

# Dr. Ahmed Riyaz

Chartered Engineer, Member IEEE (USA), Member, I.E. (India)

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<b>Sex:</b>	Male	<b>Marital Status:</b>	Married
<b>Date of Birth:</b>	15/06/1986	<b>Nationality:</b>	Indian
<b>Mobile Number:</b>	+91-9871-033-567	<b>e-mail:</b>	<a href="mailto:riyazamu@gmail.com">riyazamu@gmail.com</a>

## Objective

To be a part of an Institute where my creative initiative, ideas, and genuine enthusiasm would allow me to progress and offers me the opportunity to develop new skills while strengthening those I already possess.

## Summary

- Teaching Experience: 11 Years + Research Experience: 1.5 Years.
- Nodal Officer (Academics), TEQIP-III, BGSBU (August 2017 - September 2021).
- Admission Committee Member, SoET, BGSBU 2017-18 and 2021-22.
- Member, Construction Project Progress Monitoring Cum Assessment Committee, BGSBU.
- Member, Local Purchase Committee, BGSBU.
- Batch Coordinator (2017-21 Batch), EED, BGSBU.
- NAAC Criteria-VI Coordinator, EED, BGSBU.
- Chartered Engineer (India).
- Member IEEE (USA).
- Member, I.E. (India).
- Editorial Board Member, Journal of Energy and Power Engineering (EPE).
- Reviewer for Taylor & Francis.
- Reviewer for IEEE.
- Qualified IELTS, U.K.
- Qualified GATE with 92.26 percentile.
- Secured 2<sup>nd</sup> Rank at M.Tech.
- Worked as SRF at IIT Roorkee in an MHRD (Govt. of India) Sponsored R & D Project "Development of open-source Simulation Packages equivalent to MATLAB/ORCAD facilities for e-learning". Developed models are available online and can be simulated online at <http://www.sos-tools.org/>

- Best Paper Award for Paper "A Maximum Power Point Tracking Method for a Partially Shaded Solar P.V. Cell using PSO with Damped Inertial Weight Algorithm and Time varying Acceleration," at IEEE Sponsored International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019.
- Awarded with best presentation award in International Conference on Signals, Machines and Automation (SIGMA'18), February 23-25, 2018, NSIT Delhi, India.
- Established Electrical Machines Lab at BBDIT, Ghaziabad.
- Offered for the job in M/S Accenture through Campus Placement in B.Tech.

## Work Experience

- Assistant Professor (since Sept. '16) at Electrical Engineering Department, BGSBU, Rajouri.
- Assistant Professor at Electrical Engineering Department, BBDIT, Ghaziabad, UP from July '13 to Sept., 2016.
- Visiting faculty at BBDIET & RC, Jahangirabad, Bulandshahar during 2014-15.
- Assistant Professor at Electrical Engineering Department, RGGI, Meerut, UP from Aug '12 to July 2013.
- Senior Research Fellow at Deptt. Of Electrical Engg., IIT Roorkee from Feb. '11 to July 2012.
- Lecturer at Electrical & Electronics Engineering Department, NIEC, New Delhi from Aug '10 to Feb 2011.
- Lecturer at Electrical Engineering Department, ZHCET, AMU, Aligarh from Apr. '10 to June 2010.
- Visiting faculty for B.E. (Evening), ZHCET, AMU, Aligarh from Apr. '10 to June 2010.

## Invited Lectures / Chairs

- Delivered Expert Lecture on "Multi-phase Drives for Renewable Energy Applications" in Professional Development Programme on "Recent Trends in Green Technology for attainment of UN Sustainable Development Goal-2030" at Department of Electrical Engineering, Integral University, Lucknow during July 2-22, 2022.
- Session Chair, International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET 2022) Organized by Department of Electrical Engineering, National Institute of Patna on 24th -25th June 2022.

