

# CURRICULUM VITAE

## Dr. Tameshwer Nath

*M.Tech (SLIET, Sangrur), Ph.D. (IIT Indore)*

*Assistant Professor, Mechatronics Engineering,*

*Indian Institute of Information Technology Bhagalpur*

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### ➤ Educational Qualification:

S.No	Qualification	Institution	Year of Passing	Division
1.	Ph.D. (Mechanical Engineering)	Indian Institute of Technology, Indore <a href="http://www.iiti.ac.in">www.iiti.ac.in</a>	February 2019	First Div.
2.	Master of Technology (Manufacturing systems Engineering)	SLIET, Deemed university, Central Government, Sangrur, Punjab, <a href="http://www.sliet.ac.in">www.sliet.ac.in</a>	July 2012	First Div.
3.	Bachelor of Technology (Mechanical Engineering)	Institute of Technology and Management, Gorakhpur <a href="http://www.itmgida.edu.in">www.itmgida.edu.in</a>	July 2008	First Div.
4.	Diploma in Mechanical Engineering (Computer Aided Design)	MaharanaPratap Polytechnic Gorakhpur <a href="http://www.mppolytechnic.net">www.mppolytechnic.net</a>	August 2005	First Div.
5.	Intermediate	F.C.I.Inter college, Gorakhpur	August 2001	First Div.
6.	High school	F.C.I.Inter college, Gorakhpur	August 1999	First Div.

**Research Interest :** Design and control of Mechanical Systems , smart material (Shape Memory Alloy specially NiTi), Mechatronics, Additive Manufacturing

**Technical Skills:** SEM, TGA, XRD, EDAX etc.

**Analysis And Control Software:** Symbol's'shakti(Bond Graph), Ansys, Comsol, Matlab (Simulink), Auto- CAD, Origin-Pro

### Work Experience :

S.No	Position	Department and Institute	Period
1.	Assistant Professor (AGP:7000, Level 11)	Department of Mechatronics and Automation Engineering, Indian Institute of Information Technology Bhagalpur, Bihar	19 <sup>th</sup> June 2023 to Till Date
2.	Assistant Professor (AGP:6000, Level 10)	Department of Mechatronics Engineering, Indian Institute of Information Technology Bhagalpur, Bihar	18 <sup>th</sup> September 2020- 18 <sup>th</sup> June 2023
3.	Assistant Professor	Department of Mechanical	1 <sup>st</sup> January 2019 to 01 <sup>st</sup> July 2019

		Engineering, Subharti University, Meerut, UP	
4.	Research Associate	Funded by CSIR, working in IIT Indore	1 <sup>st</sup> May 2018 to 10 <sup>th</sup> October 2018
5.	Teaching Associate	Department of Mechanical Engineering, IIT Indore, MP	1 <sup>st</sup> Jan. 2014 to 30 <sup>th</sup> April 2018
6.	Assistant Professor	Department of Mechanical Engineering, Subharti University Meerut, UP	1 <sup>st</sup> September 2012 to 31 <sup>st</sup> Dec. 2013
7.	Lecturer	Department of Mechanical Engineering, Subharti University Meerut, UP	4 <sup>th</sup> Aug.2008 to 30 <sup>th</sup> Aug.2010

### Research and Development:

S.No	Degree	Stream	Dissertation Title	Supervisor
1.	Doctor of Philosophy	Mechanical Engineering	Investigations on Contact and Non-Contact Based Actuation Studies of Shape Memory Alloy (SMA) Structures and their Life Cycle Behavior	Dr. I.A.Palani (Professor and Dean R & D), Indian Institute of Technology Indore
2.	Master of Technology	Manufacturing systems Engineering	Dynamic behavior and control of Quarter/Half/Full Car Models with Active And Passive Suspension system	<b>Late</b> Dr. Vikas Rastogi (Professor), Delhi Technological University, Delhi
3.	Bachelor of Technology	Mechanical Engineering	Design of Powered Jack	Dr. Virendra Mishra (Associate Professor), Galgotia Engineering College, Noida
4.	Polytechnic	Mechanical Engineering- Computer Aided Design	Design and Fabrication of Wincrowing Fan”	Mr. Rajendra Tiwari (Lecturer)

