

Updated CV

Dr. Tameshwer Nath

Assistant Professor, Mechatronics & Automation Engineering,

Indian Institute of Information Technology Bhagalpur

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➤ Educational Qualification:

S.No	Qualification	Institution	Year of Passing	% / CGPA	Division
1.	Ph.D. (Mechanical Engineering)	Indian Institute of Technology, Indore www.iiti.ac.in	February 2019	7.26	First Div.
2.	Master of Technology (Manufacturing systems Engineering)	SLIET, Deemed university, Central Government, Sangrur, Punjab, www.sliet.ac.in	July 2012	8.23	First Div.
3.	Bachelor of Technology (Mechanical Engineering)	Institute of Technology and Management, Gorakhpur www.itmgida.edu.in	July 2008	67.44%	First Div.
4.	Diploma in Mechanical Engineering (Computer Aided Design)	MaharanaPratap Polytechnic Gorakhpur www.mppolytechnic.net	August 2005	73.33%	First Div.
5.	Intermediate	F.C.I.Inter college, Gorakhpur	August 2001	67.80%	First Div.
6.	High school	F.C.I.Inter college, Gorakhpur	August 1999	62.50%	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 th May 2023 to Till Date
2.	Assistant Professor (AGP:6000, Level 10)	Department of Mechatronics Engineering, Indian Institute of Information Technology Bhagalpur, Bihar	18 th September 2020- 18 th May 2023
3.	Assistant Professor	Department of Mechanical Engineering, Subharti University, Meerut, UP	1 st January 2019 to 01 st July 2019
4.	Research Associate	Funded by CSIR, working in IIT Indore	1 st May 2018 to 31 st December 2018
5.	Teaching Associate	Department of Mechanical Engineering, IIT Indore, MP	1 st Jan. 2014 to 30 th April 2018
6.	Assistant Professor	Department of Mechanical Engineering, Subharti University Meerut, UP	1 st September 2012 to 31 st Dec. 2013
7.	Lecturer	Department of Mechanical Engineering, Subharti University Meerut, UP	4 th Aug.2008 to 30 th 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/FullCar Models with Active And Passive Suspension system	Late Dr. Vikas Rastogi (Professor), Delhi Technological University, Delhi
3.	Bachelor of	Mechanical	Design of Powered Jack	Dr. Virendra Mishra (Associate

	Technology	Engineering		Professor), Galgotia Engineering College, Noida
4.	Polytechnic	Mechanical Engineering-Computer Aided Design	Design and Fabrication of Wincnowing Fan”	Mr. Rajendra Tiwari (Lecturer)

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

Courses Taught from 2020 to Last semester:

Course Code	Course Name	Credit	Theory Load	Session	Session Load	Counted Above 6
ME 302	Sensor and Actuators	3	3	2020 (August-December)	3	0
ME 401	Robotics	3	3	2021 (August-December)	6	0
ME 411	Robotics Lab	2	0	2021 (August-December)		
MEA 502	Dynamics and Control of Electric Vehicle	3	3	2021 (August-December)		
ME 101	Engineering Mechanics	4	4	2021 (Jan-July)	10.5	4.5
ME 207	Fluid Mechanics	3	3	2021 (Jan-July)		
ME 303	Mechatronics & Automation	3	1.5	2021 (Jan-July)		
ME 311	Mechatronics Lab	2	0	2021 (Jan-July)		
ME 352	MEMS & NEMS	4	2	2021 (Jan-July)		
ME 207	Fluid Mechanics	3	3	2022 (Jan-July)	8	2
ME 303	Mechatronics & Automation	3	3	2022 (Jan-July)		
ME 352	MEMS & NEMS	4	2	2022 (Jan-July)		
ME 311	Mechatronics Lab	2	0	2022 (Jan-July)		