- Member Technical Program Committee, 2022 5th IEEE IAS International Conference on Computing, Power, and Communication Technologies (GUCON).
- Member Technical Program Committee, International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET 2022) Organized by Department of Electrical Engineering, National Institute of Patna on 24th -25th June 2022.
- Member Organizing Committee, Global Summit on Power and Energy Engineering (GSPEE2022), Dubai, UAE.
- Session Co-Chair, IEEE Energy Conversion Congress, and Exposition – Asia (IEEE ECCE-Asia 2021) held from 24<sup>th</sup> to 27<sup>th</sup> May, 2021, Singapore.
- Member Technical program committee, 3rd International Conference on Machine learning, Advances in computing, Renewable & Communication (MARC 2021).
- Delivered Expert Talk in International Short-Term Course on "Recent & Emerging Trends in Technology" organized by Department of Civil Engineering, Mohammad Ali Jauhar University, Rampur, U.P. in academic association with Mewat Engineering College, Nuh, Haryana on June 20-24, 2020.
- Delivered Expert Talk "Application of D.C. Machines in Automaton" during SAIP 2020, Automate Your World: Robotics, Automation & IoT from May 11 to June 05, 2020, organized by the Department of Electronics & Communication Engineering, IILM College of Engineering & Technology, Gr. Noida.
- Resource Person for three-day training program "MS Office Tools, Windows OS and Hardware" during October 17-19, 2019, at BGSBU.
- Member Technical Program Committee, International Conference on Innovation in Cyber-Physical Systems organized by HMRITM, New Delhi.
- Member of Technical program committee, 2nd International Conference on Machine learning, Advances in computing, Renewable & Communication (MARC 2020).
- Session Chair at International Conference on "Manufacturing, Advance Computing, Renewable Energy and Communication" on July 19<sup>th</sup> and 20<sup>th</sup> 2018 held at HMR Institute of Technology & Management, New Delhi.
- Delivered Expert Lectures in Short Term Course Faculty Development Program on "Recent Advances and Industrial Applications of Power Electronics Converters and Electrical Machines" during 22-26 October 2018 in the Department of Electrical Engineering, Aligarh Muslim University.
- Delivered Expert Lectures in Short Term Course on "Computer-Aided Electrical Machine Design" at Department of Electrical Engineering, NIT, Patna on 25 and 26 April 2018.

- Member Program Committee, CCTES18 (Computational and Characterization Techniques in Engineering & Sciences).
- Delivered Expert Lecture on "Induction Machine Analysis Using SIMULINK" at Department of Electrical Engineering, BGSBU on November 19, 2016.
- Delivered Expert Lecture on "Application of MATLAB" at EED, AMU in September 2012.
- Delivered Expert Lecture on "Application of SIMULINK" at RGGI, Meerut on October 19, 2012.

### Research Projects:

- **Principal Investigator** "Control and operation of multi-phase power electronic converter in an electric vehicle" worth Three Lakhs Indian Rupees funded by TEQIP-III (Sponsored by World Bank and Govt. of India).
- **Principal Investigator** "Integration of packed-U Cell based solar PV system with the grid" worth Three Lakhs Indian Rupees funded by TEQIP-III (Sponsored by World Bank and Govt. of India).
- **Co-Principal Investigator** "Solar PV based generation system with MPPT optimized by nature inspired algorithms" worth Three Lakhs Indian Rupees funded by TEQIP-III (Sponsored by World Bank and Govt. of India).

### Patents

- Granted **Australian Innovation Patent** (Number: 2021106064) "A Method and A System for The Performance of Solar Cell Under Changing Atmospheric Condition".
- Applied patent (Application No.: 201731028010, Dated 07 / 08 / 2017) for "A System of Photovoltaic-Integrated Solar Induction Heating using High Frequency Full Bridge Series Resonant Inverter Under CSI (Current Source Inverter) Mode and Solar Thermal Heating and Method for the Same" in the name of inventors Bidrohi Bhattacharjee, Ahmed Riyaz, Pradip Kumar Sadhu, Ankur Ganguly, Ashok Kumar Naskar and Atif Iqbal at Patent Office, Kolkata, **Government of India**.

### Workshop / Conference Organised:

- Organized International Conference on Renewable Power (ICRP-2020) during July 23-24, 2020 at BGSBU.