### Administrative Responsibilities:

S.No	Position	Department and Institute	Period
1.	F/I Security	IIIT Bhagalpur	19 July 2022 – Till Now
2.	F/I Transport	IIIT Bhagalpur	19 July 2022 – Till Now
3.	Warden	Hostels 2,4 ,6 , 10, 11	1 November 2022 – December 2023
4.	Warden	Kautilya Hostel	January 2023 – Till Now

### Membership:

S.no	Society	Validity	Membership No
1.	ISSS (Institute of Smart Structures and systems)	From 08 October 2024 to Life Time	LM-832

### Training:

S.No	Position	Unit	Period
1.	Training	Central Workshop, Indian Railway, Gorakhpur	Jun. 2006-Jul. 2006
2.	Training	CFEES, Defence Research and Development Organisation, Delhi	Jun.2007-Jul.2007

**Project Completed: (1) : As a PI**

S.No.	Title	Funding Agency (Fund)	Principal Investigator	Designation	Duration
1.	Investigation on the thermo-mechanical behavior of Ni-Ti shape memory alloy under different control strategies for MEMS devices	Council of Scientific and Industrial Research (CSIR) Project Cost: <b>(Rs.5,14,333.00)</b>	Dr. Tameshwer Nath (Indian Institute of Technology Indore)	Research Associate	01 Year (May 2018-Mar 2019)

**Project: on-going (1) : As a CO-PI**

S.No.	Title	Funding Agency (Fund)	Principal Investigator	Co-Investigator	Duration
1.	Design and Development of fire resistance Hollow Tubes for gun barrel applications using wire arc additive manufacturing.	Defence Research and Development Organization (DRDO), Project Cost: Rs. 46,63000	Dr. Shiva S. (Indian Institute of Technology Jammu)	Dr. Tameshwer Nath (IIIT Bhagalpur)	02 Years (April 2021-september 2023)

**PhD Thesis Supervision (02):**

S.No	Student Name	Thesis Title	Status	Co-Guide (If any)	Affiliation
1.	Mr. Lawakush Mishra (2103014)	Investigations on the development of Shape memory alloy based micro robots for practical Application	On-Going	No	IIIT Bhagalpur
2.	Mr. Shankar Kumar (2103015)	Design and Analysis of the power train system using Artificial Intelligence for Electric vehicle	On-Going	No	

**M. Tech Project Guide (02+02):**

S.No	Student Name	Thesis Title	Status	Co-Guide (If any)	Affiliation
1.	Md. Yusuf (2102014)	Modelling and simulation of SMA coiled spring for MEMS Applications	Completed	No	IIIT Bhagalpur
2.	Praveen Kumar Pandey (2102017)	Charging Behavior of Li-ion Battery used in Electric Vehicle	Completed (2021-23)	Dr. Abhinav Gautam	
3.	Abhishek Shukla (1001240001)	Optimization of Surface Roughness of A 713 Aluminium Alloy in Turning operation using Taguchi Method	Completed (2012-2013)	No	Subharti

4.	Mayank Tripathi (1001240006)	Optimization of Surface Roughness of A 535Aluminium Alloy in Turning operation using Taguchi Method	Completed (2012-2013)	No	University Meerut
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### B.Tech Project Guide (09):

S.No	Roll No	Student Name	Project Title	Status	Co-Guide (If any)	Affiliation
1.	2001099	Saket Kumar	Case Study of Shape memory alloy in Biomedical applications	Completed (2023-2024)	No	IIIT Bhagalpur
2.	2001076	Nishi singh				
3.	2001098	Rajat Sharma	Design and Development of Micromouse Robot	Completed (2023-2024)	No	
4.	2001104	Ankit Kumar				
5.	1901018	Ayush Sharma	Investigations on control of Automated Guided Vehicle (AGV) by using Programmable Logic controllers (PLC) for Industrial Applications	Completed (In AIUT) (2022-23)	No	
6.	1901019	Ayush Sinha	Dynamic Analysis of Various car models with suspension systems	Completed (BeeHyv software solutions pvt. Limited) (2022-23)	No	
7.	1901029	Gourav Pareek	Full Stack development of shopping cart app using REACT and spring boot	Completed (2022-23)	No	
8.	180103011	Mr. Gopesh Krishna Yadav	Design and Development of shape memory alloy based	Completed (2021-22)	No	
	180103013	Mr. Russell R.	Bladeless Intelligent Autonomous Drone for fruit picking application	Completed (2021-22)	No	
9.	180103010	Mr. Deepak raja Kannepalli	Design and Development of Arduino Based Obstacle Avoidance Robot car	Completed (2021-22)	No	
10.	0520940018	Mohd. Adil	Analysis of Technique Using Briquetting Plant	Completed (2008-2009)	Mr. Lawakush Mishra	
	0520940023	Navneet Tyagi				
	0520940048	Saurav Khandelwal				
	0520940055	Vasisth Kumar				
11.	0520940028	Pankaj Kumar	Study of steer by wire system	Completed (2009-2010)	No	
	0620940003	Amit Kumar Upadhyay				
	0620940014	Guru sewak				

