

## Evaluative Report of The Department of Electrical Engineering

- |  |                               |
|--|-------------------------------|
| 1. Name of the Department  | <b>Electrical Engineering</b> |
| 2. Year of establishment   | <b>1985</b>                   |
| 3. Is the Department part of a School/Faculty of the University-<br>Faculty of Engineering & Technology              |                               |
| 4. Names of Programmes offered (UG, PG, M. Phil., Ph. D., Integrated Masters; Integrated Ph.D., D. Sc., D Litt etc.) |                               |

S. No.	Name of the Programme	Type of the Programme	Annual Intake
1	B. Tech	Full Time	70
2	B.E.	Part Time	70
3	M. Tech (EPSM)	Full Time	15
	M. Tech (CIS)	Full Time	18
4	Ph.D.	Power System, Power Electronics- Electrical Machine & Drives, Control & Instrumentation, Electronics & communication, Computer Technology	Seats vary Subjected to the availability of Supervisors

5. Interdisciplinary Programs and Departments involved:  
M. Tech (Control and Instrumentation Systems).
6. Courses in collaboration with other universities, industries, foreign institutions, etc.  
Ph. D. programmes are generally having collaboration with institutes like IIT Delhi, DTU, NSIT etc. and industries like Power Grid Corporation India limited.
7. Details of programmes discontinued, if any, with reasons: None
8. Examination System: Annual/ Semester/Trimester /Choice Based Credit System

S. No.	Name of the Programme	Examination System
1	B. Tech	Semester
2	B.E	Annual
3	M. Tech	Semester

9. Participation of the Department in the courses offered by other Departments – Yes  
B. Tech- Civil Engg, Mechanical Engg, Computer Engg, Electronics & Communication  
Engg. B.E – Mechanical Engineering
10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

S. No.	Post	Sanctioned	Filled	Vacant	Actual (Including CAS & MPS)
1	Professor	03	02	01	12
2	Associate Professors	09	09	Nil	3
3	Asst. Professors	11	11	Nil	7
4	Guest Faculty	-	-	-	01

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

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Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M Phil M. Tech / M D			
					Ph.D.		M.Tech	
					Awarded	In progress	Completed	In progress
Dr.Majid Jamil	Ph.D.	Professor & Head	Power Systems & Energy	22	06	07	13	01
Dr. Zaheeruddin	Ph.D	Professor	Soft Computing	27	02	08	12	01
Dr. A. Q. Ansari	Ph.D	Professor	Computer Networks	29	06	08	09	None
Dr. Ibraheem	Ph.D	Professor	Power Systems Control System	26	10	-	14	None
<b>On Leave Since Dec 2013</b>								
Dr. Mini. S. Thomas	Ph.D	Professor	Power System Automation	26	08	07	11	02
Dr. H.E. Akhter	Ph.D.	Professor	Electric Machine	32	Nil	Nil	None	None
Dr. Z.A. Jaffery	Ph.D.	Professor	Image Processing	22	04	05	07	02
Dr. Munna Khan	Ph.D.	Professor	Biomedical Instrumentation	22	03+02 submitted	06	01	03
Dr. A. S. Siddiqui	Ph.D.	Professor	Power Systems	18	02	08	08	02
Dr. Shahida Khatoon	Ph.D.	Professor	Control System	22	04	08	10	03
Dr. Shakeb A. Khan	Ph.D.	Professor	Instrumentation	19	02	04	04	02
Dr. Tarikul Islam	Ph.D.	Professor	Instrumentation	16	03	08	04	02
Dr. Manaullah	Ph.D.	Associate Professor	Parallel Processing/ Power Systems	21	Nil	04	01	01
Dr. Shabana Mehfuz	Ph.D.	Associate Professor	Computer Networks	16	Nil	05	05	02
Dr. Naimul Hasan	Ph.D.	Associate Professor	Power Systems	07	Nil	05	02	01
Dr. Ikbali	Ph.D.	Assistant	Power System	13	Nil	04	03	03

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Name	Qualification	Designation	Specialization	No. of Years of	No. of Ph.D./M Phil M. Tech / M D			
		Professor	Automation					
Dr. Haroon Ashfaque	Ph.D.	Assistant Professor	Electric Drives	10	Nil	04	05	03
Mr. Rajveer Singh	M.Tech	Assistant Professor	Power Systems	12	Nil	Nil	06	01
Dr. A.K.Singh	Ph.D.	Assistant Professor	Control System	10	Nil	01	None	None
Mr. Ahteshamul Haque	M.Tech	Assistant Professor	Power Electronics	13	Nil	Nil	01	01
Mr. Sheeraz Kirmani	Ph.D.	Assistant Professor	Power Systems	07	Nil	02	Nil	01
Abrar Ahmad	M.Tech	Assistant Professor	Power Systems	10	Nil	Nil	01	02
Mr. Zeeeshan	M.tech	Guest Faculty						

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors etc.: None
13. Percentage of classes taken by temporary faculty- programme-wise information: 7.5%
14. Student Teacher Ratio: 12:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual.

S. No.	Post	Sanctioned	Filled	Actual
1	STA	01	01	01
2	TA	03	03	03
3	Lab attendant/ Helper	04	02	02
4	Store Keeper	01	01	01
5	Stenographer/Clerk	01	01	01
6	Peon	01	01	01
7	Technician	03	03	03

16. Research thrust areas as recognized by major funding agencies.
- Power Systems
  - Control System
  - Instrumentation
  - Computer Technology
  - Power Electronics
  - Image Processing
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received.

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Ongoing Projects

- **Successfully Completed Project**

18. Inter-institutional collaborative projects and associated grants received

S. No.	Name of Principal Investigator	Thrust Area/Title	Grant Received (Rs)	Funding Agency	Year of Sanction	Year of Completion
1	Prof. Tarikul Islam/Prof. S.A. Khan	Development of ceramic thin film Inductive sensor using Sol-Gel method.	21.0 Lacs	D.S.T	2012	2015
2	Prof. Z. A. Jaffery	Visual Inspection System for Rail road Tracks	14.358 Lacs	UGC	2013	2016
3.	Prof. Mini S Thomas	Power System Automation	73.5 Lacs	UGC-SAP	2013	2018
4.	Dr. Munna Khan	Vision based expert system for picking of cotton	Rs 39.95 LACS	CSIR-DST, CEFM, Ludhiana	2013	2016
5.	Dr Ibraheem/ Dr. Arunesh K. Singh	Modelling & Simulation of eddy current brakes for energy absorber	10.988 Lacs	UGC	2012	2015
6.	Dr. Naimul Hasan	Development & Implementation of nature inspired optimization in AGC interconnected power systems with paralleled AC/DC links.	9.278 Lacs	UGC	2013	2016
7	Dr. Iqbal Ali	Design and Performance Evaluation of Communication Architecture Requirements for Substation Automation System.	10 Lacs	AICTE	2013	2016
8	Ahteshamul Haque	Development of Novel, Efficient and Cost Effective Power Electronics based single phase system to convert Solar Energy from Solar PV to Electrical Energy.	106.31 Lacs	MNRE	2014	2017

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a) National collaboration b) International collaborations - None

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE etc.;

S. No.	Name of Principal Investigator	Title	Grant Received (Rs)	Funding Agency	Year of Sanction	Year of Completion
1	Prof. Mini. S. Thomas	Power system Automation leading to substation and distribution Automation	50.5 Lacs	UGC-SAP	2007	2012
2	Prof. Mini. S. Thomas	Development of Intelligent Communication for security and surveillance of Substation	3.43 Lacs	UGC	2007	2010
3	Prof. Mini. S. Thomas	Development of Intelligent Protection schemes for Power Transmission system	10.59 Lacs	AICTE	2007	2009
4.	Prof. Majid Jamil	Development of Intelligent Protection Scheme for Transmission Systems	8.24 Lacs	AICTE	2007	2009
5.	Prof. Majid Jamil	Modernization of Electrical Simulation Lab	6.0 Lacs	AICTE	2007	2009
6.	Dr. Majid Jamil	Modeling and Simulation of Solar Power System	18.3 Lacs	AICTE	2012	2014
7.	Prof. Shahida Khatoon	Development of an Autonomous Miniature Unmanned Aerial Vehicle (UAV) as Disaster Management Tool.	10.482 Lacs	UGC	2009	2011
8.	Dr. Tarikul Islam	Pore morphology studies of porous silicon to measure content in dry gas	40.0 Lacs	D.S. T.	2008	2011
9.	Dr. Tarikul Islam	Sol-Gel Ceramic Thin film for Sensing Applications	32.0 Lacs	DAE (BRNS)	2011	2014
10.	Dr. Shabana Mehfuz	Resilience Mechanism for Mobile Ad-hoc Networks	9.5 Lacs	AICTE	2012	2014
11.	Dr. Munna Khan	Design & Development of psychoacoustic devices	9.95 Lacs	DIPAS	2012	2014
12.	Dr. Shahida Khatoon	Development of wireless sensor network for health and security monitoring in old age homes.	21.35 Lacs	D.S.T.	2010	2013
13.	Dr. A. Q. Ansari	On chip 3D simulation for network on chip (NoC)	6.99 Lacs	UGC	2011	2013

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total grants received.

