

# Mr. Gajangi Arun Kumar

## Assistant Professor



**Education Qualifications:** M.Tech(Electrical and Electronics Engineering)  
**Specialization:** Power Electronics and Electric Drives

### ADDRESS:

- E – Block -508

### JNTUH ID:

67150406-115210

### EMAIL:

garunkumar\_eee@mgit.ac.in

### DATE OF JOINING:

01-12-2016

### EXPERIENCE - 12Years

- Teaching - 12
- Research - 0
- Industry - 0
- Others - 0

### SUMMARY:

- Publications - 14
- Conferences - 2

### EVENTS:

- Organized - 03
- Attended - 18

### Membership of Professional Bodies:

1. Life Member of The Indian Society for Technical Education (ISTE) (LM-12943)
2. Life Member of The Institution of Engineers(India) (M-1685397)
3. Life Member of International Association of Engineers (M-282048)

### Responsibilities Held at Department Level:

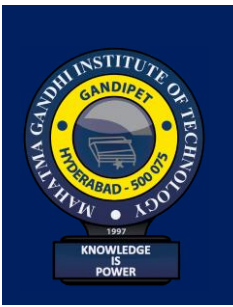
1. In-Charge, Department Time-Table
2. Class In-Charge, 2019 Batch
3. Lab In-Charge, Measurements and Instrumentation Lab

### Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Measurements and Instrumentation, Power System Protection, Utilization of Electrical Energy, Renewable Energy Sources, Network Theory, Power System Operation and Control, Power Systems-I, Basic Electrical Engineering.
- **PG:** Energy From Waste

### Publications:

1. S.Bhulakshmi, Dr.P.Ram Kishore Kumar Reddy, G.Arun Kumar, "Implementation of Modular Multi Level Converter And Cascaded H- Bridge Using SPWM", Turkish Online Journal Of Qualitative Inquiry (TOJQI), Volume 12, Issue 9, August 2021: 1935-1947, ISSN: 1309-6591.
2. Mr.Gajangi Arun Kumar, Dr.P.Lakshmi Supriya, Mr.Ch.Vinay Kumar, "Power Factor Improvement in PMBLDC Motor Drive using Bridge Less Ultra Luo Converter", International Journal of Advances in Engineering and Management (IJAEM), Volume 3, Issue 5 May 2021, pp: 164-167 , ISSN: 2395-5252.
3. Ch.Vinay Kumar, G.Arun Kumar, Dr.P.Lakshmi Supriya, "A Literature Review on Hybrid Electric Vehicles", International Journal of Advances in Engineering and Management (IJAEM) , Volume 3, Issue 5 May 2021, pp: 164-167, ISSN: 2395-5252.
4. G.Arun Kumar, Dr.P.Lakshmi Supriya, Ch.Vinay Kumar, Dr.P.Ram Kishore Kumar Reddy, An Improved Voltage Balancing Method For Grid Connected Pv System Based On Mmc, Turkish Journal Of Physiotherapy And Rehabilitation, Volume-32 & Issue-2 , May'2021 3014-3027, Scopus, Issn 2651-4451 | E-Issn 2651-446x.
5. Dr.P.Ram Kishore Kumar Reddy, Dr.P.Lakshmi Supriya, Ch.Vinay Kumar, G.Arun Kumar , The Modular Multilevel Converter For Advanced Grid Balancing Systems , Turkish Journal of Physiotherapy and Rehabilitation, Volume-32 & Issue-2 ,May'2021 2866-2873, Scopus, ISSN 2651-4451 | e-ISSN 2651-446X.
6. G.Arun Kumar, Dr.P.Lakshmi Supriya, Ch.Vinay Kumar, Dr.P.Ram Kishore Kumar Reddy, An Improved Voltage Balancing Method For Grid Connected Pv System Based On Mmc, Turkish Journal Of Physiotherapy And Rehabilitation, Volume-32 & Issue-2 , May'2021 3014-3027, Scopus, Issn 2651-4451 | E-Issn 2651-446x.
7. Dr.P.Lakshmi Supriya, Mr.G.Arun Kumar, Dr.P.Nagasekhar Reddy, Dr.P.Ram Kishore Kumar Reddy, Advanced Control Scheme For LCL Type Grid Connected Inverter Topology, International Journal Of Current Engineering And Scientific Research ( Ijcesr), Volume-8, Issue-6, May' 2021 86-94, Scopus,

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Doi:10.21276/Ijcesr, Issn (Print): 2393-8374, (Online): 2394-0697.

