

Name of Faculty Dr. M BALASUBBAREDDY
 Designation Professor
 Nature of Job/Appointment Regular
 Date of Joining 03-07-2017
 E-mail balasubbareddy_eee@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (EEE)	Awarded
PG	M. Tech. (PS)	First
UG	B. E. (EEE)	First

Work Experience

Teaching 20 Years
 Research 14 years
 Industry --
 Others --

Area of Specialization Power systems, Power Electronics, Soft computing Techniques

Professional Memberships

1. Member, IEEE Number: 944077447
2. Life Member, ISTE Number: LM 51721
3. Life Member, IE(I) Number: M-151055-4
4. Member, IAENG Number: 148199
5. Fellow Member, ISRD Number: F3140900251
6. Fellow Member, IRED Number: SNM10100057613
7. Member, Society for Engineering Education Enrichment, SEEE Number: IND TN 9999 9999 7667 (2020)

Responsibilities held at Institution Level

1. Convener, Ethics Committee
2. Worked as R&E Coordinator in CBIT from 07-12-2019 to till date.
3. Worked as R&D Coordinator in CBIT from 17-01-2019 to 07-12-2019
4. Member, Program Content Committee, from 31-01-2020 to 11-04-2021
5. Member, Disciplinary Committee, from 25-02-2020 to 11-04-2021
6. Member, Institute Innovation Cell, from 25-02-2020 to 11-04-2021
7. Member, NBA Accreditation Committee, from 08-06-2021 to date
8. Member, Institute Industry Cell, from 12-04-2021 to date
9. Member, Innovation-Teaching, Learning & Evaluation Committee, from 12-04-2021 to till date
10. Member, Patenting Committee, from 12-04-2021 to date

Responsibilities held at Department Level

1. Member Board of Studies
2. Convener, Departmental Research Committee
3. Member, Course Expert Group
4. In-charge, Honours degree

Research Guidance

04 (In Progress)

Awards Received

1. Best Researcher of the year 2009 award from JNT University, Kakinada, 01-11-2009
2. National Award for Teaching Excellence - 2013 from Indus Foundation at Hyderabad, 11-11-2013
3. Research Excellence -2016 from Indus Foundation at Bangalore, 23-09-2016
4. Educational Leadership-2017 from Indo-Global Education Summit and Expo 2017 at Hyderabad, 19-07-2017
5. Adarsh Vidya Saraswati Rashtriya Puraskar (National Award of Excellence 2018) from Global Management Council, Ahmedabad, 02-10-2018
6. Best Faculty from EET CRS Academic Brilliance Awards-19, Noida, 27-01-2019
7. Honorable Jury mention (Scientist category) from EET CRS 4th South Asian Education Awards-19, Hyderabad, 10-03-2019
8. Excellence in Research from EET CRS 8th Academic Brilliance Awards-2020, 08-03-2020
9. Dr. Radhakrishna Award for Engineering College Teacher Award-2020, from Society for Engineering Education Enrichment SEEE

Awards 2020, 20-12-2020

10. Best Teacher of the year 2021 from Chaitanya Bharathi Institute of Technology, Hyderabad, 06-03-2021
11. Global eminent scientist award 2021 from Vij Trust Thirunindravur, TN, 29-03-2021
12. Best Open Source Learner Award 2022 from knowledge research academy Coimbatore, TM, International award ceremony on Star Achievers in Engineering, Management, Arts and Science (SAEMAS - 2022), 14-08-2022
13. Award of Excellence in Research 2022, IJMTST Excellence awards 2022 from Vijayawada, 25-09-2022

Courses Handled at Under Graduate / Post Graduate Level.

Electrical Machines – I, Electrical Machines – II, Power Systems – I, Power Systems – II, Power System Analysis, Power system operation and control, Modeling of Power system Components, Control Systems, Advanced Control Systems, Linear System analysis, Utilization of electrical energy, HVDC Transmission systems, Digital Signal processing, Computer methods in Power systems, Power electronics, Power semiconductor drives, Basic Electrical Engineering, Power semiconductor devices and circuits, Advanced computer methods in power systems, Simulation techniques for Electrical Engineering, Power Electronic Converters

No. of Papers Published

National Journals – 01 International Journals – 69
National Conference – 02 International Conference – 15

Projects Carried out

Received the total grant of Rs 1100000/-for conduct of project under Research Promotion Scheme (RPS) during the financial year 2019-20 from AICTE for RPS titled “An Efficient Low Cost Flexible Quality Conditioner to mitigate Power Quality Issue (Ongoing)

Published:04

Patents

1. Dr M Balasubbareddy, Kondapalli Venkata Sri Ram, Dr P. Venkata Prasad, filled a Patent on 28-12-2022 and published on 06-01-2023 with journal no. 01/2023 with application no. 202241076313 A with the title of invention as “Hardware design of FPGA based Unified Power Quality Conditioner (UPQC)”
2. Dr M Balasubbareddy, Kondapalli Venkata Sri Ram, Dr P. Venkata Prasad, filled a Patent on 26-02-2022 and published on 04-03-2022 with journal no. 09/2022 with application no. 202241010487 A with the title of invention as “Design of Power Quality Analyzer (PQA) using Field Programmable Gate Array (FPGA)”
3. Dr M Balasubbareddy, Dr P. Venkata Prasad, Dr. Nireekshana Turaka, filled a Patent on 27-10-2021 and published on 05-11-2021 with journal no. 45/2021 with application no. 202141049019 A with the title of invention as “System for Mitigating Circulating Current in type Modular Multilevel Converter (MMC)”
4. M Balasubbareddy, Divyanshi Dwivedi, P. Venkata Prasad, filled a Patent on 27-05-2021 and published on 11-06-2021 with journal no. 24/2021 with application no. 202141023572 in the field of “A Power Transmission Network Based on Optimal Generalized Interline Power Flow Controller (OGIPFC) for Optimal Power Flow for Complex Networks to Meet Increased Load Demand”