		Kesarwani				Subharti University Meerut
	0620940039	Sarish Barnwal				
12.	0901140004	Aditya Raj	Design of Maglev Train	Completed (2012-2013)	Mr. D.P.Singh	
	0901140011	Arun Kumar Singh				
	0901140020	Gautam Kumar				
	0901140037	Rajeev Ranjan				
13.	0901140002	Abhishek Tiwari	Automatic Wiper starts when Rain Starts	Completed (2012-2013)	Mr. Sanjeev Kumar	
	0901140008	Amrit Gogoi				
	0901140018	Gaurav				
	0901140026	Mohd. Shamshad Alam				

• **Patent (IPR): 03 (01 Granted and 02 Filed)**

1. Amritbir singh, S. Shiva, Tameshwer Nath, “Method of Fabrication of Gun Barrel with cold metal transfer based arc additive process” Applied and in in process.
2. Suraj, Arun Kumar, Tameshwer Nath, “Device for a shape memory alloy operated Directional control valve and a method there of”, Application No: 202431000788, Filed: 04/01/2024
3. I.A.Palani, B.K. Lad, **Tameshwer Nath** and Pradeep Kundu, (2016), "Thermo-mechanical test bench for reliability estimation of Shape memory alloy spring," India, Application No: 201621007005, Published online:10-11-2017, Granted : 21/11/2023

**Publication:**

International Journals (15)					
SCI Indexed	Scopus Indexed	Book Chapters	International Conferences	National Conferences	Paper Presented only
12	04	04	07	02	05

• **International Journals (SCI Indexes): 12**

1. Singh, A., Bedi, R., Nath, T. et al. Feasibility of manufacturing high-aspect-ratio hollow tubes of SS410 through wire-arc directed energy deposition. Int J Adv Manuf Technol (2024). <https://doi.org/10.1007/s00170-024-14334-9>
2. Kumar S, Triveni MK, Katiyar JK, Tiwari TN, Roy BS (2022) “Prediction of heat generation effect on force torque and mechanical properties at varying tool rotational speed in friction stir welding using Artificial Neural Network”, *Journal of Mechanical Engineering Science*. 237(19):4495-4514 <http://doi.org/10.1177/09544062231155737>
3. Amrit Bir Singh, **Tameshwer Nath**, S.G.Dommeti, Shiva Sekhar, (2022), "Bulk Fabrication of SS410 Material using cold metal transfer-based wire arc additive manufacturing process at optimized parameters: Microstructural and Property Evaluation", *MDPI, Machines*, 10, pp: 1-32, 1136, <http://doi.org/10.3390/machines10121136>
4. Prashant Tripathi, **Tameshwer Nath**, (2022)“An Experimental Investigation into Effect of Reinforcement Material on Mechanical Properties of Linear Low-Density Polyethylene” *Defence Science Journal*, 72 (3), <http://doi.org/10.14429/dsj.72.17703> , IF: 0.85

