RESUME

1. **Name** **:Dr Akhilesh kumar Mishra**
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   Rajkiya Engineering College Ambedkar Nagar,
   Ambedkar Nagar-224122 (U.P.) India
3. **E-mail** **:** director@recabn.ac.in and akhileshmishra1965@gmail.com
4. **Mobile** **:** +91-9225611150 and +91-8329196018
5. **Date of Birth** **: 14-10-1965**
6. **Total Experience** **: >25 Years**
7. **Highest Qualification** **: PhD in Electrical Engineering**
8. **Area of Experience:**

- Project Management, Design, Development, Testing and Trial of Missile Launchers
- Airworthiness Certification and Production support for Avionics equipments of Jaguar and Su-30 Aircrafts
- Development of Radar Power Supply System SF Radar and MAP Radar
- Development of Miniature High Density Multi Output Mill Grade DC-DC converter
- Development of Renewable Energy Sources
- Techno-managerial planning, development, execution, monitoring, testing and trial of projects
- Technical Services Support as Human Resource Manager and Technical Staff officer
- Procurement and Financial Management of Projects
- Group level and organization level administration management
- Event Management
- Assessment of firms and Registration
- Student management and course coordinators of Power Electronics, Electrical Machine and Communication System
- Student Project Guidance and Supervision
- Technical Researcher and academician
- Administrative Experience as Officiating Establishment Chief; Group Head; Project Officer; Officer in-Charge- Admin, Account, MT, Rajbhasha; Programme Co-ordinator NSS etc

Paper publication and presentation in conferences and seminar for knowledge enhancements.

9. **Achievements in brief:**

1. No of DRDO major projects: **06**

(Akash Missile, AAD Missile, Nirbhay Missile, AL Helicopter NAG Missile, Jaguar and Su-30 Aircrafts)

2. Membership of Professional bodies: **02**
3. No of papers published: **30**
   a. International Journals: **04**
   b. National Journals: **02**
   c. International Conferences and seminars: **07**
   d. National Conferences and Seminars: **11**
   e. Hindi papers and articles: **09**
   f. Article in Magazine: **01**
4. No of Patents filed: **01**
5. No of student projects guided: **04**
6. No of Courses Taught: **12**
7. No of Conferences, seminars and workshops attended: **28**

10. Educational Achievements:

Examination Passed	University/ Board/ Institute	Passing Year	Marks Obtained	Division	% of Marks	Subject
High School	U. P. Board	1982	390/500	**First Hons**	78%	Science
Intermediate	U. P. Board	1984	340/500	**First**	68%	Science
B.Sc.	KNI Sultanpur	1986	490/900	Second	55%	PCM
B.Tech.	KNIT, Sultanpur	1990	4458/6000	**First**	74.3%	**Electrical Engg.**
M.Tech.	I.T., B.H.U.	1992	NA	**First**	CGPA 7.0 (65%)	**Power Electronic**s
Ph.D.	I. T., B.H.U.	Degree Awarded in **2004**				
GATE		1990	**92.6 Percentile**		Electrical Engg.	

11.Career Progression:

Name of Employer	**Designation**	**Period**		**Pay Scale and Basic**
		From	To	
V.E.S's.I.T., Bombay-71	Lecturer	04/01/93	31/10/93	Rs3500/-Fixed
I.T., B.H.U.	SRF	10/11/93 01/12/94	31/08/94 21/04/97	Rs.3000/-+HRA
K.N.I.T., Sultanpur	Research Associate	01/09/94	30/11/94	Rs.4300/- Fixed
NERIST, Nirjuli, Itanagar, (A.P.)	Lecturer	24/04/97	23/07/999	Rs.8000-13500
DRDO	Scientist 'C'	31/07/1999	29/09/2001	Rs 10000-15200
DRDO	Scientist 'D'	01//10/2001	30/06/2008	Rs.12000-16500
DRDO	Scientist 'E'	01/07/2008	30/06/2015	PB4(37400-67000)+GP8700
DRDO	Scientist 'F'	01/07/2015	Continue	Level 13A, Basic Rs.161300/- (CTC-2.5 Lakhs per month)

12. Work Profile and Achievements at R&DE (ENGRS) Pune:

Project Execution:

Responsible for development of Launchers and power supplies for various missiles and weapons systems being indigenously developed by DRDO. Involved in design, development, realization, testing, maintenance and repair and trials of Missile Launchers and Power Supplies for following projects undergoing at R&DE(E):