Copyright:01

Technology Transfer

1. Dr M Balasubbareddy, K Venkata Sri Ram, Y Ranadheer, a Copyright is filed with Diary number: 30821/2021-CO/L, date of filing of application: 20.12.2021 and granted with Registration number L-112510/2022, granted date: 28.02.2022 with title of “Bidirectional isolated dc-dc converter circuit for EV battery storage

Invited Speaker

1. Resource person for the invited talk on “Hands-on MATLAB Programming”, EEE Dept. Newton’s Institute of Engineering, Macherla, 16-05-2022
2. Resource person for the invited talk on “Design of Power Quality Conditioner to Mitigate Power Quality issues”, EEE Dept. Newton’s Institute of Engineering, Macherla, 04-04-2022
3. Resource person for the AICTE sponsored two-week online FDP (phase-II) talk on “Implementation of Teaching Learning Based Optimization (TLBO) in MATLAB”, EEE Dept. VVIT, Guntur, 07-12-2020
4. Resource person for the AICTE sponsored two-week online FDP

	(phase-II) talk on “Machine learning for Engineering Applications”, EEE Dept. VVIT, Guntur, 04-12-2020
	5. Resource person for the AICTE sponsored two-week online FDP (phase-I) talk on “A case study on solar plant installation operation and economic aspects”, EEE Dept. VVIT, Guntur, 15-11-2020
	6. Resource person for the A Five Days e-Workshop on “Application of MATLAB in Electrical Engineering”, EEE Dept. TIRUMALA ENGINEERING COLLEGE, Narasaraopet, 03-07-2020 to 06- 07- 2020
	7. Resource person for the Webinar on "Implementation of Teaching Learning Based Optimization (TLBO) in MATLAB", EEE Dept. SVCET, Chittoor, 15-06-2020
	8. Resource person for the Webinar on "A case study on solar plant installation operation and economic aspects", EEE Dept. SV College of Engineering, Kadapa, 12-06-2020
	9. Resource person for the Webinar on "Machine learning for Engineering Applications", EEE & ECE Dept. SV College of Engineering, Kadapa, 14-05-2020
	10. Resource person for the AICTE-STTP on "Introduction to Research Methodologies and MATLAB Programming for Optimization Techniques ", EEE Dept. CBIT, 26-11-2019 & 28 -11 -2019.
	11. Resource person for the three-day workshop on "Simulation of Power Electronic Converters-2018", EEE Dept. CBIT, 28-02-2018
	12. Resource person for the one day guest lecture on "Power Electronic", EEE Dept. Avanthi Institute of Engineering and Technology, 28-10-2017
	13. Act as session chair International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)-2018, organized by Priyadarshini Engineering College, Vaniyambadi, Vellore during 28th & 29 th January 2018
	14. Act as session chair in International conference on power control signals and Instrumentation Engineering (ICPCSI)-2017, organized by Saveetha Engineering College, Thandalam, Chennai, during 21st & 22nd September 2017
	15. Act as session chair in the 2017 International Conference on Computational intelligence: Theories, Applications and future directions (ICCI-2017) during 6th to 8th December, 2017 at Indian Institute of Technology, Kanpur
No. of Books/Chapter Published with details	1. Published book chapter- Design and Simulation of STATCOM based Reactive Power Compensation, Book title Dynamic Research Trends in Engineering and Management, Paramount Publishing House, ISBN : 978-93-90631-50-6
	2. Published One Chapter-- Multi-objective OPF Problem Analysis with Practical Constraints in the Presence of FACTS Devices Using NSHCSA, Book Titled "Computational Intelligence: Theories, Applications and Future Directions—Volume II" Springer Nature Singapore Pte Ltd, 2019, ISSN 2194-5357
	3. Generation and Utilization of electrical energy” Pearson publications, Delhi, ISBN: 9789332515673, June 2010
	4. Electric Energy: Generation, Utilization and Conservation -Pearson publications, ISBN: 978813167740, e-ISBN: 9788131798775, 2011, Delhi
	5. Power semiconductor drives”, PHI learning private limited, ISBN- 978-81-203-3658-2, 2009, New Delhi
	6. Power electronics”, PHI learning private limited, ISBN-978-81-203- 3840-1, 2010, New Delhi
	7. HVDC Transmission”, Ridged Publications, Hyderabad
Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized).	1. One Week online short-term training program on “Big data Applications in Electrical Engineering” at NITTTTR, Chandigarh, during 20-02-2023 to 24-02-2023
	2. One Week online short-term training program on “Power Quality Problems and solutions” at NITTTTR, Chandigarh, during 30-01- 2023 to 03-02-2023
	3. One Week online short-term training program on “Design, implementation and control of Electrical Systems using MATLAB” at Bapatla Engineering college, Bapatla, during 03-01-2023 to 07-01- 2023
	4. One Week online short-term training program on “LabVIEW Programming” at NITTTTR, Chandigarh, during 08-08-2022 to 12-08- 2022
	5. One Week online short-term training program on “MATLAB and SIMULINK basics for hardware Projects” at NITTTTR, Chandigarh, during 01-08-2022 to 05-08-2022