8. G. Arun Kumar, Ch. Vinay Kumar, Dr. P. Lakshmi Supriya, "IoT in Hybrid Grid Integrated Management System", International Journal of Scientific Research in Science, Engineering and Technology, Volume 9 - Issue 1 - Published : March 25, 2021 Page No : 242-248, Print ISSN: 2395-1990 | Online ISSN : 2394-4099.
9. Devireddy Sathish, Gajangi Arun Kumar, Chowdary Vinay Kumar, Instantaneous Symmetrical Component Theory (ISCT) Controller for Mitigation of Harmonics in Micro-Grid System, International Journal of Innovative Technology and Exploring Engineering, Volume-9, Issue-8, June 2020, Page No.524, ISSN: 2278-3075.
10. Gajangi Arun Kumar, Chowdary Vinay Kumar, K Saikumar, Implementation of Electric Vehicles and Its Recent Development, Tathapi, Vol.-19, Issue-34 June'2020, Page No.167, ISSN:2320-0693.
11. Chowdary Vinay Kumar, Gajangi Arun Kumar, Effective Cascaded H-Bridge Symmetrical and Asymmetrical Multilevel Inverter for an Industrial Drive, Aegaeum Journal, Volume 8, Issue 6, June-2020, Page No.1672, ISSN: 0776-3808
12. Mahesh Chanda, Gajangi Arun Kumar, Chowdary Vinay Kumar, Modeling and Simulation of Control Scheme for Electric Vehicle integrated with Fuel Cell and Supercapacitor, International Research Journal of Engineering and Technology, Volume: 07 Issue: 05 May 2020, Page No.7332, ISSN. 2395-0056
13. Chowdary Vinay Kumar, Gajangi Arun Kumar, Bapayya Naidu Kommula, K.Madhu, K Saikumar, Fault Detection in IEEE 33kV Distribution and Micro-Grid Networks using Hybrid Fuzzy-GA Approach, International Journal of Advanced Science and Technology, Vol. 29, No.4, May 2020, Page No.631, ISSN: 2005-4238 (Print)ISSN: 2207-6360 (Online).
14. G. Arun Kumar , Ch.Vinay Kumar, Power Quality Enhancement by using Multi Converter Unified Power Quality Conditioner, International Journal of Engineering Research & Technology, Volume-09-Issue-03-March-2020, Page No.658, ISSN No.2278-0181.

**Conferences:**

1. G.Arun Kumar, P.Lakshmi Supriya, Dr.P.Ram Kishore kumar Reddy, "Investigation of UPQC using Intensified Control Scheme for Power Quality Improvement", Two Day National Conference on "Recent Trends in Electrical Engineering", ISBN:978-93-88808-57-6, Department of Electrical & Electronics Engineering, MGIT, 28th and 29th February 2020.
2. G.Arun Kumar, P.Lakshmi Supriya, Dr.P Ram Kishore kumar Reddy, "Investigation of UPQC using Intensified Control Scheme for Power Quality Improvement" D.Sathish, G.Arun Kumar, Optimization Control Technique of Active Power Filter in 25KV Electric Traction System, Two Day National Conference on "Recent Trends in Electrical Engineering", ISBN:978-93-88808-57-6, Department of Electrical & Electronics Engineering, MGIT, 28th and 29th February 2020.

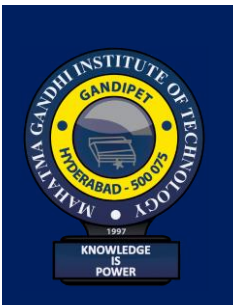
**Events Organized:****FDPs/STTPs:**

1. As a Co-Convener of the program organized a One Week Online Faculty Development Programme on "Real Time Aspects of Power System Scenario" from 6th July to 10th July'2020

**Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:**

1. Organized a two day workshop on "IoT Based Applications in Engineering" for II, III & IV students as a Co-Convener on 5<sup>th</sup> and 6<sup>th</sup>, March' 2020.
2. As a Convener of the program organized a One Day Online Webinar on "Modeling of Correlated Uncertainties in Optimal Operation of Islanded Micro Grids" on 13th July'2020.