(1) Missile Launcher for Akash project.
- (a) Involved in development of Akash Air Force Launcher
- (b) Environmental Testing of Electronics Equipments
- (c) Acceptance Tests at Vendor premises
- (d) Participated in User Trial at **Pokharan**
- (e) Participated in User Trial at **Balasore**
- (f) Operation, repair and maintenance of the launcher

(2) Missile Launcher for Project Advanced Air Defence
- (a) Involved in modification of AD Launcher
- (b) Operation, repair and maintenance of the launcher

(3) Missile Launcher for project Nirbhay
- a) Design, simulation and Development of **Electrical Servo Drive**
  - a. For Elevation of Heavy launch beam
  - b. For Platform Leveling Outriggers (04 No)
  - c. For sliding of Missile containers(04 No)
  - d. First Time Induction Motor used in Outriggers in place of DC motors.
- b) Verification of Drive operations with local console and remote console
- c) Calculation of power requirement and finalization of power conditioning unit and DG set

d) Preliminary design review and Critical design review
e) Processed tendering, conducted TEC and TPC of the project
f) Organised Flight Readiness Review Committee Meeting
g) Prepared System Functionality Checks document and reviewed Flight Readiness Review Document
h) Organised Acceptance Test and System Functionality Checks for performance evaluation
i) Conducted Mobility Trial at Pune-Mumbai Highway and Ghats to prove the roadability of the launcher
j) Conducted Track Trial of the Launcher System at NCAT, VRDE Ahmednagar
k) Conducted Tip-off experiments with 2-lug missile configuration at R&DE and ADE to verify the safe launch of missile without hitting the container tip
l) Mechanical and electrical Integration of FCCS with launcher and verification of availability of conditioned power supply at FCCS
m) Integration of Missile with launcher
   a. Loading & unloading of missile in the container with the help of crane and loading trolley and replenishment system on launcher
   b. Cable routing, grounding connections, power supply health monitoring and articulation of loaded launcher
n) Processed Requisition, Sanction, Approval, Tendering, TEC, TPC and manufacturing and testing of New containers and guide rails for fixed fin missile configuration and 3-lug missile configuration
o) Processed Requisition, Sanction, Approval, Tendering, TEC, TPC for AMC of the Launcher
p) Readiness and Transportation of the Launcher for Integration with FCCS and Missile System during launch & VIP Visits,
q) Responsible as team leader for launcher during First Flight Trial Campaign at Balasore with following achievements:
   a. Logistic and resource management
   b. Loading and unloading of standby and test missiles in the container
   c. Loading and unloading of the container on the launcher
   d. Alignment of the launcher at Launch pad and marking
   e. Drilling of holes for Grouting of bolts with cement work for holding jet deflector during firing with the help of turn-buckle and shackles.
   f. Power supply availability, grounding, and health monitoring of Electrical drive and power supply of the launcher
   g. Liaison with instrumentation team
   h. Articulation of launcher with electromechanical drive in vertical position for firing

(4) Missile Launcher for project MRSAM:

i) Preliminary Design of Electrical System

(5) Hub Motor using Slip-ring Induction Motor

a. Conceptualize Scheme
b. Theoretical Analysis of the scheme
c. Applied for patent of the scheme.

(6) Development of 5kW Wind Mill for High Altitude Application

i) Requirement analysis with High Altitude Area Survey carried out
ii) Specification with testing requirement finalized
iii) Procurement Process executed
iv) Development is going on

(7) Hybrid Power Generation System for High Altitude and Low Temperature

i) Requirement for 10kW Solar, 10kW Wind and 10 kW Fuel cell
ii) Specification finalized
iii) Preparation of presentation for Technology Council
iv) Preparation of feasibility report as per PPFM 2016

Administrative Responsibility at R&DE (ENGRS) Pune:

a. Team Leader during Akash User Trail at Pokharan and Balsore
b. Team Leader during Nirbahy Flight Trail at Balasore
c. Team Leader during integration of Missile with launcher of Nirbhay at ADE Bangalore
d. Group Head, Director Secretariat Jan 2009-June 2010
e. Group Head & Rajbhasha Adhikari from July 2010-July2013
f. Technical Staff Officer to Director Jan 2009-June 2010
g. Chairman, Apprentice Selection Committee 2008
h. Departmental Expert for DRTC assessment Board 2009 & 2011

