
NAKKA NIKHIL

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• www.youtube.com/user/nikhilzmr, nikhilnakka.blogspot.com, eecourseware.wordpress.com



Graduate in Electrical and Electronics Engineering from the prestigious Osmania University College of Engineering, Hyderabad and a Indian Patent Holder (under review) presently employed with Telangana State Power Utility along with Freelance work experience as Expert Faculty, Content Developer for GATE/ESE/other competitive exams (EE) for 3+years and Consulting Engineer with excellent academic and achievements record.

Experience

- | | |
|----------------|---|
| 2018 - Present | Sub-Engineer
<i>Telangana State Southern Power Distribution Company Ltd.</i> |
| 2017 - Present | Faculty for GATE EE
<i>GATEFORUM</i>
POWER SYSTEMS
ELECTRICAL MACHINES |
| 2017 - Present | Verified Educator and Category Expert GATE EE
Unacademy (click here)
Listed in "200 Top Educators - 2017"
Various courses for GATE/ESE (EE)
www.uncademy.com/user/NikhilNakka |
| 2015 - Present | Founder & Chief Tutor
Nikhil Nakka EE (6K+ subscribers) (click here)
An online learning platform for Electrical Engineering students and professional to update their subject knowledge. In a vision to assist students appearing for various competitive exams at free of cost. |
| 2017 - Present | Online Educator
Thesis123
Thesis123 & KlassPM.com, Manikonda (New Startup, Online Coaching based)
<ol style="list-style-type: none">1. GATE Previous papers – GATE 2011 to GATE 2017 all sets2. Electrical Circuits (50hrs of video lecture)3. Power Systems (90hrs of Video Lecture)4. Measuring Instruments (50hrs of Video lecture) |
| 2014 - Present | Faculty EEE & Content Developer
<i>Veda Institutions</i>
Veda Institute (Koti (Hyderabad), Tanuku (West Godavari), Tirupati Centers)
Subjects Handled |

GATE

1. DC Machines (35hrs) – 2 times

TRANSCO/GENCO Assistant Engineers (BE/B.Tech level)

1. Power Systems (80hrs) – 4 times
2. AC and DC Machines (65hrs)-3 times
3. Measuring Instruments (35hrs) – 4 times
4. Utilization of Electrical Energy (20hrs) – 5 times

ECET/Sub-Engineers (Diploma Level)

1. Power Systems (40hrs) – 15+ times
2. AC and DC Machines (50hrs)-15+ times
3. Measuring Instruments (20hrs) – 10+ times
4. Utilization of Electrical Energy (20hrs) – 15+ times
5. Power Electronics (25hrs) – 3 times

CONTENT DEVELOPMENT

1. REVISION MATERIAL FOR ECET, SUB ENGINEERS
2. ONLINE TEST SERIES PAPERS

2016 - Present

Faculty EEE & Content Developer

VISHWA GATE/IES

Vishwa GATE/IES (Hyderabad and Warangal Center)

GATE

1. DC Machines (35hrs) – 2 times
2. Power System Protection (25hrs) – 1 time
3. Doubt Clearing session (PS, MACHINES, EMI) -2 times

CONTENT DEVELOPMENT

1. GATE/ IES Material for Power Systems, Machines

TRANSCO/GENCO Assistant Engineers (BE/B.Tech level)

1. Power Systems (80hrs) – 2 times
2. AC and DC Machines (65hrs)-1 times
3. Measuring Instruments (35hrs) – 3 times
4. Utilization of Electrical Energy (20hrs) – 4 times

2015 - Present

Faculty EEE

Sandhya Academy (Ramnagar and LB Nagar)

GATE

1. Measuring Instruments (40hrs) – 1 time

TRANSCO/GENCO Assistant Engineers (BE/B.Tech level)

1. Power Systems (80hrs) – 2 times
2. AC and DC Machines (65hrs)-2 times
3. Measuring Instruments (35hrs) – 2 times
4. Utilization of Electrical Energy (20hrs) – 2 times

2015 - Present

Faculty EEE

IEEE Institute, SR Nagar

GATE

1. AC and DC Machines (80hrs)-2 times
2. Measuring Instruments (40hrs) – 2 times

TRANSCO/GENCO Assistant Engineers (BE/B.Tech level)