5. Buntly Tomar, S.Shiva, **Tameshwer Nath**, (2022), "A Review on wire arc additive manufacturing: Processing, parameter, quality improvement and recent advances" *Materials Today Communications (Elsevier)*, 31, pp-1-24, <http://doi.org/10.1016/j.mtcomm.2022.103739> , IF: 3.383
6. **Tameshwer Nath**, Sunil Kumar, (2021)," Nitinol shape memory alloy spring" *Indian Journal of Engineering & Material Sciences, IJEMS Vol.28(5)* , pp: 446-453, IF: 0.881
7. Mani Prabu S.S., Mithun R., Muralidharan M., **Tameshwer Nath**, Brolin A, Akash K., Palani I.A. (2019), "Thermomechanical Behavior of shape memory alloy spring actuated using novel scanning technique powered by ytterium doped continuous fiber laser" *Smart Material and Structures (IOP Science)*, 28 (4), 047001, <http://doi.org/10.1088/1361-665X/ab068> , pp-1-13, IF: 2.9
8. **Tameshwer Nath**, Akash K., Priya Chouhan, Bhupesh Kumar Lad, I.A.Palani, (2018),"Investigation on thermo-mechanical behaviour of SMA spring under the influence of different actuation medium" *Micro-system Technologies (Springer)*, 24, pp: 2813-2821, IF: 1.439, <http://doi.org/10.1007/s00542-017-3695-z> ,
9. Reena Disawal, **Tameshwer Nath**, Shashi Prakash, I.A. Palani, (2018) "Life cycle analysis of Electrically actuated SMA spring using Talbot Interferometry" *Applied Optics (OSA)*, Vol: 57 (20), <http://doi.org/10.1364/AO.57.005779> , pp: 5779-5783
10. Pradeep Kundu, **Tameshwer Nath**, I.A.Palani, B.K. Lad, (2018) "Integrating GLL-Weibull distribution within a Bayesian framework for life prediction of Shape memory alloy spring undergoing Thermo-mechanical fatigue" *Journal of Materials Engineering and Performance, (Springer)*, <http://doi.org/10.1007/s11665-018-3435-2> , pp-3655-3666, IF: 1.652
11. **Tameshwer Nath**, Priya Chouhan, Reena Disawal, I.A. Palani, (2017) "Comparative study of electrically and hot water actuated shape memory alloy using developed thermo-mechanical cycle test bench", *Defence Science Journal*, 67 (1), ,pp:100-107, <http://doi.org/10.14429/DSJ.67.10489> , IF: 0.50
12. Akash Kumar, Mani Prabu, Ashish Shukla, **Tameshwer Nath**, Karthick S, I.A.Palani, (2017) "Investigations on the Life cycle Behavior of Cu-Al-Ni/Polyimide Shape Memory Alloy Bi-morph at Varying Substrate Thickness and Actuation conditions", *sensors and actuators A: Physical (Elsevier)*, 254, <http://doi.org/10.1016/j.sna.2016.12.008> , pp:28–35, IF: 2.201

• **International Journal (SCOPUS Indexes): 04**

1. Tameshwer Nath, Suraj, Arun Kumar, "The Synergy of NiTi Shape Memory Alloys and Additive Manufacturing: Applications and Future Directions" *Journal of Micro manufacturing*, 2025, Accepted.
2. Praveen Kumar Pandey, Abhinav Gautam, **Tameshwer Nath** (2024) "Elucidations on different modes of charging techniques for enhancement of the performance of Electric vehicle" *Int. J. of Electric and Hybrid Vehicles, (Inderscience)*, Vol No: 16 (1), pp 64-101, <https://doi.org/10.1504/IJEHV.2024.137510>
3. Vineet Kumar Singh, **Tameshwer Nath**, (2021), "Energy Generation by small hydro power plant under different operating conditions" *Int. J. of Hydro-mechatronics (Inderscience)*, Vol. 4 (4), pp: 331-349, ISSN No: 2515-0464, <http://doi.org/10.1504/IJHM.2021.10043474>
4. **Tameshwer Nath**, Abhilash Kasliwal, Raghunandan singh, Kartik Kulkarni, Gaurav Raut, Alok Kumar, Ritesh Khatri, Sahil Mittal, I.A. Palani, (2015) "Investigation on the Laser Based Actuation of Single way Trained SMA sheet and Their Application for the Development of Micro Positioning Stage" *,Applied Mechanics and Materials*, 766-767, pp 427-431, <http://doi.org/10.4028/www.scientific.net/AMM.766-767.427>