- Organizing Committee Member of five-day (one week) workshop "Design in Power Electronics" during February 6-10, 2020, at BGSBU.
- Organized three-day workshop "Career Planning" during October 17-19, 2019, at BGSBU.
- Organized three-day training program "MS Office Tools, Windows OS and Hardware" during October 17-19, 2019, at BGSBU.
- Organizing Committee Member of two-day workshop "Technical & Scientific Manuscript Preparation with LaTeX" during September 25 & 26, 2019, at BGSBU.
- Organized five-day (one week) Workshop "Repair and Maintenance of Laboratory Equipments and Computers" during November 2-6, 2018, at BGSBU.
- Organized five-day (one week) Short Term Course "Recent Advances in Power & Energy Engineering" during March 12-16, 2018, at BGSBU.
- Organized Workshop on 'MATLAB & Simulink' as Co-ordinator at RGGI, Meerut during 19-20 Oct. 2012.

## Publications

- Riyaz, Ahmed et al. 'Power Quality Enhancement of a Hybrid Energy Source Powered Packed E-cell Inverter Using an Intelligent Optimization Technique'. 1 Jan. 2022: 817 – 825., Journal of Intelligent & Fuzzy Systems, vol. 42, no. 2, pp. 817-825, 2022, DOI: 10.3233/JIFS-189751 (**Web of Science Indexed, Impact Factor: 1.851**).
- Riyaz, Ahmed, et al. "Power management of Hybrid grid system with Battery Deprivation Cost using Artificial Neural Network." Frontiers in Energy Research: 632.; doi: [10.3389/fenrg.2021.774408](https://doi.org/10.3389/fenrg.2021.774408) (**Web of Science Indexed, Impact Factor: 4.008**).
- Riyaz A, Sadhu PK, Iqbal A, Alamri B. Comprehensive Survey of Various Energy Storage Technology Used in Hybrid Energy. Electronics. 2021; 10(16):2037. <https://doi.org/10.3390/electronics10162037> (**Web of Science Indexed Q2, Impact Factor: 2.408**).
- Iqbal A., Malik H., Riyaz A., Abdellah K., Bayhan S. (**Book Editors**) Renewable Power for Sustainable Growth. Lecture Notes in Electrical Engineering, vol 723. Springer, Singapore. <https://link.springer.com/book/10.1007/978-981-33-4080-0> (**Scopus Indexed**).
- Asim M., Verma A., Riyaz A. (2021) Analysis on Various Optimization Technique Used for Load Frequency Control. In: Malik H., Fatema N., Alzubi

- J.A. (Eds) A.I. and Machine Learning Paradigms for Health Monitoring System. Studies in Big Data, Vol 86. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4412-9\\_32](https://doi.org/10.1007/978-981-33-4412-9_32) (**Scopus Indexed**).
- Ansari A.R., Khursheed M., Riyaz A., Kumar M. (2021) Generation of HVDC from Voltage Multiplier Using Opto-Isolator and Marx Generator. In: Iqbal A., Malik H., Riyaz A., Abdellah K., Bayhan S. (Eds) Renewable Power for Sustainable Growth. Lecture Notes in Electrical Engineering, vol 723. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4080-0\\_48](https://doi.org/10.1007/978-981-33-4080-0_48) (**Scopus Indexed**).
  - M. I. Sarwar, M. S. Alam, A. Sarwar, M. Zaid, A. Riyaz and M. Sarfraz, "PSO based Optimal Operation of a Cascaded Grid Connected Three Phase Solar P.V. Inverter," *2021 International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)*, 2021, pp. 1-7, DOI: 10.1109/ICAECT49130.2021.9392568. (**Scopus Indexed**).
  - A. Riyaz, A. Iqbal and M. Tariq, "Five-Phase Twenty-Seven Level Inverter Using Single DC Source for Photovoltaic Application," 2020 IEEE International Conference on Computing, Power and Communication Technologies (GUCON), Greater Noida, India, 2020, pp. 594-598, DOI: 10.1109/GUCON48875.2020.9231200. (**Scopus Indexed**).
  - Ahmed Riyaz, Pradip Kumar Sadhu, Atif Iqbal, Md. Abdullah Ansari, "Performance Analysis of Packed U-cell Based Inverter-Fed Five-Phase Induction Motor Drive Using SinPWM Technique," *International Journal of Power Electronics and Drive Systems (IJPEDS)*, Vol. 11, No. 4, 2020 <http://doi.org/10.11591/ijpeds.v11.i4.pp1899-1907> (**Scopus Indexed**).
  - Asim M., Khan M.S., Ahmad J., Umar T., Riyaz A. (2020) Efficiency Enhancement of Solar Panel Using Photodiode. In: Sikander A., Acharjee D., Chanda C., Mondal P., Verma P. (eds) Energy Systems, Drives and Automation. Lecture Notes in Electrical Engineering, vol 664. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5089-8\\_20](https://doi.org/10.1007/978-981-15-5089-8_20) (**Scopus Indexed**).
  - Sinha S., Agarwal P., Gupta N.K., Asim M., Riyaz A. (2020) Performance of Solar Cell Under Changing Atmospheric Condition. In: Sikander A., Acharjee D., Chanda C., Mondal P., Verma P. (eds) Energy Systems, Drives and Automations. Lecture Notes in Electrical Engineering, vol 664. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5089-8\\_21](https://doi.org/10.1007/978-981-15-5089-8_21) (**Scopus Indexed**).

