

RESUME

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- 1. Full Name** : Dr. Rudra Prakash Maheshwari
- 2. Present Position** : Assistant Professor
Department of Electrical Engineering
Indian Institute of Technology
Roorkee – 247 667, India
- 3. Date of Birth** : 25th June, 1960
- 4. Educational Qualifications**

Degree	University	Specialization	Year
Ph.D.	University of Roorkee	Digital Protective Relays	1996
M. Sc. (Engg.)	Aligarh Muslim University	Instrumentation	1985
B.E.	Aligarh Muslim University	Electrical Engineering	1982

- 5. Title of M. Sc. (Engg.) Thesis**
Realization, Study and Application of Active Bridge Type Frequency-to-Voltage-converter.
- 6. Title of Ph. D. Thesis**
Developments in Adaptive Relaying for Transformer and Line Protection.

7. Teaching Experience: 18 Years

Designation	Employer	From	To
Assistant Professor	Department of Electrical Engineering University of Roorkee/ IIT, Roorkee	June 1998	Continuing
Lecturer Sr. Scale	Department of Electrical Engineering, A.M.U. Aligarh	Oct. 1991	June 1998
Lecturer	Department of Electrical Engineering, A.M.U. Aligarh	Oct. 1985	Oct. 1991

8. Administrative Experience

Post Held	From	To
Warden	April 1999	December 2002
Warden	Oct. 1995	June 1998
Program Officer NSS	Jan. 1988	June 1991

9. Memberships of Professional Bodies

Life member, Institution of Engineers (India)

Life member, Institution of Electronics and Telecommunication Engineers (India)

Member IEEE (USA)

11. Awards and Honours

- Stood 2nd in order of merit in B.E.
- The Institution of Engineers (India) Certificate of Merit, 1995-96, for the research paper “Adaptive Digital Differential Protection of Transformer: Improvement Over the Fixed-Bias Scheme”.

11. Research Interest

Digital Protective Relays

Automated Test Equipment

Power System Monitoring and Control

Digital Instrumentation

Traction System

12. Research Guidance

• **Ph. D. Theses**

- Completed Nil
- In Progress Three

- **Dissertations**
 - Completed : 15 M.E./ M. Tech./ MCA/ M.Phil. (list given in Annexure A)
 - In Progress : One
- B.E./B.Tech. Projects : More than 25
- SURA Projects : Three

13. Research Papers

18 Research Papers published in National/International Journals or presented in National/International Conferences. List enclosed (Annexure B).

14. Technical Reports Written

- Design and Development of Digital Overfluxing Relay.
- Communication Software (MODBUS-Protocol) for Digital Overfluxing Relay.
- Residual Life Assessment of Electrical Equipment and Control Panels of Mohammadpur Hydroelectric Power Station.
- Residual Life Assessment of Electrical Equipment and Control Panels of Galogi Hydroelectric Power Station.

15. Sponsored Research Projects

Completed

- “Low Cost Portable Dialysis Machine”, funded by CSIR (Co-Investigator).
- “Development of Automated Test Equipment (ATE) for the Testing of Protective Relays” funded by UGC.

In Progress

- “Digital *Traction OHE Protection*”, funded by CSIR.

16. Industrial Consultancies/ Testing

Actively involved in doing Industrial testing/ consultancies

Testing

- Developed testing facilities for testing of Heavy Duty Underground Electrical Cables and done testing for Cantonment Boards of Joshimath and Dehradun.
- Done testing of Indicating Instruments for M/S Bharat Carbons Pvt. Ltd.

Consultancy Projects

Sr. No.	Project Title	Sponsoring Industry/ Organization	Year of Completion	Project Investigators	Amount (Rs. In lacs)
1.	Residual-Life Estimation of Electrical Equipment of Mohammadpur Power House	Uttaranchal Power Corporation, Dehradun	2002	Dr. R.P. Maheshwari Dr. H.K. Verma Dr. Vinod Kumar	2.40
2.	Digital Overfluxing Relay	AVK-SEG & Controls (India) Ltd., Noida	2002	Dr. R.P. Maheshwari Dr. H.K. Verma	2.00
3.	Communication Software for Digital Overfluxing Relay	AVK-SEG & Controls (India) Ltd., Noida	2002	Dr. R.P. Maheshwari Dr. H.K. Verma	1.00
4.	Residual-Life Estimation of Electrical Equipment of Galogi Power House	Uttaranchal Power Corporation, Dehradun	2002	Dr. R.P. Maheshwari Dr. H.K. Verma Dr. Vinod Kumar	0.20
5.	Residual-Life Estimation of Electrical Equipment of Nirgajani Power House	Uttar Pradesh Jal Vidyut Nigam, Lucknow	Ongoing	Dr. R.P. Maheshwari Dr. H.K. Verma Dr. Vinod Kumar	3.50
6.	Performance Testing of Small Power Houses	MNES, New Delhi	Ongoing	Dr. R.P. Maheshwari Dr. H.K. Verma Dr. Vinod Kumar	2.00

17. Other Informations

- Delivered Invited talk on “Digital Relays for the Protection of Traction OHE”, at Indian Railways Institute of Electrical Engineering (IRIEEN), Nasik.
- Attended many short term/ refresher courses in Instrumentation and Protective Relaying.
- Attended many National/International Conferences/workshops in India and Abroad.
- Was actively involved in various social development projects like Adult Education, Rural Health, Tree plantation etc.