- **Book Chapter: 04**

1. Bharat Kumar Aryan, **Tameshwer Nath**, Babul P Tewari (2023), A Comparative Analysis of Bitcoin Price Prediction using Deep Learning and Machine Learning Algorithms, *Book: Healthcare Services in Metaverse: Game Theory, AI, IoT and Blockchain*, Publisher: Taylor and Francis, Accepted
2. Suraj, **Tameshwer Nath**, Arun Kumar , (2023), "Sustainable Design Innovation & Analysis of Customized Solar Frame Bicycle." *Robotics and Automation in Industry 4.0 : Publisher : Bentham Science*, Reference No: 04/07/2022-Ebk-1//CDMSE-PROP-283, Accepted
3. Mithun, R., **Nath, T.**, Mani Prabu, S.S., Palani, I.A. (2020), "Influence of Flow Domain Parameters on Hot Water Actuation of Shape-Memory Alloy Spring for Barrier Gate System" In: Shunmugam, M., Kanthababu, M. (eds) *Advances in Simulation, Product Design and Development. Lecture Notes on Multidisciplinary Industrial Engineering*. Springer, Singapore. [https://doi.org/10.1007/978-981-32-9487-5\\_70](https://doi.org/10.1007/978-981-32-9487-5_70) , ISBN : 978-981-32-9487-5
4. **Nath, T.**, Karthick, S., Chouhan, P., Lad, B.K., Palani, I.A. (2016) "Investigation on Actuation and Thermo-Mechanical Behavior of Shape Memory Alloy Spring by Comparing On/Off and PID Controller for Precise Position Control" In: Vinod, B., Voyles, R., Vadakkepat, P., Sundaram, M., Sujatha, K., Brislin, J. (eds) *Advancements in Automation, Robotics and Sensing. ICAARS 2016. Communications in Computer and Information Science*, vol 627. Springer, Singapore. [https://doi.org/10.1007/978-981-10-2845-8\\_8](https://doi.org/10.1007/978-981-10-2845-8_8), ISBN: 978-981-10-2845-8

- **International Conferences: 07**

1. Akhil Verma, Anand K, Hari Visanth, **Tameshwer Nath**, I.A. Palani (2018), "Investigation on hot fluid based actuation of SMA spring and their application for the development for Heat Engine" AIP Conference proceeding, In: Dipen Kumar Rajak, P.L.Verma, V.B.Tungikar and Y.J. Bhalerao (eds) *Proceedings of 1<sup>st</sup> International conference on Mechanical and material science engineering: Innovation and Research (ICMMSEIR:2018), held during 5-6<sup>th</sup> July 2018 at Sandip foundation, Nasik, India*, <https://doi.org/10.1063/1.5058259>, Vol : 2018 (1), ISSN : 1551-7616
2. Yogeshwaran S.M., **Tameshwer Nath**, Reena Disawal, I.A. Palani (2017), "Design and fabrication of shape memory alloy actuated Stewart platform for automated laser assist micro machining application" *Proceedings of 10<sup>th</sup> International conference on precision, Meso, Micro and Nano Engineering (COPEN-10), held during 07-09 December 2017 at Indian Institute of Technology Madras, India*, ISBN No: 978-93-80689-28-9, PP No: 962-965
3. Chouhan P., Nath T., Lad B.K., Palani I.A., (2016) "Investigation on actuation and thermo-mechanical behavior of Shape Memory Alloy spring using hot water" IOP Conference series, Material science and engineering, International Conference on Advances in Materials and Manufacturing Applications (IConAMMA-2016) 14–16 July 2016, Bangalore, India, Vol 149, *IOP Conf. Ser.: Mater. Sci. Eng.* <http://org/10.1088/1757-899X/149/1/012147>, ISSN : 1757-899X
4. T. Nath, G. Raut, A. Kumar, R. Khatri and I. A. Palani (2015), "Investigation on Laser assisted actuation of shape memory alloy based micro-valve," *2015 International Conference on Robotics, Automation, Control and*

*Embedded Systems (RACE)*, 18<sup>th</sup> -20<sup>th</sup> February 2015, at Hindustan university, Chennai, India, pp. 1-6, <http://doi.org/10.1109/RACE.2015.7097249> , ISBN: 978-8-1925-9743-0

5. H. Singh, P. Juikar, T. N. Tiwari, B. K. Lad and I. A. Palani (2015), "Failure diagnosis & reliability assessment of NiTi shape memory alloy spring for micro - Actuators," *2015 International Conference on Robotics, Automation, Control and Embedded Systems (RACE)*, Chennai, India, 2015, pp. 1-6, <http://doi.org/10.1109/RACE.2015.7097286> , ISBN : 978-8-1925-9744-7
6. **Tameshwer Nath**, Ruchi chaudhary, Ajit Katiyar (2013), "future of supply chain management in various food production" International conference on Role of Technology in Nation Building" held during April 26, & 28<sup>th</sup> , 2013, at SITE (swami vivekanand subharti University, Meerut, U.P). ISBN: 97881925922-1-3
7. **Tameshwer Nath**, Vikas Rastogi, (2012) "Dynamic Behavior and control of Quarter/Half/Full car model with Active suspension (PID controller)," International conference on Recent Trends in Engineering & Technology" held during November 28<sup>th</sup> - 29<sup>th</sup> 2012 at SITE (swami vivekanand subharti University, Meerut, U.P). ISBN: 978-81-925922-0-6