S. No.	Title of the Project	Funding Agency	Amount (INR)	Duration
1	Power system Automation leading to substation and distribution Automation	UGC-SAP	55.5 Lacs	2007-2012
2	Power System Automation	UGC-SAP	73.5 Lacs	2013-2018

### 20. Research facility / centre with National/International Recognition:

SCADA Laboratory established by Dr Mini Shaji Thomas has received State, National and International recognition

- National Recognition: MOU with the transmission utility of India, POWERGRID Corporation. The Laboratory has been training and certifying Powergrid system operators on SCADA basics. Three such training and certification programs have been already conducted.
- International Recognition: The SCADA and the Substation Laboratories were chosen to be featured in the IEEE Power and Energy Magazine (impact factor 3. 082) special issue on Education. The SCADA and SA laboratories article was one of the two laboratory articles featured in the issue along with the laboratories from the University of Minnesota, USA *IEEE Power & Energy Magazine Vol 8, No 4, July/August 2010, pp53-60*

### 21. Special research laboratories sponsored by / created by industry or corporate bodies

S. No.	Name of The Laboratory	Name of the Industry
1	SCADA LAB	ABB

### 22. Publications:

Table for Research Publications of the Department

S. No.	Item	Total Numbers
1	Number of papers published in peer reviewed journals (national / international)	197
2	Number of papers published in conferences	406
3	Monographs	None
4	Chapters in Books	08
5	Edited Books	02
6	Laboratory Manuals	12
7	Articles in Magazines	05
8	Editorials	None
9	Books with ISBN with details of publishers	05
10	Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	182
11	Citation Index – range / average	Total: 1205 Since 2010: 905
12	SNIP	0-5.445

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13	SJR	0-0.293
14	Impact Factor – range / average	0-205.767
15	h-index	Total: 0-8 Since 2010: 6 (max)

Table for Research Publications of Individuals: Details are provided in Annexure-ERD I: Publication.

### 23. Details of patents and income generated.

S. No.	Inventor	Patent Awarding Agency	Patent/ Application No.	Title	Status (Awarded /Applied)	Brief	Awarding /Applied Year
1	Prof. A.Q.Ansari	Indian Patent	2200/DEL/2011	Parallel and Dynamic Virtual Channel Manager (VCM) for 3-D Network-On-Chip (NoC) Router	Published	-	2011
2	Prof. A.Q.Ansari	Indian Patent	141/DEL/2013	Architecture of 3D network on chip (NOC) router with guided flit logic.	Published	-	2013
3	Prof. Mini S Thomas, Dr. Iqbal Ali, Nitin Gupta	Indian Patent	2815/DEL/2013	A server gateway for providing interoperability	Published	-	2013
4	Prof. Majid Jamil	Indian Patent	1085/DEL/2014	90-95% Methane production from Kitchen Waste by Anaerobic Digestion Process	Applied	-	2014
5	Ahteshamul Haque	Indian Patent	2798/DEL/2014	Control of Bidirectional DC-DC converter	Published	In the area of Power Electronics, Renewable Energy	2014

### 24. Areas of consultancy and income generated.

NIL

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25. Faculty selected nationally/ internationally to visit other laboratories/ institutions / industries in India and abroad.

S. No.	Name	Laboratory /Institute visited	Year
1	Prof. Mini. S. Thomas	a. California State University, Northridge, USA. Power system Protection Laboratory b. IIT Madras Department of Electrical Engineering for the Power system Automation Laboratory.	2012
2	Dr. Tarikul Islam	Central Glass and Ceramic Research Institute (CGCRI) Kolkata.	2009
3	Prof. Munna Khan	Wright State University, OH, USA	2009, 2011, 2012
4	Prof. Munna Khan	Anchorage, AK and The University of Texas at Dallas, TX, USA	2011
5	Prof. A. Q. Ansari	2 <sup>nd</sup> International Conference On Mechanical and Electronics Engineering, Kyoto Japan	2010
6	Prof. A. Q. Ansari	BOS Meeting of the Vinayaka Missions University- Malaysia Campus, Kuala Lumpur, for the development of Academic Regulations and Curriculum, Kualalampur, Malaysia.	2009
7	Dr. Ikbali Ali	RTDS Laboratory at IIT Kanpur	2012

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify).

S. No.	Name	Committees	National/ International committee/Editorial Boards	Year
1	Prof. Zaheeruddin	1. Expert for Project Review Committee under National Mission on Power Electronics Technology Programme Phase-II, Ministry of Information Technology. 2. Member of Judicial Enquiry committee-Delhi University. 3. UGC Observer for the Selection Committee at Delhi University 4. Expert for the Post-Doctoral Fellowship-UGC. 5. Expert of selection committee meeting- C-DAC.	National  National  National	2012  2012  2012  2011



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		6. Expert of selection committee meeting- Jawahar Lal Nehru University.	National National	2010-2011 2009
2	Prof. Mini. S. Thomas	1. Member, IEEE Education Activities Board (EAB) and SEOC Chair 2. IEEE Global Nomination and appointment committee member. 3. Member, IEEE Publication Services and Products Board (IEEE PSPB) 4. IEEE Global MGA Board Vice Chair 5. IEEE Global MELCC Chair. 6. IEEE Asia Pacific Student Activities Coordinator. 7. IEEE Delhi section Vice Chair. 8. Member, Operator Certification examination panel.  10. Planning Board member (UGC Nominee). 11. Board member (UGC Nominee).  12. Member, Examination Board  13. Member of team for Indo-Netherlands Joint research on Smart Grid.  14. P h D and M Tech Examiner	International  International International International International International International  POSOCO, Ministry of Power, GOI  Mahatma Gandhi University, (M G University), Kerala.  Karunya University, Tamil Nadu  Delhi University, Faculty of Technology  Department of Science and Technology, DST, GOI Delhi University, Kurukshetra	2012 - 2014 2013-2014 2012 2010-2011. 2010–2011 2007-2009  Since 2009 Since 2011 Since 2010  2009 to 2012  Since 2011  Since 2012 Since 1995

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			University, Delhi Technological University and Aligarh Muslim University	
3	Prof. Majid Jamil	<p>1. AICTE</p> <p>2. Staff Selection Board</p> <p>3. Nominated as a member of the expert committee of UGC, AICTE team for the inspection of AKS University, Satna, M.P.</p> <p>4. Nominated as a member of the expert committee of UGC, AICTE team for the inspection of Pratap University (Private University), Village Sunderpura (Chandwaji), Delhi-Mumbai Highway, Jaipur .</p> <p>5. UGC Nominee on the Governing Body of Guru Nanak Dev Engg. College, Gill Park, Ludhiana.</p> <p>6. B.O.S External Members, Department of Electrical Engineering, Aligarh Muslim University, UP</p> <p>7. B.O.S External Members, Department of Electrical Engineering, N.I.T. Srinagar, J&amp; K.</p> <p>8. Department of Electrical Engineering, Baba Ghulam Shah, University, Rajhori, J&amp;K.</p>	<p>National</p> <p>National</p> <p>National</p> <p>National</p> <p>National</p> <p>National</p> <p>National</p> <p>National</p>	
4	Dr. Tarikul Islam	<p>1. Scientific Committee member of National Symposium on Material and Processing.</p> <p>2. Reviewer of International Journal Papers (Sensors and Actuators A, B, Measurement, IEEE sensors)</p> <p>3. Thapar University</p>	<p>National</p> <p>Editorial Board</p> <p>BOS Member</p>	<p>2012</p> <p>Now</p>

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5	Prof. A. Q. Ansari	1. Member, Planning and Monitoring Board	Periyar Maniammai University, Thanjavur, T.N.	2007-2014
		2. Member, Executive Council	Bhagwant University, Rajasthan	Since Mar 2008
		3. Member, Governing Council	The Muslim Association for the Advancement of Science, Aligarh	Since May 2004
		4. Member, Board of Governors	Apeejay Institute of Technology, School of Computer Science, Greater NOIDA	Since Apr 2005
		5. Member, IT Advisory Council	INMANTECH, Ghaziabad	Since 2003
			Bharati Vidyapeeth Deemed University, Pune	Since 2004
		6. Member, Board of Research	Dept. of Electrical Engineering, A. M. U. Aligarh	2009 to 2011
		7. Member, BOS	Dept. of Computer Science, A. M. U. Aligarh	Since 2010
		8. Member, BOS	Institute of Technology and Management, Gurgaon	Since 2009
9. Member, BOS	School of Engineering and Technology, Gautam Buddha University, Greater	Since 2009		

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		10. Member BOS	NOIDA	
		11. Member of BOS, RDS	Of various other reputed colleges	Since 2009
		12. Chairman	IEEE-Computational Intelligence Society, Delhi Chapter	Since 2011
		13. Chairman	Standing Committee on Technical and Professional Activities, IEEE Delhi Section	2011-2012
		14. Chairman	Standing committee on membership development, IEEE Delhi Section	Since 2014
		15 EC Member	IEEE Delhi Section	Since 2009
6	Dr. Shabana Mehfuz	PhD. Thesis Examiner	Department of Electrical Engineering, College of Engineering, Andhra University, Visakhapatnam	2011
		-Exam Paper Setter	Integral University, Lucknow.	2014

d) - Any Other

S. No.	Name	Type of membership	Organization	Membership No.
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		(Ordinary Member/ Honorary/Life member)		
1	Prof. Zaheeruddin	Fellow  Life Member  Life Member  Life Member  Life Member  Life Member	a) The Institution of Electronics and Telecommunication Engineers (IETE), India. b) World Federation of Soft Computing, U.S.A. c) The Institution of Engineers (IE, India), India. d) Computer Society of India (CSI). e) Indian Society for Technical Education f) The Indian Science Congress Association (ISCA). g) Indian Chapter of The International Centre For Theoretical Physics (Indian Chapter of ICTP). h) National Book Trust, India.	F-134032/2000  Nil  M/119750/3/2000  LM-00058907/2000 LM-4601/1989  LM-8611/2000  ICICTP/99/320/1999  DEL/IND/22454/2000
2.	Prof. Mini. S. Thomas	Senior Member Life Member Life Member Member	a)- IEEE b)- ISTE c)- I.E. India d)- IEEE Nomination and Appointment e)- IEEE Power and Energy Society	SMO976613
3.	Prof. Majid Jamil	Life Member Life Member  Life Member	a) I.S.T.E. b) Institute of Engineers- India. c) ICTP d) Reviewer of IEEE conference held at DTU in Dec 2012. e) System Society of India	LM15022 M-1352762  ICICTP/99/315

