

## Dr. Manjunatha H.M.

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**RESEARCH GATE LINK:** <https://www.researchgate.net/profile/Manjunatha-H-M>



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## RESEARCH INTEREST

**Power System, Energy Marketing, Distribution Management**

**TEACHING EXPERIENCE :** Having 11 Years of teaching experience.

- Presently working as Assistant Professor from May 2022 in Electrical & Electronics Engineering, BIET, Davangere to till date.
- Worked as Assistant Professor in Electrical & Electronics Engineering, RIT, Hassan from 1<sup>st</sup> Sep 2012 to 10<sup>th</sup> May 2022.
- Worked as Lecturer in Electrical & Electronics Engineering, RIT, Hassan from 05<sup>th</sup> Jan 2012 to 31<sup>st</sup> August 2012.
- Worked as Lecturer in Electrical & Electronics Engineering, SIET, Tumkur from Aug 2009 to Sep 2010.

## ACADEMIC QUALIFICATION

Examination	Discipline / Specialization	college	Board / University	Year of Passing	% Marks
Ph.D	Electrical and Electronics Engineering Sciences	MCE (VTU-RC),Hassan	V.T.U, Belgaum	29 <sup>th</sup> Dec-2021 (21 <sup>st</sup> VTU Convocation)	-
<b>Research Topic: “Algorithms for Smart Microgrid Management Using Multi-agent Approach”</b>					
M.Tech	Computer Applications in Industrial Drives	MCE, Hassan	V.T.U, Belgaum	2012	FCD
B.E	Electrical & Electronics	SIET Tumkur	V.T.U, Belgaum	2009	FC

## SKILLS

- Technical writing
- Matlab programming and SIMULINK
- Embedded C
- Pspice
- Microcontroller 8051 and Keil software
- Arduino programming
- E-CAD
- Homer Software
- Thing Speak IOT Platform
- Assembly language programming

## PUBLICATIONS

### JOURNALS:

1. **H.M. Manjunatha** and G.K. Purushothama “*A Direct Load Control Approach for Residential Demand Response*”, International Journal of Science, Technology, Engineering and Management-A VTU Publication, Volume 3, Issue 2, OCT- 2021, pp. 43-49.
2. **H.M. Manjunatha** and G.K. Purushothama “*Multi-Agent System based Two-Phase Market Model to Incorporate Demand Response in Grid-Tied Microgrids*”, International Journal of Renewable Energy Research, Volume 11, Issue 1, March 2021, pp. 195-210 (SCOPUS Cite Score is 4.3 and Quartile is Q2, Impact Factor is 5.127 in Thomson Reuters).
3. **H.M. Manjunatha** and G.K. Purushothama “*Multi-Agent based Responsive Residential DR for Managing and Trading Power in Smart DNs*” International Journal of Renewable Energy Research, Volume 11, Issue 1, March 2021, pp. 264-275 (SCOPUS Cite Score is 4.3 and Quartile is Q2, Impact Factor is 5.127 in Thomson Reuters).
4. Abhilash B.T. and **H.M. Manjunatha** “*Reliability Assessment of Induction Motor Drive Using Failure Mode Effects Analysis*” in ISOR journal of Electrical and Electronics Engineering, e-ISSN:2278-1676,p-ISSN:2320-3331,volume 6,Issue (Jul.-Aug.2013),PP 32-36
5. **H.M. Manjunatha** and G.K. Purushothama “*Energy management through smart home’ in E-proceedings in International Science Community Association*28-29 Nov-2015, (ISBN 978-93-84659-38-7).
6. **H.M.Manjunatha** and L.Kumarswamy “*Comparative analysis of PID and fuzzy PI controller for speed control of DC motor*” in IJMRAE e-ISSN:0975-7074, volume 6,No. II (April2014),PP 487-500.

### CONFERENCE:

1. **H.M. Manjunatha** and G.K. Purushothama “*A Linear Bidding Algorithm for Single Seller Single Buyer Energy Trading Model in Grid-tied Microgrid*”,5<sup>th</sup> IEEE international Conference ICEECCOT-2021 10<sup>th</sup>-11<sup>th</sup> Dec-2021 GSSSIET Mysuru.
2. **H.M.Manjunatha** and L.Kumarswamy “*Fuzzy Logic Based Speed Control Of DC Motor With Real Time Interface Using 8-Bit Microcontroller*” in ICETE-12 held at NMAMIT, NITTE.
3. **H.M.Manjunatha** “*Wireless power transmission and governing of electric drives using mobile technology*” in the national conference held at NMAMIT, NITTE, 2009.

