



Dr. N. Bhupesh Kumar
B.Tech., M.Tech., Ph.D
Professor in Dept of EEE
Convener EMC
Sir C R Reddy College of Engineering, Eluru

DATE OF BIRTH: 6th July 1981

EDUCATION :

- **Jawaharlal Nehru Technological University Hyderabad, INDIA.**

Doctor of Philosophy in Electrical Energy Systems, 2015.

- **Jawaharlal Nehru Technological University, Hyderabad, INDIA.**

Master of Technology in Energy Systems, 2005. First Class with Distinction.

- **Nagarjuna University, Guntur, INDIA.**

Bachelor of Technology in Electrical and Electronics Engineering, 2002. First Class.

EXPERIENCE:

Sir C R Reddy College of Engineering, Eluru, affiliated to Andhra University, INDIA.

- Professor, Dept, of EEE December 2018 to Till date
- Associate Professor, Dept, of EEE July 2016 to November 2018
- Sr.Assistant Professor, Dept. of EEE August 2010 to June 2016
- Assistant Professor, Dept. of EEE May 2005 to July 2010
- **Total Experience – 16 Years.**

Ph.D s GUIDING: 03 (Continuing)

PROJECTS GUIDED:

- Post Graduate : 09
- Under Graduate : 20

RESEARCH INTERESTS:

- Solar Photovoltaic Systems
- Renewable Energy Systems
- Power Systems
- Energy Efficient Electrical Systems
- Energy Audit

FELLOWSHIP OF ACADEMIC BODIES AND PROFESSIONAL SOCIETIES:

- Life member ISTE(Indian Society for Technical Education) (LM 51260)
- Member IE(I) (The Institute of Engineers, INDIA) (M-153455-0)
- Member, IEEE (92259208)

ADMINISTRATIVE ROLES:

1. **MEMBER, 4 Men committee**, constituted by the **Honorable Chairman, Andhra Pradesh State Council of Higher Education (APSCH) for European Centre for Mechatronics in ARC.**
2. **MEMBER COORDINATOR, ENERGY MANAGEMENT**, Sir C R Reddy College of Engineering, Recognised by **SAP** (SWATCHHTA ACTION PLAN) Institution, **Ministry of Human Resource and Development (MHRD), Government of India.**
3. Convener, **Electrical Maintenance Committee, Sir C R Reddy Educational Institutions.**
4. Professor Incharge, **Electrical Maintenance, Sir C R Reddy Educational Institutions.**

5. Member, **Academic Advisory Committee(AAC), Sir C R Reddy College of Engineering**
6. Member, Core committee, **Anti-Ragging**
7. In-charge, **Electrical Machines Laboratory**
8. Member, **Dept Development Council (DDC)**
9. Member, Organising Committee, **South Zone inter University Games.**
10. In-charge, **Internal Examinations**
11. In-charge for **Timetables**
12. **Class Work Monitoring** (Day to Day)
13. **Faculty coordinator, during NBA peer team visit.**

PROJECTS/CONSULTANCY/INDUSTRIAL COLLABORATED WORKS:

S.NO	DETAILS	COST Rs
1.	Planning and Erection of 500kWp Grid connected roof top Solar PV System.	2.2 crores
2.	SEIMEN'S SKILL DEVELOPMENT CENTER, APSSDC, A GOVERNMENT OF AP INITIATIVE- Planning and Erection.	3 crores
3.	Conversion of 2-pole substation to 4-pole substation.- Design and Erection.	3.5 laks
4.	Disintegration of multiple bulk consumers and establishment of autonomous bulk(HT) consumer power supply system for Sir CRR Educational Institutions.	11 laks
5.	Planning and Erection of power distribution system at Sir CRR Polytechnic.	11 lacs
6.	Planning and erection of APFC panels for Sir CRR Group of Institutions.	12 laks

7.	Technical Consultancy with M/s Swathi enterprises, Vijayawada for “Electrical erections of Aqua feed plant” at Devi sea foods pvt Ltd.Singarayakonda.	70 lacs
8.	Technical Consultancy with M/s Swathi enterprises, Vijayawada for “Automation of multiple oil refinery” at 3F Industries Ltd, Tadepalligudem.	50 lacs

COURSES HANDLED:

U.G - Electrical and Electronics Engineering:

- Electrical Power Generation
- Electrical Power Transmission and Distribution
- Electrical Machines (AC & DC)
- Electrical Drives and Traction
- Elements of Electrical Engineering
- Utilization of Electrical Energy
- Non Conventional Energy Resources

P.G - Power Systems and Automation:

- Renewable Energy Systems
- Smart Grid Technologies
- HV AC/DC Transmission

LABORATORIES HANDLED:

- Basic Electrical Engineering Laboratory
- DC Machines Laboratory
- AC Machines Laboratory
- Networks& Measurements Laboratory
- Control Systems Laboratory

PATENTS PUBLISHED:

SYSTEM AND METHOD FOR MONITORING INSULATING OIL QUALITY IN TRANSFORMERS,

Publication Number	12/2021
Publication Date	19/03/2021
Publication Type	INA
Application Number	202141010932