- Marif Daula Siddique, Atif Iqbal, Ahmed Riyaz," Single-Phase 9L Switched-Capacitor Boost Multilevel Inverter Topology," IEEE PEDES 2020 Power Electronics Drives and Energy System 16-19 December 2020 Jaipur, Rajasthan, India Malaviya National Institute of Technology, Jaipur (**Scopus Indexed**).
- B Prathap Reddy, Atif Iqbal, Ahmed Riyaz," Adaptability of 9-Switch Inverter Configurations for Multiphase Induction Motors with Phase Reconfiguring Techniques," IEEE PEDES 2020 Power Electronics Drives and Energy System 16-19 December 2020 Jaipur, Rajasthan, India Malaviya National Institute of Technology, Jaipur (**Scopus Indexed**).
- Shaikh Moinoddin, Ahmed Riyaz, "Dual Seven-Phase Supply Using a Special Three to Fourteen-Phase Transformer Connection Scheme," International Conference on Recent Advances in Engineering & Science (ICRAES 2020), 11-12, January 2020, AMU, Aligarh.
- Ahmed Riyaz, Pradip Kumar Sadhu, Atif Iqbal, Abdul Azeem, "Performance Analysis of Depenbrock Level-1 and Level-3 PWM Schemes in Five Phase Inverter,"; 2<sup>nd</sup> International Conference on Energy System, Drives & Automations, December, 28th- 29th, 2019, Kolkata, India.
- Ahmed Riyaz, Pradip Kumar Sadhu, Atif Iqbal, Mohd Tariq," Determination of Symmetrical Components and Sequence Circuit in a Three-To-Five Phase System," 2<sup>nd</sup> International Conference on Energy System, Drives & Automations, December, 28th- 29th, 2019, Kolkata, India.
- Azeem A., Tariq M., Sarwar A., Riyaz A., BharatiRaja C. (2019) Mathematical Analysis of Various Modulation Strategies Used for Multilevel Inverter. In: Mishra S., Sood Y., Tomar A. (Eds) Applications of Computing, Automation and Wireless Systems in Electrical Engineering. Lecture Notes in Electrical Engineering, vol 553. Springer, Singapore. [https://doi.org/10.1007/978-981-13-6772-4\\_42](https://doi.org/10.1007/978-981-13-6772-4_42) (**Scopus Indexed**).
- Ansari M.K., Azeem A., Sarwar A., Tariq M., Hussan M.R., Riyaz A. (2020) Comprehensive Analysis of Different Modulation Techniques on a Multi-level Neutral Point Clamped Inverter in a Solar P.V. System. In: Pandian A., Ntalianis K., Palanisamy R. (eds) Intelligent Computing, Information and Control Systems. ICICCS 2019. Advances in Intelligent Systems and Computing, vol 1039. Springer, Cham. [https://doi.org/10.1007/978-3-030-30465-2\\_48](https://doi.org/10.1007/978-3-030-30465-2_48) (**Web of Science and Scopus Indexed**).
- Md. Abdullah Ansari, Arshad Mohammad, Mohd Tariq, Ahmed Riyaz," Residential Energy Conservation using Efficient Home Appliances,"

