

**DR.VINEET SHEKHER**

FlatNo.177, Pocket-3,  
Sector-23,  
Rohini, Delhi-110085  
Tel: 9034147386,9466527187  
E- mail: vshekher2407@gmail.com  
PAN No: **AYDPS7532E**  
ADHAR No.:**485533532524**

**Professional Profile**

A Competent experience in teaching with more than 19 years in Electrical, Instrumentation and Control and EEE department.

**Subject Taught:** Control System, Advance Control System, Basic of Electrical Engineering, Measurement and Instrumentation, Modern Control System (PG), Non-Linear Control System (PG) and Process Control Instrumentation (PG)

**Academic Credentials**

- **PhD in Electrical Engineering from BIT , Sindri ,(Govt. Of Jharkhand) in 2016`**
- **M.E in Electrical Engineering (Control & Inst.) with First class with Distinction (75%) From Delhi college of Engineering under Delhi University, Delhi(2009)**
- **B.E in Instrumentation with First class with Distinction (67%) from North Maharashtra University, Jalgoan(1999)**

**Experience Detail****2 March 2021 to till at BIT, Sindri, Dhanbad (Government of Jharkhand)**

**Designation:** Associate Professor  
**Department:** Electrical Engineering Department  
**Pay Scale:** 37400- 67000(AGP 9000/-)

**16 January 2017 to 28 February 2021 at NIET, Greater Noida, U.P**

**Designation:** Associate Professor  
**Department:** Electrical and Electronics (EN) Department  
**Pay Scale:** 37400- 67000(AGP 9000/-)

**8 July 2015 to 16 January 2017 at SRM University, NCR Campus, Modinagar, U.P**

**Designation:** Assistant Professor  
**Department:** Electrical and Electronics Department  
**Pay Scale:** 15600-37800 (AGP 8000/-)

**August'11 to 8 July 2015 at Hindu College of Engg, Sonapat**

**Designation:** Academic In-charge and Assistant Professor in Senior Scale  
**Department:** Electrical Department  
**Pay Scale:** 15600-37800 (AGP 8000/-)

**July'10 to July'11 at BRCM CET, Bahal, Bhiwani****Designation:** Assistant Professor in Senior Scale**Department:** Electrical and Electronics Department**Pay Scale:** 15600-37800 (AGP 7000/-)**January'02 to June'10 Date at CRRIT, Khanjhwala****Position:** Lecturer**Department:** Instrumentation and Control Department**Pay Scale:** 8000-275-13500**Publication in SCI/SCOPUS Journal**

Sr. No	Title with page No. and Date of Publication	Journal	ISSN /ISBN
1	Global Stability Analysis of Fractional-Order Fuzzy BAM Neural Networks with Time Delay and Impulsive Effects, November 2019, Article number 104853	<i>Communications in Nonlinear Science and Numerical Simulation, Elsevier</i>	1007-5704
2	Global Asymptotic Synchronization of Impulsive Fractional-Order Complex-Valued Memristor-Based Neural Networks with Time Varying Delays, November 2019, Article number 104869	<i>Communications in Nonlinear Science and Numerical Simulation, Elsevier</i>	1007-5704
3	Dynamic stability analysis of stochastic fractional order memristor fuzzy BAM neural networks with delay and leakage terms, 15 March 2020, Article number 124896	<i>Applied Mathematics and Computation, ELSEVIER</i>	0096-3003
4	Global Mittag-Leffler stability analysis of impulsive fractional-order complex-valued BAM neural networks with time varying delays, April 2020, Article number 105088	<i>Commun Nonlinear Sci Numer Simulat, ELSEVIER</i>	1007-5704
5	Non-fragile sampled data control for stabilization of non-linear multi-agent system with additive time varying delays, Markovian jump and uncertain parameter, May 2020, Article number 100830	<i>Nonlinear Analysis: Hybrid Systems, ELSEVIER</i>	1751-570X
6	Finite Time Stability Analysis of Fractional-Order Complex-Valued Memristive Neural Networks with Proportional Delays, 1 February 2020, Pages 407-426	<i>Neural Processing Letters, Springer nature</i>	1370-4621
7	Quadrotor Tracking Control Based on Optimized Fuzzy Logic Controller, 261-270, December 2019	<i>International Review of Aerospace Engineering</i>	1973-7459
8	An Intelligent Wearable to Aid Speech Impaired People by Detection of Specific Hand Gestures Using Flex Sensors, 17 September 2019	<i>Advances in Basic, AIP Proceedings Science</i>	
9	Design and Implementation of Real Time Integer	<i>International Journal of</i>	2277-3878

