

DR. H.K. VERMA

Selective List of M.E. / M. Tech. Dissertations Guided (Total No.: 175)

AT UNIVERSITY OF ROORKEE (1 – 69)

1. On some Aspects of Biotelemetry
K.Bose, 1972 **(1)**
2. Respiration Control Dynamics
S.C. Saxena, 1973 **(2)**
3. Application of Static Relays to Power System Protection (with Reference to Maharashtra State Electricity Board)
S.A.P. Bhaskar, 1973 **(3)**
4. Transient Torque Meter
A.J.Kellogg, 1976 **(4)**
5. Solid-State Tariff Meters: Analysis & Development
S. Mukherjee, 1976 **(5)**
6. Instrumentation for Location of Distance-to-Faults on Overhead Lines
R.B. Srivastava, 1977 **(7)**
7. Infrared Sources, Detectors and Instrumentation
P.K. Tandon, 1978 **(11)**
8. Electronic Testing of Integrating Meters
A.K. Saxena, 1979 **(12)**
9. Application of Phase-Locked Loops to Instrumentation
K. Valecha, 1979 **(13)**
10. Applications of Fibre-Optics in Telemetry and Telecontrol
Rajiv Khare, 1984 **(14)**
11. Development of Microprocessor-Based Relay for Generator Protection against Stator Short Circuits and Excitation Failure
S.S. Chhajta, 1985 **(15)**
12. Microprocessor Application for Automation in Hydroelectric Plant
S.C. Verma, 1986 **(16)**
13. Flow Detection using Ultrasonic Techniques
Radhey Shyam Anand, 1987 **(17)**

14. Modelling of Human Auditory System and Hearing Deficiency Classification
Ambalika Sharma, 1988 **(18)**
15. Microcomputer – Based Two-Level Supervisory Control and Data Acquisition System
Anupama Singhal, 1990 **(31)**
16. PC Based Monitoring and Control of Parameters in a Power Station
Mahesh Kumar, 1993 **(36)**
17. Multigroup Logistic Classification of Electro-cardiograms
Ranjan Maheshwari, 1996 **(53)**
18. ECG Extraction from Graphical Records Using Image Processing Techniques
Mrs. S. Santhi, 1997 **(54)**
19. Measurement and Analysis of Vibrations Using Artificial Neural Network
Yogesh Kaushik, 1997 **(55)**
20. Programmable Controller for Soldering Machines
Sanjeev Kumar Jain, 1997 **(56)**
21. Signal-Averaged Electrocardiography for Parametric Evaluation
Shameem Ahmad Lone, 1998 **(57)**
22. Adaptive Control of Vibrator
Anup Kumar Goyal, 1998 **(58)**
23. Vibration Analysis Using DSP
Berhane Zekarias T. Ab, 1998 **(59)**
24. Artificial Neural Network Based Intelligent Controller
Neetu Jaiswal, 1998 **(60)**
25. Fuzzy Logic Based Wide-Range Vibration Control System
Sujit Kumar Chakrabarti, 1999 **(62)**
26. Performance Analysis of Vibration Controller
Deependra Singh, 1999 **(63)**
27. Automatic Test Equipment for Dynamic Testing of Protective Relays
Amitabh Trivedi, 1999 **(64)**
28. Computerized Protective Relay Test System
Manish Kumar Gupta, 2000 **(68)**
29. Feature Extraction from Medical Images Using Image Processing Techniques
Dileep Kumar P.V., Feb. 2001 **(69)**

AT INDIAN INSTITUTE OF TECHNOLOGY ROORKEE (70 – 122)

30. Teleconsultation for Healthcare
J. Bargavi Priadarsini, Feb. 2002 **(70)**
31. Power System Simulator for Dynamic Testing of Protective Relays
Raj Pal Singh, Feb. 2002 **(71)**
32. An Intelligent On–Line Machine Fault Diagnosis System
Nishchal Kumar Verma, Feb. 2003 **(74)**
33. Automated Test System for Efficiency of Turbine and Generator
Abhinay Mohan, Feb. 2003 **(75)**
34. Simulator for Small Hydro Power Plant
Pankaj Kumar Chandrakar, Feb. 2003 **(76)**
35. Vibration Signal Analysis and Feature Extraction
Sreenivasulu Guntapudi, Feb. 2003 **(77)**
36. Structural Health Monitoring of Bridges
Amit Arunrao Linge, Feb. 2003 **(79)**
37. Instrumentation for Hydroelectric Power Plant
Raj Kishor, June 2003 **(80)**
38. Real–Time Multi–Channel Process Monitoring and Control
Roop Pahuja, June 2003 **(81)**
39. Distributed–Wireless Data Acquisition System for Performance Testing of Turbine and Generator
Nakkala Sivaram Prasad, June 2004 **(83)**
40. Instrumentation for Road Roughness Measurement
P. Sudheer, June 2004 **(84)**
41. Online Fingerprint Verification for Security Applications
K. Upendra, June 2004 **(85)**
42. Detection of Generator Stator Faults using Neuro–Fuzzy Technique
Saurabh Nema, June 2004 **(86)**
43. Transit Time Flow Meter Application to Closed Pipes Demanding High Accuracy
Prem Vasantha Kumar Mandimala, June 2005 **(87)**
44. FPGA Based Data Processor for Discharge Measurement Using Propeller Current Meters
Sirat Moin Uddin, June 2005 **(88)**