'International Journal of Innovative Technology and Exploring Engineering'  
Volume-8 Issue-10, August 2019. <https://www.ijitee.org/wp-content/uploads/papers/v9i3/J96290881019.pdf> (**Scopus Indexed**).

- I. Pervez, A. Pervez, M. Tariq, A. Sarwar, M. Zaid and A. Riyaz, "A Maximum Power Point Tracking Method for a Partially Shaded Solar P.V. Cell using PSO with Damped Inertial Weight Algorithm and Time varying Acceleration," 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019, pp. 1-6, DOI: 10.1109/UPCON47278.2019.8980088. (**Scopus Indexed**).
- M. Shahabuddin, A. Riyaz, M. Asim, M. M. Shadab, A. Sarwar and A. Anees, "Performance Based Analysis of Solar P.V. Emulators: A Review," 2018 International Conference on Computational and Characterization Techniques in Engineering & Sciences (CCTES), Lucknow, India, 2018, pp. 94-99, DOI: 10.1109/CCTES.2018.8674082. (**Web of Science Indexed**).
- Mohammed Asim, Ahmed Riyaz, Saurabh Tiwari and Archana Verma;" Performance Evaluation of Fuzzy Controller for Boost Converter with Active PFC," Page No. 5169–5175, Journal of Intelligent & Fuzzy Systems 35 (2018), IOS Press (**Web of Science Indexed, Impact Factor: 1.851**).
- Enas Mohammad, Fatima Khan, Hadeel Bassel, Atif Iqbal & Ahmed Riyaz (2017) Comparative analysis of three-phase to five-phase transformer connections, Australian Journal of Electrical and Electronics Engineering, (Taylor & Francis) Vol. 14, Nos. 1-2, pp. 20-29, DOI: 10.1080/1448837X.2018.1437678 (**Scopus Indexed**).
- Mohammed Asim, M. A. Mallick, Ahmed Riyaz; "Comparison of MPPT Strategies for Solar Modules Under Rapidly Changing Atmospheric Conditions," *International Conference on Energy Generation & Conservation for Meeting India's Futuristic Needs*, 22<sup>nd</sup> March-2014, BBDIT, UP.
- Ahmed Riyaz, Iqbal, A., Saleh, M., Kalam, A. (2013), "Performance Analysis of Soft Starter Based Control of Five-phase Induction Motor," 2013 *IEEE PES General Meeting*, 21 - 25 July 2013, Vancouver, BC, Canada, CD-ROM paper.
- Ahmed Riyaz, S P Singh, S K Singh; "Potential Benefits of Self-excited induction generator (SEIG) in Distributed Generation" *ETDG-2012, NIEC, GGSIP University, New Delhi*.
- Ahmed Riyaz, Atif Iqbal, Shaikh Moinoddin, Sk. Moin Ahmed, Haitham Abu-Rub; "Comparative Performance Analysis of Thyristor and IGBT based Induction Motor Soft Starters," *International Journal of Engineering, Science*



*and Technology-Sept-2009*, pp. 90-105, ISSN 2141-2839 (Online); ISSN 2141-2820 (Print).