i. Presiding Officer of Board for prevention of subletting and illegal commercial activities at residential accommodation at DRDO estates at R&DE (ENGRS) DIGHI, PUNE-15 for the period from 01jan2011 to 31 Dec 2011
j. Member of Local and Special Purchase Committee
k. Contract Officer from July 2011 to Dec 2011 and standby contract officer from Jan to June 2011
l. Group Quality Leader of ADSG for 2011-2012
m. Conducted 07 number of Workshops in Hindi for R&DE(E) Employees during 2010-2011
n. Conducted National Level Seminar in Hindi on Behalf of Pune based DRDO Laboratories in 2010-11
o. Conducted one week National Level CEP Course on 'Advanced Course in Electromechanical Servo Derive" in Sept 2011
p. Conducted one week National Level CEP Course on 'Power Electronics for Defence Application" in Sept 2015
q. Vendor assessment and registration
r. Integrated Management Services:
1. Conducted National Level Industry meet,
2. Implementation of Employee Capability System,
3. Implemented TNI Software,
4. Managed Student Training, Student Projects, CEP courses etc.

13. Work Profile and Achievements at Regional Centre for Military Airworthiness, Korwa:

Project Execution:

Certification of avionics equipments of Jaguar and Sukhoi-30 Aircrafts was carried out. Production support of Avionics equipments of Jaguar and Su-30 was extended to HAL during modification and defect investigation. Certification of design, development, modification, Defect investigation, Up-gradation etc of the following equipments/projects and Coordination carried out between HAL, DGAQA, DRDO, IAF and Private Vendors in following projects.

i) High Voltage Power Supply for COMED, Jaguar project (indigenous development)
ii) Low Voltage IFU Power Supply for COMED, Jaguar Project(indigenous development)
iii) Lower and Upper Combiner for HUDWAC, Jaguar Project(indigenous development)
iv) Lens Assembly of HUDWAC (Head up Display and weapon aiming Computer), Jaguar Project (indigenous development)
v) UNA-82 (Navigation & Attack Unit) for Jaguar Project
vi) HUDEU for Jaguar Project (Head Up Display Electronic Unit)
vii) MFD for Jaguar
viii) Up gradation of DARIN-I (Display Attack Ranging and Inertial Navigation-I) and DARIN-II System
ix) SSFDR (Solid State Flight Data Recorder) for Sukhoi-30 Aircraft (Indigenous Development)
x) MFD (Multi Functional Display) for Su-30 A/C
xi) Sighting System for Advanced Light Helicopter -NAG project (Indigenous Development)

Reports/Lectures/Presentation Regional Centre for Military Airworthiness, DRDO, Korwa:

1. Report on High Voltage Power supply developed by Albacom, UK for COMED, Jaguar Aircraft.
2. Report on Torquer motors used in Sighting system for ALH-NAG Project
3. Report on Observation on Environmental Test report submitted by IRDE Dehradun for Sighting System for ALH-NAG project.
4. Preparation and certification of Technical Specification of IFU Low voltage power supply developed by Versabyte, Bangalore for Jaguar Aircraft.
5. Preparation and certification of Qualification Test Procedure Document of IFU Low voltage power supply developed by Versabyte, Bangalore for Jaguar Aircraft.
6. Preparation and certification of Technical Specification of Combiners of PDU of HUDWAC, Jaguar Project developed by OLF Dehradun.
7. Preparation and certification of QTP document of Combiners of PDU of HUDWAC, Jaguar Project developed by OLF Dehradun.
8. Preparation and certification of Qualification Test Procedure Document for Sighting System for ALH-NAG project developed by IRDE Dehradun.
9. Preparation and certification of System Specification of SSFDR for Su-30 developed by SLN Technology, Bangalore.
10. Preparation and certification of Build of Material document of SSFDR for Su-30 developed by SLN Technology, Bangalore.
11. Preparation and certification of Acceptance Test Procedure Documents of Modules of SSFDR for Su-30 developed by SLN Technology, Bangalore.

12. Preparation and certification of Specification Documents of Automatic Test Equipment (ATE) of SSFDR for Su-30 developed by SLN Technology, Bangalore.
13. Preparation of report on observation of Software Modification by SDI, IAF of DARIN II-Jaguar Project.
14. Delivered Lecture/Presentation on Low voltage power supply developed by Versabyte, Bangalore for IFU of COMED, Jaguar Aircraft.
15. Delivered Lecture/Presentation on Jaguar Aircraft power supply as per MIL-STD 704D
16. Delivered Lecture/Presentation on solution of software bug in Flight Data Recorder of Jaguar Aircraft
17. Delivered Lecture/Presentation on Solid State Flight Data Recorder for Su-30 Aircraft.
18. Delivered Lecture/Presentation on modifications of Smart Multifunctional Display used in Su-30 Aircraft.
19. Delivered Lecture/Presentation on Sighting System for ALH-NAG