ME 211	Mechanical Workshop	2	0	2022 (July- November)		
ME 302	Sensor and Actuators	3	3	2022 (July- November)	10	4
ME 401	Robotics	3	3	2022 (July- November)		
ME 411	Robotics Lab	2	0	2022 (July- November)		
ME 207	Fluid Mechanics	4	4	2023 (Jan-July)		
ME 303	Mechatronics & Automation	3	3	2023 (Jan-July)	6	0
ME 311	Mechatronics Lab	2	0	2023 (Jan-July)		
ME 312	Sensor and control Lab	2	0	2023 (Jan-July)		
ME 352	MEMS & NEMS	3	3	2023 (Jan-July)		
ME 302	Sensor and Actuator	3	1.5	2023 (July-November)	6.5	0.5
ME 401	Robotics	3	3	2023 (July-November)		
ME 411	Robotics Lab	2	0	2023 (July-November)		
ME 102	Engineering Graphics	4	2	2023 (July-November)		
ME 312	Sensor and control Lab	2	0	2024 (Jan-July)	3	0
ME 352	MEMS & NEMS	3	3	2024 (Jan-July)		
ME306	Environmental science & Green Technology	2	0	2024 (Jan-July)		
ME 401	Robotics	3	3	2024 (July-November)		
ME 411	Robotics Lab	2	0	2024 (July-November)	8	2
ME 102	Engineering Graphics	4	2	2024 (July-November)		
ME301	Dynamics of Machinery	3	3	2024 (July-November)		
ME 303	Mechatronics & Automation	3	3	2025 (Jan-July)		
ME 311	Mechatronics Lab	2	0	2025 (Jan-July)	6	0
ME 312	Sensor and control Lab	2	0	2025 (Jan-July)		
ME 352	MEMS & NEMS	3	3	2025 (Jan-July)		
	Total Course load					13

New Courses developed:

Course Code	Course Name	Level of Higher Education
MEA 502	Dynamics and Control of Electric Vehicle	PG (M.Tech)
ME 303	Mechatronics & Automation	UG (B.Tech)
ME 352	MEMS & NEMS	UG (B.Tech)

New Course developed through Consultancy:

Institute	Courses	L	T	P	C
Nova Anglia College, 29 Amelia Street, Fortitude Valley, QLD 4006, Australia	Vehicle Dynamics	3	1	1	4
	Drive Train System	3	1	1	4

Complete List of Publications:

Patent		International Journals (SCI)	International Journals (SCOPUS)	Conferences			
Granted	Published			converted into Book Chapter	published into proceedings	Presented only	National
02	01	12	04	03	06	07	02

- Patent (IPR): 02 Granted, 01 Published**

1. 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, Patent No: 471207

2. Suraj, Arun Kumar, Tameshwer Nath, (2024), “Device for a shape memory alloy operated directional control valve and a method thereof”, Published:19-01-2024, Granted : 30/10/2025, Patent No: 573034
3. Atmbir singh, Shiva S, and Tameshwer Nath (2023), “Method of Fabrication of Gun Barrel with cold metal transfer based arc additive process”, Application No: 202311081864, , Published online:06-06-2025, Status: Application Awaiting Examination

Publication:

- **International Journals (SCI Indexes): 13**

1. Kanhaiya Kumar, Tameshwer Nath, Pankaj Kumar Das, Amit Kumar Sharma, Manish Rawat (2026), “Intelligent Global Maximum Power Point Tracking using Neighboring Pixel Algorithm and classification and regression trees assisted Virtual Imaging under partial shading conditions” *Energy and AI*, Volume 25, 100849, ISSN 2666-5468, <https://doi.org/10.1016/j.egyai.2026.100849>
2. Amritbir Singh, Raman Bedi, **Tameshwer Nath**, Satya Gowtam Dommeti, Saurav Goel, Shiva Sekar, (2024), Feasibility of manufacturing high-aspect-ratio hollow tubes of SS410 through wire-arc directed energy deposition, *The International Journal of Advanced Manufacturing Technology* (Springer), 134, 5391–5411, <https://doi.org/10.1007/s00170-024-14334-9>
3. Kumar S, Triveni MK, Katiyar JK, **Tiwari TN**, Roy BS (2023). 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>
4. 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>
5. Prashant Kumar, **Tameshwer Nath**, 2022“An Experimental Investigation into Effect of Reinforcement Material on Mechanical Properties of Linear Low-Density Polyethylene” *Defence Science Journal*, 72 (3), PP: 459-463 <http://doi.org/10.14429/dsj.72.17703> , IF: 0.85

