , IET Chennai Local Network**
	Memberships	ISTE,IEI,SSI,IAENG,WAIRCO
	As PhD Supervisor	Number of students - 3
Dr.V.RameshBabu Associate Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	• **Axial Flux Machines for Renewable Energy Systems** **Electric Vehicle Mobility**
	Consultancy Services	**Training course on power electronics**
	Intellectual Property Rights	**Advanced Non-Centric PWM (Pulse Width modulated) method to Eliminate Common Mode Voltage in Dual**

		Inverter Fed Open-End Induction Motor Drives
	Board of Studies	**VNR VJIET**
	As Invited Speakers	**Power Electronics to Eco car development**
	Awards	**Young Investigator Award International Conference on Electrical and Electronics Engineering**
	Memberships	**LMISTE, IAENG**
	As PhD Supervisor	Number of students - 1
Dr.Y.Venu Associate Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	● FACTS ● Power Quality AI Techniques
	Intellectual Property Rights	**1. Method and Implementation for mitigating Voltage Sag and swell in distributed system with UnderVoltage /Over Voltage Relay based Compensators** **2. A Novel FACTS (Flexible Alternating Current Transmission Systems) DeviceGate Turn off Thyristor Controlled Static Shunt Compensator" (GCSSC) to Enhance Power System Stability and Power Transfer Capability of BothTransmission and Distribution Systems** **3. A Series apacitive Compensation Technique with Design Based Iterative Algorithm for Mitigation of Ferranti Effect in EHV and UHV Power Transmission Systems** **4. Self- Excited Synchronous Generator (SESG) Without D.C Excitation**
	Board of Studies	**VNR VJIET**
Dr.N.KrishnaKumari Associate Professor	**Area of Specialization**	**Electrical Machines**
	Domain Expertise	●Electrical Drives, ●Power Converters Soft Computing Techniques
	Board of Studies	**VNR VJIET**
	As Invited Speakers	**Power Semiconductor Drives** **Resource SAR review, MLRIT Four Departments: CSE; ECE, ME and Aeronautical Engineering**
	Awards	1. Best Paper Award-PECCON-19,VIT,Chennai

		2. Best Paper Award with 300 Euros worth e-books from Springer, “ICIEES’17” Springer Conference, PSG College of Technology, Coimbatore. 3. Best Paper Award with 300 Euros worth ebooks from Springer, “ICIEES’17” Springer Conference, PSG College of Technology, Coimbatore 4. Best Paper Award- PECCON-2017”, 1st International Conference on Power Engineering, Computing and Control,VIT,Chennai
	Reviewer	1. IEEE-Transactions on Industrial Electronics 2. ICEECC2016 International Conference on Electrical, Electronic, Communication and Control Engineering,2016 3. IEACon2016 : 2016 IEEE Industrial Electronics and Applications Conference, Malaysia PECON 2016: 4. 2016 IEEE 6th International Conference on Power and Energy (PECON 2016) 5. CEAT2013: 2013 IEEE Conference on Clean Energy and Technology (CEAT) 6. PECON 2012: 2012 IEEE International Conference on Power and Energy (PECon)
	Chair Person	International conference on Innovations in Electrical, Electronics Power, Smart Grids & Advanced Computing Technologies (IEEPs-18),
	Memberships	SMIEEE,SAE,ISTE,IAENG
Dr.G.Sasi Kumar Associate Professor	**Area of Specialization**	Power Electronics
	Domain Expertise	Power Electronics Applications to Power Systems
	Intellectual Property Rights	**Self- Excited Synchronous Generator (SESG) Without D.C Excitation**
	Reviewer	**ICET-2020, Energy Centre, Maulana Azad National Institute of Technology, Bhopal**
	Memberships	**ISTE, IEEE**
Dr.B.Neelakanteswar Rao Associate Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	●Power System Optimization ●Power System Security Power System Reliability
	Awards	POSOCO Power System Award
	Reviewer	**Electric Power Components and Systems**
	Membership	**LMISTE**