6. One Week online short-term training program on "Smart Materials Processing and Applications" at NITTTR, Chandigarh, during 25-07-2022 to 29-07-2022
7. One Week online short-term training program on "Simulation of Smart Electric Vehicles (in collaboration with Typhoon HIL)" at NITTTR, Chandigarh, during 18-07-2022 to 22-07-2022
8. A one week AICTE Recognized Faculty Development Programme on "Data Analytics using Python", organized by NITTTR, Chandigarh, during 18-04-2022 to 22-04-2022
9. A one week AICTE Recognized Faculty Development Programme on "Smart Grid Technologies", organized by NITTTR, Chandigarh, during 04-04-2022 to 08-04-2022
10. A one week Online National Workshop on "nature Inspired Optimization Techniques and Microgrid applications" organized by the Silicon Institute of Technology, Sambalpur during 21-03-2022 to 26-03-2022
11. A Five Day National Level Workshop on "Simulation and Analysis of Power System Case Studies using MiPower", organized by Presidency University, Bengaluru, during 14-02-2022 to 18-02-2022
12. A five day Online AICTE Recognized Faculty Development Programme on "IoT's and Sensor Networks", at NITTTR, Chandigarh, during 20-09-2021 to 24-09-2021
13. Successfully completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Design and Optimization of EV Charging Technology in Smart Grid Platform" during 13-09-2021 to 17-09-2021 at Puducherry Technological University
14. A six-day Short term training program (STTP) on "Smart grid and big data analysis", Sponsored by AICTE, organized by IPS academy, Indore, during 09-08-2021 to 14-08-2021
15. Successfully Completed "Innovation Ambassador training (Advanced Level)" conducted by MoE's Innovation Cell & AICTE during the period during 30-06-2021- 30-07-2021 in online mode
16. A five day online Faculty Development Program on "Power Quality Analysis of Various Power Electronics" at NITTTR, Chandigarh, during 14-12-2020 to 18-12-2020
17. A five day online Faculty Development Program on "Smart grid features and Blockchain Technologies for smart grid" at IEEE Student branch, NIT-Trichy, during 16-11-2020 to 20-11-2020
18. Two Week online National Faculty Development Program on "Applications of Power Electronics in Renewable Energy Systems" GVVIT, Namburu, during 02-11-2020 to 14-11-2020
19. One Week online National Faculty Development Program on "Artificial Intelligence using Python" G. Narayanamma Institute of Technology and Science (for Women), Hyderabad, during 14-09-2020 to 19-09-2020
20. One Week online National Faculty Development Program on "Computational Intelligence Techniques for Machine Learning" Jaypee University of Information Technology, Wanknaghat, during 31-08-2020 to 05-09-2020
21. A four day online Faculty Development Program on "Challenges and Opportunities of Energy and Sensor Applications" at JNTUACEA, Ananthapur, during 23-09-2020 to 26-09-2020
22. A Webinar on "Island Innovation in India" at Island Innovation & Renewable Energy Society of India (RESI), on 05-09-2020
23. One Week online National Faculty Development Program on "Blockchain Technology in Electrical power Systems Applications" at SNIST, Hyderabad, during 31-08-2020 to 04-09-2020
24. A three day online Faculty Development Program on "Driving Technologies for Smart grid" at Tirumal Engineering College, Narasaraopet, during 25-08-2020 to 27-08-2020
25. A five day online Faculty Development Program on "Future Energy Trends & its Impact" at SJB Institute of Technology, Bengaluru, during 24-08-2020 to 28-08-2020
26. A Webinar on "Use of LMS, virtual teaching and OBE software for Engineering College" at Vmedulife software services, Pune, on 20-08-2020
27. A Webinar on "Exploration of main group compounds for promoting metal-free transformation in industries" at St. Joseph's College of