1. AC and DC Machines (65hrs)-2 times
2. Measuring Instruments (35hrs) – 2 times
3. Utilization of Electrical Energy (20hrs) –2 times

2015 - 2015

Faculty EEE

Sai Engineering Academy, SR Nagar

TRANSCO/GENCO Assistant Engineers (BE/B.Tech level)

1. Power Systems (80hrs) – 1 times
2. AC and DC Machines (65hrs)-1 time
3. Measuring Instruments (35hrs) – 1 times
4. Utilization of Electrical Energy (20hrs) –2 times

2014 - 2015

Faculty EEE

Vijaya Academy, Narayanaguda LB Nagar

TRANSCO/GENCO Assistant Engineers (BE/B.Tech level)

1. AC and DC Machines (65hrs)-2 times
2. Utilization of Electrical Energy (20hrs) –2 times

2014 - 2015

Faculty

SB Brilliant Academy, Mehdipatnam

TRANSCO/GENCO SubEngineers (Diploma level)

1. Measuring Instruments (30hrs) – 1 times
2. Utilization of Electrical Energy (20hrs) –2 times

2016 - 2016

Summer Intern

South Central Railways, Indian Railways

Intern at Traction motors section of Electric Loco Shed, Lallaguda, Secunderabad of South Central Railways, Indian Railways

2013 - 2014

Diploma Trainee

Transmission Corporation of Telangana State Limited. TSTRANSO (formerly APTRANSCO)

2016 - Present

Electrical and Electronics Systems Research, Design and Development Consultant

Freelance

Services offered in

Power Electronics and Drives, Industrial Instrumentation and Automation, Embedded Data Acquisition and Control, Solar Test and Automation, Central Monitoring Systems, Bio Medical Instruments and Maintenance, Electronic product Design, Power Supplies, GPS, GPRD, RFID based systems, IoT, Power system Switch gear and Protection.

Education

B.E. in Electrical and Electronics Engineering

UNIVERSITY COLLEGE OF ENGINEERING (A), OSMANIA UNIVERSITY

CGPA - 7.0

Diploma in Electrical and Electronics Engineering

JAWAHARLAL NEHRU GOVT. POLYTECHNIC

Percentage - 92%

SSC
BHASHYAM HIGH SCHOOL
PERCENTAGE - 94%

Achievements in Competitive Exams

6th Rank in State on Sub Engineer (Elect.) Recruitment Exam by TSSPDCL
Telangana State Southern Power Distribution Co. Ltd. (A Government of Telangana undertaking)

Secured 6th rank in Telangana state with a score (70/100) in the recruitment Exam for the post of Sub-Engineer (Electrical) in Telangana State Southern Power Distribution Co. Ltd. (A Government of Telangana undertaking), state power utility co.

ESE 2017
QUALIFIED IN PRELIMS

GATE 2017
Qualified

CEPTAM 8 DRDO ENTRY TEST-2015 FOR STA B
AIR 1

ECET 2014
STATE 1ST RANK

PATENTS

2016 Energy Hawk Mark 1 (UNDER REVIEW)
Indian Patent Office
201641043144

PUBLICATIONS

2013 Available Transmission Capacity and its computation in large networks
V. Indira Priyadarshini, **Nikhil Nakka**,
"Indian Journal of Technical Education" Vol. 3, Issue 5, Dec 2013, pp.189-206.

SEMINARS / TALKS DELIVERED

2017 Importance of Reactive Power and its Optimization In a Power System
Jawaharlal Nehru Government Polytechnic

2016 Importance of Building Laboratory Models of Transmission Lines and FACTS devices in
Transient and Steady State behavior Analysis
Dept. of EE, OU

2016 Artificial Intelligence and Machine Learning Applications for Crowdsourced data in
Promoting Integrity & Eradication of Corruption with public participation
Power Grid Corporation of India Ltd

2016 Counterfeit Electronic Components - A Scenario around world and Identification

Techniques

Osmania University

2016 Mobile Ad-Hoc Networks (MANET) for Women Safety Wrist Watch for Emergency
Nuclear Fuel Complex, Department of Atomic Energy, Govt. of India

2015 Future trends in Power Electronics for Hybrid Electric Vehicle Industry
Osmania University

LANGUAGES KNOWN

English, Hindi, Telugu

PROJECTS

2016 Image Processing Based Occupancy Sensor for Intelligent Building Energy Management System
Patent pending

2015 - Present Re-Engineering, Performance Assessments and Recommendations for The unused 5 KWp Solar Power Plant installed at Centre for Energy Technology Development, UCE(A), OU

OSMANIA UNIVERSITY

The objectives of this study are summarized below:

To re-engineer the unused

To estimate the performance of the given solar power plant.

