

Detailed Bio-data

Personel Information

Name in Full (in BLOCK letters) : **Dr. SATISH PAL SINGH RAJPUT**

Father's name : **Shri Vijai Singh Rajput**

Present Postal Address : **PROFESSOR,**
Department of Mechanical Engineering,
Maulana Azad National Institute of Technology,
Bhopal (M. P.) 462051

E-mail : rajputsps@manit.ac.in, spsrajput@gmail.com

Telephone : a) **+91-9826195978**(M) 0755-4051613(O)
c) Fax 0755-2670562

Nationality : Indian

Date of Birth : 11th November, 1967

Category : General

Date of Superannuation : 11th November, 2032

Educational qualifications

Name of Course/Level	Institute Where Studied &University / Board From Where Passed	Brief Description of Subject of Study / Specialization
Ph.D. (Mechanical Engg.) 2004	Barkatullah University, Bhopal.	Refrigeration and Air-Conditioning
M.E. (Mechanical Engg.) 1992	University of Roorkee(I.I.T. Roorkee)	Thermal Engineering
B.E. (Mechanical Engg.) 1989	Madhav Institute of Technology and Science (MITS), Gwalior / Jiwaji University Gwalior	Mechanical Engineering

Designation & communication address of the Head of the Institute, along with their Phone/Fax/Email: -

Director,

Maulana Azad National Institute of Technology Bhopal(M. P.) 462051

Ph. No. 0755-2670900

Fax: 0755 2670562

E-Mail: director@manit.ac.in

Administrative Experience

S.No.	From	To	Designation	Responsibilities
1	2021	Till Date	<i>Member D.R.P.C. Committee</i>	Attend of DRPC meetings, follow-up activities as per Senate norms for the different research degree activities
2	2018	2019	<i>Head of The Department (HOD), Mechanical Engineering Department</i>	To take care about the functioning of the department, evaluation system, coordination of the different academic and administrative activities
3	2015	2017	<i>Dean (Faculty Welfare)</i>	As prescribed in NIT act-2007 and its Statutes 2009
4	2015	2016	<i>Coordinator, Departmental Post Graduate and Research Committee (D.P.R.C.)</i>	Conduction of DPRC meetings, follow-up activities as per Senate norms for the different research degree activities
5	2014	2015	<i>Head of The Department (HOD), Department of Management Studies</i>	To take care about the functioning of the department, evaluation system, coordination of the different academic and administrative activities
6	2003	2012	<i>Member of Organising Committee of 1st to 9th Convocations.</i>	To maintain the discipline of the students during the convocation, Sitting arrangement and hospitality
7	2011	2012	<i>Chairman, Council of Wardens</i>	Supervision of various activities in the hostel sector and providing guide lines to the wardens
8	2009	2012	<i>Member Ph.D. Admission Committee</i>	For the verification of the documents and admission of Ph.D. Students and conduction of required tests /interviews

9	2009	2012	<i>Coordinator, Departmental Post Graduate and Research Committee (D.P.R.C.)</i>	Conduction of DPRC meetings, follow-up activities as per Senate norms for the different research degree activities
10	2005	2012	<i>Chief Warden, Hostel No. 5</i>	Supervision of the Hostel
11	2003	2011	<i>Professor In-charge of games and sports</i>	Conduction and supervision of various sports, games and physical education activities for the students
12	2006	2009	<i>Professor In-charge, Security</i>	Supervision of the Security services in the hostel and Institute premises
13	2006	2009	<i>Member of AIEEE Counselling Committee</i>	Conduction of the AIEEE Counselling for the U G Students
14	2001	2006	<i>Professor In-charge, Refrigeration and Air-Conditioning Laboratory of the Department</i>	Conduction of the experiments and research work.
15	2002	2006	<i>Department time-table In-charge</i>	Formulating and maintaining the departmental time table for the academic schedule
16	2002	2004	<i>Warden, Hostel No. 3</i>	Supervision of the Hostel
17	2001	2003	<i>Assistant Proctor</i>	To maintain the discipline among the students in the institute premises.
18	1997	1999	<i>Member, UG Admission Committee of Institute</i>	For the verification of the documents and admission of U G Students
19	1996	1998	<i>Professor In charge Badminton in sports committee</i>	To conduct sports and games for students of institute.