## **CERTIFICATION COURSE**

1. Successfully completed 8 week NPTEL Online Certification course “**INTRODUCTION TO SMART GRID**” during JUL-SEP 2019.

## **SHORT TERM COURSES/WORSHOPS ATTENDED:**

1. Participated in One Week Faculty Development Program on “AI Applications to Power System” organized by Department of Electrical and Electronics Engineering, SIT, Tumakuru, held from 17<sup>th</sup>- 22<sup>nd</sup> January 2022.
2. Participated in One Week Faculty Development Program on “Recent Development in Green Technologies” organized by Department of Electrical and Electronics Engineering, ATME College of Engineering, Mysuru, held from 24<sup>th</sup>- 29<sup>th</sup> September 2021.
3. participated in the TEQIP-III sponsored Faculty Development Programme on “Power Electronic Applications to Renewable energy systems and Energy storage systems” organized by Department of Electrical and Electronics Engineering, NIE, Mysuru, held from July 06-10, 2020
4. Participated in three day FDP on “TEAM BUILDING AND MANAGING” conducted by ICT Academy on 23-25 JAN 2020 at Rajeev Institute of Technology.
5. Participated in TEQIP 1.3 sponsored Five day workshop on “OUTCOME BASED EDUCATION (OBE) AND ACCREDITATION” held at VVCE, Mysure during 16-20 December 2019.
6. Participated in AICTE sponsored one week short term Training program on “SMART GRID AND SMART CITY” (smaRT-2019), held at MCE, Hassan during 8-13 July 2019.
7. Participated five days workshop on “RESEARCH: METHODOLOGY, PROCESS AND TOOLS”, Canara engineering college, Mangalore.
8. Participated in 12 days FDP on “Emerging Trends in Power System Research” in Department of Electrical and Electronics Engineering, MEC, Hassan.
9. Participated in three days workshop on “Auto cad” in Department of Electrical and Electronics Engineering, RNSIT, Bengalure.
10. Undergone two days workshop on “Orcad and PCB design” in Department of Electrical and Electronics Engineering, National Institute of Engineering, Mysore.
11. Participated in one day workshop on “Recent trends in renewable energy resources” in Department of Electrical and Electronics Engineering, Shridevi Institute of Engineering and Technology, Tumkur

## **ADDITIONAL INFORMATION**

- BOS and BOE member for UG and PG in MCE Hassan (Autonomous institute under VTU) 2016-2021.
- Reviewer of technical papers in **AICECS 2021** organized by Manipal Institute of Technology Manipal, India, October 28-30, 2021.
- Invited talk on “Potential of Demand Response in India” at AICTE sponsored one week short term Training program on “SMART GRID AND SMART CITY(smaRT-

2019), held at MCE, Hassan during 8-13 July 2019.

- Invited talk on “Smart-Grid” at Rajeev polytechnic, 30<sup>th</sup> June 2018.
- Conducted Five days FDP on “Recent Developments in Power System” 23-27 NOV 2020 in Rajeev Institute of Technology.
- Question paper setter, evaluator and lab examiner for VTU and SSIT (Deemed to be university)
- Question paper setter, evaluator and lab examiner for MCE (Autonomous institute) Hassan

**PROJECT GUIDED:** For B.E.: 15 batches

**SUBJECT HANDLED**

- Basic Electrical
- Electric Circuit analysis
- Analog Electronic Circuit
- OPAMP and LIC
- Power Generation and Economics
- 8051 Microcontroller
- Electrical Machine Design
- Electrical CAED
- Fuzzy logic and neural network
- Energy Auditing and Demand Side Management
- Testing and commissioning
- Smart Grid
- Renewable Energy Resources

**RESIDENTIAL ADDRESS:**

**Dr. Manjunatha H.M.**

S/o Malleshappa H

Gangothri

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