To assess the degradation of module output associated with aging as per current technology trends

To recommend future work in the field of solar energy

To review existing radiation data sources and software

To review design criteria for better performance of power plants

2013 Advanced Power Factor Monitoring and Management System

Jawaharlal Nehru Government Polytechnic

The Project aims in developing a system which helps in monitoring power factor of industrial loads wirelessly on PC. Also, the system automatically corrects the power factor by reducing the apparent power using capacitors bank. This system also provides the provision of switching different industrial loads through PC (personal Computer).

There are four objectives of this project, which is stated in the following texts:

i. To learn the way of power factor correction in power systems.

ii. To learn and identify methods to control capacitor banks.

iii. Identify one method of power factor correction with the low cost and practical.

iv. To provide an automatically controlled PFC unit that will bring the power factor to as near to unity as

practical (typically 0.9) and have sufficient capacity for future Power Factor Correction requirements or

expansion.

v. To monitor the Live Power Factor wirelessly through a PC.

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- iii. Identify one method of power factor correction with the low cost and practical.
- iv. To provide an automatically controlled PFC unit that will bring the power factor to as near to unity as practical (typically 0.9) and have sufficient capacity for future Power Factor Correction requirements or expansion.
- v. To monitor the Live Power Factor wirelessly through a PC.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Member of International Association of Engineers, IAENG Society of Electrical Engineering, Hong Kong Polytechnic University, Kowloon, Hong Kong

Member of Association of Energy Engineers, USA

Student Member, Indian Society for Technical Education

CERTIFICATIONS

Certificate in Computer Aided Design

Skill Development Centre of the State Board of Technical Education and Training, TS

Fire Fighting Certificate

Kings Fire Fighting Institute

EFSET English Certificate - Score: 64/100, Advanced (CEFR C1)

EF Education First

HONORS AND AWARDS

- | | |
|------|---|
| 2016 | <p>1st Prize Cash award of 5000INR towards Best Presentation
<i>Power Grid Corporation of India Ltd</i>
Presented a seminar on Topic "Promoting Integrity & Eradication of Corruption with public participation" for the competitions held by Power Grid Corporation of India Ltd in association with University 2016 College of Engineering, Osmania University during National Vigilance Awareness Week</p> |
| 2016 | <p>Best Presenter Award
<i>Nuclear Fuel Complex, Department of Atomic Energy, Govt. of India</i>
Presented a seminar by topic "Women Safety Wrist Watch for Emergency" under the Theme : Make in India"
during National Science Day 2016 celebrations conducted at Nuclear Fuel Complex, DAE, Hyderabad</p> |
| 2016 | <p>1st Prize in State Level Essay Writing Competition
<i>Anti Corruption Bureau, Government of Telangana</i>
Competition Held on account of international anti corruption week</p> |
| 2012 | <p>1st Prize in District Level Elocution Competition
<i>Election Commission of India</i></p> |
| 2008 | <p>"Padhyasadhana" Certificate
<i>Sadhana Sahiti Savanthi</i></p> |

for reciting 100 poems of Vemana Shathakam Nonstop

2005

"Best" grade in Bharatiya Sanskriti Gyan Pariksha
Gayatri Teerth, Santikunj, Haridwar, Uttarakhand, India
Gayatri Teerth, Santikunj, Haridwar, Uttarakhand, India

Skills

Expertise

Electrical Engineer, AutoCAD, Automation, Project Engineering, Power Generation, Matlab, Teaching, Railway Systems, Power Plants, Consumer Electronics, Electrical Design, Smart Grid, AMI, Smart Metering, Machine Learning, Power Systems, Project Management, Leadership, Public Speaking, Power Electronics and Drives, Industrial Instrumentation and Automation, Embedded Data Acquisition and Control, Solar Test and Automation, Central Monitoring Systems, Bio Medical Instruments and Maintenance, Electronic product Design, Power Supplies, GPS, GPRD, RFID based systems, IoT, Power system Switch gear and Protection.