### **Workshop/Conference Attended:**

- Attended AICTE-QIP Sponsored One Week Short Term Course "Issues and challenges of Grid Connected Renewable Energy Sources" (ICGCRE-22) Organized by Department of Electrical Engineering, Jamia Millia Islamia, Jamia Nagar, New Delhi-110025 during 21st Feb -25th Feb 2022.
- Attended Five-Days FDP on "Cyber Security in Digital Era" organized by Department of Computer Sciences BGSB University, Rajouri, J&K during August 23-27, 2021.
- Participated in Two - Week Refresher Course/ Faculty Development Programme on "Managing Online Classes & Co- creating MOOCS 4.0" from 11 - 26 March, 2021 under the Ministry of Education Sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), organized by the Teaching Learning Centre (TLC), Ramanujan College.
- Attended One Week workshop "Future-skill technologies in 3D Printing & Design" during 28 Nov - 2 Dec, 2020 at IIT Hyderabad.
- Participated in the five-day Workshop on "Magical Mathematics and Optimization" held from 21/09/2020 to 25/09/2020 organized by Vivekananda Institute of Technology, Jaipur.
- Participated in the one-week short term course on "Recent Trends in Renewable Energy Systems and Their Control" from 14/09/2020 to 18/09/2020, jointly organized by Department of Electrical Engineering and Department of Instrumentation and Control Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab.
- Attended AICTE Sponsored a One Week STTP on "Automotive Technology for a Sustainable Future" on 7th September 2020 to 12th September 2020 organized by Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad.
- Attended "Induction Training/Orientation Programme" for Faculty in Universities/Colleges/Higher Educational Institutions held from 04th June 2020 to 01st July 2020, under the MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), organized by Teaching Learning Centre (TLC), Ramanujan College in association with Research Development and Services Cell, Ramanujan College, University of Delhi.

- Attended Five Days FDP on "Recent Innovations and Technologies in Electric Vehicles RITEV- 2020" Organized by Department of EEE, Gates Institute Of Technology, Gooty, Anantapur, AP during 8-12 June 2020.
- Attended Short Term Course on Advanced Simulation Tools for Power Electronics, Electromagnetics and Power Systems From 1st June 2020 to 5th June 2020 Organized by Department of Electrical and Electronics Engineering, Vignan's Institute of Engineering for Women, Kapu Jaggarajupeta, Visakhapatnam, Andhra Pradesh-530046
- Attended One Week Online Faculty Development Program on "MOODLE: Learning Management System" organized by Department of Electronics Engineering, AMU, Aligarh in association with Spoken Tutorial Project, IIT Bombay from 27th May to 31st May 2020.
- Participated in the AICTE Recognized Faculty Development Programme on "Evaluation & Setting of Question Papers" from 25-05-20 to 29-05-20 (One Week) Organized by Education and Educational Management Department, NITTTR, Chandigarh.
- Participated in the AICTE Recognized Faculty Development Programme on "MATLAB Programming" from 11-05-20 to 15-05-20 (One Week) Organized by Electrical Engineering Department, NITTTR, Chandigarh.
- Participated in the AICTE Recognized Faculty Development Programme on "Teaching and Learning for Accreditation in Technical Education" from 27-04-20 to 01-05-20 (One Week) Organized by Electrical Engineering Department, NITTTR, Chandigarh.
- Attended FDP on "Machine Learning and Its Applications" from 04-May-20 to 12-May-20 organized by EICT IIT Roorkee.
- Attended Three-Day Workshop "FPGA Based System Design" from April 29 to May 01, 2019, held at AMU.
- Attended One Week AICTE recognized Short Term Course on "Statistical Data Analysis and Optimisation using Design of Experiment (DOE)" conducted by NITTTR, Chandigarh, from 12<sup>th</sup> to November 16<sup>th</sup> 2018.
- Attended One Week AICTE recognized Short Term Course on "Life Skills Development" conducted by NITTTR, Chandigarh, from July 30, 2018, to August 03, 2018.
- Participated in MHRD Sponsored Five Day Summer Training on "Active Learning" during June 4-8, 2018 at IIT Bombay.
- Participated in Two Day Workshop on "Outcome Based Education" at BGSBU during March 19-20, 2018 under TEQIP-III.