SCHOLARLY ACHIEVEMENTS:

A. National/ International Training programme/ workshop/ conferences/ symposium organized

S.No.	From	To	Institute/ Industry	Sponsored by	Name of the Course/Conference
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1.	28.09.02	29.09. 02	M.A.N.I.T, Bhopal	M.A.N.I.T, Bhopal	<i>International Conference on Recent Advances in Solar Energy Conversion Systems (ICSECS, 2002)</i>
2.	13.11.07	15.11.07	M.A.N.I.T, Bhopal	TEQIP, MANIT, Bhopal	National Workshop on IC Engines Research and Development
3.	11.08.08	22.08.08	M.A.N.I.T, Bhopal	MHRD/ MANIT, Bhopal	Summer School on Recent Applications of Thermal Engineering
4.	15.09.2010	M.A.N.I.T, Bhopal	SAE- MANIT Chapter, MANIT, Bhopal.	I.C. Engines & Automobiles	I.C. Engines & Automobiles
5.	24.07.10	26.07.10	M.A.N.I.T, Bhopal	M.A.N.I.T, Bhopal	<i>International Conference on Advances in Renewable Energy</i>
6.	14.03.11	19.03.11	M.A.N.I.T, Bhopal	Self- Sponsored	TrainingProgram onFluent – Ansys
7.	09.11.12	10.11.12	M.A.N.I.T, Bhopal	TEQIP-II, MANIT, Bhopal	National Workshop on “Recent Trends in Renewable Energy”.
8.	29.08.13	31.08.13	M.A.N.I.T, Bhopal	M.A.N.I.T, Bhopal	National conferences on Frontiers in Mechanical Engineering.
9.	29.01.2014	31.01.2014	M.A.N.I.T, Bhopal	TEQIP-II/ MANIT, Bhopal	<i>International Conference on Mechanical Engineering Emerging trends for Sustainability (ICMEETS)</i>

10.	27.11.2014	29.11.2014	M.A.N.I.T, Bhopal	TEQIP-II/ MANIT, Bhopal	<i>International Conference on Industrial, Mechanical and Production Engineering: Advancements and Current Trends (IC- IMPACT)</i>
11.	04.02.2016	06.02.2016	M.A.N.I.T, Bhopal	TEQIP-II/ MANIT, Bhopal	<i>International Conference on Trends in Industrial and Mechanical Engineering (IC- TIME)</i>
12.	15/09/ 2021	16/09/2021	M.A.N.I.T, Bhopal	Self-Sponsored	<i>International Conference on Mechanical Engineering and Managerial Applications for Productivity Enhancement and Marketability</i>

B.. National/International Training programme/workshop/conferences/symposium attended

S.No.	From	To	Institute/ Industry	Sponsored By	Name of the Course
1.	19.06.95	25.06.95	MITS, Gwalior	ISTE	ISTE Summer School on Environmental Pollution Control System Design.
2.	17.06.96	30.06.96	IIT, Kanpur	AICTE/ ISTE	New Trends in Refrigeration.
3.	16.06.97	29.06.97	MACT, Bhopal	AICTE-ISTE	Advanced Summer School on Computer Aided Manufacturing.
4.	07.07.97	20.07.97	MACT, Bhopal	ISTE	Summer School on Modern Manufacturing Techniques.
5.	08.12.97	13.12. 97	IIT, Delhi	MHRD	QIP Course on Computer Aided Maintenance

6.	11.05.98	22.05.98	IIT, Delhi	MHRD	QIP Course on Energy Conversion and Management
7.	24.05. 99	29.05. 99	IIT, Delhi	MHRD	QIP Short Term Course on Alternative Fuels and Low Emission Engines
8.	27.11.2000	08.12.2000	IIT, Delhi	MHRD	QIP Short Term Course on Energy-An IT Perspective
9.	30.10.2000	27.10.2000	MANIT, Bhopal	MACT,Bhopal	Educational Technology Cell- Object Oriented Programming in C++.
10.	9 th April, 2005	-	M.A.N.I.T, Bhopal	M.A.N.I.T Bhopal, V.N.I.T Nagpur & SGSITS, Indore	Preparing Young Minds for Enterprising Future
11.	22.12.2007	23.12. 2007	Tirupati (A.P) India	BhaktiVedanta Institute, Kolkata	Science and Spiritual Quest
12.	12.07.2008	13.07. 2008	Purdue University, West Lafayette, IN 47907-2034, USA	MANIT Bhopal	Update on Natural Refrigerants.
13.	11.08.2008	22.08. 2008 (Two Weeks)	M.A.N.I.T, Bhopal	MHRD, New Delhi.	Recent Applications of Thermal Engineering
14.	03.01.2009	04.01. 2009	M.A.N.I.T, Bhopal	R.T.I Cell, Bhopal	Right to Information Act - 2005
15.	27.02.2009	12.03.2009 (Two Weeks)	M.A.N.I.T, Bhopal	MANIT Bhopal	Solar and Wind Energy: Theory and Practice
16.	12.04.2010	15.04. 2010	M.A.N.I.T, Bhopal	M.A.N.I.T, Bhopal	ANSYS Fluent Software