**Events Attended:**



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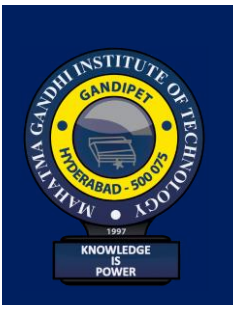
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**FDPs/STTPs:**

1. Attended Online Course Faculty Development Program on “Digital Image processing using MATLAB” 24-04-2020 to 27-04-2020, Skilltohire.
2. One Week FDP on “Art of Writing Papers and Research Methodologies”, 7-05-2020 to 13-05-2020, AICTE Margadharshan, Gokaraju Rangaraju Institute of Engineering and Technology.
3. One week online faculty development program on “power electronics applications in smart grid and electric vehicles”, 26-05-2020 to 31-05-2020, Department of Electrical and Electronics Engineering, IEEE STUDENT’S CHAPTER-STB 17901, Shantiram engineering College.
4. Attended a Two Day Online Faculty Development Program on “Effective Technical Report Writing Using LaTeX”, 08-06-2020 to 09-06-2020, Department of Electronics & Communication Engineering, MGIT, Hyderabad.
5. Attended a Five day Online Faculty Development Program on “Recent Trends in Electrical Engineering”, 08-06-2020 to 12-06-2020, Department of Electrical and Electronics Engineering, Vishnu Institute of Technology, Bhimavaram.

**Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:**

1. Attended a Webinar talk on "Teaching with Matlab in Modern Classroom", 16-04-2020, IEEE education Society, IEEE Hyderabad Section and Mathworks
2. Attended a webinar on “Enhance Research Visibility to Improve Ranking” by Tahseen Khanday”, 16-04-2020, ELSEVIER
3. Attended a webinar organized by ELSEVIER on “Integrating Scopus APIs into your everyday workflow”, Martin Edling Anderson, Principal Product Manager and Aileen Christensen, Scopus Marketing Manager, Elsevier.
4. Attended a webinar on “SSCS & PELS Joint Webinar - "Integrated Power Delivery and Management for High-Performance Digital Systems", 22-04-2020, IEEE Education Society
5. Actively participated in Webinar on “Magnetic Levitation and High Speed Trains” held on 01-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
6. Actively participated in Webinar on “Magnetic Levitation and High Speed Trains” held on 01-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
7. Actively participated in Webinar on “Superconductivity and its Applications” held on 04-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
8. Actively participated in Webinar on “Modeling of Correlated Uncertainties in Optimal Operation of Islanded Microgrids” held on 13-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
9. Actively participated in Webinar on “Best Practices in Design and Installation of Solar PV Systems” held on 15-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
10. Actively participated in Webinar on “Electrical Maintenance in Heavy Manufacturing Industries” held on 17-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
11. Actively participated in Webinar on “Hands-on working with E-Tap. Modules: Draw SLD, Load Flow and Fault Current Study” held on 26-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.
12. Actively participated in Webinar on “Recent trends in Power Management Strategies for Optimal Operation of Distributed Energy Resources in Microgrids” held on 28-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology,



Hyderabad.

13. Actively participated in Webinar on “Power System Scenario” held on 29-07-2020 Organized by Department of Electrical and Electronics Engineering, Mahatma Gandhi Institute of Technology, Hyderabad.

#### Online Certifications:

1. MATLAB Online Course on “MATLAB onramp”.
2. Coursera course on “Electric Power System”, University at Buffalo and The State University of New York.
3. Coursera course on “Electric Power System”, University at Buffalo and The State University of New York.
4. Coursera course on “Motor and Motor Control Circuits”, University of Colorado Boulder and offered.
5. Coursera course on “Wind energy”, Technical University of Denmark (DTU)Two.
6. Coursera course on “Introduction to Google Workspace Administration” by Google Cloud.

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