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		Life member		LM30278
4	Prof. Z. A. Jaffery	Life Member Life Member Member Life Member	a) IETE-India b) I.S.T.E c) System Society of India d) I.S.I.A.M	M 085477  LM 30271 LM 30271
5	Prof. A. S. Siddiqui	Life Member  Life Member Life Member Associate	a) System Society of India b) ISTE c) ISCA d) IE-India	LM-30273  LM – 25349 L-9018 A-506295
6	Dr. Ikbal Ali	Senior Member	IEEE	
7	Ahteshamul Haque	Life Member Member	I.S.T.E  IEEE : Power Electronics, Industry Application Consumer Electronics	LM-50273
8	Prof. A.Q. Ansari	Fellow	Institution of Engineers (India)	F 108865-5, 18 Aug. 2003
		Chartered Engineer (India)	Institution of Engineers (India)	F 108865-5, 10 Nov. 2004
		Fellow	Institution of Electronics and Telecommunication Engineers (IETE), India	F 53791, 20 Aug. 1996
		Chartered Engineer	Institution of Electronics and Telecommunication Engineers (IETE), India	CE/0010, 6 Aug. 2001
		Member	IET, U.K. (Formerly IEE, U.K.)	83010854, 20 Dec. 2005
		Chartered Engineer (U.K.)	Engineering Council, U.K.	557922, 20 Dec. 2005
		Fellow	National Telematics Forum, India.	F 95076, 03 Oct. 1997
		Sr. Member	IEEE, U.S.A.	03064623, 18 Nov. 2000
		Sr. Member	Computer Society of India (CSI)	00083612, 26 Aug.

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				2002
		Life Member	Indian Society for Technical Education (ISTE)	LM 2109, 1988
		Life Member	Indian Science Congress Association (ISCA)	LM 7515, 1997
		Life Member	National Association of Computer Educators and Trainers (NACET), India	February 1996
		Life Member	Indian Society for Continuing Engineering Education	LM 123, 05 Aug. 1993
		Life Member	Indian Society for Environmental Management	LM 951115, 01 Jan. 1995
		Life Member	Systems Society of India	LM 30277, 16 April 2010
9	Dr. Arunesh Kumar Singh	Member	Program Committee of International Conference on ENERGY, ECONOMICS AND ENVIRONMENT (ICEEE2015)	Galgotias College of Engineering and Technology, Greater Noida on March 27-28, 2015.
		Member	technical programme Committee Organized by The Department of Electrical and Electronics Engineering (EEE),	Amity School of Engineering & Technology(ASET), Amity University Uttar Pradesh, Noida ( UP) India a two days International Conference on Recent Developments in Control, Automation and Power Engineering (RDCAPE 2015
10	Prof. Munna Khan	Associate Fellow	Aerospace Medical Association	Since 2012
		Associate Fellow	Indian Society of Aerospace Medicine, INDIA	2014

27. Faculty recharging strategies

Please see the annexure –ERD II Faculty recharging strategies.

28. Student projects

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- percentage of students who have done in-house projects including inter-departmental projects – 100%
- Percentage of students doing projects in collaboration with other universities / industry / institute - None.

29. Awards / recognitions received at the national and international level by

- Faculty

S. No.	Faculty Name	Name of the Award	Awarding Authority	Year and Details
1	Prof. Mini. S. Thomas	a)- Innovation Award b)- Outstanding Power Engineer Award c)- IEEE Lary K Wilson Translational Award d)- IEEE PES Outstanding Chapter Award	IEEE MGA Board  IEEE  IEEE IEEE	2008 (International)  2008 (IEEE Delhi) 2014 2013
2	Prof. Majid Jamil	Merit Award for the paper presentation.	WCECS 2009 at University of California, Berkley, San Francisco, USA.	2009
3	Prof. A. Q. Ansari	Rajarambapu Patil National Award for Promising Engineering Teacher for Creative Work Done in Technical Education for the  ISTE Best Student Chapter Award  Award for Eminent Educationist.  Outstanding Volunteer Award, as Chairman Recognition by Stanford University	Indian Society for Technical Education, New Delhi.  ISTE  Indo – Global Education Summit  IEEE Delhi Section Successfully implemented the open design challenge	2011.  2010, 2013, 2014  2013  2011 2009

- Doctoral / post doctoral fellows : None
- Students : None



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30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

S. No.	Name of the workshop / Special Lecture / Workshop Tutorial	Funding sponsoring authorities	& Year
1	Workshop on Curriculum Revision of B. Tech, M. Tech courses on 3-4 December 2012.	Jamia Millia Islamia	2012
2	Prof. Saifur Rahman, Director, ARI, Virginia Tech, Workshop on Smart Grid and Renewable energy source.	IEEE	2012
3	Mrs. Usha Albuquerque, Special Lecture on Carrier Counselling for Engineers.	Subject Association	2012
4	Dr Kannan Tinnium, GE Global Research Center, Albany, New York, on 'Smart Grid basics'.	IEEE	2012
5	Workshop on "Smart Grid" in association with IEEE Standards Association. Speakers: S.K. Soonee, CEO, POSOCO, Ravindra Joshi AGM, NDPL, Sanjay Verma, Smartgrid Group leader, GE Energy, Satish Aggarwal, US Nuclear Regulatory Commission, James Vendorf, IEEE SA.	IEEE	2011
6	S.K. Soonee, CEO, POSOCO, on "Challenges in Grid Operation".	IEEE	2010
7	Juan Martinez Sanchez, ISA DL, Madrid, Spain, on "Adaptive Predictive Expert Control".	IEEE	2010
8	Dr. Manissa Pippattanosomporan, Asst Professor, Virginia Tech USA 13 <sup>th</sup> January 2009 on" Intelligent Distributed Autonomous Power Systems".	UGC	2009
9	Umesh Singh: General Manager, GE Energy T&D, Florida, USA on 'Smart Grids: an Introduction'.	UGC	2009
10	Neeraj Goel, Regional Manager India, Schweitzer Engineering Laboratories (SEL) Pvt. Ltd on 'IEC61850& Synchro Phasors'.	UGC	2009
11	Anamika Bhargava GE Energy, Regional Commercial& Marketing Director- T&D on 'Smart Grids for India'.	UGC	2009
12	Mayank Sharma, Manager, AREVA T&D on "IEC 61850 and substation implementation'.	UGC	2009
13	Prof. Saifur Rahman: Director, Advanced Research Institute, Virginia Tech, USA 21 <sup>st</sup> October 2008 on "An Introduction to micogrid as a building block for the Distribution level smart Grid".	UGC	2008
14	Mr. Piyush Ohja, Director, Research at Kalki Tech, Bangalore, "Phasor measurement Units in wide area control:	UGC	2008

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	an insight”.		
15	Mr. Piyush Ohja, Director, Research at Kalki Tech, Bangalore, “Communication Protocols In Power system SCADA”, on 11 <sup>th</sup> December 2007	UGC	2007
16	Prof. M. H. Rashid, West Florida University, USA, “The Process of Outcome base education and The Washington Accord” Subject Association, JMI, Jan 2014	JMI	2014
17	Professor Gajendar Singh KIET, “A Technical Perspective to Purpose of Life” on 6 <sup>th</sup> Aug 2014	JMI	2014
18	Mr Rajeev Mahajan, “Entrepreneureship - A viable alternative” on 13th August 2014	JMI	2014
19	Murtaza Hamdani, founder of PEDGE LAB, “Engineering from Management Perspective” on 20th August 2014	JMI	2014
20	Abrar Ahmad, AP –JMI, “Body language for professional success” on 27th August 2014	JMI	2014
21	Haneef Quraishi, IG Hisar, “Career prospects in US”, on 10th September 2014	JMI	2014
22	Mr Naved iqbal, Manager – Alstom, “Prsopects in Power System” on 17th September 2014	JMI	2014
23	Mohammad Tariq , “Why and How to IAS for Engineer” on 24th September 2014	JMI	2014
24	Anwar Imam, Country Manager, Sokomo, “Career prospects in Switchgear Industry” on 1st October 2014	JMI	2014
25	Professor Afaq Ahmad, Professor AMU, “Fault management” on 15th October 2014	JMI	2014
26	Bela Goyal, Lurgi, “ Career planning” on 22nd October 2014	JMI	2014
27	Mr Sanjay Chaudhry, “Role of engineering in managing life” on 22nd October 2014	JMI	2014
28	International Workshop on “ <i>Computational Intelligence: Theories, Applications and Future Directions</i> ”	IEEE at JMI	2013
29	DLP (Distinguished Lecture Program) Seminar on “ <i>Neurodynamic Optimization Approaches to Model Predictive Control</i> ”	IEEE at JMI	2011
30	IEEE - Standards Association Workshop on “ <i>Cloud Computing</i> ”	IEEE at JMI	2011

31. Code of ethics for research followed by the departments

The Department follows the code of ethics for research as per the ordinance of the University.