POSOCC

Dr.J.Srinivas Rao Associate Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	● Power Converters ● Electrical Drives & control Renewable Energy Systems
	Intellectual Property Rights	**1. Advanced Non-Centric PWM** **2. (Pulse Width modulated) method to Eliminate Common Mode Voltage in Dual Inverter Fed Open-End Induction Motor Drives** **3. Self- Excited Synchronous Generator (SESG) Without D.C Excitation**
	Reviewer	**International Conference on Emerging Technologies in Electrical Engineering (ICETEE-2020)**
	Membership	**MIAENG**
Dr.J.Bhavani Associate Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	●PWM Schemes ●DC-DC Converters ●Multi-Level Inverters Renewable Energy Systems
	Board of Studies	**VNR VJIET**
	Awards	**1. APJ Abdul kalam Research fellowship award** **2. Best Young women scientist award** **3. Best Paper Award- International Conference on Advanced Electrical, Electronics Engineering and Application (CAEEEA - 2012)**
	Memberships	LMISTE, MIEEE, MIAENG
Dr.T.Nireekshana Associate Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	● Deregulated Power Systems ● FACTS Controllers Wide Area Measurements (WAMS)
	Intellectual Property Rights	**1. System for Mitigating Circulating Current in Type Modular MultilevelConverter (MMC)** **2. Advanced Non-Centric PWM (Pulse Width modulated) method to Eliminate Common Mode Voltage in Dual Inverter Fed Open-End Induction Motor Drives** **3. Self- Excited Synchronous Generator (SESG) Without D.C Excitation**

		4. Motorized Ankle Foot Driven Customized Prosthetic Leg with Exoskeleton
	Board of Studies	**VNR VJIET**
Dr.K.Veeresham Associate Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	● Optimization Techniques ● Power Flow Controllers
	Awards	**Outstanding reviewing award, ICETEE 2020 Excellent Paper Award, Institute of Research and Journals (IRAJ)**
	Reviewer	**International Conference on Emerging Technologies in Electrical Engineering (ICETEE-2020)**
	Memberships	**LMISTE,IAENG**
Dr.D.Ravi Kumar Associate Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	**Power Systems**
	Intellectual Property Rights	**1. Method and Implementation for mitigating Voltage Sag and swell in distributed system with UnderVoltage /Over Voltage Relay based Compensators** **2. A Novel FACTS (Flexible Alternating Current Transmission Systems) DeviceGate Turn off Thyristor Controlled Static Shunt Compensator" (GCSSC) to Enhance Power System Stability and Power Transfer Capability of BothTransmission and Distribution Systems**
	Board of Studies	**VNR VJIET** **EEE, GNIT, Hyderabad.**
	As Invited Speakers	**1. Three day Faculty Development Program NBA- Outcome Based Education, Teaching Learning methodologies** **2. Review of CO- PO Attainment and SAR** **3. NBA Criteria-4: Students' Performance" for Mentee Institution** **4. Facilities and Technical Support, Continuous Improvements for NBA Accreditation**

		5. MLRIT Four Departments: CSE; ECE, ME and Aeronautical Engineering
	Awards	**1. Best Paper Award PECCON-19,VIT,Chennai** **2. Best Paper Award with 300 Euros worth e-books from Springer, "ICIEES'17" Springer Conference PSG College of Technology, Coimbatore.**
	Reviewer	**i-manager's Journal on Power Systems Engineering (JPS)**
	Membership	**MIEEE**
	As PhD Supervisor	Number of students - 2
Dr.G.Radhika Sr.Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	● Power Systems Reliability Engineering
	Funding Projects	
	Reviewer	**International Conference on High Voltage Engineering and Technology**
	Membership	LMISTE
Mr.P.Ramesh Assistant Professor	**Area of Specialization**	**Control Systems**
	Domain Expertise	● Artificial Intelligence Control Systems
	As Invited Speakers	**Generalized Approach for Design of Fuzzy Logic Controller** **MATLAB as a Computational Tool**
	Memberships	**MIAENG, CERTIFIED MATLAB ASSOCIATE**
Dr.E.Shiva Prasad Sr.Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	Power Converters and their Applications.
	Consultancy Services	**1. Training To Electricians Identified by Anchor -Panasonic**
	Intellectual Property Rights	**2. Method and Implementation for mitigating Voltage Sag and swell in distributed system with UnderVoltage /Over Voltage Relay based Compensators**
	Memberships	**ISTE**
Dr.M.Ranjit Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	● Electrical Drive Control PWM Techniques.

