

Name: **Dr.J. Bhavani**
Designation: Associate Professor
Department: EEE



Mail I'd: bhavani_j@vnrvjiet.in
Experience (in years): Teaching: **16.5 Y** Research: **9 Y** others: Nil

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	Ph.D	2015	Electrical Drives
2	M.Tech.	2005	Power Electronics
3	B.Tech.	2000	EEE

2. Teaching and Learning:

2.1. **Teaching Interests:** Any Subject in Electrical Engineering

2.2. **Novel Teaching & Learning Techniques adopted:** WIT & WIL

2.3 **Involvement in curriculum updating / Design:** involved in the curriculum design for UG & PG at KL University, vijayawada.

3. Co-curricular and Extra-Curricular Activities

3.1. **Interests and Hobbies:** Very much interested in the implementation of hardware projects.

3.2. CCA/ECA Organized:

- over all coordinator for the department of EEE at MREC(Autonomous)
- coordinator for conducting paper presentations and seminars at AKSHARA at MREC and SAMYAK , SURABHI at KLU.
- Acted as a Judge for various Technical activities at Malla Reddy Engineering College (Autonomous) & at KL University.
- Acted as a Judge for various Technical activities during FEM FLARE at KL University.
- Acted as a Judge for Paper Presentation during Convergence-17 at VNRVJIET.

3.3.CCA/ECA participated:

- Participated in various events during Annual celebrations at KLUniversity.
- Acted as a Co-Chair person for the International conference IACC -2017 at VNRVJIET.
- Acted as a Chair person for the National conference on Emerging Trends in Electrical Technology NCEE-2017 at Andhra Loyola Institute of Engineering & Technology on 24-03-2017.

3.4. Counseling and Mentoring Activity: counselor for students to motivate them for attending classes regularly and to improve the percentage of marks and also to involve in the hardware projects.

3.5. Committees involved in:

Department level:

- Acted as a overall committee coordinator for the department for UG as well as PG at MREC(Autonomous) for 4 years.
- **Board of Studies** Member at MREC.
- **NAAC** coordinator and got A Grade at MREC(Autonomous).
- Department Discipline Committee coordinator at KL University.
- Local Organizing committee member for International conference IACC-2017 At VNRVJIET
- **Institute Level:** Research Group Committee member at KLUniversity.

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Workshops / Seminars / Guest Lectures Conducted:

1. Local Organizing committee member for conducting International Conference ICAA-2017 during January 2017 at VNRVJIET.
2. coordinator for conducting one week National workshop on Emerging Trends in Power Electronics & Power Systems -2016(ETPEPS-16) during May 16th to 20th 2016.
3. Organizing coordinator for “**International Conference on Smart Electric Grid-2014(ICSEG-2014)**” conducted on 19th& 20th September 2014 in EEE Department at KL University, Vijayawada.
4. Conducted a two day National Workshop as a coordinator on “**Control System Applications to Power Electronic Drives &Systems**” on 31st March & 1st April 2012 at Malla Reddy Engineering College(Autonomous), Dhulapally, Hyderabad.
5. Conducted a Five day National Level Workshop as a coordinator on “**Advances in Power Electronics for Power Generation andPower System Operation and Control**” from 4th to 8th December 2009 as a coordinator at Malla Reddy Engineering College(Autonomous), Dhulapally, Hyderabad.
6. Conducted a two day National Level Workshop on “**Sensors & Transducers Applications**” on 29th& 30th August 2008 at Malla Reddy Engineering College(Autonomous), Dhulapally, Hyderabad.

4.2 Workshops / Seminars / Guest Lectures Attended:

- Attended one week National workshop on Emerging Trends in Power Electronics & Power Systems -2016(ETPEPS-16) during May 16th to 20th 2016.
- Attended Three day workshop on “**MATLAB**” during May 26th - 28th 2015 and at VNRVJIET.

- Attended One week course work on “Jeevan Vidya (Human Values)” during May 19th to 24th at KL University, Vijayawada.
- Attended One day workshop on “**Fuzzy logic**” on 26th September 2014 at KL University.
- Attended One day workshop on “**Conservation of Energy and Audit**” in 2013 at KL University.
- Attended One day IEEE (WIE)Workshop on” **Happiness at work & Transformations**” on 17th March 2012 at Malla Reddy Engineering College, Hyderabad.
- Attended One week National Level Workshop on” **Recent Advances in Electrical Engineering**” during 26th December to 31st December 2011 at Mahatma Gandhi Institute of Technology, CBIT foundation, Hyderabad.
- 8. Attended One day IEEE Workshop on” **Women in Engineering**” on 16th July 2011 at Malla Reddy Engineering College, Hyderabad.
- 9. Attended One week National Level Workshop on” **MATLAB Simulation of Power Electronics & Drives**” from 20th June to 25th June 2011 at Pulla Reddy Engineering College, Kurnool.
- 10. Attended National Level Workshop on “**Advances in Power Electronics & Drives**” on 27th & 28th December 2008 at Pulla Reddy Engineering College, Kurnool.
- 11. Attended Workshop on “**EDSA Software Applications to Power Systems**” under TEQIP on 5th & 6th December 2008 at Osmania University, Hyderabad.

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Guest Lectures delivered:

- Delivered a Guest lecture on “Significance of Poly Phase Machines” at Hyderabad Institute of Technology And Management (HITAM) on 08-04-17.
- Delivered a guest Lecture as a resource person on the topic ”**Advanced methods of speed control of AC drives**” during the workshop organizing on March 31st and 1st April 2012 at MallaReddy Engineering College(Autonomous) , Dhulapally, Hyderabad.
- Delivered a guest lecture on “**Electrical Machines**” at MallaReddy Institute of Engineering and Technology, Dhulapally, Hyderabad.