45. Online Fingerprint Verification
M. Bhushan Kumar, June 2005 **(89)**
46. Design and Development of an Embedded System with Reconfigurable System-on-Chip Architectures
Suresh A., June 2006 **(90)**
47. Error Sources and Error Correction for Flow Measurement in Open Channel by Ultrasonic Transit-Time Flowmeter and Propeller Current Meter
Boby Abraham Y., June 2006 **(91)**
48. Development of PLC Based Controls for a Hydroelectric Power Plant
P.S. Sai Krishna, June 2006 **(92)**
49. Flow Measurement in Trapezoidal Open Channels with Profiler and Propeller Current Meters
Kasundra Sanjay Kumar Bhagvanji, June 2007 **(96)**
50. Accuracy Improvement of Flow Measurement using UTTF
M. Satya Rama Pavan Kumar, June 2007 **(97)**
51. Mixed-Mode SCADA Network for Hydro Electric Power Plant
N. Sai Manohar, June 2008 **(99)**
52. Automation of Guest House Building
G. Santosh, June 2008 **(100)**
53. Automation of Multi-Storey Residential Building
Chander Kant, June 2008 **(101)**
54. Implementation of IEEE 1451.2 Complaint STIM
Maheswar Martha, June 2008 **(102)**
55. Implementation of IEEE 1451.4 Mixed-Mode Communication Protocol and TEDS Using FPGA and FPAA
Sruthi Manchala, June 2009 **(104)**
56. Mixed-Signal IC Design for Testability
Sandip Maity, June 2009 **(105)**
57. Energy Efficiency of Hotel Buildings through Automation
Neelam Verma, June 2009 **(106)**
58. Implementation of IEEE 1451.3 Compliant TBIM for Distributed Multi-Drop System
Anubhav Jain, June 2009 **(107)**
59. Development of IEEE 1451.1/1451.4 Compatible NCAP
Shikha, June 2010 **(109)**

60. Implementation of 1451.3 Compliant TBIM and TBC using FPGA
Deeptanshu Sharma, June 2010 *(110)*
61. Automation Techniques for Smart Homes for Elderly People
Resmi .K, June 2010 *(111)*
62. Wireless Sensor Networks for Asset Management
Mrutyunjay Rout, June 2010 *(112)*
63. Development of Wireless Sensor Networks for Process Industry
Bhatt Jignesh Gaurangbhai, June 2010 *(113)*
64. Hydro Turbine Efficiency Measurement by Thermodynamic Method
S.S. Patil, June 2010 *(114)*
65. Measurement & Calibration Systems for Hydro-Turbine R&D Laboratory
Bhatt Utsav Ashok Kumar, June 2011 *(115)*
66. Energy Optimizer for Hydro-Turbine Laboratory
Dongardive Arun Madhavrao, June 2011 *(116)*
67. Internet Based Monitoring of Bridge Structure Using Wireless Sensor Network
Khivasara Ankit Dilip, June 2011 *(117)*
68. Access and Asset Management of an Academic Institute
Kulkarni Abhijeet Sudhakar, June 2011 *(118)*
69. Digital Control & Data Acquisition for Hydro-Turbine Laboratory
Shah Viral Dhirajkumar, June 2011 *(119)*
70. Turbine Efficiency Measurement by Thermodynamic Method
S.S. Patnaik, June 2011 *(120)*
71. Zigbee Based Monitoring Systems for Rolling Stock Applications
Nikhil Kant Kulshrestha, June 2012 *(122)*

AT SHARDA UNIVERSITY (123 onward)

72. Coordination of Relays for Transmission and Distribution System
Sonam Parashar, June 2013 *(123)*
73. Design of SCADA System for Hydro-Electric Power Plant (with Reference to Sawra-Kuddu Hydro-Electric Project).
Amit Chander Thakur, June 2014 *(125)*
74. Demand Side Management in Distribution System with Distributed Generation.
Subhajit Ganguli, June 2014 *(128)*