- **National Conferences: 02**

1. Vikas Rastogi, **Tameshwer Nath**, (2012) Quarter/Half/Full car models for passive suspension (With PID controller "National conference on Recent advances in Mechanical Engineering", held during June 08<sup>th</sup> & 09<sup>th</sup>, 2012, at Hindustan College of Science & Technology Mathura, U.P.
2. **Tameshwer Nath**, Vikas Rastogi, Dynamic Modeling and control of Automotive suspension system using Bond Graph (2011), "National conference on Recent Trends in Mathematics", held during December 16<sup>th</sup> & 17<sup>th</sup>, 2011, at Sant Longowal Institute of Engineering & Technology, Sangrur, Punjab.

- **Conference Papers Presented only (05):**

1. Priya Chouhan, **Tameshwer Nath**, I.A.Palani, Bhupesh K. Lad, "Investigation on Non-contact based Actuation of Shape Memory Alloy (SMA) Spring and Analysis of its Thermo-mechanical Behavior", 6<sup>th</sup> International and 27<sup>th</sup> All India Manufacturing technology, Design and Research (AIMTDR-2016)", held during 16<sup>th</sup> to 18<sup>th</sup> December 2016 at college of Engineering, Pune, India
2. Karthick S, **Tameshwer Nath**, Akash K., I.A. Palani, "Cyber Physical System Design for Shape Memory Alloy Sentroller based Intelligent Instrument" *International Conference on Advancements in Automation, Robotics and Sensing (ICAARS 2016)*, held during 23<sup>rd</sup> to 24<sup>th</sup> June 2016 at PSG Tech college of Technology, Coimbatore, India
3. **Tameshwer Nath**, Akash K., Shiva S., Farhan Babu, I.A. Palani, 'Investigations on The Effect of Laser Actuation And Interaction on Ni-Ti SMA Sheet For The Development of Micro-Grippers' *International Union of Material Research Societies- The IUMRS International Conference in Asia-2014* , held during August 24<sup>th</sup> -30<sup>th</sup> , 2014 at Fukoka Japan.
4. **Tameshwer Nath**, Ravi Kumar Thakur, Vikas Rastogi, "Modeling and simulation of vehicle with controller" *International Conference on Contribution of Science and Technology in Progress of the World* held during December 5<sup>th</sup> -7<sup>th</sup> 2013 at Metcalf House, DRDO House, New Delhi



5. **Tameshwer Nath**, Vikas Rastogi, “Dynamic Modeling and Simulation of Automotive Suspension System with Overwhelming Controller” *International conference* on smart Technologies for Mechanical Engineering held during October 25<sup>th</sup> - 26<sup>th</sup> 2013 at Delhi Technological University, Delhi.