Administrative Responsibility at RCMA, DRDO, Korwa:

(1) Officiating Head as Chief Resident Engineer.
(2) Oi/C Rajbhasha
(3) Oi/C Welfare fund
(4) Oi/C Motor transport
(5) Oi/C Sanitation Control
(6) Oi/C store
(7) Oi/C Admin
(8) Chairman of Departmental Purchase committee

14. WORK PROFILE AND ACHIEVEMENTS at LRDE, DRDO, Bangalore:

Project Execution:

1. AIR DEFENCE PROGRAMME

(A) Development of Sward Fish Radar (SF RADAR)

a) Installation and commissioning of 2-MVA Sub-station at Kolar site
b) Installation and commissioning of 500kVA and 1500kVAgenerators and trandformers at Kolar site
c) Operation, Inspection, Maintenance and repair of No Break System, Rectifier Shelter and DG sets at Kolar site

(B) Development of Multi Aperture Radar (MAP RADAR)

a) Assembly and Fabrication of 200-kVA UPS
b) Operation, Inspection, Maintenance and repair of 200-kVA DG sets at Kolar site
c) Testing the 200-kVA DG set
d) Grounding layout and routing of power cables at Yelhanka site

Preparation Of Reports:

(1) Report on requirement of power supply at Kolar site.
(2) Report on power supply at Yelhanka site.

Administrative Responsibility:

(1) Member Hindi Committee
(2) Member Departmental purchase committee
(3) Member of Technical Evaluation Committee for generators.

15. Work Profile and Achievements at Naval College of Engineering, INS Shivaji, Lonavla:

I) Instructor Responsibility:

As Course Instructor of the following subjects:

1. **ELECTRICAL MACHINES,** B.Tech,
2. **POWER SYSTEM ENGINEERING** B. Tech
3. **POWER ELECTRONICS** to Naval Officers
4. **NETWORKS** to Naval Officers

As Project Guide:

(1) Guided Electrical Engineering Final year students on their project on **'SLIP-POWER RECOVERY INTO DC LINK OF INVERTER FED INDUCTION MOTOR'**.

(2) Guided Electrical Engineering Final year students on their project **"Design and Fabrication of a Microprocessor Based Slip-Power Recovery Scheme for Induction Motor Drive"**

(3) Guided Electrical Engineering Final year students on their project "**Design of a 33kV Substation for INS Shivaji**"

II) Administrative Responsibility at Naval College of Engineering, INS Shivaji, Lonavla:

1. Lab Oi/C Power Group of Electrical Lab
2. Member of DLA recruitment committe.
3. Lab Oi/C Microprocessor and Power Electronics Lab
4. Oi/C of industrial experience training on Power Sysytem to Electrical Officers:
   i) Training visit at Bhabha Atomic Research Centre at Chembur, Mumbai in year 2000
   ii) Training visit at Nuclear Power Corporation Ltd in year year 2000
   iii) Training visit at Bhabha Atomic Research Centre at Chembur, Mumbai in year 2001
   iv) Training visit at Tata hydro power Generating station, Khopoli in year 2001

III) Sailing and Experience of Naval Ships and Submarines:

1. One day sailing on INS Shakti upto 30 Nautical mile
2. Experience of aircraft carrier INS Virat Ship
3. Experience of Sub Marine Vijay Sindhu

IV) Research Work carried out at Naval College of Engineering, INS Shivaji, Lonavla :

1. Development of experimental setup for Single switch controlled slip-power recovery drive.
2. Submission of Technical paper to IEEE Conference ob Energy, Automation, Information Technology at IIT, Kharagpur

16. Work Profile and Achievements as Lecturer at NERIST, Itanagar, AP:

I) FACULTY RESPONSIBILITY:

As Course Coordinator and Co-coordinator of the Technical Courses:

1. **COMMUNICATION THEORY** and **ELECTRICAL TECHNOLOGY** to Electrical Engineering B.Tech., Autumn Semester, 1997.
2. **POWER ELECTRONICS** and **ADVANCED ELECTRICAL MACHINES** to Electrical Engineering B.Tech , Spring Semester, 1998.
3. **APPLICATION OF ELECTRONICS IN INDUSTRIES** and **NETWORK ANALYSIS** to Electrical Engineering Base Module and B.Tech, Autumn Semester, 1998.
4. **POWER ELECTRONICS** and **RURAL ELECTRIFICATION** to Electrical Engineering Diploma and B.Tech , Spring Semester, 1998.

As Project Guide:

Guided Electrical Engineering students on **'DESIGN OF FUZZY LOGIC CONTROLLER FOR 3-PHASE SLIP RING INDUCTION MOTOR'**, 1998-1999.