RESEARCH PUBLICATIONS:

1. Satish Rapaka, P.Rajesh Kumar, Miranji Katta, K. Lakshminarayana, **N. Bhupesh Kumar**, “A new segmentation method for non-ideal iris images using morphological reconstruction FCM based on improved DSA”, Springer Nature Journal of Applied Science, <https://doi.org/10.1007/s42452-020-04110>
2. Panditharadhyula R L N V H S V Bhadra Rao, **Dr. N. BHUPESH KUMAR**, Miss. CH. Prasanna Lakshmi “Fuelcell Based Intelligent UPFC Configuration For Three Phase Microgrid System”, Journal Of Critical Reviews ISSN- 2394-5125 VOL 7, ISSUE 06, 2020
3. **Dr N. Bhupesh Kumar**, M. K. Naga Mounika, “Implementation of Differential Power Processing to Optimize the Solar Power Generation”, **IEEE** International Conference on Current trends towards Converging Technologies (ICCTCT 2018), Coimbatore, India, 1st to 3rd March 2018.
4. **Dr.N.Bhupesh Kumar**, B.srinivas “Performance Enhancement Strategies for Grid Connected Photovoltaic Energy Systems”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; Volume 6 Issue IX, Sep 2018.
5. **Dr N. Bhupesh Kumar**, M. K. Naga Mounika, “Optimization of Power Generation and Reliability Enhancement of Photovoltaic System”,

International Journal of Engineering and Advanced Technology, ISSN: 2249 – 8958, Volume-7 Issue-2, December 2017.

6. **Dr N. Bhupesh Kumar**, K.Cheman Manikanta, “MPPT Methods For PV String under Partially Shaded Conditions Along with Particle Swarm Optimization”, International Journal of Science Technology & Engineering | Volume 3 | Issue 07 | January 2017 ISSN (online): 2349-784X, pp.134-140.
7. **N. Bhupesh Kumar**, Ramu Gadusula, “ Analysis and Reduction of Voltage Sag Effect on Power Grid with SFCL and FCL for R and RL loads”, National Conference on Contemporary Control(ConCon – 2014) under TEQIP-II, 20th and 21st November 2014 at Andhra University, Visakhapatnam.
8. **N. Bhupesh Kumar**, A.Naresh, “ Improved Particle Swam Optimization(PSO) based MPPT for PV Partial Shading”, National Conference on Smart Grids and Smart Cities (SGSC-2014), 07th and 08th November 2014 at Andhra University, Visakhapatnam.
9. **N. Bhupesh Kumar**, B. Balaji, “ Adaptive Fuzzy Control Aproach for Automatic Generation Control of Interconnected Power Systems in Deregulated Environment” National Conference on Power System Control Operation and Maintenance(PSCOM-2014) , 24th and 25th January 2014, Sir C R Reddy college of engineering, Eluru
10. **N. Bhupesh Kumar**,B. Balaji, “ Adaptive Fuzzy Control Aproach for Automatic Generation Control of Interconnected Power Systems in Deregulated Environment”, Int. Journal of Education and Applied Research ISSN: 2348 0033, Vol. 4 Issue Spl 1, January to June 2014.
11. **N.Bhupesh Kumar** , Dr.K.Vijaya Kumar Reddy, “Maximum Power Point Tracking of PV Arrays using Different Techniques”, Int. Journal of Engineering Research and Applications ISSN: 2248-9622, Vol. 4, Issue 7(Version 6), July 2014, pp.49-57.
12. **N.Bhupesh Kumar**, Dr.K.Vijaya Kumar Reddy, “Fast Tracking of the Maximum Power Point of PV Arrays Using Fuzzy Logic Controller”, Int. Journal of Engineering Research and Innovative Applications, ISSN: 2248-9278, Vol. 2 Issue 1, Sep-Oct 2013, pp.1439-1444.
13. **N.Bhupesh Kumar**, Dr.K.Vijaya Kumar Reddy, “Advanced Fuzzy Logic Controller for Tracking the Maximum Power Point of PV Arrays”, Int.

Journal of Engineering Research and Technology ISSN: 2278-0181, Vol. 2 Issue 11, November - 2013, pp.457-467.

14. **N.Bhupesh Kumar**, Ch. Srilaxmi “Power Management Strategies for A grid connected Hybrid system with Renewable energy sources”, National Conference on Contemporary Control and Soft computing in Electrical Engineering (ConCon – 2012),30-31 May 2012, Andhra University, Visakhapatnam.

WORKSHOPS/SEMINARS/SHORT TERM COURSES ORGANIZED:

1. Organised a Webinar on “**HOME ELECTRICAL ENERGY MANAGEMENT**” on Friday, June 5th 2020 in association with The Energy and Resources Institute (TERI) and Industrial Energy Group (IEG)
2. Webinar on “**INDUSTRIAL ELECTRICAL SYSTEMS**” on Saturday, June 27th 2020 in association with L&T Electrical and Automation.

WORKSHOPS/SHORT TERM COURSES PARTICIPATED: 20

- **SESSION CHAIR / JUDGE/ GUEST LECTURES / INVITED TALKS at various organizations.**

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