32. Student profile program -wise:

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S. No.	Name of the Course (refer to question no. 4)	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
1	B.Tech	NA	NA		NA	
2	B.E	NA	NA		NA	
3	M.Tech (EPSM)	256 ( For the Year 2012-13)	14 ( For the Year 2009-10)	03	71.5% 100% ( Batch passed in 2011-12)	
4	M.Tech (CIS)	351 ( For the Year 2012-13)	16 ( For the Year 2012-13)	03	NA	NA
5	PhD	124 ( For the Year 2012)	34 ( For the Year 2012)	05	NA	NA

### 33. Diversity of students

S. No.	Name of the Course (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
1	B.Tech	25	75		15
2	B.E	25	75		Nil
3	M.Tech (EPSM) M.Tech (CIS)	25	75		15
4	PhD	-	-	-	15

### 34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

We do not have record because the applications of candidates are not forwarded by the Department.

Out of the class around 30% students apply for the GATE and out of which 90% qualifies it.

S. No.	Year	No. of Students Cleared Civil services exam	No. of Students Cleared defence services exam	No. of Students GATE	No. of Students Cleared PSU exam	No. of Students Cleared other exam
1	2012	01	-	20	05	-
2	2011	-	-	12	10	-
3	2010	01	-	10	10	-
4	2009	01	-	10	10	-

### 35. Student progression

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S. No.	Student progression	Percentage against enrolled
1	UG to PG	10%
2	PG to M.Phil.	Nil
3	PG to Ph.D.	10%
4	Ph.D. to Post-Doctoral	Nil
5	Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	80% 40%
6	Entrepreneurs	10%

### 36. Diversity of staff

S. No.	Percentage of faculty who are graduates	
1	of JMI	25%
2	from other universities within Delhi	Nil
3	from universities from other States	75%
4	from universities outside the country	Nil

### 37. Number of faculty who were awarded M Phil, Ph.D., D.Sc. and D.Litt. during the assessment period

S. No.	Name of Faculty	Ph.D. Topic	Awarding Year	Institution
1	Dr. Shabana Mehruz	Quality of service issues in mobile adhoc network.	2008	JMI
2	Dr. Iqbal Ali	Investigation and Design of the Communication Requirements for SCADA/EMS based Automated Collection and Analysis of IEDs Data	2010	JMI
3	Dr. Naimul Hasan	Suboptimal automatic generation control strategies of interconnected Power System with Parallel AC/DC links.	2008	JMI
4	Dr. A. K. Singh	Modelling & simulation of eddy current tracking system for AABS.	2011	JMI
5	Dr. Haroon Ashfaq	Development of AC regulator based controller for wound rotor induction motors.	2008	AMU
6	Dr. Sheeraz Kirmani	Techno-Economic Feasibility Analysis of Solar Energy Based Distributed Generation System	2014	JMI

### 38. Present details of departmental infrastructural facilities with regard to

- a) Library: Common Library for Faculty of Engineering & Technology.
- b) Internet facilities for staff and students:
  - i) Each staff member has Internet Facility in his/her cabin provided by the University.
  - ii)- University has provided Common Internet Facility to all the students.
- c) Total number of class rooms : \_\_\_\_\_

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d) Class rooms with ICT facility : None

e) Students' laboratories

Electrical Engineering department has the following well established laboratory for B.Tech and M. Tech Students:

1. Power Electronics Lab.
2. Electrical Machines I + II Lab.
3. Microprocessor Lab.
4. SCADA Lab.
5. Digital Electronics Lab.
6. Analog Electronics Lab.
7. Instrumentation and Measurement Lab.
8. Control System Lab.
9. Computer Lab.
10. Communication Lab.
11. Power Systems Lab.
12. Basic Electrical Lab.
13. Communication Lab.
14. Circuit Analysis Lab.
15. Switch Gear & Protection Lab.
16. Automation Lab.
17. Advance Computer Lab.

f) Research laboratories

- Substation Automation Lab.
- Sensor Fabrication Lab.
- Solar Energy Lab.
- Advance Power Electronics Lab.

39. List of doctoral, post-doctoral students and Research Associates

Please see Annexure ERD-III List of doctoral, post-doctoral students and Research Associates.

40. Number of post graduate students getting financial assistance from the university.

All the GATE Qualified post graduate students of the department are getting financial assistance from AICTE.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Yes.

The need of Industry and Academic advancements are discussed in the departmental meetings and with the expertise of various areas, before the development of new programme.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes.

The Faculty members are encouraged to discuss the advancement in technology and Industrial

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needs in the departmental meetings based on which new elective courses are introduced in the curriculum

Department has the constitutional power to amend the curriculum through Board of Studies as and when required.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? **Yes.**

Dean, HOD's interact with the students and with the student representatives of of Subject association and based on their feedback remedial action is taken

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? **None.**

43. List the distinguished alumni of the department:

S. No.	Name of Alumni	Course	Passing Year	Currently Working
1	Prof. Majid Jamil	Electric al Engg	1989	Professor & Head, Department of Electrical Engineering, Jamia Millia Islamia, New Delhi
2	Mr. Yogesh Seth	-	1989	Director – Solutions Engineering at SAP India
3	Mr. Aslam Raza	-	1991	Director at iControls Limited, Auckland, New Zealand
4	Dr. Durga Toshniwal		1991	Associate Professor, IIT Roorkee
5	Dr. Hanif Qureshi, IPS	-	1992	IG – Hisar, Government of India
6	Mr Vikas Anand, IAS		1996	Pvt Sec to MOS, M/o Home Affairs, Central Delhi
7	Mr. Naved Iqbal	-	1996	Director Sales, Alstom India and Middle East
8	Mr Akshat Gupta, IAS		1998	D.M. Nanital
9	Dr. Syed Murtaza Hamdani	-	1998	Founder pEdge Lab, Amsterdam, Netherland.
10	Mr. Sultan Haider	-	2000	Head, Innovation Think Tank Siemens Heath Care Germany
11	Mr. Anil Gaur	-	2002	Vice President, Software Development - Oracle

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Same as Item No. 30

45. List the teaching methods adopted by the faculty for different programmes.

Conventional Teaching methods and with model projection facilities

Seminar: The department continuously throughout the semester evaluates the progress of B.Tech

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and M.Tech students' projects through their group presentations.

PhD: The department continuously monitors the progress of PhD scholars through their 6 monthly presentations. This presentation is scheduled biweekly and a group of 6-7 research scholars are evaluated in one long session.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The Curriculum is continuously revised and changes are done through BOS.

Workshops are organized to interact with the Industry and Academic experts and based on the outcome, course curriculum is revised by the department.

Continuous students' evaluation is done based on the sessional tests, assignments followed by the end semester examination.

47. Highlight the participation of students and faculty in extension activities.

Department has the following chapters of National and International Institutes/Societies in which student and faculty are actively involved.

- National : ISTE
- International : IEEE

48. Give details of "beyond syllabus scholarly activities" of the department.

National Level – Inter Institute competition like Paper presentation, software and hardware design, technical quizzes, robotics, debate are held every Year.

Industrial Training- Industrial Training is a compulsory part of curriculum.

Industry Visits- Industry Visits are arranged to give the practical exposure to students.

49. State whether the programme/ Department is accredited/ graded by other agencies? If yes, give details.

TATA Consultancy Services (TCS) accredited in 2012.

50. Briefly highlight the contributions of the Department in generating new knowledge, basic or applied.

Research Projects: Department has completed the research projects listed in item no. 17.

Substation Automation lab is developed for research and training purpose. The knowledge is imparted to Power Grid Corporation of India Limited.

Sensor Fabrication facility is developed in the Department.

Solar Energy Lab is developed in the Department.

Advance Power Electronics Lab is developed in the Department.

PhD's are awarded in the area of Power System, Soft Computing, Communication etc.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the Department.

## Strengths, Weaknesses, Opportunities, and Challenges (SWOC)

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### Strengths

S. No.	Areas	Details
1	Faculty	About 90% of the teaching faculty are having doctorate degrees from reputed Institutes and have published a good number of articles in national and international Journals. The teachers are highly dedicated towards their duties in terms of imparting technical knowledge to the students up to their full satisfaction. The faculty has the extreme sense of belonging for the University.
2	Students	Our students qualify national level exams and competition like GATE, CAT, IES, IAS etc. They are well placed in various PSUs, MNCs, and Government services. Also some students go for higher studies abroad and in India. We serve the special needs of the under privilege students of the society especially the students of minority community. The University is proud to give special reservations of 10% to the female students.
3	Research Projects	The grants of Rupees Two Crore Sixty Four Lacs and Thirty Two Thousands (Rs. 2.6432 crore) from various Government funding agencies like UGC, AICTE, and DST etc were received to carry out research and development activities in various areas.
4	Research Labs	The Department has two state of the art facilities in the form of SCADA/Automation Lab and Sensor Fabrication Lab.
5	PG Courses	The Department is running two PG Courses namely M. Tech. in Electrical Power Systems Management and M. Tech. in Control and Instrumentation Systems. All GATE qualified students admitted in these two courses are getting scholarship.

### Weakness

S. No.	Areas	Details
1	Research Development Funds	The faculty members are not getting the Academic Development Funds for their individual research as recommended in Sixth Pay Commission and adopted by UGC. Also the teachers are not getting adequate funds for attending International Conferences.
2	Technical Staff	The Department has only nine Technical Staff for one UG and two PG full time programmes.
3	Infrastructure	The Department has acute shortage of space as per the requirement of AICTE. For example the dimension of each Lab and class rooms does not meet the standard of AICTE norms. Also there is no seminar Room, Committee Room, sitting space for research scholars, appropriate sitting space for the faculty members. Class Rooms are uncomfortable especially in the summer period.
4	Research Resources	The teachers and research scholars do not have access of e-resources such as IEEE-Explore, Science Direct, Springer Verlag etc.