II) <u>ADMINISTRATIVE RESPONSIBILITY:</u>

1. **Program Coordinator**, NSS, (I/C), NERIST Unit, from July 1998 to January 1999.
2. **Program Officer**, NSS, NERIST Unit, from Dec' 97 to January 1999.
3. **Lab Oi/C Power Electronics** from Nov' 97 to July 1999.
4. **STUDY TOUR I/C** for pre-final year B.Tech. (EE), 1997 and pre-final year B.Tech. (EC), 1998.
5. **Member of departmental purchase committee**, Electrical Engg., NERIST
6. **Executive Member of** NERIST faculty club.
7. **General Secretary,** NERIST Shiv Mandir Committee, NERIST during 1997-98

III) Preparation Of Materials/ Books:

1) Preparation of Handouts for Laboratory Experiments for Electrical Technology.
2) Preparation of Handouts and course material for Communication Theory.
3) Preparation of Handouts and course material for Advance Electrical Machines
4) Preparation of Handouts and course material for Power Electronics I.
5) Preparation of Handouts for Laboratory Experiments for Advance Elect. Machines
6) Preparation of Handouts for Laboratory Experiments for Power Electronics I.
7) Preparation of Handouts and course material for Application of Electronics in Industries.

Work Profile and Achievements as Senior Research Fellow at IT BHU, Varanasi:

1. Literature survey on Research Topic 'Slip-power Recovery Schemes for Induction Motor Drives' was made. Literature was also surveyed on Digital Controlled, Analog Controlled and Microprocessor Controlled firing circuits and control circuits for Power Switches.
2. Based on the literature survey and slip-ring induction motor available in Electrical Machine Lab in the department of Electrical engineering, I.T., B.H.U., a 'Slip-power recovery Drive' was designed and **a PC based 3-phase firing circuit was developed which is published** in the proceedings of All India Seminar on Power Electronics and Applications, organised by the Deptt. of Electrical Engg., AMU, Aligarh, during 13-14 Nov' 95.

3. On discussion with experts and L&T, engineers problems were find out and **a new 'Slip-power recovery scheme for induction motor drive' is proposed** which seems to eliminate some problems. This new scheme is published in the proceeding of National Conference on Electric Drives & Control for Transport systems, organised by Deptt. of Electrical Engg., SATI (Engineering College), Vidisha, MP India, during 16-18 Jan'97.
4. The proposed new scheme was analyzed using PSPICE software and results were encouraging. **A three-phase analog firing circuit** was developed for the testing of the proposed scheme.
5. For the development of the experimental set up in I.T., B.H.U., correspondence was made to suppliers and dealers. Set up was not developed because the individual joined as Lecturer in NERIST on 24th April 1997.
6. Conducted Laboratory classes of Power Electronics and Electrical Machine for B.Tech. Students as assigned by Deptt. of Electrical Engineering.

Publications Details:

(a) Papers in Refereed Journals (02 in National and 04 in International)

S.No.	Author(s)	Year	Title	Complete Reference of Journal
1.	Akhilesh Kumar Mishra and Dr A K Wahi	2004	Performance Analysis and Simulation of Inverter-fed Slip-power Recovery Drive	Institution of Engineers (India)
2.	V V Parlikar, P M Kurulkar, Dr A K Mishra, A N Kulkarni,	2012	An Innovative Scheme for Reduction of Power Requirement of Electromechanical Servo Drive System Used in Heavy Load Weapon System Articulation	IEEE Explorer
3.	V V Parlikar, P M Kurulkar, Dr A K Mishra, A N Kulkarni, C Ganguly	2012	Electromechanical Simulator for Weapon System Launching Platform	IEEE Explorer
4.	A K Mishra, M K Roy, V S Moholkar and Rashmi Mishra	2012	BLDC Technology and its Application in Weapon System Launching Platform	International journal of Science and Technology, Vol.4, No.1 (Special Issue)
5.	A K Mishra, A N Kulkarni, V S Moholkar	2013	Automatic Leveling Mechanism for Weapon System Launching Platform	IEEE Explorer
6.	Dr. A. K. Mishra, A. Jalali, K. Kulkarni, A.Nalawade, Shikha Mishra	2015	Mobile CMS Platform for Android	Journal of Golden Research Thoughts on National Conference on Emerging Trends in Information Technology & Management, Western College, Navi Mumbai

(b) Papers published in Conference Proceedings (07 International, 11National)