6. Bunt 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
7. **Tameshwer Nath**, Sunil Kumar, 2021, "Nitinol shape memory alloy spring: a review" *Indian Journal of Engineering & Material Sciences, IJEMS Vol.28(5)* , pp: 446-453, IF: 0.881
8. 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
9. **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> ,
10. 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
11. 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)*, 27, <http://doi.org/10.1007/s11665-018-3435-2> , pp- 3655-3666, IF: 1.652
12. **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
13. 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): 05**

1. Mishra, L., Nath, T. (2026), Advanced ride comfort enhancement using HHO-tuned fractional PID control in active suspension systems *International Journal of Dynamics & Control* 14, 325, <https://doi.org/10.1007/s40435-026-02264-1>
2. Suraj, Kumar Arun, Nath T (2025), The synergy of NiTi shape memory alloys and additive manufacturing: Applications and future directions. *Journal of Micromanufacturing.*; 8(2):167-181, doi:[10.1177/25165984251348309](https://doi.org/10.1177/25165984251348309)
3. 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)*, 16 (1), ISSN: 1751-4088 pp 64-101, <https://doi.org/10.1504/IJEHV.2024.137510>
4. 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>
5. **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>

- **International Conferences converted into Book Chapter: 03**

1. Suraj, Arun Kumar, **Tameshwer Nath**, Bikas Prasad (2024), “Sustainable Design Innovation & Analysis of Customized Solar Frame Bicycle.” “*Challenges and Opportunities in Industrial and Mechanical Engineering: A Progressive Research Outlook*”: Publisher : Taylor and Francis (CRC Press) , e-ISBN : 9781032713229, Pages: 07
2. 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 , ISBN : 978-981-32-9487-5

3. **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, ISBN: 978-981-10-2845-8

- **International Conferences published into proceedings: 07**

1. Apoorva Singh, Dhruv Mishra, **Tameshwer Nath**, (2026), "Design and Development of an Autonomous UAV based surveillance system with Integrated Machine Learning Analysis" International Conference on Advanced Materials, Manufacturing and Thermo-Fluid Systems (ICAMMTS-2026), *held during 27-28 March 2026, at Noida Institute of Engineering and Technology (NIET), Greater Noida, India.*
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 10th 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)*, 18th -20th 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. 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 1st International conference on Mechanical and material science engineering: Innovation and Research (ICMMSEIR:2018), held during 5-6th July 2018 at Sandip foundation, Nasik, India*, <https://doi.org/10.1063/1.5058259>, Vol : 2018 (1), ISSN : 1551-7616
7. **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, & 28th , 2013, at SITE (swami vivekanand subharti University, Meerut, U.P). ISBN: 97881925922-1-3

• **Conference Papers Presented only (06):**

1. **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 24th -30th , 2014 at Fukoka Japan.*
2. 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", *6th International and 27th All India Manufacturing technology, Design and Research (AIMTDR-2016)", held during 16th to 18th December 2016 at college of Engineering, Pune, India*
3. Karthick S, **Tameshwer Nath**, Akash K., I.A. Palani (2016), "Cyber Physical System Design for Shape Memory Alloy Sentrroller based Intelligent Instrument" *International Conference on Advancements in Automation, Robotics and Sensing (ICAARS 2016), held during 23rd to 24th June 2016 at PSG Tech college of Technology, Coimbatore, India*

4. **Tameshwer Nath**, Ravi Kumar Thakur, Vikas Rastogi (2013), "Modeling and simulation of vehicle with controller" *International Conference on Contribution of Science and Technology in Progress of the World held during December 5th -7th 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 25th - 26th 2013 at Delhi Technological University, Delhi.*
6. **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 28th - 29th 2012 at SITE (swami vivekanand subharti University, Meerut, U.P). ISBN: 978-81-925922-0-6