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5	Industry Collaboration	The global expansion of Technology and industrial development urgently requires the collaboration of university with industry which is one of the biggest shortcomings of the department.
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### Opportunities

S. No.	Areas	Details
1	Govt. Funding Agencies	The proximity of the department with Govt funding agencies gives tremendous opportunity to get more research funds.
2	Interaction with research and development centres	The faculty members have enough opportunities of interaction with the industries and other research and development centers existing abroad and in the capital city.
3	New Industry Oriented Courses	Opening of new industry oriented courses at UG and PG level has ample scope in the market.
4	Specialized skill based programme	The department has the opportunity for the development of specialized skill based programmes to enhance employability.
5	International Collaboration	With the global expansion of technology, it is the urgent need to have international collaboration with reputed Universities and Institutes.

### Challenges

S. No.	Areas	Details
1	International Research Funds	To get the funding from International Funding Agencies like IMF, World Bank etc for enhancing the research work in the area of Renewable Energy to address the concerns related to Global Warming and Energy Crisis.
2	Publicity	It is important to highlight the achievements and skills of the department at national and international level to secure the higher salary packages for students at par with the other comparable institutes and to get the consultancy work for the Faculty members.
3	Academic Improvement	Though the department has got excellent recognition in terms of teaching and research, we further need to enhance the Lab facilities for UG and PG students as well as for Ph. D. scholars.
4	Industry oriented research work	The Faculty members have to enhance the Industry oriented research.
5	Industry sponsored Courses	It is important to start the industry sponsored courses to produce professional engineers.

### 52. Future plans of the Department

Opening of QIP Centre for Research: The department has initiated the efforts to establish a QIP centre for Research. The proposal is already submitted to AICTE for approval.

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Opening Centre of Advance Study (CAS) under UGC Scheme: The department has completed the first phase of UGC SAP programme. The department has the plan to open centre of Advance Study (CAS) under this scheme and the proposal is submitted to UGC for approval.

Smart Class Room: The department has planned to renovate the existing classrooms into smart class rooms to make the teaching more friendly for students.

University – Industry Collaboration: Due to the global enhancement of technology it is the urgent need to have collaboration with Industry. The department has the interaction and MOU's with Industry and further enhancements are planned.

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## Annexure-ERD-II Faculty recharging strategies

- Faculty members are encouraged to attend the staff development programmes organized within Department/University and all over India.
- Faculty members are encouraged to attend the Conference at National and International level -and interact with experts.
- Department has organized a Staff development programme on 9-23 Dec-2011 , funded by AICTE.
- Department has organized a Two days Workshop on Curriculum revision of B. Tech and M. Tech courses on 3-4 Dec 2012 funded by Jamia Millia Islamia.
- Department has organized a one day Workshop on Curriculum revision of B. E on 18 Oct 2014 funded by Jamia Millia Islamia.

S. No.	Name	Programme /Conference	Place	Year
1	Dr. Zaheeruddin	a) International Conference on WCE.	UK	2012
		b) International Conference on Methods and models in Computer science.	JNU, New Delhi India.	2009
2	Dr. A. Q. Ansari	a) Faculty Development Program on <i>Intellectual property Rights</i> .	IIT Delhi	2011
		b)- 13 <sup>th</sup> ISTE Students National Convention on <i>Nurturing Creativity among Potential Professionals through Technical Education</i> .	Jaipur Engg. College, Jaipur.	2010
		c)-International Conference on Smart Technologies for Materials, Communications, Controls, Computing and Energy (ICST 2011).	Vel Tech University, Chennai.	2010
		d)-39 <sup>th</sup> Annual Convention of ISTE on Managing Technical Education for Leveraging Innovation and Entrepreneurship.	NITK, Surathkal, Mangalore, Karnataka.	2009
		e)- 2 <sup>nd</sup> National Workshop on <i>Einstein and Special Theory of Relativity</i> .	Delhi Univ Delhi.	2009
		f)-38 <sup>th</sup> Annual Convention of ISTE on Autonomy and Accountability of	KIIT University, Bhubaneswar (Orissa)	2008

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	Technical Education in Changing Scenario.	NIT, Hamirpur, Himachal Pradesh CDAC- New Delhi.	2008
	g)- 11 <sup>th</sup> ISTE Students National Convention on Skill Sets Development and Employability of Students in Technical Education.	GCET, Greater Noida, U.P.	2008
	Workshop on Euro-India R&D Collaboration in the ICT Sector	IEEE, Hyderabad, India.	2014
	h)- National Conference on Soft Computing (SCOMP-2014)	BVICAM, New Delhi	2013
	i)- IEEE International Conference on Fuzzy Systems ( <b>Fuzz-IEEE 2013</b> )	IEEE, JUIT	2013
	j)- 7 <sup>th</sup> National Conference on Computing for Nation Development(INDIACom-2013)	IEEE, MIR Labs, MTT-S, Rajkot, Gujrat	2012
	k)- 2nd IEEE International Conference on Parallel Distributed and Grid Computing(PDGC-2012)	Dept. of Electrical Eng., AMU Aligarh	2012
	l)- IEEE Int. Conf. on Communications Systems and network Technologies (CSNT-2012)	CERD, Department of Technical Education, Govt. of Kerala NBA, JSS Noida	2011
	m)- National Conference on Power, Instrumentation, Energy and Control	The Indus Foundation, U.S.A. and India	2011
	n)- 1 <sup>st</sup> National Technological Congress, Kerala	IIT Kanpur	2014
	o)- NBA Workshop for Experts/Evaluators/Stakeholders on Outcome Base Education		2013
	p)- Indo - Global Education Summit-2013		2013

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		q)- IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions		
3	Dr. Anwar S Siddiqui	a)- IEEE Smart Grid Workshop at SCADA laboratory.  b)-Two days workshop on “Development of Self Learning Material and Counselling Process in Distance Education”.  c)-EEE-SA workshop on CLOUD COMPUTING.	Electrical Engineering Department, Jamia Millia Islamia, New Delhi.  Arjun Singh Centre for Distance and Open Learning, Conference Hall, Jamia Millia Islmamia. Department of Electrical Engineering, JMI, New Delhi	2011.  2011.  2011
4	Dr. Ibraheem	a)- National Conference on $\pi$ - Con.  b)- All India Jamia Electrical Engineering Conference ( JEEC) on recent trends in Power Management.  c)-National Conference on Recent Advances in Electrical and Electronics Engineering.  d)- National Systems Conference.	Department of Electrical Engineering, A.M.U., Aligarh. Department of Electrical Engineering, MANIT, Bhopal.  NIT HamirPur.  Manipal Institute of Technology, Karnataka.	2011  2010  2009.  2007.
5	Dr. Majid Jamil	a)- Attended a two days NBA workshop. b)-Presented a paper in an international conference “World Congress on Engineering and Computer Science 2009 WCECS 2009”.  c)- Conference on Power System Analysis Control and Optimization.  d)-National Conference on Applications of Intelligent Systems.	DTU, Delhi.  University of Berkeley, San Fransisco, USA.  Department of Electrical Engineering, Andhra University, Vishakhapatnam.  Hindu College of Engineering, Sonapat.	2012  2009.  2008.  2008.

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		e)-National Conference on Power Electronics and Intelligent Control.	MNIT, Jaipur.	2007.
6	Dr. Mini S. Thomas	Vice Chair International Conference POWERCON 08 & PIC 08 by P&E Society.		2008.
7	Dr. Munna Khan	a)- 80th International conference of Aerospace Medical Association.	Westin Bonaventure Hotel, Los Angeles, CA, USA.	2009
		b)- 78th International conference of Aerospace Medical Association	Sheraton Hotel, New Orleans, LA, USA.	2007
		c)-54 <sup>th</sup> Annual conference of Indian Society of Aerospace Medicine.	Institute of Aerospace Medicine, Bangalore, India.	2014
		d)-83 <sup>rd</sup> Annual Scientific Meeting of Aerospace Medical Association.	Atlanta USA	2013
		e)-8 <sup>2nd</sup> Annual Scientific Meeting of Aerospace Medical Association.	AK, USA	2011
		f)-51 <sup>st</sup> Annual conference of Indian Society of Aerospace Medicine.	Bangalore India	2011
		g)-49 <sup>th</sup> Annual conference of Indian Society of Aerospace Medicine.	New Delhi, India	2009
8	Dr. Tarikul Islam	a)- National Workshop on “Critical Issues in Sensor Development-Materials to Packaging & Instrumentation.	Jadavpur Univ, Kolkata	2007
		b)-National symposium on materials andprocessing-2012, MAP-2012, BARC.	Mumbai,	2012
		c)-SAW oscillator, Proceedings of 6 <sup>th</sup> International conference on sensing technology, ICST-2012.	Kolkata	2012
		d)- International Symposium on Processing and Fabrication of Advanced Materials (PFAM-21), IIT Guwahati	Guwahati	2012