5.2. Articles/Chapters published in Books: NIL

5.3. Books published as single author or as Editor: NIL

5.4. Projects Guided:

- UG: 30 Projects
- PG: 10 Projects

5.5. Research Interests : Electrical Drives, PWM Schemes & Multilevel inverters.

5.6. Ph.D students:

- a) Enrolled: Nil
b) Submitted: Nil
c) Awarded: Nil

5.7. Papers published in Peer reviewed journals:

S. No	Title of the Paper	Journal Name Vol.No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	“Hybrid pulse width modulation method for VSI fed Induction motor drive with reduced complexity”.	International journal of Engineering Research and development. volume2, issue 6, page no’s 42-50	ISSN :2278-067X,p-ISSN:2278-800X,	IF-1.3 Google Scholar	International
2	Generalized pulse width modulation method for Induction motor drive with reduced complexity” Research India Publications.	International journal of Applied Engineering Research. volume 7, with page no’s 1169-1181	ISSN :0973-4562	Scopus Indexed	International
3	“Generalized PWM Algorithm for Direct Torque controlled Induction motor drives using the only sampled voltages”.	International journal of Computational Engineering & Research. volume 2 issue 5, with page no’s 1600	ISSN :2250-3005	IF-3.1 Google Scholar	International
4	Performance of Direct Torque controlled Induction motor drives using the only sampled voltages with generalized PWM Algorithm.	“International journal of systems, algorithms & applications. volume 2 issue 2, with page no’s 56-62	ISSN :2277-2677	IF-1.69 Google Scholar	International
5	Hybrid PWM Algorithm for Induction motor drive with reduced computational burden”.	International journal of Advanced Electrical and Electronics Engineering. volume 1, issue 3 with page no’s 30-36	ISSN :2278-8948	IF-2.3 Google Scholar	International
6	Hybrid PWM	Engineering	ISSN	IF-1.9	International

	Algorithm for Direct Torque controlled Induction motor drive with reduced computational burden”.	sciences international journal. volume1, issue 1 with page no’s 28-35.	:2320-4338,ISBN N-978-93-81583-90-6	Google Scholar	al
7	J.Bhavani, B.Srinivas-” Novel Intelligent Control Technique based on Space Vector Modulation Direct Torque Control for Induction Motors”	International journal of Applied Engineering Research, Research India Publications. of volume 9, with page no’s 7241-7256	ISSN : 0973-4562	Scopus Indexed	International
8	Dr.J.Bhavani, ”Generalized PWM Algorithm for 3-level Diode Clamped Inverter fed Direct Torque Controlled Induction Motor Drive” .	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	ISSN: 2320 – 3765 ISSN (Online): 2278 – 8875, Volume 4, issue 12, with page no’s 9664 - 9675 in Dec 2015.	5.61 Google Scholar	International
9	Dr.J.Bhavani, Ms.RuksarFathima-” Fuzzy Logic Controller for a Speed Control of Induction Motor using SPWM Technique,	International Journal of Scientific Engineering and Technology Research	with ISSN 2319-8885 Vol.05, Issue.42 November -2016, Pages: 8715-8718	3.69 Google Scholar	International
10	Hybrid PWM Algorithm for 3 level diode clamped inverter fed Direct Torque controlled Induction motor drive with reduced computational burden.	wulfenia journal	got accepted for publication.	-	International
11	Generalized PWM	journal of Electrical	under	-	International

	Algorithm for 3-Level diode clamped inverter fed Direct Torque controlled Induction motor drive	Engineering (JEE)	communication		al
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5.8. Papers presented at National / International Conferences:

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	“Hybrid PWM Algorithm for Induction motor drive with reduced computational burden”	International conference on Advanced Electrical & Electronics Engineering and Applications (ICAEAAA) organized by IRD India. ISBN No-987-9381361-18-9, page No’s 21-26.	International	
2	Performance of Direct Torque controlled Induction motor drives using the only sampled voltages with generalized PWM Algorithm”	International conference on Recent Advances in Sciences and Engineering (ICRASE). ISBN No-978-81-923541-0-6 page No’s 56-62	International	
3	“Generalized PWM Algorithm for VSI Fed Induction motor drive using the only sampled reference phase voltages ”.	IICPE-2012 (IEEE International conference on Power Electronics) at NEW DELHI, IEEE Explorer with page No’s 12-16.	International- _IEEE	
4	“Hybrid PWM Algorithm for direct torque controlled Induction motor drive with reduced computational burden”.	International conference on Information and Engineering (ICIES-2013) organized by IMRF at Vijayawada. with ISBN No-978-93-81583-92-0, page No 209.	International	

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed
1	Design of Solar PV System for the implementation of DTC based Induction motor	DST, SERB, Early career Research award	-	18 Lakhs	Applied

	drive				
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5.10 Consultancy Projects: Nil

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

4. Awards / Honors received:

- **Best Paperaward** for the Paper entitled “Hybrid PWM Algorithm for Induction motor drive with reduced computational burden” organized by IRD India, Bangalore on sep 2nd 2012.
- **Received Best Young Women scientist award** by PEARL Foundation, A foundation for Excellency in Education on Dec 8th 2016 at Madurai.

5. Motto: Be Good & Do Good.