S.No.	Author(s)	Year	Title	Name and Place of Conference
1.	Dr A K Wahi and Akhilesh Kumar Mishra	1995	A PC based three phase firing angle controller for slip power recovery scheme	All India Seminar on Power Electro. & Applications, Z.H.C.E.T., AMU,Aligarh(U.P.),
2.	Akhilesh Kumar Mishra and Dr A K Wahi	1997	A new slip-power recovery drive for inverter-fed induction motor drive	Proc. of National Conference on Electric Drives & Control for Transport Systems, SATI, Vidisha, M.P
3.	Akhilesh Kumar Mishra and Dr A K Wahi	2001	A Single Switch Controlled Slip-Power Recovery in Inverter Fed Induction Motor for Medium Power Application	Proc. of **International Conference** on Energy, Automation and Information Technology, IIT, Karagpur, India.
4.	Dr Akhilesh K Mishra	2007	Validation of Reliability After Rectification of Software Bug in FDR - A Case Study	Proceedings of **IEEE International Conference** on Reliability & Safety Engineering organised by IIT Kharagpur

5.	Dr Akhilesh K Mishra	2007	Life Evaluation of Less Efficient High Voltage Power Supply Developed Through Reverse Engineering	Proceedings of **IEEE International Conference** on Reliability & Safety Engineering organised by IIT Kharagpur
6.	V V Parlikar, A K Mishra, M K Roy, K P Rathod	2007	An Integrated Power Supply	Proc. of **IEEE International Conference** on Power System organised by CPRI Bangalore
7.	Dr Akhilesh K Mishra	2007	Airworthiness Certification of Design and Development of Low Voltage Power Supply Module	Proc. of 23rd National Convention on Electronics and Telecommunications organised by Institution of Engineers (India), Pune
8.	Dr Akhilesh K Mishra	2007	Measurement Of Performances From Prototype Circuit Of Self Slip-Power Recovery Drive	Proc. of 23rd National Convention on Electronics and Telecommunications organised by Institution of Engineers (India), Pune
9.	Dr Akhilesh K Mishra	2007	PWM Control Of Self Slip-Power Recovery Drive	Proc. of 23rd National Convention on Electronics and Telecommunications organised by Institution of Engineers (India), Pune
10.	Dr Akhilesh K Mishra	2007	Design of Step-Up Chopper for Self-Slip-Power Recovery	Proc. of 23rd National Convention on Electronics and Telecommunications organised by Institution of Engineers (India), Pune
11.	Dr Akhilesh K Mishra	2008	Design of Single Switch Controller for Self-Slip-Power Recovery Drive	Proc. of National Conference on Recent advances in Electrical Engineering Organised by NIT Hamirpur
12.	Dr Akhilesh K Mishra	2009	Optimised Performance Of Single-Switch Controlled Slip-Power Recovery Drive	Proc. of National Conference on Recent advances in Electrical & Electronics Engineering Organised by NIT Hamirpur
13.	V V Parlikar, P M Kurulkar, Dr A K Mishra, A N Kulkarni, C Ganguly	2011	Design of Electromechanical Outrigger System for Platform Leveling of Heavy Load Weapon Systems	Proceeding of National Conference on Recent Advances in Computational Techniques in Electrical Engineering (RACTEE-2011), at SLIET, Sangrur, Punjab
14.	V V Parlikar, P M Kurulkar, Dr A K Mishra, A N Kulkarni, C Ganguly	2011	Electromechanical Servo Drive System for Articulation of Heavy Load Weapon System Launching Platform	Proceeding of National Conference on Advances and Research in Electrical System Technology (AREST'11), at AIET, Jaipur
15.	V V Parlikar, P M Kurulkar, Dr A K Mishra, A N Kulkarni,	2011	An Innovative Scheme for Reduction of Power Requirement of Electromechanical Servo Drive System Used in Heavy Load Weapon System Articulation	Proceeding of **IEEE International Conference** on Process Automation, Control and Computing (PACC 2011), at CIT Coimbatore
16.	A K Mishra, M K Roy, V S Moholkar and Rashmi Mishra	2011	BLDC Technology and its Application in Weapon System Launching Platform	Proceedings of National Conference on Emerging Trends in Electrical & Electronics Engineering (ETEEE-2011), at KNIT Sultanpur
17.	V V Parlikar, A K Mishra, A N Kulkarni, V S Moholkar	2011	Electromechanical Simulator for Weapon System Launching Platform	Proceedings of 2nd **IEEE International Conference** on Current Trends in Technology, at NIRMA University, Ahmedabad
18.	A K Mishra, A N Kulkarni, V S Moholkar	2012	Automatic Leveling Mechanism for Weapon System Launching Platform	**1st International Conference** on Power and Energy in NERIST, Itanagar Arunachal Pradesh