Engineering, Chennai on 19-08-2020

28. One Week online National Faculty Development Program on "Unlockdown 3.0: A period of Reorienting the Teaching & Learning" at GITAM School of Science, Bengalure, during 17-08-2020 to 23-08-2020
29. A Webinar on "Transforming Youth into Responsible Citizens and Engage them in developing the Nation" at Lead India Foundation, Hyderabad, on 15-08-2020
30. One Week online National Faculty Development Program on "Current Research Trends in Power Systems and Power Electronics" at Vignan's Nirula Institute of Technology and Science for women, Guntur, during 20-07-2020 to 25-07-2020
31. A five day online Faculty Development Program on "Applications of Artificial Intelligence for modern power system" at St. Joseph's College of Engineering, Chennai, during 20-07-2020 to 24-07-2020
32. A Webinar on "Online Teaching" at VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, during 13-07-2020 to 14-07-2020
33. A Webinar on "Research Opportunities in Electrical Drives" at Sharnbasva University on 10-07-2020
34. A Webinar on "Employability post COVID Era: Expectation of Industry Vs Education System's Preparedness" at Assocham India on 10-07-2020
35. A Webinar on "Applied Artificial Intelligence" at PSG Institute of Technology and Applied Research on 08-07-2020
36. A five day online Faculty Development Program on "AI Techniques to Electrical Engineering" at JNTU, Hyderabad, during 06-07-2020 to 10-07-2020
37. One Week online National Faculty Development Program on "BharateeyaChaitanyam" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 29-06-2020 to 05-07-2020
38. One Week online National Faculty Development Program on "Arduino" at S.V Engineering College, Tirupati, during 29-06-2020 to 03-07-2020
39. One Week online National Faculty Development Program on "Applications of Optimization Techniques to Electrical Engineering" at Department of Electrical and Electronics Engineering, Gayatri Vidya Parishad College of Engineering for Women, Visakhapatnam during 22-06-2020 to 26-06-2020
40. One Week International Faculty Development Program on "Recent Strategies on Micro- and Smart-Grid Technologies" at Department of Electrical & Electronics Engineering, GMR Institute of Technology, Rajam, during 15-06-2020 to 19-06-2020
41. A Webinar on "Tools for Documentation: Conference, Journal and Thesis Writing" at Vaagdevi College of Engineering, Hyderabad, on 13-06-2020
42. A Webinar on "CO-PO attainment computation and outcomes analysis" at inpods-Ed tech on 13-06-2020
43. A oneweek online Faculty Development Program on "Design of Solar PV System Using PVsyst Software" at Vaagdevi College of Engineering, Hyderabad during 09-06-2020 to 13-06-2020
44. A five day online Faculty development program on "Recent Trends in Electrical Engineering" at Vishnu Institute of Technology, Bhimavaram, during 08-06-2020 to 12-06-2020
45. A five day Faculty Development Program on "Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E-vehicles" at Bapatla Engineering College, Bapatla, during 01-06-2020 to 05-06-2020
46. A one day workshop on "Role of Energy Storage & Plug-in Electric Vehicles in Smart Grid : Challenges & Opportunities" at Audisankara Group of Institutions, Gudur, during 30-05-2020
47. A Webinar on "Recent Trends In Electrical Engineering" at MLR Institute of Technology, Hyderabad, on 30-05-2020
48. A one week Faculty Development Program on, "Outcome Based Education and NBA Accreditation Process-(UG)" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 28-05-2020 to 01-06-2020
49. A one week online Faculty Development Program On "Power Electronics Applications In Smart Grid And Electric Vehicles" at

Santhiram Engineering College, Nandyal during 26-05-2020 to 31-05-2020

50. One Week Online Faculty Development Program on "Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation" at Terna Engineering College, NAVI MUMBAI, during 25-05-2020 to 29-05-2020
51. Five day National Level Online Faculty Development Program on "Artificial Intelligence" at SIR C.R Reddy College of Engineering, in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd. during 22-05-2020 to 26-05-2020
52. A webinar trio, on "Artificial Intelligence Methods For Energy Auditing, Technologies And Management (Aim for E-Atm)" at Chaitanya Bharathi Institute of Technology, Hyderabad, during 21-05-2020 to 23-05-2020
53. Two day online Faculty Development Program on "Research opportunities in Electrical Engineering" at KallamHaranadhareddy Institute of Technology, Gunture, during 20-05-2020 to 21-05-2020
54. A online seminar on "Quality Assurance in Online Teaching – Learning & Evaluation" at Vellore Institute of Technology, Vellore, India, on 19-05-2020
55. A two day online workshop on "Power Train and Electromagnetic Transients" at PWSIM solutions for Electrification, during 18-05-2020 to 19-05-2020
56. A online Short Term Training Program on "MATLAB based Teaching-Learning in Mathematics, Science & Engineering, at RamraoAdik Institute of Technology, Nerul, Navi Mumbai in collaboration with DesignTech Systems Pvt. Ltd., during 18-05-2020 to 22-05-2020
57. One week online Faculty Development Program on "Outcome Based Education: A step towards Excellence" at Government College of Engineering, Karad, during 11-05-2020 to 15-05-2020
58. A one day online workshop on "Electromagnetic and Thermal simulation of PMSM (IPM) Motor" at Altair Webinar (ANZ ASEAN India), on 07-05-2020
59. A two day online course on "Understanding Citations and Tips to improve h-index" at Learning with Chandan in association with Voice of Environment, during 06-05-2020 to 07-05-2020
60. A online Training on "Internet of Things" at MSME-Technology Development Centre (PPDC), Government of India, during 27-04-2020 to 01-05-2020
61. A Webinar on "Employability Skills In Curriculum Design" at Audisankara College Of Engineering & Technology, on 26-04-2020
62. A Webinar on "Online Teaching Learning and online Assessment Demo" at inpods-Ed tech on 24-04-2020
63. A Webinar on "NAAC accreditation Management System demo" at inpods-Ed tech on 17-04-2020
64. A Webinar on "Identifying weaker students and remedial action" at inpods-Ed tech on 04-04-2020
65. A five day quality improvement programme on "Applied optimal control and state Estimation" at Centre for Continuing Education, IISc, Bengaluru during 02-07-2018 to 06-07-2018
66. A one day workshop on "Smart Research publications in Referred Journals" at SV College of Engineering, Tirupati, on 17-06-2017