	Order PID Controller for Infrared Heater, July 2019, Pages 5052-5057	<i>Recent Technology and Engineering</i>	
10	Microstrip Patch Antenna with Defected Ground Structure for X-Band Applications, 2880-2882 June 2019	<i>International Journal of Innovative Technology and Exploring Engineering</i>	2278-3075
11	Computational analysis and simulation of fractional order PID controller for ceramic infrared heater, April 2019, Pages 2078-2083	<i>International Journal of Recent Technology and Engineering</i>	2277-3878
12	Microstrip patch antenna for GPS/WIMAX/WLAN applications, July 2019, Pages 26-28	<i>International Journal of Recent Technology and Engineering</i>	2277-3878
13	Identification and Characterization of Solar Cell Defects using Thermal Imaging, 6064-68 November 2019	<i>International Journal of Recent Technology and Engineering,</i>	2277-3878
14	Postdeforming of FGM Laminates Analysis for Random Geometric Parameters in Thermal Environments, 237-244, 25 September 2020	<i>Advances in Electromechanical Technologies, Springer</i>	9789811554636
15	Comparison between classic PID integer order PID and fuzzy logic controller for ceramic infrared heater: Analysis using MATLAB/Simulink, 222-227, February 2012	<i>International Journal of Engineering and Advanced Technology,</i>	2249-8958
16	Performance and Control of Controller for Ceramic Infrared Heater, PP-43-52, 2016	<i>International Journal of Electrical Engineering &amp; Technology (IJEET)</i>	0976-6545
17	Design and evaluation of classic PID, gain and phase margin-based controller and intelligent controller design for a ceramic infrared heater, 248-256, April 2012	<i>ARNP Journal of Science and Technology,</i>	1819-8958
18	Tuning and analysis of fractional order PID controller, (2012), pp. 11-21	<i>International Journal of Electronic and Electrical Engineering</i>	0974-2174
19	Determination of stabilizing parameter of fractional order PID controller using genetic algorithm, 24-32, January 2012	<i>International Journal of Computational Engineering &amp; Management</i>	2230-7893
20	Overview of Hybrid Grounding at off-Shore Electrical Distribution Network, page no. 247-251, October-2018	<i>Journal of Emerging Technologies and Innovative Research</i>	2349-5162
21	Analysis of Fractional order PID controller for Ceramic Infrared Heater, 43-52, July 2016	<i>International Journal of Engineering Development and Research,</i>	2321-9939
22	Development of Variable Reluctance Stepper Motor	<i>International Journal of</i>	2319-7064

	Controller for PV System,913-14, October 2018	<i>Science and Research</i>	
23	Analysis of Fuzzy Logic Controller for Temperature Control of Ceramic IR Heater ,167-169,June 2016	<i>International Journal of Trend in Research and Development</i>	2394-9333
24	Role and Responsibilities of Power Exchange in Electricity Markets, pp.53-57, January 2016	<i>International Journal of Engineering Development and Research</i>	2321-9939

### **Publication in International Journal (15)**

- Vineet Shekher** ,” Development of Variable Reluctance Stepper Motor Controller for PV System” International Journal of Science and Research (IJSR) ISSN: 2319-7064, Volume 7 Issue 10, October 2018,PP 913-914
- Sumit Saroha , V.S. Gupta , **Vineet Shekher** , Preeti Rana , Pradeep Singla, “**Promoting short term load forecasting by using artificial intelligence** ”, International Journal of Engineering Applied Sciences and Technology, 2017 Vol. 2, Issue 3, ISSN No. 2455-2143, Pages 79-83 (Scopus Index)
- Vineet Shekher**, V.S. Gupta, Sumit Saroha. "**Analysis of Fractional order PID controller for Ceramic Infrared Heater**", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.4, Issue 1, pp.43-52, January 2016.( UGC Approved)
- Sumit Saroha, V.S. Gupta, **Vineet Shekher**. "**Role and responsibilities of power exchange in India**", International Journal of Engineering Development and Research (IJEDR), ISSN:2321-9939, Vol.4, Issue 1, pp.43-52, January 2016 .( UGC Approved)
- Vineet Shekher**, Nadeem, Akhilesh Kumar, Sumit Saroha. "**Analysis of Fuzzy Logic Controller for temperature control of Ceramic Infrared Heater**", International Journal of Trend in Research and Development (IJTRD), ISSN:2394-9333, Vol.3, Issue 3, May 2016
- Vineet Shekher**, Shivam Agarwal, Ravi Prakash Verma, Vikash Singh. "**Comparison Analysis using conventional PID tuning for speed control of DC Motor**", International Journal of Electronics Circuits and Systems (IJECS), ISSN:2277-5870, Vol.5, Issue 2, June 2016
- Sumit Saroha , Shalini Singh, Hema Singh, **Vineet Shekher**. "**Transient Analysis for the stability of Grid connected wind turbine.**", International Journal of Electronics Circuits and Systems (IJECS), ISSN:2277-5870, Vol.5, Issue 2, June 2016
- Kailash Pati Dutta, Pankaj Rai and **Vineet Shekher**, “**Microcontroller Based Voice Activated Wireless Automation System: VSRD-IJEECE**”, Vol. 2(8), 642-649,2012 ( UGC Approved)
- Vineet Shekher**, Pankaj Rai, Om Prakash,”**Tuning and Analysis of fractional order PID controller**” International Journal of Electronic and Electrical Engineering ( IJEEE) ISSN 0974-2174, Volume 5, Number 1 (2012), pp. 11-21 Jan 2012. ( UGC Approved)
- Pankaj Rai ,**Vineet Shekher**, Om Prakash,” **Determination of Stabilizing parameter of Fractional order PID controller Using Genetic Algorithm** “International Journal of Computational Engineering & Management, Vol. 15 Issue 1, pp-24-32 ,January 2012. ( UGC Approved)
- Vineet Shekher**, Neel Kamal Saini, Kumar Dhiraj,” **Comprehensive Study of Fractional Controller** “VSRD journal(International Journal of Electrical and Electronic Engineering”, Vol. 15 Issue 1, pp-24-32 ,April 2011 ( UGC Approved)