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9	Dr. Naimul Hasan	<p>a)- National Conference on Recent Advances in Electrical and Electronics Engineering (RAEEE-2009).</p> <p>b)- International Conference on “Electrical Power and Energy Systems (ICEPES -2010).</p> <p>c)- Power, Instrumentation, Energy &amp; Control (<math>\pi</math>CON-2011).</p> <p>d)- National Electrical Engineering Conference (NEEC).</p> <p>e)- National Conference on “Emerging Trends in Electrical, Instrumentation &amp; Communication Engineering (ETEIC -2012 ).</p> <p>f)- Orientation Programme.</p> <p>g)- QIP Short term course on “Building Integrated Photovoltaic Thermal Systems”.</p> <p>h)-Short term course on “Integrating Renewable Energy Sources into Emerging Electric Power Systems”.</p> <p>i)- AICTE Staff Development Programme on “Flexible A.C. Transmission Systems and Power System Voltage Stability: Recent Advances”.</p> <p>j)-. AICTE Staff Development b Programme on “Recent Advances in Electrical Power &amp; Energy Systems”.</p>	<p>Department of Electrical Engg., NIT Hamirpur, Himachal Pradesh.</p> <p>Department of Electrical Engg., MANIT Bhopal, M. P. AMU, Aligarh.</p> <p>DTU, New Delhi.</p> <p>Organized by AEC, Agra.</p> <p>Jamia Millia Islamia, New Delhi.</p> <p>Centre for Energy Studies, IIT Delhi.</p> <p>IIT Mandi, Himachal Pradesh.</p> <p>Department of Electrical Engineering, Delhi Technological University, New Delhi.</p> <p>Department of Electrical Engineering, Jamia Millia Islamia, New Delhi.</p>	<p>2009</p> <p>2010.</p> <p>2011</p> <p>2011</p> <p>2012</p> <p>2010</p> <p>2011</p> <p>2011</p> <p>2011.</p> <p>2011.</p>
10	Dr. Shabana Mehruz	a)- Utilization of Solar Energy and its Applications”.	IIT Delhi	2007.
11	Dr. Ikbal Ali	<p>a)- AICTE SDP on Recent Advances in Electrical Power &amp; Energy Systems.</p> <p>b)-Digital Design Techniques: Application to Control System.</p> <p>c)-Collaborative Summer School on “Instrumentation &amp; Signal</p>	<p>EED, JMI New Delhi</p> <p>IIT, Roorkee.</p> <p>NIT, Srinagar.</p>	<p>2011</p> <p>2011</p> <p>2010</p>

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		Processing”. d)-MHRD “E-content Management Training Program”.  e)-Ethernet Based Communication Network Architecture for Electric Power Substations.  f)- International Conference on “Advances in Substation Design”  g)- International Conference on “Smart Grid-Distribution Automation  h)- International Conference on Emerging Trends in Electrical Systems  i)- TEQIP-II Sponsored One Week FDP on “Recent Trends in Switch gears & Protection	CIT-JMI New Delhi.  ASC, JMI, New Delhi.  South Africa  South Africa  Kerala  India	2009  2007   2014  2013  2013  2014
12	Mr. Rajveer Singh	a)- UGC-Orientation Programme b)- AICTE- Staff Development Programme c)- AICTE- Staff Development Programme	JMI, New Delhi. DTU, New Delhi. JMI-New Delhi.	
13	Ahteshamul Haque	a)- Workshop on Computational Intelligence and its application to Smart Grid. b)- IET Conference on Power Control and Instrumentation- 2013. c)- UGC Academic Staff College-Winter Schools	IIT Delhi.  Hyderabad  JMI, New Delhi	2012  2013 2014-15
14	Sheeraz Kirmani	a)- AICTE Sponsored Staff Development Program (Two Week) on Recent Advances in Electrical power and Energy Systems”.  b)-AICTE Sponsored Staff Development Program (Two Week) on Flexible AC Transmission Systems and Power System Voltage Stability Recent Advances” .	Department of Electrical Engineering, Jamia Millia Islamia, New Delhi  Department of Electrical Engineering, Delhi Technological University, Delhi	2011  2011



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15	Dr. Arunesh K Singh	3-Week Summer Special Programme	JMI	2014
		IEEE Sponsored National Conference On Energy, Power And Intelligent Control Systems	Galgotia Engg College	2014
		International Conference on Extropianism:	Ansal University Gurgaon	2013
		3-Week Special Winter Programme organized	JMI	2012-13

Invited Talks/ Key Note

Prof. A. Q. Ansari

S. No.	Topic	Date	Occasion / Name of Institutes
1	Invited Talk: "Soft computing Applications"	8 <sup>th</sup> March 2014	National Level Seminar on Soft Computing Applications at Sachdeva Institute of Technology, Farah, Mathura
2	Invited Talk: "From Fuzzification to Neutrosophication: A paradigm shift in soft computing"	7 <sup>th</sup> March 2014	8 <sup>th</sup> INDIACom; International Conference for Sustainable Global Development, BVICAM, New Delhi
3	Key Note Address: Fuzzy Logic to Neutrosophic Logic	20 <sup>th</sup> Feb. 2014	National Conference on Soft Computing (SCOMP-2014), GCET, Greater Noida, U.P.
4	Key Note Address: Biometric Recognition: Technology and Applications	10 Dec. 2013	IEEE Second International Conference on Image Information Processing, 9-11 Dec. 2013, JUIT, Shimla.
5	Key Note Address: "Cyber Security and Management"	03 Dec. 2013	International Conference on Disaster Mitigation and Management Towards Sustainable Development, 2-4 Dec. 2013, PeriyarManiammai University, T. N.
6	Invited Talk: "Scope of Research Projects/ Works in the area of Computational Intelligence"	23 August 2013	National Seminar on Computational Intelligence, KIET, Ghaziabad, UP

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7	Keynote Address: “Fuzzy Type-2 and Neutrosophic Logics”	23 August 2013	National Seminar on Recent Technological Developments in the Field of Electrical Engineering, JSS Academy of Technical Education, Noida & Schneider Electrical Infrastructure Ltd., New Delhi
8	Invited Talk: “Recent Technological Developments in the Field of Electrical Engineering”	24 Aug 2013	National Seminar on Recent Technological Developments in the Field of Electrical Engineering, JSS Academy of Technical Education, Noida, U.P.
10	Invited Talk: “From Fuzzification to Neutrosophication – A new formalism for Data Processing”	31 May 2013	Five Day Workshop on Fuzzy Logic and ANN Application in Engineering (FLANN-13), 27-31 May, 2013 at RVCE, Bangalore.
11	Keynote Address: “Advance Latex”	2 March 2013	Two Days Workshop on Advance Latex, 2 March, 2013, Hindustan Institute of Technology and Management, Agra
12	Keynote Address: “Neutrosophic Computing”	23 Feb 2013	National Conference on Advanced Research in Computing (NCARC-13), 23-24 Feb, 2013, ChristuJyoti Inst. of Tech. & Science, Warangal
13	Invited Talk: “Neutrosophic Logic”	18 Jan 2013	National Conference on Data Mining (NCDM-2013), MCE Society’s Allana Institute of Management Sciences, Pune.
14	Invited Talk: “Introducing Neutrosophic Logic among Mathematicians”	15 Dec 2012	Emerging Mathematical Methods, Models & Algorithms for Science and Technology, 2012 at Gautam Buddha University, Indian Society of Industrial and Applied Mathematics
15	Invited Talk: “Recent Advances in Electrical Power & Energy Systems”	20 Dec 2011	Two weeks AICTE Sponsored Staff Development program on “Recent Advances in Electrical Power & Energy Systems” at FET, JMI, New Delhi, 9 - 22 Dec. 2011.

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16	Invited Talk: “Contribution of Cloud Computing to Green Computing”	28 July 2011	International Conference on Emerging Green Technologies (ICEGT-2011), PeriyarManiammaiUniversity, Thanjavur, T.N.
17	Invited Talk: “Preparing Effective Research Proposal”	30 May 2011	One Day Workshop on Intricacies of Preparing Research Proposals, YeshwantraoChavan College of Engineering, Meghe Group of Institutions, Nagpur.
18	Invited Talk: “Energy- efficient computing: User, System Design, and Application perspective”	28 Jan. 2011	1 <sup>st</sup> National Technological Congress on “Green Technology – Innovation for New Energy”, Centre for Engineering Research and Development, Department of Technical Education, Government of Kerala, Trivandrum.
19	Keynote Address: “Wireless Sensor Networks”	05 Jan. 2011	Int. Conf. on Smart Technologies for Materials, Comm., Controls, Computing and Energy (ICST 2011), Chennai, jointly organized by Vel Tech University, Chennai, and Oklahoma State University, USA.
20	Invited Talk: “Next Generation Computing”	11 Jan. 2010	India International Centre, Computer Society of India, Delhi Section.
21	Invited Talk: “Latest Trends in Fuzzy Logic Control”	16 June 2009	AICTE sponsored Faculty Development Programme, Baba Ghulam Shah Badshah University, Rajouri, J & K.
22	Invited Talke: “Fuzzy Logic: Basics and its Applications”	12 July 2008	PeriyarManiammaiUniversity, Thanjavur, T.N.
23	Invited Talk: “Requirements of Secure Software”	21 June 2008	AICTE sponsored Faculty Development Programme, NIT Patna
24	Invited Talk: “Network Security: Issues and	20 June 2008	AICTE sponsored Faculty Development Programme,

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	Challenges”		NIT Patna.
25	Invited Talk: “Fuzzy Logic Applications”	06 March 2008	G. L. Bajaj College of Engg. & Technology, Greater Noida.
26	Keynote Address: “Network Security Issues”	02 Feb. 2008	2 <sup>nd</sup> National Conference on Computer Science and Information Technology, KIET, Ghaziabad.
27	Invited Talk: “Fuzzy Logic in Pattern Recognition”	27 Oct. 2007	Hindustan Institute of Management and Computer Studies, Mathura.
28	Invited Talk: “Fuzzy Logic and its Application in Industrial Control”	27 Sep. 2007	Laser Science and Technology Centre, DRDO, New Delhi
29	Keynote Address: “e-Governance”	15 Oct 2005	National Seminar on “ICT for the prosperity of Mankind”, Computer Society of India, Delhi Chapter
30	Invited Lectures: “Advances in Soft Computing”	7 - 8 October 2005	UGC Sponsored One Week Refresher Program, University of Kashmir
31	Keynote Address: “e-Governance “	26 Sep 2005	National Seminar on “E-Governance Awareness”, Jagan Institute of Management Studies, New Delhi
32	Keynote Address: “Advanced Networking Technologies”	09 Apr. 2005	National Seminar -TechBYTE 2005, Jagan Institute of Management Studies, New Delhi
33	Invited Talk: “Information Technology: The Cutting Edge”	April 2004	Tecnia Institute of Advanced Studies, New Delhi
34	Invited Talk: “Fuzzy Logic: Concepts and Engineering Applications”	12-13 March, 2004	National Conference on “Strategies for Sustainable Growth in the Era of Information Technology”, Hindustan Institute of Management and Computer Studies, Mathura.
35	Invited Talk: “Fuzzy Logic and Neural	12 Sep. 2003	Techn-e-Vision 2003 (A Festival of Seminars), Padre Conceicao College