NPTEL-AICTE FDP

67. A eight Week Faculty Development Program on " Digital protection of Power system", at NPTEL-AICTE during Jan-Mar 2022
68. A eight Week Faculty Development Program on " Big data computing", at NPTEL-AICTE during Aug-Oct 2021
69. A eight Week Faculty Development Program on " Big data computing", at NPTEL-AICTE during Aug-Sep 2021
70. A four Week Faculty Development Program on " Innovation by Design", at NPTEL-AICTE during July-Sep 2021
71. A eight Week Faculty Development Program on " Entrepreneurship and IP strategy", at NPTEL-AICTE during July-Sep 2021
72. A eight Week Faculty Development Program on " DC Microgrid and Control System", at NPTEL-AICTE during Sep-Nov 2020
73. A four Week Faculty Development Program on " Python for data science", at NPTEL-AICTE during Sep-Oct 2020
74. A eight Week Faculty Development Program on "Advances in UHV Transmission and Distribution ", at NPTEL-AICTE during Jan-Mar 2019

75. A eight Week Faculty Development Program on " Advance power electronics and Control ", at NPTEL-AICTE during Jan-Mar 2019
76. A eight Week Faculty Development Program on " Enhancing Soft Skills and Personality ", at NPTEL-AICTE during Feb-Apr 2019
77. A twelve Week Faculty Development Program on "Joy of computing using Python ", at NPTEL-AICTE during Jan-Apr 2019
78. A eight Week Faculty Development Program on "Introduction to smart grid", at NPTEL-AICTE during Aug-Sep 2018
79. A eight Week Faculty Development Program on "Electrical distribution system analysis", at NPTEL-AICTE during Aug-Sep 2018
80. A eight Week Faculty Development Program on " Advanced linear continuous control systems: Applications with MATLAB programming and Simulink ", at NPTEL-AICTE during Aug-Oct 2018

Coursera& NPTEL

81. Successfully Completed " LabVIEW Programming & Its Applications" an online non-credit course authorized Deogiri Institute of Engineering and Management Studies, Aurangabad, during 24-08-2020 to 29-08-2020
82. Successfully Completed " Deep learning- Primitive Neurons" an online non-credit course authorized GUVI Geek Network Pvt Ltd, Chennai on 24-08-2020
83. Successfully Completed " Deep learning- Getting started" an online non-credit course authorized GUVI Geek Network Pvt Ltd, Chennai on 20-07-2020
84. Successfully Completed " Learn to Design your own Solar Home System" an online non-credit course authorized Energy Literacy Drive of the Energy Swaraj Foundation, on 01-07-2020
85. Successfully Completed "Create Interactive Dashboards with Streamlit and Python" an online non-credit course authorized by Rhyme and offered through Coursera on 16-05-2020
86. Successfully Completed "Build a Full Website using WordPress" an online non-credit course authorized by Rhyme and offered through Coursera on 16-05-2020
87. Successfully Completed "Retrieve Data using Single-Table SQL Queries" an online non-credit course authorized by Rhyme and offered through Coursera on 16-05-2020
88. Successfully Completed " Neural Network Visualizer Web App with Python" an online non-credit course authorized by Rhyme and offered through Coursera on 16-05-2020
89. Successfully Completed "Cybersecurity and the Internet of Things" an online non-credit course authorized by University System of Georgia and offered through Coursera on 15-05-2020
90. Successfully Completed "Python Classes and Inheritance" an online non-credit course authorized by University of Michigan and offered through Coursera on 12-05-2020
91. Successfully Completed "An Introduction to Interactive Programming inPython (Part 1)" an online non-credit course authorized by Rice University and offered through Coursera on 12-05-2020
92. Successfully Completed "Python Basics" an online non-credit course authorized by University of Michigan and offered through Coursera on 06-05-2020
93. Successfully Completed "Electric Power Systems" an online non-credit course authorized by University at Buffalo and The State University of New York and offered through Coursera on 01-05-2020
94. Successfully Completed "SQL for Data Science" an online non-credit course authorized by University of California, Davis and offered through Coursera on 30-04-2020
95. Successfully Completed "Data Collection and Processing with Python" an online non-credit course authorized by University of Michigan and offered through Coursera on 30-04-2020
96. Successfully Completed "An Introduction to Interactive Programming in Python (Part 2)" an online non-credit course authorized by Rice University and offered through Coursera on 28-04-2020
97. Successfully Completed "Create Your First Python Program" an online non-credit course authorized by Rhyme and offered through Coursera on 24-04-2020