(c) Paper published in Magazine:

1.	Dr A K Mishra	2009	My Tour to Port Blair	RDE Insight Magazine, Vol.1, Issue3

(d) Papers/Articles Published in Hindi

Sl No	Author(s)	Year	Title	Name of Conference/ Magazine
१.	डॉ ए के मिश्र	२०१०	ट्रेन सफर की साथिनियाँ	आर डी ई मैत्री पत्रिका अंक 13
२.	डॉ ए के मिश्र	२०१०	यू॰ पी॰ में सुनामी	आर डी ई मैत्री पत्रिका अंक 13
३.	डॉ ए के मिश्र	२०-२१ जन २०११	लाँचर में प्रयुक्त विद्युत यांत्रिक सर्वो ड्राइव	अखिल भारतीय संयुक्त राजभाषा संगोष्ठी, रक्षा अनुसंधान एवं विकास स्थापना (इंजीनियर्स) पुणे,
४.	डॉ ए के मिश्र	०५-०६ जन २०१२	भारतीय सामाजिक विकास में विज्ञान का योगदान	अखिल भारतीय हिन्दी संगोष्ठी, डी आर एल तेज़पुर
५.	डॉ ए के मिश्र	१२-१३ मार्च २०१२	भारतीय सुरक्षा - चुनौतियां एवं समाधान	अखिल भारतीय संयुक्त तकनीकी संगोष्ठी एच ई एम आर एल पुणे
६.	डॉ ए के मिश्र	२०११	लिफ्ट	आर & डी ई स्वर्णजयंती विशेषांक 'मैत्री' वार्षिक पत्रिका अंक 14
७.	डॉ ए के मिश्र	२०११	राम वनवास का तकनीकी विश्लेषण	आर & डी ई स्वर्णजयंती विशेषांक 'मैत्री' वार्षिक पत्रिका अंक 14
८.	डॉ ए के मिश्र	२०१२	श्रीरामचरित मानस के कुछ व्यावहारिक रोचक प्रसंग	आर डी ई मैत्री पत्रिका अंक 15
९.	डॉ ए के मिश्र	२०१२	भारतीय सामाजिक विकास में विज्ञान का योगदान	आर डी ई मैत्री पत्रिका अंक 15

Membership of Engineering Institutions /Societies

Name of Institution/ Society	Grade of Membership	Date of Election	Whether still a member
1. Society Of EMC Engineers (India)	LIFE MEMBERSHIP	APRIL 2006	YES
2. Institutions of Engineers (India)	Fellow Member	January'2007	YES

Conferences /Seminars/CEP Courses Attended:

S. No.	Organisation	Period	Particulars of Training
1.	Deptt. of Electrical Engg., AMU, Aligarh,	13-14 Nov'95	All India Seminar on Power Electronics and Applications
2.	I.I.T., Delhi and Hyatt Regency, New Delhi	08 -11 Jan'96	IEEE International Conference on Power Electronics, Drives and Energy Systems
3.	Deptt. of Electrical Engg., S.A.T.I. (Engineering College), Vidisha, M.P.,	16 -18 Jan'97	National Conference on Electric Drives & Control for Transport systems
4.	Deptt. of Electronics Engg., NERIST, Itanagar	19 -20May'97	International Conference on Telematics
5.	Deptt. of Electrical Engg., I.T., B.H.U., Varanasi,	29 -04Feb'00	IEEE Workshop on 'Supervisory control of Discrete Events Systems'
6.	Deptt. of Electrical Engg., I.I.Sc., Banglore	7-11Aug'00	Short term QIP course on 'Switched Mode Power Conversion'
7.	DRDO, Institute of Armament Technology, Pune	06-10Aug'01	Short term QIP course on 'Fibre Optic Smart Sensor'
8.	Deptt. of Electronics Engg., IIT Kharagpur	10-12Dec'01	IEEE International Conference on 'Energy, Automation and Information Technology'
9.	Regional Center for Military Airworthiness, Lucknow	11 -15 Nov'02	CEP course on 'Airworthiness Of Airborne Stores And Advance Systems Of Military Aircraft'