17.	09.11.2012	10.11. 2012	M.A.N.I.T, Bhopal	M.A.N.I.T, Bhopal	Achieving Excellence
18.	10.01.2013	11.01. 2013	M.A.N.I.T, Bhopal	U.K. India Education Research Initiative (UKIERI)	Interactive Systems, Nanosolar Photovoltaics and Coatings for a Sustainable Built Environment.
19.	30.05.2014	31.05.2014	Indian Institute of Technology Indore, India	Indian Institute of Technology Indore, India	Measurement Techniques in Thermal Engineering: Recent Advances
20.	05.01.2015	07.01.2015	National Council for Training & Social Research	TEQIP PHASE- II M.A.N.I.T, Bhopal	Stress & Stress Management & Staff Development in Improving Enhancing Efficiency & Behavioural Skills
21.	28.04.2015	29.04.2015	National institute of technology, Tiruchirappalli	TEQIP PHASE- II M.A.N.I.T, Bhopal	Conclave on Academic Reforms (CAR 2015)
22.	10.11.2014	11.11.2014	Indian Power Management Academy	M.A.N.I.T, Bhopal	International Seminar on CFBC Technology Latest Trends and Advances
23.	06.06.2016	10.06.2016	Environmental Science and Technology 2016 Vol. 2	Houston, Texas, USA	To present the research paper in the international conference on “Performance Enhancement of Evaporative Cooling Technology in the Company of Lower Environmental Impact”
24.	08.03.2019	10.03.2019	GRIET, Hyderabad	Hyderabad, INDIA	Attend the 9 th ICMPC as Guest of Houner

C. CONTRIBUTION TO THE JOURNALS AND BOOKS:

	Details
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Book Authored	<ol style="list-style-type: none"> 1. Evaporative vapour compression air conditioning system (LAMBERT Academic Publishing) ISBN:978-620-2-05407-2 2. Thermodynamic Analysis of Year-Round Air-conditioning System (LAMBERT Academic Publishing) ISBN: 978-3-659-67391-7 3. Performance Analysis of Natural Draft Cooling Tower (Scholars Press) ISBN: 978-620-2-30200-5 4. Study of combined compression- Evaporative Air Conditioning System: Energy Saving and Thermal Comfort (LAMBERT Academic Publishing) ISBN: 978-6139870172 5. Life Cycle Analysis of Human Body in Indian Conditions, Scholar's Press, ISBN:978-3-659-83865-1 6. Heat Transfer Analysis of Mini Channel Heat Sink by using CFD, LAMBERT Academic Publishing, ISBN:978-620-4-20624-0
Editor in Chief	Indian Research Journal of Engineering and Applied Sciences
Editorships	
Peer reviewer for	<ol style="list-style-type: none"> 1. Saudi Journal of Biological Sciences, Elsevier Publication 2. International Journal of Exergy, Inderscience Publication 3. International Journal of Ambient Energy, Taylor & Francis 4. Applied Thermal Engineering, Elsevier Publication
Member of the International Advisory Board	Member of many International Conferences Advisory Board

D. Details of Honours and awards obtained

S.No.	Awards/Honour	Awarded By
1.	The Best Teacher Appreciation Certificate	Director, M.A.N.I.T, Bhopal on the recommendation of Honourable Chairman, BOG.
2.	Letter of Appreciation for the Conduct of 6 th convocation.	Registrar, M.A.N.I.T, Bhopal.

E. Details Of Foreign Visits:

S.No.	Country Visited	Duration	Purpose of Visit
1.	<i>U.S. A</i>	9 July 2008 to 17 July 2008.	1. To attend the short-term courses on Natural Refrigerants at Purdue University. 2. Present the Research paper in the 12 th International Conference of Refrigeration and Air Conditioning at Purdue University
2.	<i>China</i>	5 November 2009 to 11 November 2009	To present the Research paper in 6 th International Symposium on Heating, Ventilating and Air Conditioning, ISHVAC-2009, Southeast University, Nanjing, China.
3.	<i>Thailand</i>	5 th December 2012 to 10 th December 2012 (To be Visited)	To present the research paper in the international conference on “Aerospace, Automotive and Mechanical Engineering” (ICAAME-2012)
	U.S. A	June 6-10, 2016 in Houston, Texas, USA	To present the research paper in the international conference on “Performance Enhancement of Evaporative Cooling Technology in the Company of Lower Environmental Impact”