	Funding Projects	**AICTE-Training and Learning-Electric Vehicles**
	Intellectual Property Rights	**Advanced Non-Centric PWM (Pulse Width modulated) method to Eliminate Common Mode Voltage in Dual Inverter Fed Open-End Induction Motor Drives**
	Memberships	**MIEEE,MIAENG**
Mr.B.Ganesh Babu Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	**Power Converters and their Applications**
	Memberships	MISTE,IEEE,IAENG
Mrs.M.Naga Jyothi Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	**Power Systems**
Mr.G.C.Prabhakar Assistant Professor	**Area of Specialization**	**Power Electronics And Drives**
	Domain Expertise	**Power Electronics And Drives**
	Memberships	LMISTE,LMIAENG
Mr.DSG Krishna Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	● Renewable Energy Systems Power Converters
	Consultancy services	**Power circuit of ultrasonic wave generator for heat sealing** **Training course on power electronics**
	Intellectual Property Rights	**A Passive Filter Configuration to Reduce THD Produced by Non-Linear Loads** **A DC-To-DC Converter Configuration by Soft Switching Devices**
	As Invited Speakers	**1. Power Electronics o Eco car development** **2. PV Plant modeling using PV system software** **3. Effective Utilization of Digital Platforms for Teaching and Learning Process**
	Awards	**Best Paper Award PECCON-2017", 1st International Conference on Power Engineering, Computing and Control,VIT,Chennai**
	Memberships	**LMISTE**
Mrs.S.Poornima Assistant Professor	**Area of Specialization**	**Electrical Power Systems**
	Domain Expertise	● Power System Protection ● Digital Signal Processing

		Artificial Intelligence
	Memberships	LMISTE
Mrs.R.Geshma Kumari Assistant Professor	**Area of Specialization**	Power Electronics
	Domain Expertise	**Power Electronics**
	Intellectual Property Rights	**1. A Passive Filter Configuration to Reduce THD Produced by Non-Linear Loads** **2. A DC-To-DC Converter Configuration by Soft Switching Devices** **3. Coupled Inductor Based DC-DC Boost Converter**
	Reviewer	**IEEE Transactions on Industrial Electronics**
	Memberships	**IAENG**
Mrs.O.Sobhana Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	Power Converters and their Applications
	As Invited Speakers	**Virtual Labs** **Multisim for Project Implementation**
	Memberships	**IAENG**
Mr.N.Amarnadh Reddy Assistant Professor	**Area of Specialization**	**Automotive Engineering Hybrid Electric Vehicles**
	Domain Expertise	● Power Electronic Applications to EV Smart Grids,MicroGrids
	Memberships	**IAENG**
Dr.T.Haripriya Sr.Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	● Renewable Energy Systems ● Control Systems Power Systems
	Board of Studies	**KSRM College of Engineering Kadapa**
	As Invited Speakers	**1. Computational Intelligence and Its Applications (CI&A-2021)** **2. Orthogonal Trajectories**
	Awards	**1. Reviewer for Taylor Francis Journal . "Electric Power Components and Systems"** **2. Best reviewer award Journal of The Institution of Engineers (India): Series B .** **3. Research Excellence award Annual symposium, BITS Hyderabad** **4. best poster presentation Annual symposium, BITS Hyderabad**
	Reviewer	**1. Electric Power Components and Systems** **2. International Journal of Systems Science**
	Memberships	**IEEE, IEI**

Mrs.I.Neelima Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	**Power Electronics**
	Funding Projects	
Mr.B.Devulal Assistant Professor	**Area of Specialization**	**High voltage Engineering**
	Domain Expertise	Electric Vehicles
	Intellectual Property Rights	**1. A Series apacitive Compensation Technique with Design Based Iterative Algorithm for Mitigation of Ferranti Effect in EHV and UHV Power Transmission Systems** **2. Self- Excited Synchronous Generator (SESG) Without D.C Excitation**
Mrs.K.Sravani Assistant Professor	**Area of Specialization**	**Power Electronics**
	Domain Expertise	Wireless Power Transfer
Dr.P.Naresh Assistant Professor	**Area of Specialization**	Power Electronics
	Domain Expertise	**Power Electronics**
	Funding Projects	**Development of hierarchical structures for solar desalination** **Development of Low Cost-Efficient Charging Station for Electric Vehicle (EV) Charging Applications**
	Consultancy services	**Power circuit of ultrasonic wave generator for heat sealing** **Training course on power electronics**
	Intellectual Property Rights	**1. A Passive Filter Configuration to Reduce THD Produced by Non-Linear Loads** **2. A DC-To-DC Converter Configuration by Soft Switching Devices** **3. Submerged Nano Porous Micro Hotspot Structure for Solar Desalination And Method of Preparation** **4. Coupled Inductor Based DC-DC Boost Converter**
	As Invited Speakers	**1. Resonant Converters and their Applications in EV Charging** **2. Power Electronics o Eco car development**
	Reviewer	**IEEE Transactions on Industrial Electronics**
	Memberships	**IEEE, IEI**
	As PhD Supervisor	Number of students - 2