75. Improved ANN Algorithm for Numerical Protection of AC Transmission Lines.
Sujit Kumar, June 2015 **(129)**
76. Development of Data Acquisition and Control System for Intelligent Greenhouse.
Akriti Palit, June 2015 **(130)**
77. Development of Artificial Neural Network and Adaptive Neuro-Fuzzy Inference System Based Techniques and Algorithms for Protection of Transmission Line.
Abubakar Isa, October 2015 **(132)**
78. Development of an ANN-Based Improved Algorithm for Numerical Protection of Power Transformer.
Bello Suleiman Muhammad, October 2015 **(133)**
79. Design of Protection Schemes for AC Transmission Lines.
Usman Ibrahim Abubakar, October 2015 **(135)**
80. Design of SCADA System for Hydro Power Plant: A Case Study of Challawa Hydroelectric Power Plant.
Abubakar Sadiq Mohammad, October 2015 **(136)**
81. SCADA System Design for 578.4-MW Jebba Hydro Power Plant in Nigeria.
Fatihu Auwalu Sani, October 2015 **(137)**
82. Vision Based 3-D and 2-D Collision Avoidance.
Shamsu Saleh Kwalli, October 2015 **(138)**
83. Instrumentation and Control for Multi-Effect Evaporator in Recovery Section of Paper Mill.
Aminu Tijjani, October 2015 **(139)**
84. Efficiency Testing of Hydropower Plants: Issues, Solutions and Case Studies.
Abdullahi Ismail Beli, October 2015 **(140)**
85. Development of Automation System for Residential Complex for the Elderly.
Auwalu Saleh Mubarak, October 2015 **(141)**
86. Intelligent Electronic Travelling Aid for Visually Impaired.
Umar Shuaibu, October 2015 **(142)**
87. Data Acquisition and Control of an Intelligent Green House.
Ibrahim Abdulhamid Garba, October 2015 **(143)**
88. Development of High Security Multiple Technology Based Access Control System.
Shamsu Idris Abdullahi, October 2015 **(144)**
89. Development of Intelligent Tracking Device for Dementia Affected Persons.
Rabiu Aliyu Abdulkadir, October 2015 **(145)**

90. Design of Building Automation System for Safety and Security in Mandela Hostel of Sharda University
Bashir Muhammad Ahmad, October 2015 **(146)**
91. Automation in Mandela Hostel for Energy Conservation
Haris Abubakar Donaldi, October 2015 **(147)**
92. Development of Wireless Sensor Network Based Profiling System and Fuzzy Logic Controllers for an Intelligent Green House
Shreya Mohan, June 2016 **(148)**
93. Development of Virtual Resistance and Vector Impedance Meters using LabVIEW
Puja Kumari, June 2016 **(149)**
94. Design of SCADA and SMART Metering System for Micro-Grid to Support Energy and Demand Management
Gaurav Sharma, June 2016 **(150)**
95. Development of ANN-Based Relay Algorithm for the Protection of SVC Compensated Transmission Line.
Farhana Fayaz, June 2016 **(151)**
96. Development of ANN-Based Relay Algorithm for the Protection of Series Compensated Transmission Line.
Nikita Singh, June 2016 **(152)**
97. Design of SCADA System for Micro-Grid with Distributed Renewable Energy Resources.
Bimenyimana Theogene, June 2016 **(153)**
98. Development of Algorithm for Numerical Protection of Generator on loss of Excitation Condition.
Jyoti Dubey, June 2016 **(154)**
99. Transmission Line Protection Algorithms for Fault Detection and Classification.
Abdul Waheed Kumar, May 2017 **(155)**
100. Development of RTU and MTU Software for the Operation and Control of Smart Microgrid.
Faizan Kabir, May 2017 **(157)**
101. Development of Algorithm for Numerical Protection of Generator on Different Faults.
Sidharth, May 2017 **(158)**
102. SCADA-Based Energy Management System for Multi-Storey Students Hostel Building: Hardware and Software Designs.
Arnab Chowdhury, May 2018 **(159)**

103. PLC and SCADA Based Control of 120-MW Machkund Hydro-Power Station.
Subrat Kumar Bihari, May 2018 **(160)**
104. Development of PLC Based Control System for Single and Multi Effect Evaporators.
Shubham Ahuja, May 2018 **(162)**
105. Design and Development of Building Energy Management System.
Aashif Ahmad Khan, May 2019 **(163)**
106. Bidirectional Control of AC/DC Interlinking Converter in AC/DC Hybrid Microgrid.
Atabek Khadim, May 2019 **(164)**
107. Power/Energy Management Strategies and Supervisory Control of AC/DC Hybrid Microgrid.
Vishakha Chaudhary, May 2019 **(165)**
108. Design and Development of Hardware and Software for Remote Control of Electric Substations of Microgrid Using SCADA Technique.
Vivek Thakur, May 2019 **(166)**
109. Design and Development of Water Leakage Detection System using WSN.
Ramesh Kumar, May 2019 **(167)**
110. Integration of Smart Meters with SCADA for Energy Management in Microgrid. Behailu Gudeta, November 2019 **(168)**
111. Development of PLC and SCADA Based Automation System for Control of Irrigation Dam Gates.
Sandip Dhakal, May 2020 **(169)**
112. Differential Protection and Adaptive Overcurrent Protection for Microgrid. Gaye Chukwuyem Edobor, May 2020 **(170)**
113. Developments in Protection of Generators.
Shugufta Yousuf, May 2020 **(171)**