F. Ph.D. Thesis in Progress

S.No.	Name of Candidate	Title of Ph.D. Thesis	Status
1.	Bhavik Patel	Experimental and numerical investigations of heat transfer enhancement in heat exchanger tube with insets using nanofluids.	Pursuing (RDC is over)
2.	Ankit Kumar	Optimization of R-600a vapour compression refrigeration system using hybrid nano lubricant-based poly alkylene glycol and mineral oil.	Pursuing (RDC is over)
3.	Md. Jamil Akhtar	Refrigeration and Air conditioning	Pursuing
4.	Sakshi Naga	Refrigeration and Air conditioning	Pursuing

G. List of M.Tech Guided

S.No.	Name of Student	Year	Title of the Dissertation
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1.	Dheeraj Saxena	1998	Study of Heat Dissipation Phenomenon in Rapid Firing Gun and its effect on Barrel life
2.	Samaypal	1999	Design and Simulation of Refrigeration filled Solar Collector Space Heating System
3.	Prabhat Kumar Gupta	1999	Performance Investigation of Counter flow Tube-in Tube Heat Exchanger in 300-80 K temperature range
4.	Sameer Shyam Pathak	1999	Computer Simulation of a Silica Gel-Water Adsorption Refrigeration Cycle-The Influence of Operating Conditions on Cooling Output and COP
5.	Manoj Kumar Pal	2000	Fabrication and Analysis of Flat Plate Heat Pipe Solar Collector
6.	Jagdish Prasad Shakya	2000	Maintenance and Identification of Fault in an Air Conditioning System
7.	Ashish Saxena	2001	Maintenance Information System
8.	Rajesh Sharma	2001	Application of Network Technique for Preventive Maintenance of Rotary Screw Compressor
9.	Brajesh Prabhakar	2001	Reliability Study of an Air Conditioner Compressor
10.	Naresh Kumar	2001	Thermodynamic Performance Analysis of Liquid Desiccant Cooling System
11.	Prashant V Baredar	2002	Regeneration Experimental Studies on Evaporative Cooler
12.	Jitendra Hole	2002	Design and Development of SHR, Cooling Capacity of Evaporator in an Air- Conditioning system
13.	Pushpendra Singh	2003	Thermodynamic Analysis of Solar Air Conditioning System
14.	Gyaneshwar Parashar	2003	Experimental Studies on Evaporative Cooler
15.	Rajesh Pandey	2003	Alternative Energy System for a village Chandpur District Morena, MP
16.	Abhishek Garg	2003	Decision Making: Effects of IT (a study with a view of Maintenance Engineering)

17.	Sanjay Goyal	2004	Improvement in Condenser Vacuum by incorporating Online Maintenance of Condenser
18.	Sushil Kumar Dhiman	2004	A Thermodynamic Study on Air Conditioning System using Desiccant Dehumidifier
19.	Santosh Kumar Bharti	2004	Design of Modified Summer Air Conditioning System
20.	Rishi Agrawal	2004	Experimental Studies on Modified Evaporative Cooler
21.	Rahul Shukla	2004	Optimization of Plate Fin Heat Exchanger
22.	Vivek Nigam	2005	Study of Refrigeration system in Railway Catering Cars
23.	Rohit Rajvaidya	2005	Conceptualization, Simulation and Analysis of Refrigeration and Air Conditioner working as a Combined Unit
24.	Amit Katiyar	2005	Study of Thermodynamic Energy Losses through Condensate Recovery System in Lupin Limited
25.	Maneesh Dubey	2005	Performance Analysis of Rankine Powered Refrigeration System using R-134a for Cold Storage like applications.
26.	Vishwanath Singh Jadon	2005	Design of Evaporator Coil for Refrigeration System
27.	Prabhat Kumar Tripathi	2006	Analysis and Renovation of VCR System to enhance COP using Heat Exchanger Accumulator
28.	Satish Kumar Dubey	2006	Performance Analysis of Transcritical CO ₂ Refrigeration Cycle with Ejector Expansion
29.	Manoj Arya	2006	Parametric Study of Gas-Steam Combined Cycle Power Plant
30.	Digvijay Singh Lodhi	2008	Experimental Investigation of Indirect Plate Type Evaporative Cooler
31.	Trilok Singh Bisoniya	2008	Comparative Thermal Analysis of Theoretical and Experimental Studies of Modified Evaporative Cooler having Cross Flow Heat Exchanger with one Fluid Mixed and the other Unmixed
32.	Atul Bharti	2009	Theoretical analysis of Plate Type Indirect Evaporative Cooling (IEC) System