Mr.B.Anjan Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	Power Converters and their Applications
	Intellectual Property Rights	**A Series apacitive Compensation Technique with Design Based Iterative Algorithm for Mitigation of Ferranti Effect in EHV and UHV Power Transmission Systems**
Mr.G.L.Narayana Assistant Professor	**Area of Specialization**	**Industrial Electronics**
	Domain Expertise	Power Quality
	Intellectual Property Rights	**A Novel FACTS (Flexible Alternating Current Transmission Systems) Device Gate Turn off Thyristor Controlled Static Shunt Compensator" (GCSSC) to Enhance Power System Stability and Power Transfer Capability of Both Transmission and Distribution Systems**
	Memberships	**ISTE,IAENG**
Dr.RashmiKapoor	**Area of Specialization**	**Power Systems**
	Domain Expertise	• Power Electronics Applications of AI Techniques and Deep Learning in Electrical Engineering
	Funding Projects	**National Level Training program (Deep Learning/Machine Learning/Artificial Intelligence)** **Deep Learning based Smart Assistant for Blind people** **Motorized Ankle Foot Driven Customized Prosthetic Leg with Exoskeleton**
	As Invited Speakers	**1. Introduction to Deep neural Network** **2. Introduction to machine learning and its application** **3. Introduction to machine learning and its application in Electrical Engineering** **4. Machine learning applications in electrical engineering** **5. Artificial Intelligence and Optimization technique applications for additional lab experiments and mini, major projects for B. Tech Engineering students** **6. Two Week on "Soft Computing Techniques – Electrical Engineering "**

		7. **Artificial Intelligence & Machine Learning Applications in Electrical Engineering** 8. **AI Techniques in MATLAB**
Dr.A.Giri Prasad Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	● Gas Insulated Substations ● Power Quality High Voltage Engineering
	Intellectual Property Rights	1. **Method and Implementation for mitigating Voltage Sag and swell in distributed system with UnderVoltage /Over Voltage Relay based Compensators** 2. **A Novel FACTS (Flexible Alternating Current Transmission Systems) DeviceGate Turn off Thyristor Controlled Static Shunt Compensator" (GCSSC) to Enhance Power System Stability and Power Transfer Capability of BothTransmission and Distribution Systems** 3. **Self- Excited Synchronous Generator (SESG) Without D.C Excitation** 4. **Motorized Ankle Foot Driven Customized Prosthetic Leg with Exoskeleton**
	Memberships	**ISTE, IAENG, IEEE, IEI**
	As PhD Supervisor	Number of students - 1
Mr.K.Ranjeeth Kumar Assistant Professor	**Area of Specialization**	Power Systems
	Domain Expertise	Power Systems
Mrs.R.Sudha Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	Power Systems
Mr.K.Srikanth Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	Power Systems
Mr.K.Vamshi Kumar Assistant Professor	**Area of Specialization**	**Power Systems**
	Domain Expertise	Power Systems
Dr.K.Subhash Babu Assistant Professor	**Area of Specialization**	**Control Systems**
	Domain Expertise	**Control Systems**
	Reviewer	2022 Eighth Indian Control Conference (ICC)
Ms.G.Anjali Devi Assistant Professor	**Area of Specialization**	**Advanced Electrical Power Systems**

Ms.B.Naga Swetha Assistant Professor	**Domain Expertise**	**Advanced Electrical Power Systems**
	Area of Specialization	Power Electronics
	Domain Expertise	**Power Electronics**
Mr.B.Madhuri Assistant Professor	**Area of Specialization**	Power Electronics
	Domain Expertise	**Power Electronics**