12. Neel Kamal Saini, Vineet Shekher” Grid Connected Hybrid PV/Battery Distributed System” in VSRD journal in September 2011(*VSRD-IJEECE, Vol. 1 (7), 2011, 420-428.*) ( UGC Approved)

### International Conference

Sr.No	Title	Conference Name	Year
1	Performance Evaluation of an Intelligent Controller Design for a Ceramic Infrared Heater	International Conference on Communication, Information & Computing Technology (ICCICT), Oct. 19-20, Mumbai, India	2012
2	Investigations on Effect of Frequency Variation on the Performance of Combined Cycle Gas Turbine	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems(ICPEICES-2018)	2018
3	Design and Experimental analysis of Integer Order PID Controller for Ceramic IR heating system	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems(ICPEICES-2018)	2018
4	Power Factor Correction Using APFC Panel on Different Loads	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems(ICPEICES-2018)	2018
5	Investigation of Effect of Frequency Variation on the performance of Combined Cycle gas Turbine	2 <sup>nd</sup> IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems(ICPEICES-2018) (IEEE)	2018
6	Design and Simulation of I-Slot Microstrip Patch Antenna with Defected Ground Structure for 5G Applications	2018 2nd International Conference on Micro-Electronics and Telecommunication Engineering (Springer)	2018
7	Power Quality Study In Interconnection Between Grid And DFIG	CETCME-2020	2020
8	A Study Of Infrastructural Security Of SCADA	CETCME-2020	2020
9	A Study Of FGPA Based Digital Filters	CETCME-2020	2020
10	Reduction of Power Supply Noise with Digital Filters	CETCME-2020	2020
11	Review of Transformer Core and Winding Design with Material Used	Future Trends in Materials and Mechanical Engineering, 6-7 November, 2020 (Springer)	2020

### M.Tech Thesis Guided

Sl. No.	Title of Thesis	Name of the Student	Year of Joining	Year of Completion
1	Comparative study of SPWN and SVPWN based closed loop speed control of PMSM	Sudesh Rani	2011	2013
2	Implementation of frequency analysis of PID Controller for DC motor control	Seema	2011	2013

3	Optimal Placement of Distributed Generation Based on Minimization of Fuel Cost	Lalit Garg	2011	2013
4	Optimal Tuning of PID controller for a continuous stirred tank reactor (CSTR) using four different Artificial intelligent technique	Pooja	2012	2014

### **Patent (National)**

Sr. No	Invention title	Application Number	Status
1	IOT BASED SOLAR POWERED IRRIGATION SYSTEM AND METHOD FOR SMART AGRICULTURE	202041037333	Published
2	IOT AND SENSORS BASED SYSTEM AND METHOD FOR ARTIFICIAL KIDNEY	202041034535	Published
3	UNIVERSAL REMOTE FOR HOME APPLIANCES	202031019501	Published
4	SYSTEM AND DEVICE FOR ARTIFICIAL LUNG	202021016552	Published