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	Networks”		of Engineering, Goa
36	Invited Talk: “Fuzzy Logic as a Soft Computing Tool”	28 Jan. 2003	AICTE Sponsored Summer School, Aditya Institute of Technology, New Delhi

Prof. Mini S Thomas

S. No	Title and date	Event details	Organized by
1	Evolution of Smart Protection system 1 <sup>st</sup> Dec 2014	Keynote address IEEE International Conference PECON 2014	IEEE PES Kuching Sarawak, Malaysia
2	Fundamentals of SCADA systems & their use in Power Systems 1 <sup>st</sup> Dec 2014	Tutorial PECON 2014	Kuching Sarawak, Malaysia
3	Power system SCADA and laboratory implementation 29th August 2014	IEEE PES world student congress	Middle East Technical University(METU), Ankara
4.	Interactive session on Home energy management 1 <sup>st</sup> Aug 2014	Academic Interaction	ARI, Virginia Tech, USA
5	SCADA in Power systems and Power Automation laboratories at JMI 18 <sup>th</sup> Feb 2013	Invited lecture	University of Texas, Austin, USA
6	Power System Operations in India 18 <sup>th</sup> Feb 2013	Invited lecture	Electric Reliability Council of Texas (ERCOT), Austin
7	SCADA and Power Automation laboratories at JMI 18 <sup>th</sup> Feb 2013	Invited lecture	Texas A&M University College station, Texas, USA
8	An overview of SCADA in Power System’ 10 <sup>th</sup> January 2011	Invited lecture	California State University North Ridge, USA
9	Smart Grid Deployment: Reliable communication infrastructure for SCADA Applications 24 <sup>th</sup> September 2012	Indo- Netherlands (DST-NWO) Joint workshop on Smart Grid Research	Technical University of Delft (TU Delft), The Netherlands

Prof. Munna Khan

S. No	Title and date	Event details	Organized by
1	Applications of Biomedical Instrumentation in orthopedic surgery	Invited talk	Wright State University, Dayton, OH, USA, on June 15, 2012

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2	Biofeedback Controlled Anti-G Suit: Simulation and Prototype Development	Invited talk	Wright State University, Dayton, OH, USA, on 2011.
3	Biomedical instrumentation and technology developments for an aircraft pilot under G stress	Invited talk	Erik Jonsson School of Engineering and Computer Science, The University of Texas, Dallas, TX, USA on May 13, 2011.
4.	Electrical impedance analysis and technology developments for high performance aircraft pilots	Invited talk	Wright State University, Dayton, OH, USA, on 2009.
5	Application of finite element methods for aircraft pilot	Invited Talk	National conference on “Advances in Mechanical Engineering” held during Nov. 27-28, 2010 at AMU Aligarh, UP
6	Defence and civilian applications of instrumentation technology	Invited Talk	Galgotias Institute of Engineering and Technology, Greater Noida on Nov. 18, 2009
7	Human body composition and health care	Invited Talk	87 <sup>th</sup> Orientation Programme organized by Academic staff college, Jamia Millia Islamia (Central University), New Delhi on March 07, 2009.

Ahteshamul Haque

S. No	Title and date	Event details	Organized by
1	Embedded System and Application	Invited Talk	COMM – IT, New Delhi, 2009.
2	Stability Analysis of Power Electronics Converters	Invited Talk	Philips India Pvt Ltd, 2014.

Dr. Iqbal Ali

S. No	Title and date	Event details	Organized by
1	Smart Grid-Distribution Automation	Invited Talk	South Africa, 2013
2	Industrial Automation	Invited Talk	A.M.U, Aligarh, 2014
3	Advances in Substation Design	Invited Talk	South Africa, 2014

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### Annexure ERD-III List of doctoral, post-doctoral students and Research Associates.

a) From the host Institution / university( In Progress)

S. No.	Roll No.	Name	Supervisor's (Professor/Dr.)	Title
1	10 PHDEE-13	Reetu	Shabana Mehruz Parmod Kumar	Intelligent Decision Support Systems for Power System Restoration
2	12PHDEE-17	Noorul Islam	A. Q. Ansari V. K. Chandna	Optimization And Reliability Analysis Of Intelligent Photovoltaic System
3	11PHDEE-32	Arkan Ahmad Hussein	Ibrheem NaimulHasan	Decentralized AGC Strategies in Interconnected Power Systems Incorporating Parallel AC/DC Links
4	10 PHDEE-12	Rajveer Singh	Majid Jamil	Faults Identification In Power Systems Using Soft Computing Techniques
5	10 PHDEE-01	AmiraNisar	Mini S. Thomas	Design and Implementation of a Self Reliant Intelligent Distribution System
6	11PHDEE-18	MayankPande	Zaheeruddin	Disaster Management in Electrical Power Distribution Sector
7	10 PHDEE-11	Parveen Poon Terang	Mini S. Thomas	Intelligent Strategies for Distributed Generation Interface in a Smart Grid
8	43	Amit Sharma	Majid Jamil	Electrical Distribution System Restoration Using Intelligent Techniques
9	11PHDEE-02	Abrar Ahmad	A.S. Siddiqui	Challenges and Solutions for Integrating Renewable Energy Sources
10	11PHDEE-10	Tanmoy Deb	A. S. Siddiqui	FACTS Based Congestion Management in Transmission Grids under Deregulated Environment
11	11PHDEE-01	Sanjeev Kumar Sharma	MajidJamil	Fault Detection and Identification of Three Phase Transmission System Using Intelligent Techniques
12	11PHDEE-12	Sunil Gupta	Ikbal Ali Mini S.Thomas	Impact of IEC 61850 Protocol on Substation Performance

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13	10 PHDEE-02	Arvind Kumar Sharma	Manaullah	Transient Fault Analysis of an Intelligent Distributed Generation System
14	11PHDEE-06	JitendraNathRai	NaimulHasan B.B. Arora	Optimization of Electrical Generator Output at Varying Input Conditions in Combined Cycle Gas Turbine
15	10 PHDEE-16	ShuaibFarooq	NaimulHasan Ibraheem	Real Time Simulation of Advance Controllers for Automatic Generation Control of Interconnected Power Systems
16	11PHDEE-24	NaquiAnwer	A.S. Siddiqui	FACTS Controllers for Smart Grid Management
17	11PHDEE-22	Pawan Kumar	Ikbal AliMini S.Thomas,	Optimal Operation of Automated Radial and Meshed Distribution System
18	10 PHDEE-17	Surendra Kumar Tripathi	HaroonAshfaq	Performance Improvement of a Grid-Interactive Wind Energy Conversion System (WECS)
19	12PHDEE-16	MunishManas	Zaheeruddin SubirSen	Design and Optimization of a Smart Micro-Grid towards Sustainability
20	12PHDEE-06	MashhoodHasan	A. Q. Ansari Bhim Singh	Analysis Design and control of unfired power quality conditioners
21	12PHDEE-22	ShahzadAhsan	A.S. Siddiqui	Issues And Challenges Related With Integration Of Non-Conventional Energy Sources into the Existing Power System Network
22	12PHDEE-01	Ahteshamul Haque	Zaheeruddin Sukumar Mishra	Design And Development Of a novel Maximum Power Point Tracker (MPPT) Of A Solar Photovoltaic (PV) System Energy Conversion system
23	11PHDEE-07	Abdul Salam	HaroonAshfaq	Development of Sustainable Approach for the Design of Solar Photo Voltaic (SPV) Based Power System
24	11PHDEE-20	Ahmed ShariqueAnees	MajidJamil	Integration of Renewable Energy Sources and Grid management
25	11PHDEE-09	Ravi Gupta	MajidJamil Mukhtiar Singh	Control and Performance Analysis of Permanent Magnet Synchronous Generator Based Wind Energy Conversion System
26	12PHDEE-18	Priti	Shahida Khatoon Ibraheem	Soft Computing Techniques based Load Forecasting