## **Achievements and Awards**

1. Invited speaker in Two Day Seminar on “*National Seminar on Artificial Intelligence (NSAI-2025)*” on 16<sup>th</sup> April 2025 organized by the Department of computer science and Engineering, DDU Gorakhpur university, Gorakhpur
2. Received Distinguished Alumni award from UG College ITM Gida Gorakhpur on 20<sup>th</sup> March 2025.
3. Invited speaker (Guest of Honor) in One Day Seminar on “Recent Trends in Artificial Intelligence and Machine Learning & Deep Learning” on 13th January 2024 jointly organized by the Institution of Engineers (I) - Gorakhpur Local Centre & Institute of Technology Management, GIDA, Gorakhpur
4. Performed a confidential task organized by the National Testing Agency (NTA) at New Delhi – 110020 on 12<sup>th</sup> - 16<sup>th</sup> September 2023
5. Invited as an Examiner in BCE Bhagalpur for Engineering graphics in B.Tech on 04/06/2022 and 03/12/2022.
6. F/I Security and F/I Transport of IIIT Bhagalpur from 19/07/2022 to Till Now.
7. Delivered an Expert Talk on Investigations on actuation studies on shape memory alloy-based MEMS devices and its review on 30<sup>th</sup> April 2022 at Bhagalpur college of Engineering Bhagalpur.
8. Took Expert Lecture (online) in internship program, organized by CIDC from 25th August 2021 to 13<sup>th</sup> November 2021.
9. Participated QIP Short Term Course (online) on " " conducted by the Department of Materials Science and Engineering, IIT Kanpur from 15<sup>th</sup> -20<sup>th</sup> March 2021.
10. Organized Short Term course on “Mechatronics, Instrumentations, Intelligent & Bio-Inspired Materials” at IIIT Bhagalpur from 10<sup>th</sup> -14<sup>th</sup> February 2021.
11. Delivered an Expert Talk on Recent Innovation in MEMS field : Mechatronics Approach on 04<sup>th</sup> February 2021 at Amity School of Engineering and Technology, Noida.
12. Delivered an Expert Talk on Mechanical System Design and Modelling in BCE Engineering College on 27<sup>th</sup> January 2021
13. Session Chaired in 11<sup>th</sup> International Conference on Materials Processing and Characterization -2020 (ICMPC 2020) organized by Department of Mechanical Engineering, Indian Institute of Technology Indore during 15<sup>th</sup> - 17<sup>th</sup> Dec. 2020.
14. Organized a webinar on "Compact Modeling, Parameter Extraction and Verilog-A Implementation of RF MOS Devices: for 5G Applications" at IIIT Bhagalpur on 27<sup>th</sup> October 2020.
15. Training and Placement officer of SITE, Subharti University from 16<sup>th</sup> February 2019 to July 2019.
16. SPIE Membership from 2018 to Till Now (SPIE-3623207)
17. Reviewer of: Material Research Express (IOP Science), Microsystems Technologies (Springer), Current Mechanics and Advanced Materials and Journal of Intelligent Material systems and Manufacturing.

18. Appreciation letter given by Discipline of Mechanical Engineering, IIT Indore on July 8th -14rd 2018 for Successful completion (Member of student organizing Team) of GIAN Course on Laser Assisted Surface Micro- and Nano-fabrication
19. Reviewer of International conference on Mechanical and material science engineering: Innovation and Research (ICMMSEIR:2018) organized by Sandip Foundation Nasik.
20. Appointed as an “Associate Bentham Science Ambassador” of Bentham science Journal from July 2019 onwards.
21. Best Outstanding research award in 2018 by Sandip Foundation Nasik on 5th July 2018.
22. Awarded for Research Associate ship (RA) from CSIR-HRDG (May 2018- March 2019)
23. Participated in TEQIP sponsored Short term training programme on Recent Trends in Mechatronics and Robotics-2018 on December 10th-14th, 2018.
24. Participated in 5th Industry Academia conclave at Indian Institute of Technology Indore on 6th September 2017.
25. Appreciation letter given by Discipline of Mechanical Engineering, IIT Indore on December, 7<sup>th</sup> -21<sup>st</sup> 2016 for Successful completion (Member of student organizing Team) of ISHAN VIKAS PROGRAM.
26. Attended course on Lab-view for core-1 and core-2 sponsored by NI systems India on February 15th-16th 2016.
27. Appreciation letter given by Discipline of Mechanical Engineering, IIT Indore on July 19th -23rd 2016 for Successful completion (Member of student organizing Team) of short term course on Mechatronics, MEMS & Micro fabrication.
28. Appreciation letter given by Discipline of Mechanical Engineering, IIT Indore on December 2nd -15th 2015 for Successful completion (Member of student organizing Team) of ISHAN VIKAS PROGRAM.
29. Appreciation letter given by Discipline of Mechanical Engineering, IIT Indore on July 7th -11th, 2014 for Successful completion (Member of student organizing Team) of short term course on Mechatronics, MEMS & Micro fabrication.
30. Awarded Half time Teaching and Research Assistantship (HTRA) from IIT Indore (January 2014-April 2018)
31. All India Test Qualified in 2010 as 3<sup>rd</sup> Ranker in SLIET Entrance Test.
32. Achieved “B” Certificate with grade of “C” from NCC at Gorakhpur on 10 September 2003.
33. Achieved certificate of Participation from PCRA (Petroleum conservation Research Association), held in Maharana Pratap Polytechnic Gorakhpur, U.P. on 27-03-2003

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