33.	Kamlesh Kumar Sharma	2009	Carbon Dioxide as an Alternative Refrigerant for Automotive Air Conditioning System
34.	Rajat Kumar Rusia	2009	Modelling and Simulation of Split Air-Conditioning System with Integrated Water Heater for The Waste Heat Recovery
35.	Nilesh Ghughuskar	2010	Computer Aided Retrofitting of R 12 Air Conditioning System for AC Coaches of Indian Railway Using Eco-Friendly Refrigerant R-134a
36.	Bharat Bhuriya	2010	Monitoring and Analysis of Indoor air Quality at different heights in industrial room by using CFD
37.	Vinit Sharma	2010	Design and Analysis of Air Conditioning System for Drilling Rig Power Control Room
38.	Amit Raj Bangar	2011	Performance analysis of Equipment's in Energy Centre-2 of Grasim, Nagda
39.	Pankaj Nigam	2011	Analysis of advance supercritical thermal power plant
40.	Amrat Kumar Dhamneya	2011	Designing of air conditioning system based on waste heat from thermal power plant
41.	Manish Singh Bharti	2012	Thermodynamic Analysis for the compression of Air Refrigeration system and existing Vapour compression refrigeration system
42.	Pushpendrakumar Kori	2012	Exergy Analysis of Combined Brayton-Rankine cycle for power generation
43.	Jay Prakash Gupta	2012	Exergy Analysis of an Evaporative Cooling System.
44.	Ishwar Singh	2013	Comparative analysis of under floor and overhead Air distribution of Air conditioning of a room.
45.	Satendra Singh Dhakar	2014	Computational and fluid dynamic analysis of a direct evaporative cooler
46.	Deepak Singh	2014	Cooling potential of night sky radiant cooling system in Indian climate
47.	Prakash Rathore	2014	Thermodynamic performance analysis of vapour air conditioning system for varying climate temperature

48.	Anshul khare	2015	Experimental analysis of energy saving & effect of air distribution on internal thermal environment by using UFAD in air conditioning space with vertical blade grill
49.	Ashutosh Kumar Singh	2015	Experimental analysis of energy saving & effect of air distribution on internal thermal environment by using UFAD in air conditioning space with straight blade grill
50.	Avinash Singh Chouhan	2015	Optimization of primary air inlet opening of tri-sector air pre-heater for minimizing primary air pressure drop using CFD
51.	Ritesh Kumar	2016	Performance analysis of domestic refrigerator using TIO ₂ , R134a nano refrigerant as a working fluid
52.	Prakash Pandey	2016	Exergy analysis of air conditioner by using alternative refrigerant(R22, R134a,R290)
53.	Pradhumntiwari	2016	Exergy analysis of air conditioner by using alternative refrigerant (R12,R600, R600a)
54.	Dharmendra Rajpoot	2017	Historical and present development of ejector refrigeration system
55.	Niranjan Dhanoriya	2017	Performance analysis of split air conditioner with variable ambient air temperature
56.	ShushantBhuvad	2019	CFD analysis of Heat transfer through Micro Channel Heat Sink
57.	Amitesh Sable	2020	CFD analysis of Mini Channel Heat Sink
58.	Vikram Patel	2021	An un-conventional approach for performance improvement of vapor compression refrigeration system using nano particle.
59	Debashish	2021	CFD Analysis of Heat Transfer Performance In Radiator With ZnO Nanofluids As Coolants
60	Manli Manke	2022	Study of Mixing of nano particles in refrigerant
61	Anuj Kumar Gupta	2023	Thermal management of printed circuit board assemblies of electronic box used in an ultrasound machine.
62	Bhanu Pratap Yadav	2023	Analysis of passive cooling by augmenting the ventilation and cooling effect for a cabin using hot and cold sources.