98. Successfully Completed "AI For Everyone" an online non-credit course authorized by deeplearning.ai and offered through Coursera on 24-04-2020
99. Successfully Completed "Capstone: Retrieving, Processing, and Visualizing Data with Python" an online non-credit course authorized by University of Michigan and offered through Coursera on 21-04-2020
100. Successfully Completed "Using Python to Access Web Data" an online non-credit course authorized by University of Michigan and offered through Coursera on 17-04-2020
101. Successfully Completed "Python Data Structures" an online non-credit course authorized by University of Michigan and offered through Coursera on 17-04-2020
102. Successfully Completed "Programming for Everybody (Getting Started with Python)" an online non-credit course authorized by University of Michigan and offered through Coursera on 15-04-2020
103. Successfully Completed "Introduction to Programming with MATLAB" an online non-credit course authorized by Vanderbilt University and offered through Coursera on 09-04-2020
104. Successfully Completed "Photovoltaic solar energy" an online non-credit course authorized by École Polytechnique and offered through Coursera on 31-03-2020
105. Successfully Completed "Blockchain 360: A State of the Art for Professionals" an online non-credit course authorized by EIT Digital and offered through Coursera on 28-03-2020
106. Successfully Completed "DC Microgrid and Control System" an online 2-credit course authorized by IIT Roorkee and offered through NPTEL during Sep-Nov 2020
107. Successfully Completed "Power Electronics" an online 3-credit course authorized by IIT Madras and offered through NPTEL during Sep-Dec 2020
108. Successfully Completed "Python for data science" an online 1-credit course authorized by IIT Madras and offered through NPTEL during Sep-Oct 2020
109. Successfully Completed "Introduction to Blockchain Technology and Applications " an online 2-credit course authorized by IIT Kanpur and offered through NPTEL during Feb-April 2020
110. Successfully Completed " Deep Learning - Part 1" an online 3-credit course authorized by IIT Madras and offered through NPTEL during Jan-April 2020
111. Successfully Completed "NBA Accreditation and Teaching-Learning in Engineering (NATE)" an online 3-credit course authorized by IISc Bangalore and offered through NPTEL during Jan-April 2020
112. Successfully Completed "DC Power Transmission Systems " an online 3-credit course authorized by IIT Madras and offered through NPTEL during Jan-April 2020
113. Successfully Completed "Computer Aided Applied Single Objective Optimization " an online 2-credit course authorized by IIT Guwahati and offered through NPTEL during Jan-April 2020
114. Successfully Completed "Design and Simulation of Power conversion using open source tools " an online 1-credit course authorized by IISc Bangalore and offered through NPTEL during Jan-Feb 2020
115. Successfully Completed "Enhancing Soft Skills and Personality " an online 2-credit course authorized by IIT Madras and offered through NPTEL during Feb-Apr 2019
116. Successfully Completed "Joy of computing using Python " an online 3-credit course authorized by IIT Madras and offered through NPTEL during Jan-Apr 2019
117. Successfully Completed "Power System Engineering" an online 3-credit course authorized by IIT Kharagpur and offered through NPTEL during Jan-Apr 2019
118. Successfully Completed "Advance power electronics and Control" an online 2-credit course authorized by IIT Roorkee and offered through NPTEL during Jan-Mar 2019
119. Successfully Completed "Advances in UHV Transmission and Distribution " an online 2-credit course authorized by IISc Bangalore and offered through NPTEL during Jan-Mar 2019
120. Successfully Completed "Advanced linear continuous control systems: Applications with MATLAB programming and Simulink " an online 2-credit course authorized IIT Roorkee and offered through NPTEL during Aug-Oct 2018
121. Successfully Completed "Electrical distribution system analysis " an online 2-credit course authorized IIT Roorkee and offered through NPTEL during Aug-Sep 2018

122. Successfully Completed "Introduction to smart grid " an online 2-credit course authorized IIT Roorkee and offered through NPTEL during Aug-Sep 2018
123. Successfully Completed "Fundamentals of Electrical Engineering " an online 3-credit course authorized IIT Kharagpur and offered through NPTEL during Jul-Oct 2018
124. Successfully Completed "Education Leadership" an online 2-credit course authorized IIT Kharagpur and offered through NPTEL during Feb-Mar 2018
125. Successfully Completed "MATLAB Programming for Numerical computation " an online 2-credit course authorized IIT Madras and offered through NPTEL during Feb-Mar 2018
126. Successfully Completed "Effective Engineering Teaching in Practice " an online 1-credit course authorized IIT Madras and offered through NPTEL during Feb-Mar 2018
127. Successfully Completed "Introduction to Internet of Things " an online 3-credit course authorized IIT Kharagpur and offered through NPTEL during Jan-Apr 2018
128. Successfully Completed "Electrical Machines-I" an online 3-credit course authorized IIT Kharagpur and offered through NPTEL during Jul-Oct 2017
129. Successfully Completed "Design of Photovoltaic systems " an online 3-credit course authorized IISc Bangalore and offered through NPTEL during Jul-Oct 2017
130. Organized one week short term course on " Big data applications in Electrical Engineering", during 20-02-2023 to 24-02-2023
131. Organized a webinar on "EV Drive-train Sizing", during 16-04-2022.
132. Organized Lecture on "IPR-Innovating for better future", during 26-04-2022
133. Organized A Webinar on "Building product portfolios through innovation" New Product Creation & Commercialization, during 30-01-2021
134. Organized webinar on "Building product portfolios through innovation" product lifecycles & portfolio management, during 06-02-2021
135. Organized a Webinar on "Smart Grid for a Green Future", during 23-10-2021
136. Organized a AICTE-STTP on " Introduction to Research Methodologies and MATLAB Programming for Optimization Techniques", during 25-11-2019 to 30-11-2020

Details of Journal Publications/
Conferences (National and
International)