- Participated in TEQIP-III Sponsored Five Day STC on "Recent Trends in Power & Energy Engineering" at BGSBU during March 12-16, 2018.
- Attended One Week AICTE recognized Short Term Course on "MATLAB and LABVIEW with its Hardware Interface through ICT" conducted by NITTTR, Chandigarh, from 29.01.2018 to 02.02.2018 at BGSBU.
- Attended One Week AICTE recognized Short Term Course on "Power Quality Monitoring and Analysis through ICT" conducted by NITTTR, Chandigarh, from 30.10.2017 to 03.11.2017 at BGSBU.
- Attended One Week AICTE recognized Short Term Course on "Scilab Programming" conducted by NITTTR, Chandigarh, from August 21 '17 to August 25 '17 at BGSBU.
- Attended Two-day workshop cum training on Professional Development Trainings (PDTs) for the faculty/Administrators of TEQIP-III Institutions at IIM Shillong on October 31 & November 01 '17.
- Attended the short-term course on "Advanced Power Electronics and Power Quality" from July 05 to July 10, 2015, at ISM Dhanbad.
- Attended short-term course "Advances in Power Electronics & Renewable Energy" at ISM, Dhanbad from July 07 to 11, 2014.
- Attended IEEE Workshop "Revitalizing Power Education" at IITD for advancement and quality education of Engineering in India on November 23, '12 as College representative of RGGI, Meerut.

### **Area of Interest**

- Renewable Energy
- Multi-phase Drives System
- Power Electronics
- A.C. Drives and D.C. Drives
- Electrical Machines
- Open-Source Simulation Software Development

### **Academic/Prof. Qualification**

<b>Academic/Prof. Degree</b>	<b>Year</b>	<b>College/School</b>	<b>University/Board</b>	<b>Result</b>
PhD	2022	IIT (ISM), Dhanbad	IIT (ISM), Dhanbad	Awarded
M.Tech (Power System & Drives)	2009	ZHCET, AMU Aligarh (UP)	AMU	77.51%
B. Tech (Electrical Engg).	2007	ZHCET, AMU Aligarh (UP)	AMU	7.823 CPI
Senior Secondary School Certificate (XII <sup>th</sup> )	2003	Senior Secondary School, AMU Aligarh (UP)	AMU	74%
Secondary School Examination (X <sup>th</sup> )	2001	Govt. Boys Senior Secondary School No.- 1, C-Block, Yamuna Vihar, New Delhi	CBSE	70%

## Dissertation and Projects

- M.Tech Dissertation: Performance analysis of a five-phase induction motor for variable voltage supply.
- M.Tech Project: Performance analysis of a three-phase induction motor for variable voltage supply.
- B.Tech Project (Major): Modelling and Simulation of Vector Controlled induction machine drive.
- B.Tech Project (Minor): Electrical Machine Design I: Induction Motor, Specification: 50kW, 1.1kV, 3-Phase, 750 rpm, Wound Rotor.
- B.Tech Project (Minor): Electrical Machine Design II: Transformer, Specification: Three-phase 60kVA, 11000/440V, Core Type Distribution Transformer,  $\Delta/Y$  connected with 5% tapping.
- B. Tech Project (Minor): Power System Design: An Overhead Transmission Line to transmit 225 MW of Power to a distance of 200 km at 0.85 power factor lagging.

- M.Tech Seminar I: Transient Stability and Voltage Regulation Enhancement via Co-ordinated Control of Generator Excitation and SVC.
- M.Tech Seminar II: An Improved Starting Strategy for Voltage-Source Inverter Fed Three-Phase Induction Motor Drives under Inverter Fault Conditions.

### Software Skills

- Known Softwares: Typhoon-HIL, Matlab/ Simulink, Scilab, Modelica, Visio.
- Language Known: C/C++ Programming

### Extra-Curricular Activities

- Participation in debates, Urdu poetry,
- Participation in quiz competition,
- Playing badminton,
- Computer games that require brain skills,
- Reading storybooks.

### Languages known

- ✓ English, Urdu & Hindi

### Referees

- 1. Prof. (Dr.) Pradip Kumar Sadhu**  
Department of Electrical Engineering  
IIT (ISM), Dhanbad
- 2. Prof. (Dr.) Atif Iqbal**  
Department of Electrical Engineering  
Qatar University, Qatar
- 3. Prof. (Dr.) S P Singh**  
Department of Electrical Engineering  
IIT Roorkee



**(Ahmed Riyaz)**