Other Academic and Administrative Assignments

1. Member of following Defence Research & Development Organization (DRDO) Ministry of Defence, Government of India, Committees.
 - A. **Expert Member** of Mechanical Engineering for the Selection Board of Scientist – B at Hyderabad appointed by Recruitment and Assessment Centre, DRDO.
 - B. **Expert Member** of Mechanical Engineering for the Selection Board of Scientist – B at V.N.I.T, Nagpur.
 - C. **Expert Member** of Mechanical Engineering for the Assessment Board of Promotion of Scientists B to C and from Scientists C to D at Hyderabad appointed by Recruitment and Assessment Centre, New Delhi.
 - D. **Expert Member** of Mechanical Engineering for the Assessment Board of Promotion of Scientists B to C and from Scientists C to D at Pune appointed by Recruitment and Assessment Centre, New Delhi.
 - E. **External Expert** Member of the Assessment Board for the year 2009 for Promotion of Technical Officer ‘A’, ‘B’ and ‘C’ to next Higher Scale appointed by CEPTAM, DRDO, New Delhi.
 - F. **External Expert** member of the assessment board, 16th to 18th May 2013 at Bangalore for promotion of scientist ‘B’ to ‘C’ and ‘C’ to ‘D’.
2. **Member of All India Council of Technical Education** (AICTE) Expert Team for assessment (2 Times).
3. **Subject Expert member** of the selection board for selection of staff in NIT, Uttarakhand, May 2013.
4. **Special invitee**, Board of studies in mechanical engineering, Madhav institute of technology and science, Gwalior (M.P).
5. **External Expert member**, Board of studies in Mechanical Engineering, at S.G.S.I.T.S Indore
6. Expert member, technical education committee, Bhopal medical hospital & research centre (B.M.H.R.C.), Bhopal.
7. Observer for JE (D) 2014 on behalf of chairman NTTC-2014 at PCRT Bhopal, March 2014.
8. Observer for TA-2013 on behalf of chairman TA-2013 at MITM, Indore, March 2013.
9. Delivered invited **Expert lecture** on “Recent trend in Air-conditioning IN National conference on Research and Innovations in Mechanical Engineering (RIME-2014) organized by TIT & Science, Bhopal on 5-6 March, 2014.
10. Delivered **Expert lecture** on Heat transfer through Numbers and Cycles in the short term training program on” Advances in Heat and Mass Transfer”(AHMT) at M.A.N.I.T, Bhopal, 3-7 June, 2013.
11. Delivered **Expert lecture** on “How to identify Research problems to benefit society” on two days workshop on preparing young researchers organized by Mechanical Engineering Department, M.A.N.I.T, Bhopal, 3-4 March, 2014.
12. **Chair of Technical Session** of theme Thermal Engineering-I in Ist “International Conference on Mechanical Engineering Emerging trends for Sustainability” (ICMEETS-2014) organized by department of Mechanical engineering, M.A.N.I.T., Bhopal, 29-31 January, 2014.

13. Chair Technical session as **Co-Chairman** in National conference on “Frontiers in Mechanical engineering” (FIME-2013) organized by Mechanical engineering department, M.A.N.I.T., Bhopal, 29-31 August, 2013.
14. Chair Technical session as **Chairman** in “International Conference on “Industrial Mechanical and Production Engineering: Advancements and Current Trends” (ICIMPACT-2014) organized by Mechanical engineering department, M.A.N.I.T., Bhopal, 27-29th November, 2014.
15. **Visitors (Honourable President of India) Nominee in the Academic Council of Central University Sikkim, Gangtok (Sikkim University) (Reference: SU/2011/REG-03/COAC-0063/1414/8221, Dated: 16.12.2015).**
16. **Chairman** Technical Specification Committee of Bhopal Memorial Hospital & Research Centre (BMHRC).
17. **External Expert** Member for Departmental Academic Committee and Departmental Visiting Committee of Mechanical Engineering Department for the Academic Audit of Mechanical Engineering Department National Institute of Technology (NIT) Raipur (C.G.).
18. **External Subject Expert** for the Selection of Faculty in Mechanical Engineering As per **NIT Act for the National Institute of Technology, Uttarakhand in 2017.**
19. **External Subject Expert** for the Selection of Faculty in Mechanical Engineering As per **NIT Act for the National Institute of Technology, Sikkim in 2017.**
20. **External Subject Expert** for the Selection of Faculty in Mechanical Engineering As per **NIT Act for the National Institute of Technology, Hamirpur in 2018 and 2019.**
21. **External Subject Expert** for the Recruitment and Promotion of Faculty in Mechanical Engineering of Samrat Ashok Technological Institute, Vidisha (M.P.) in 2021.
22. **External Subject Expert** for the Recruitment of Assistant Professor, and Associate Professor for Mechanical Engineering Through **Chhattisgarh Public Service Commission, Raipur in 2016.**