International Journals

1. Mallala Balasubbareddy, Divyanshi Dwivedi, Garikamukkala Venkata Krishna Murthy, Kotte Sowjan Kumar (2023), "Optimal power flow solution with current injection model of generalized interline power flow controller using ameliorated ant lion optimization", International Journal of Electrical and Computer Engineering, Vol. 13, Issue 1, February 2023, pp. 1060~1077
2. Balasubbareddy Mallala, Venkata Prasad Papana, Ravindra Sangu, KowstubhaPalle and Venkata Krishna Reddy Chinthalacheruvu (2022), "Multi-Objective Optimal Power Flow Solution Using a Non-Dominated Sorting Hybrid Fruit Fly-Based Artificial Bee Colony", Energies, 2022, Volume 15, Issue 11 pp. 1-16
3. Balasubbareddy Mallala, Divyanshi Dwivedi (2022), "Salp swarm algorithm for solving optimal power flow problem with thyristor-controlled series capacitor", Journal of Electronic Science and Technology, 2022, Volume 20, Issue 2, pp. 1-9
4. M Balasubbareddy (2022), "Optimal Power Flow Solution Using Ameliorated Ant Lion Optimization Algorithm", International Journal of Mechanical Engineering, Vol.7, Issue.01, January 2022, pp. 2407-2414
5. M. Balasubbareddy, G V K Murthy, K. Sowjan Kumar (2021), "Performance evaluation of different structures of power system stabilizers", International Journal of Electrical and Computer Engineering, Volume 11, Issue 1, pp. 114-123
6. Saini Varshini and M Balasubbareddy (2021), "Power Quality Improvement using Fuzzy Logic Controller Based UPQC", PROTEUS JOURNAL, Vol.12, Issue 6 pp.1-9
7. M. Balasubbareddy (2021), "Single Objective Power Flow Problem Analysis Using HCSA with IPFC", Aegaeum Journal, Volume 9, Issue 1, pp.30-37
8. M. Balasubbareddy (2021), "Deep Learning Based Optimal Dc Microgrid System with IRNSS synchronization", Aegaeum Journal, Volume 9, Issue 1, pp.38-42
9. M. Balasubbareddy (2021), "Multi-objective optimal power flow using NSGSA with IPFC", Aegaeum Journal, Volume 9, Issue 1, pp.43-51
10. M Balasubbareddy, P Venkata Prasad, Saini Varshini (2021), "A Novel Power Quality Conditioner with UPQC", GIS Science journal, Vol.8, Issue 3, pp. 1171-1179
11. Dhiraj Kumar Singh, Subodh Srivastava, R.K.Khanna, M. Balasubbareddy (2020), " Optimal placement of IPFC for solving optimal power flow problems using Hybrid Sine-Cosine Algorithm", Ilkogretim Online