### **Expert Lecture**

Sr.No	Title of Lecture	Place	International/National/State/University Level	Date
1	Design and Implementation of Fractional controller	Gyan Ganga College of Technology, Jabalpur	National	13-17 Oct 2014
2	Industrial Automation	Futronix , Delhi	National	2-3 June 2014
3	Process Automation	OPTRA Automation	National	8-9 Sep 2015
4	Application of Renewable Energy Sources Using PV Array in a Small Community Bio-Park	Gyan Ganga College of Technology, Jabalpur	National	11 Oct 2016
5	Smart and Innovative Technologies in Engineering and Sciences	Gyan Ganga College of Technology, Jabalpur	National	11-12 Nov 2016
6	Application of PV Cells in Water Pumping for Irrigation Systems	Gyan Ganga College of Technology, Jabalpur	National	12 April 2016
7	Control Strategy in control system application	BRCM College of Engineering and Technology	National	24 march ,2018

### **Paper Presented at National Conference (04)**

1. Paper presented on “**PLC/SCADA Implementation of Speed/Direction Control on PMDC Motor**” in National Conference on Emerging trends in Electronics and Communication on 24 - 25 Dec 2010 at BRCM College of Engineering and Technology (ISBN No. – 978-93-80697-41-3) Page (279-283).
2. Paper presented on “**Application of CAN Bus for Pressure Measurement by using Piezo-Resistive Transducer**” in National Conference on Emerging trends in Electronics and Communication on 24 - 25 Dec 2010 at BRCM College of Engineering and Technology (ISBN No. – 978-93-80697-41-3) Page (304-306).
3. Paper presented on “**AVR based Generic Multi-Sensing Design for Industrial Automation**” in National Conference on Emerging trends in Electronics and Communication on 24 - 25 Dec 2010 at BRCM College of Engineering and Technology (ISBN No. – 978-93-80697-41-3) Page (312-313).
4. Paper presented on “**Non-Conventional Energy-Challenge for India**” in National Conference on Emerging trends in Electronics and Communication on 24 - 25 Dec 2010 at BRCM College of Engineering and Technology (ISBN No. – 978-93-80697-41-3) Page (325-327).

### **Conference Attended (02)**

1. A two day conference attended and paper present at DTU, Delhi on National conference on **Power System and Application** on dated 16<sup>th</sup> and 17<sup>th</sup> December 2011.
2. A two day conference attended and paper present at GLA University, Mathura on **ENERGY, ENVIORMENT AND SUSTAINABLE DEVELOPMENT** on dated 26<sup>th</sup> and 27<sup>th</sup> Feb. 2011.

### **Workshop Attended (07)**

1. A five day Faculty development program attended at NIET, Greater Noida on “**Recent Trends in Design, Control and Operation of Solar PV Systems**” on 23<sup>rd</sup> April to 27<sup>th</sup> April 2018 sponsored by AKTU.
2. A five day Faculty development program attended at DTU, Delhi on “**Smart power Flow Controller for smart Grid Application**” on 18<sup>th</sup> December to 23<sup>th</sup> December 2017 sponsored by GIAN.
3. A two day National workshop attended at DTU, Delhi on “**National workshop on Power Electronics (NWPE-2015)**” on 6<sup>th</sup> and 7<sup>th</sup> November 2015
4. A five day Faculty development program attended at DTU, Delhi on “**Recent Advances and Challenges in Power & Energy for Sustainable Growth**” on 1<sup>st</sup> June to 5<sup>th</sup> June 2015
5. A two week ISTE main workshop on “**control systems**” organized by national mission education through ICT (MHRD, Govt. of India) attended at DCRUST, murthal, sonapat on 2<sup>nd</sup> Dec. to 12<sup>th</sup> Dec 2014.

4. A one day workshop and FDP attended at Premsukh memorial College of Engineering on “**Recent Trends in Research in Engineering and Technology**”.
5. A five day workshop attended at BRCM CET, Bahal on “**Empowerment of Teaching Skill** “by Mission 10x (Wipro Technologies)
6. A five day workshop attended at CITM, Faridabad on “**Total Quality management**”
7. A two day workshop attended at CRRIT, Delhi on “**Sabdawali on Technical words**” by Govt. of India.

#### **Professional Membership**

SMIEEE, ISTE, MIE, UACEE, IAENG, CSTA, IS

#### **Journal Reviewer**

1. **International Journal of Engineering development and research**
2. **International Journal of Advanced Computing and Electronics Technology**
3. **International Society for Research and Development**

#### **B.Tech Project Supervised**

1. No. Student : 03

#### **Personal Details**

Permanent Address : 787-p, sector 15 A, Hissar-125001, Haryana  
Correspondence Address : FlatNo.177, Pkt-3, Abhilasa Appt, Sector-23, Rohini-81, Delhi.  
Date of Birth : 24, July'1978

I hereby declare that the above mentioned information is true to the best of my knowledge and belief.



**Dr. VINEET SHEKHER**

**DATE:**