10.	Aeronautical Society of India and RCMA Chandigarh	03-04 Jan'03	Seminar on 'Technological Developments in Aeronautics & Its Impact on Maintenance'
11.	CEMILAC, Bangalore	21-25 Sept' 04	CEP course on "Airworthiness Certification"
12.	LRDE Bangalore	21-24 Feb06	International Conference on " Electromagnetic Interference and Compatibility"
13.	IIT Delhi	12-15 Dec'06	International Conference on "Power Electronics, Drives and Energy Systems-2006"
14.	ITM Mussorie	23-25Sept'08	Interactive Workshop on " Professional Approach for Feasibility Study and Project Planning for Higher Success in DRDO Projects"
15.	DL, Jodhpur	15-17Dec'08	Training course on "Radiation & Nuclear Disaster Management"
16.	NIT Hamirpur	26-27Dec'08	National Conference on "Recent Advances in Electrical Engineering"
17.	ISSA Delhi	27-31Jul'09	CEP on "System Analysis, Modelling & Simulation Of Defence Systems"
18.	NIT Hamirpur	23-24Dec'09	National Conference on "Recent Advances in Electrical & Electronics Engineering"
19.	SLIET, Sangrur, Punjab	25-26Feb2011	National Conference on Recent Advances in Computational Techniques in Electrical Engineering
20.	AIET, Jaipur	23-24April2011	National Conference on Advances and Research in Electrical System Technology
21.	CIT Coimbatore	20-22July2011	**IEEE International Conference** on Process Automation, Control and Computing
22.	KNIT Sultanpur	26-27Nov2011	National Conference on Emerging Trends in Electrical & Electronics Engineering
23.	NIRMA University, Ahmedabad	08-10Dec2011	2nd **IEEE International Conference** on Current Trends in Technology
24	NERIST, Itanagar Arunachal Pradesh	28-29Dec2012	1st International Conference on Power and Energy in NERIST
25.	Western College, Navi Mumbai 14	14 March2015	National Conference on Emerging Trends in Information Technology & Management,
26.	Indian Institute of Space Science & technology (IISST)	17-20 May2016	CEP on Automatic Control Systems Engineering with MATLAB/SIMULINK
27.	Indian Institute of Space Science & technology (IISST)	27-30 Dec2016	CEP on Automatic Control Systems Engineering & Design
28.	Naval Science & Technological Laboratory (NSTL), Vishakhapatnam	1st July 2017	Workshop on " Indigenous Li-ion Batteries for Special Applications"

Session Chaired:

1. National Conference on Recent advances in Electrical Engineering Organised by NIT Hamirpur26-27 Dec'2008
2. National Conference on Recent Advances in Computational Techniques in Electrical Engineering (RACTEE-2011), at SLIET, Sangrur, Punjab, 25-26 Feb 2011
3. National Conference on Advances and Research in Electrical System Technology (AREST'11), at AIET, Jaipur, 23-24 April 2011
4. राजभाषा वैज्ञानिक संगोष्ठी, अनुसंधान एवं विकास संगठन (इंजीनीयर्स), दिघी, पुणे 26 फरवरी 2008
5. राजभाषा वैज्ञानिक संगोष्ठी, अनुसंधान एवं विकास संगठन (इंजीनीयर्स), दिघी, पुणे 22 जनवरी 2009
6. अखिल भारतीय संयुक्त राजभाषा संगोष्ठी, अनुसंधान एवं विकास संगठन (इंजीनीयर्स), दिघी, पुणे, 21 जनवरी 2011

CEP Courses/Work Shop/ Industry Meet organized:

1. CEP Course on "Advanced Electromechanical Servo Drive Systems", Spt 2011 at R&DE (Engrs)
2. Industry Meet of 195 Indian Industries on 21 No 2013 at R&DE (Engrs)
3. CEP Course on "Power Electronics for defence application", Sept 2015, at R&DE (Engrs)

Extra Curriculum Activity during Student Life:

1. Organized 'Hindi Essay' competition in the session 1988-1989 during B.Tech. IIIrd year.
2. Literary convener in the session 1989-1990 during B.Tech. Final Year.

Computer Experience

During M.TECH DISSERTATION, following computer software were used:

1. For mathematical calculations and simulation **FORTRAN 77 (WATFOR77)** software was used.
2. For plotting curves and graphs, **GRAPHER** software was used.
3. For writing text, **CHIWRITER** was used.

During RESEARCH PERIOD, following software were used:

1. For hardware control, **ASSEMBLY LANGUAGE PROGRAMMING** was used.
2. For writing text, **WORD STAR (VERSION 4.0)** was used.
3. For simulation and transient analysis, **PSPICE** was used.
4. For plotting curves and graphs, **GRAPHER** software was used.

Following softwares are being used now days:

1. MATLAB
2. PSPICE
3. MICROSOFT WORD

Dr AKHILESH KUMAR MISHRA)