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27	12PHDEE-08	Md Sarwar	A. S. Siddiqui	Power Transaction Management In Competitive Electricity Market
28	13PHDEE-09	Rahul Pateriya	Haroon Ashfaq	Energy-Reliability optimization of Wind Energy Conversion Systems
29	12PHDEE-04	Ashish Digamber Thombre	Manaullah	Intelligent power controller for Standalone Photovoltaic Energy Conversion System
30	11PHDEE-21	Samiuddin Ahmad	Naimul Hasan Ibraheem	ABT Based Strategies for Automatic Generation Control in Interconnected Power Systems
31	11PHDEE-34	Raj Kumar	Zaheeruddin V. K. Jain	An Eco-Friendly System Approach to Energy Planning in India
32	10 PHDEE-07	Manisha Rani	A. S. Siddiqui	Power System Loadability Enhancement by Using FACTS Controllers
33	12PHDEE-19	Radhakrishna Mahajan	A. Q. Ansari Leena G.	Voltage Profile Enhancement And Transmission Loss Minimization Incorporating Unified Power Flow Controller
34	13PHDEE-04	Md. Ehtesham	MajidJamil	Control Strategies for PV System in Distribution Network
35	13PHDEE-06	Mohd Faisal Jalil	Shahida Khatoon	Modeling, Simulation and Analysis of Solar Photovoltaic Array under partial shading conditions
36	13PHDEE-07	Mohd Tauseef Khan	A. S. Siddiqui	Transmission Management in Deregulation Power System
37	12PHDEE-11	Mohammad Shariz Ansari	Manaullah	Techno-Economic Investigations Of Renewable Energy Options For Islands
38	11PHDEE-36	Yudhishtir Pandey	Naimul Hasan Ibraheem	Evaluating Nodal Prices and Decomposition in Power System
39	13PHDEE-10	Shaik Muhammad Suhail Hussain	Ikbal Ali	Economic Dispatch for Stable Operation of Microgrids
40	11PHDEE-19	Mohammad Saood	Haroon Ashfaq	Design and Modeling of a Standalone Hybrid Wind and Micro-Hydro Power System
41	11PHDEE-27	Annu Govind	Mini S.Thomas	Active Power Filters for Harmonics Reduction in Distribution System
42	11PHDEE-08	Sapna Katiyar	A. Q. Ansari Ibraheem	Ant Colony Optimization Based Adaptive Control System

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43	36	KaukabNaz	Shahida Khatoon Ibraheem	GSM Based Control Of Autonomous Mobile Agents
44	10 PHDEE-19	Aziz Ahmad	A. S. Siddiqui	Performance Analysis of Networked Control System
45	11PHDEE-13	Neeraj Khera	Shakeb A. Khan Tariqul Islam	Development of real Time Condition Monitoring and Maintenance System
46	11PHDEE-33	Md. Danish Equbal	Shakeb A Khan Tariqul Islam	Electronic Data Analysis using Soft Computing Techniques
47	10 PHDEE-06	Lokesh Kumar	Tariqul Islam	Nano structure Active Moisture Sensor fabricated by Thin Film Technology
48	10 PHDEE-08	Md Firoz Alam Khan	Tariqul Islam Shakeb A. Khan	Measuring the moisture content of transformer oil using thin film Sensor
49	12PHDEE-02	Amit Kumar Sharma	Arunesh Kr. Singh Ibraheem	Soft computing techniques for modeling simulation and analysis of Eddy Current Braking System
50	11PHDEE-16	Nitin Gupta	Mini S. Thomas Iqbal Ali	Integration, Evaluation and Security Analysis of Smart Metering Infrastructure
51	13PHDEE-01	Ankur Singh Rana	Mini S. Thomas Nilenjan Sen Roy	Performance analysis of wide area measurement and control systems
52	12PHDEE-10	Mohammad Shahid	Shahida Khatoon Ibraheem	Optimal Control Strategies For Unmanned Aerial Vehicle
53	12PHDEE-07	Md Rahat Mahboob	Tariqul Islam	Development of Integrated Sensor for Wireless Humidity Detection
54	12PHDEE-12	Mohammad Zia Ur Rahman	Tariqul Islam	Study of Constant Phase Element for Sensor Development
55	10 PHDEE-18	Upendra Mittal	Tariqul Islam A. T. Nimal	Design and Development of SAW (Surface Acoustic Wave) Based Chemical Vapor Sensor
56	11PHDEE-31	Amit Gangopadhyay	Tariqul Islam Zaheeruddin	Design and Development of Capacitive Vapor Sensor with Necessary Signal Conditioning
57	12PHDEE-03	Anwar Ulla Khan	Tariqul Islam	Design and Analysis of Micro Controller based Signal Conditioning Circuit for Thin Film Humidity Sensor

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58	13PHDEE-08	Nitin Kumar Pal	Arunesh Kr. Singh D. K. Chaturvedi	Adaptive Fractional PID Controller for Speed Control of Induction Motor
59	11PHDEE-26	Reshma Ehtesham	ShahidaKhatoon Ibraheem	Design of Intelligent Control Strategies for Wind Power System
60	10 PHDEE-05	Koyel Datta Gupta	A. Q. Ansari P. C. Saxena	Hybrid Channel Allocation in Wireless Networks Using Soft Computing Concepts
61	10 PHDEE-14	Seema Arora	Mini S. Thomas V. K. Chandana	Simulation of Multi-Structured Broadband Over Power Lines System
62	44	Sunita Prasad	Zaheeruddin D. K. Lobial	Multi objective Optimization of QoS Based Multicast Routing Wireless in Ad Hoc Network
63	10 PHDEE-03	Bhasker Sharma	Zaheeruddin InduUpreti	Tuning and Reliability Analysis of Fuzzy Controllers
64	11PHDEE-14	Laxman Singh	Z.A. Jaffery Zaheeruddin	Automated Detection and Classification of Tumor from Medical Imaging
65	11PHDEE-25	Zeeshan Ahmad Abbasi	Z. A. Jaffery	Design and Development of Equalizer for Time Varying Channels
66	11PHDEE-04	Sumit Kumar	Shabana Mehfuz	Resilience Mechanisms For Survivable Mobile Ad-Hoc Network
67	11PHDEE-05	Gauri Katiyar	Shabana Mehfuz	Hybrid Intelligent System For Handwritten Character Recognition
68	12PHDEE-05	Bharat Bhushan Sharma	Munna Khan	Design and Development of a System to Modulate Perceptive Acoustic Effect
69	13PHDEE-06	Mohammad Rashid Ansari	A. Q. Ansari	A hardware Simulation Framework for 3-D Network -on-Chip (NoC)
70	11PHDEE-15	Aruna Pathak	Zaheeruddin	Maximizing the Lifetime of Wireless Sensor Network Using Soft Computing Approach
71	12PHDEE-15	Mukesh Kumar Verma	Z. A. Jaffery Ibraheem	Analysis Of Power Line Channels For Broadband Communications

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72	12PHDEE-21	Shaheen Khan	Z. A. Jaffery	Development Of Low Power VLSI Techniques For Energy Efficient Digital Signal Processing
73	12PHDEE-13	Mohd Tauheed Khan	Munna Khan Mohammad Hasan	Design and Optimization of Carbon Nano Tube FET based biomedical circuits
74	13PHDEE-13	Kashif Islam Khan Sherwani	Munna Khan	Design and Development of Wearable EXOSEKELETON System
75	12PHDEE-14	MosarratJahan	Munna Khan	Recording And Analysis Of Sub-Auditory Vocal Signals
76	13PHDEE-03	Manoj Kumar Singh	Shahida Khatoon	Design, Development and Analysis of Wireless Sensor Network for Telemedicine System
77	12PHDEE-23	Usha Tiwari	Shabana Mehfuz	Robust Data Compression Schemes For Wireless Sensor Network
78	13PHDEE-11	Shivaji Sinha	Shabana Mehfuz	Design of Reliable Transmission Protocol for Wireless Body Area Networks
79	R1420002	Kamini Garg	Shahida Khatoon	Optimal and Robust Controller Design for Autonomous Systems
80	R1420005	Anirudh Dube	MajidJamil M. Rizwan, DTU	Protection Challenges in Solar Photovoltaic System
81	R1420007	Irshad	Z. A. Jaffery	On some Aspects of Thermogram Image Processing and Its Applications
82	R1420009	Himanshu Chaudhary	Shahida Khatoon	Intelligent Controllers for Optical Fine Point System
83	R1420012	Abhinav Saxena	Arunesh K. Singh	Sensorless Control of Doubly fed Induction Machine using Intelligent Technique
84	R1420014	Beenish Tauheed	Shakeb A Khan	Sensor array data Interpretation using Soft Computing Techniques
85	R1420020	KaziJabed Akram	Tarikul Islam Akil Ahmad	Development of Fibre Optic Sensing Techniques for Structural Health Monitoring

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86	R1420021	Altaf Alam	Z. A. Jaffery	Development and Analysis of Vision Based Autonomous Land Vehicle Control System
87	R1420023	Gyanesh Singh	A. Q. Ansari Swati Aggrawal	Neutrosophic and Type-2 Fuzzy Sets: Mathematical Equivalence, Classification and Applications
88	R1420056	Shufali Ashraf Wani	Shakeb A Khan	Transformer fault diagnosis Based on Dissolved Gas Analysis (DGA)
89	R1420063	Mohammad Kaleemullah	Sheeraz Kirmani	Optimal operating strategies for the integration of distributed power generation with micro grid
90	R1420069	Sirdeshmukh Shaila Parveen Syed Maqsood Ali	Munna Khan	Assessment and Monitoring of Healing of Bone Fractures Using Non-Invasive Techniques
91	R1420084	IramAkhtar	Sheeraz Kirmani Prof. Majid Jamil	Integration of Renewable Energy Sources in Microgrid with Power Quality Improvement Features
92	R1440014	Gagandeep Kaur	A. Q. Ansari Mohammad S. Hashmi	Signal Processing Applications using Current Mode Building Blocks
93	---	Ibrahim Imbayah Khlefah	Manauallah Haroon Ashfaq	Embedded control system for integration of renewable energy sources into grid.
94	---	Amged Sayed Abdelmageed Mahmoud	Munna Khan	Rebust Control of Dynamic Systems Via Switched Fuzzy Control System

### Research Associates

S. No.	Name of RA
1	Anwarullah Khan
2	Mohammad faisal
3	AzeemZaidi
4	Nadeemahmda
5	Narmada bhaskar

b) From other Institution /universities:

None