LIST OF M.E. / M. TECH./M.C.A/ M. PHIL. DISSERTATIONS GUIDED

1. Adaptive Digital Protection of Generator Winding.
(Dinesh Kumar, 1996)
2. Algorithm for Resistance Estimation of Series Compensated Line for Protective Relay Application.
(Sameera, 1998)
3. Microcontroller Based Fault Recorder and Annunciator.
(Manish Jain, 1999)
4. Automated Test Equipment for Dynamic Testing of Protective Relays.
(Amitabh Trivedi, 1999)
5. Computerized Protective Relay Test System.
(Manish Kumar Gupta, 2000)
6. Development of Micro-controller Based Power Analyzer.
(Dinesh Mohan, 2001)
7. Power System Simulator for Dynamic Testing of Protective Relays.
(Raj Pal Singh, 2002)
8. Simulator for Small Hydro Power Plant.
(Pankaj Kumar Chandrakar, 2003)
9. Sales and Bar Code Printing for ISMA.
(Santosh Kumar Singh, 2002)
10. Conceptualization and Development of Collaborative Websites.
(Mona Mehta, 2002)
11. Application Development for Palmtop.
(Nitin Baranwal, 2002)
12. Torque measurement Using Strain Gauge.
(Sapan Mohan Saini, 2000).
13. Microprocessor Based Stepper Motor Controller.
(Anuj Kumar, 2000)
14. Time Interval Measurement Between two Events Using digital Counter.
(Rekha Thakur, 2001)
15. A high Q Band Pass filter Using Operational Amplifier.
(Rahul Chaudhary, 2002).

LIST OF RESEARCH PUBLICATIONS

1. "A precision Type Differential Speed Transducer"
Proceedings of second International Symposium on Instrumentation, Calcutta, December 1983.
2. "On Linear Frequency-To-Voltage Converter"
Proceedings of second International Symposium on Instrumentation, Calcutta, December 1983.
3. "Active Bridge-Type Linear Frequency-To-Voltage Converter"
J. of Phys. E. Sci. Instrum. (G.B.), Vol. 21, 1988, pp. 1099-1100.
4. "Microprocessor Based System for Measurement and Control of Power Line Parameters"
Proceedings of 5th International IMEKO Conference on Biomedical Instrumentation and All India Workshop on Instrumentation, Calcutta, November 1989.
5. "A Versatile Impedance Meter Using Microprocessor"
Proceedings of 5th International IMEKO Conference on Biomedical Instrumentation and All India Workshop on Instrumentation, Calcutta, November 1989.
6. "Design of Suboptimal AGC Regulator with Sensitivity Considerations"
J. of The Institution of Engineers (India).
7. "Load Frequency Control of Reheat-Thermal Power Systems"
J. of The Institution of Engineers (India).
8. "A Versatile Circuit for Internal Cardiac Pacing"
Proceedings of All India Conference on Biomedical Instrumentation, Lucknow, February 1990.
9. "Adaptive Digital Differential Relay of Parabolic Characteristic for Transformer Protection"
J. of electric Machines and Power Systems, Vol. 25, No. 5, pp. 459-473, 1997.
10. "Adaptive Digital Differential Relay with Overexcitation and Inrush Restraint."
J. of Electric Power System Research, Vol. 41, pp. 175-184, 1997.
11. "Adaptive Digital Relay for Comprehensive Distance Protection of Traction Overhead Equipment"
Sixth International Conference on Developments in Power System Protection, IEE (March 1997, Nottingham, UK). Conference Publication No. 434, pp. 331-337.

12. "Adaptive Digital Differential Protection of Transformer – Improvement Over the Fixed Bias Scheme"
J. of The Institution of Engineers (India), Vol. 76, Part EL, March 1996, pp. 218-221.
13. "Intelligent Digital Differential Relay for Transformer Protection"
J. of the Institution of Engineers (India), Vol. 83, Part EL, December 1997, pp. 158-163.
14. "Microprocessor Based RL-Measuring Distance Relay for Line Protection"
International Conference on Computer Application in Electrical Engineering; Recent Advances, Roorkee, September 1997, pp. 435-440.
15. "Performance Improvement of Distance Relays by Adaptive Amplification"
National Seminar on Recent Trends in the Design of Electronic and Other Engineering systems, Aligarh, November 1997.
16. "Adaptive Compression of ECG Data"
National Conference on Biomedical Engineering, Institute of Technology, Manipal, April 9-11, 1998.
17. "Blood Flow and Oxygen Uptake During Exercise"
National Conference on Biomedical Engineering, Institute of Technology, Manipal, April 9-11, 1998.
18. "Accuracy Improvement of distance Relays through Adaptive Amplification"
CBIP International Conference "Modern Trends in the Protection Schemes of Electric Power Apparatus and Systems". October 28-30, 1998, New Delhi, India.