- Elementary Education Online, Vol.19, Issue 4, pp. 3064-3080

12. M Harika, M Balasubbareddy (2020), "A Novel Squirrel Search Optimization Algorithm for Solving Optimal Power Flow Problem with TCSC Device", Journal of Interdisciplinary Cycle Research, Vol.12, Issue 7, pp. 1304-1310
 13. M. Balasubbareddy (2020) "Performance and cost analysis for 400kWp Grid Connected PV system in Tirupati using PVsyst software", International Journal of Advanced Science and Technology, Volume 29, Issue 12s pp. 2402-2401
 14. M. Balasubbareddy, Divyanshi Dwivedi (2020) "Squirrel Search Algorithm for Solving Optimal Reactive Power Dispatch Problem with FACTS Device", International Journal of Innovative Technology and Exploring Engineering, Volume 9, Issue 3 pp. 854-858
 15. M Balasubbareddy (2020) "Security Constrained Optimal Power Flow Problem Solution with Practical Constraints using HALOA", International Journal of Innovative Technology and Exploring Engineering, Volume 9, Issue 3 pp.689-695
 16. P V Prasad, M Balasubbareddy (2019) "Distribution Network Reconfiguration using Ga & BPSO", i-manager's Journal on Power Systems Engineering, Volume 6, Issue 4 pp. 37-44
 17. M Balasubbareddy, Divyanshi Dwivedi (2019) "Hybrid Emperor Penguin Optimization algorithm for solving Optimal Power Flow Problems", Pramana Research Journal, Volume 9, Issue 4 pp. 279-289
 18. M Balasubbareddy, Divyanshi Dwivedi (2019) "Optimal Power Flow Solution for multi-fuel system using Tree Growth Algorithm", Pramana Research Journal, Volume 9, Issue 4, pp. 186-196
 19. M Balasubbareddy, Divyanshi Dwivedi (2019) "Emperor Penguin Optimization Algorithm for solving Multi-Fuel Non-Convex Economic Load Dispatch Problems", Pramana Research Journal, Volume 9, Issue 4, pp.330-340
 20. M Balasubbareddy, Divyanshi Dwivedi and D Sathish (2019) "Optimal Power Flow solution using Spotted Hyena Optimization Algorithm", Pramana Research Journal, Volume 9, Issue 3 pp. 147-158
 21. Divyanshi Dwivedi, M Balasubbareddy (2019) "Optimal Power Flow using Hybrid Ant Lion Optimization Algorithm", Pramana Research Journal, Volume 9, Issue 2 pp.368-380
 22. K. Sri KavayaDurga, M. Balasubbareddy (2018) "Design and Simulation of Three Level Neutral Point Clamped Inverter Fed Induction Motor Drive", EJECE, European Journal of Electrical and Computer Engineering, Volume 2, Issue 5 pp.22-30
 23. M Balasubbareddy, Prasad P V and Bhanu Chandar A (2017) "Simplified Technique for Newton-Raphson power flow solution in polar form using hybrid bus", The Journal of CPRI, Volume 13, Issue 3 pp. 395-404
 24. M Balasubbareddy, S Sivanaga Raju, Ch Venkata Suresh, AV Naresh Babu, D Srilatha (2017) "A Non-Dominated Sorting Hybrid Cuckoo Search Algorithm for Multi-Objective Optimization in the Presence of FACTS Devices", Russian Electrical Engineering, Volume 88, Issue 1 pp. 44-53
 25. M Balasubbareddy (2017) "Multi-Objective Optimization incorporating TCSC with ramp-rate limits and prohibited operating zones using NSHCSA", The Journal of CPRI, Volume 13, Issue 2 pp. 203-216
- International /National Conferences
1. M Balasubbareddy, Kondapalli Venkata Sri Ram, P Venkata Prasad, KowsthubhaPalle (2023) "Design and implementation of a three-phase power quality analyzer for live data tracking using a Field Programmable Gate Array", 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023) on 9th-10th February 2023, Coimbatore, India
 2. M Balasubbareddy, P Venkata Prasad, KowsthubhaPalle (2023) "Analysis of Power Quality Issues and Mitigation Techniques using HACO algorithm", 6th International conference on Intelligent Sustainable Systems (ICISS 2023) on 3rd -4th February 2023, Tirunelveli, India
 3. M Balasubbareddy, P Venkata Prasad, KowsthubhaPalle, (2022) "Power Quality Conditioner with Fuzzy Logic Controller", International Conference on "Information and Communication Technology for Competitive Strategies" (ICTCS -2022) on 9th -10th December 2022 at Global Knowledge Research Foundation, Chandigarh, India
 4. M. Balasubbareddy, P. Venkata Prasad, Ch. Venkata Krishnan Reddy (2022), "Simulation of Power Quality Conditioner with Fuzzy Logic Controller", International Conference on "Advances in Communications, Computer Vision and Electrical System Technologies (ICACCEST-2022) on 4th -5th March 2022 at VVIT, Guntur
 5. M. Balasubbareddy, K. Venkata Sri Ram, S. Ravindra (2022), "Modelling and design of FPGA based power Quality Analyzer", International Conference on "Advances in Communications, Computer Vision and Electrical System Technologies (ICACCEST-2022) on 4th -5th March 2022 at VVIT, Guntur
 6. M. Balasubbareddy, S. Ravindra (2022), "Design of Hardware Unified Power Quality Conditioner to Mitigate Sag and Swell", International Conference on "Advances in Communications, Computer Vision and Electrical System Technologies (ICACCEST-2022) on 4th -5th March 2022 at VVIT, Guntur
 7. P. Venkata Prasad, M. Balasubbareddy (2022), "Combined Optimization in Radial Distribution System using CPSO", International Conference Advances in Communications, Computing & Electronic Systems (ACCES-2022), on 6th -7th May 2022 at AVANTHI Institute of Engineering and Technology, Vizianagaram, India
 8. M. Balasubbareddy, P. Venkata Prasad (2021), "Optimization of Multi-fuel Non-convex Economic-Emission Dispatch in the Presence of GUPFC", International Conference in Emerging Trends in Electrical, Electronics and Computer Technology-ICETEEC'21, on 30 June 2021, at KarpagaVinayaga College of Engineering and Technology, padalam, Tamil Nadu
 9. P. Venkata Prasad, M. Balasubbareddy (2021), "Service Restoration in Radial Distribution Systems using Network Reconfiguration", International Conference in Emerging Trends in Electrical, Electronics and Computer Technology-ICETEEC'21, on 30 June 2021, at KarpagaVinayaga College of Engineering and Technology, padalam, Tamil Nadu
 10. M Balasubbareddy, P Venkata Prasad, S Varshini, A D Sarma (2021) " AI based Cyber-attack Resistant Microgrid System with IRNSS Synchronization", International Conference on "Emerging Trends in Circuit branch Technologies and Applications" (ETCTA-2021) on 3rd -4th April 2021 at CBIT-Hyderabad

11. M Balasubbareddy, S Varshini, (2021) " Power quality conditioning by UPQC using dq theory", International Conference on "Emerging Trends in Circuit branch Technologies and Applications" (ETCTA-2021) on 3rd -4th April 2021 at CBIT-Hyderabad
12. M Balasubbareddy, Divyanshi Dwivedi (2020) "Hybrid flying squirrel search algorithm for solving the single objectives optimal power flow problem in power system", 8th International Conference on Contemporary Engineering and Technology, pp.1-11
13. M Balasubbareddy, Divyanshi Dwivedi (2019) "Incorporation of Current Injection Modelling of UPFC and Analyzing Power Flow Solution using Criss Cross Optimization Algorithm", 2019 Third International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019), pp. 1-6
14. M Balasubbareddy, P Venkata Prasad (2018) "Multi-objective optimal power flow with Generalized Interline power flow controller using NSHCSA", International conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC), pp. 221-229
15. M Balasubbareddy (2017) "A solution to the Multi-objective Optimization problem with FACTS devices using NSHCSA Including practical constraints", IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI-2017), pp. 2615-2624