• **National Conferences: 02**

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

List of Projects:

Project Completed (1) : As Research Associate through CSIR. (Worked at IIT Indore itself during PhD only but after 3-year completion)

S.No	Details	
1.	Acknowledge No	341379/2K17/1
2.	File No	09/1022 (0050) / 2018 –EMR-1
3.	Letter issue on Date	18/04/2018
4.	Role	Research Associate (RA)

5.	Funding Agency	Council of Scientific & Industrial Research : Human Resource Development Group (CSIR : HRDG)		
6.	Stipend	Stipend	Contingency	Total
		3,96,000	18,000	4,14,333
7.	Tenure	01/05/2018 – 31/03/2019 (Initially) and may be extended up to 02 more years		
8.	Completed	31/12/2018 (Earlier than 3 months)		
9.	Formal closure	02/03/2019		

Project Completed (1) : As CO-PI

S.No	Details			
1.	Sanction Letter No	ERIP/ER/202102001/M/01/1784 on 04 March 2021		
2.	Project Title	Design and Development of fire resistance Hollow Tubes for gun barrel applications using wire arc additive manufacturing		
3.	Role	Co-Principal Investigator (CO-PI)		
4.	Funding Agency	ER-IPR, Defence Research and Development Organization (DRDO)		
5.	Amount	Approved	Expenditure	Returned
		Rs. 46,63,000	Rs. 46,14,320	48680
6.	Start Date	25/03/2021		
7.	End Date	24/09/2023		
8.	Formal closure	07/05/2025		
9.	Surrender Letter Issued on	16/06/2025		
10.	Sanction Code	DGTM/ERIP/GIA25-Z6/C/017 Dated 02 nd June 2025		

Affiliation to various Academies:

Administrative Responsibilities:

S.No	Position	Department and Institute	Period
1.	F/I Security	IIIT Bhagalpur	19 July 2022 – 05 May 2026
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 Boys Hostel, IIIT Bhagalpur	January 2023 – Till Now
5.	Associate NCC Officer (ANO)	IIIT Bhagalpur for 3 BN Coy Bihar	13 September 2025 –Till Now

Membership:

S.No	Society	Validity	Certificate No
1.	ISSS (Institute of Smart Structures and Systems)	From 08 February 2024 to Life Time	LM-832
2.	Expert of Mechanical Engineering from National Testing Agency	From 12 th -16 th September 2023	IW7/NTA/2023/SS/RM/04

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 (2022-2024)	No	IIIT Bhagalpur
2.	Praveen Kumar Pandey (2102017)	Charging Behavior of Li-ion Battery used in Electric Vehicle	Completed (2022-2023)	Dr. Abhinav Gautam	
3.	Abhishek Shukla (1001240001)	Optimization of Surface Roughness of A 713 Aluminium Alloy in	Completed	No	

		Turning operation using Taguchi Method	(2012-2013)		Subharti University Meerut
4.	Mayank Tripathi (1001240006)	Optimization of Surface Roughness of A 535Aluminium Alloy in Turning operation using Taguchi Method	Completed (2012-2013)	No	

B.Tech Project Guide (15):

S.No	Roll No	Student Name	Project Title	Status	Co-Guide (If any)	Affiliation
1.	2201155ME	Ms. Akansha Kumari	Ride comfort of Quarter/Half car model optimization of Active suspension system	2025-2026	No	IIIT Bhagalpur
	2101200ME	Md. Faizan Elahi		2025-2026	No	
2.	2201238ME	Ms. Apoorva Singh	Design and Development of a Quadcopter for Inspection & Surveillance Application	2025-26	No	
	2201066ME	Mr. Dhruv Mishra		2025-26	No	
3.	2201235ME	Yeshua Singh	Thermomechanical Behaviour and Life cycle Analysis of shape memory alloy Bundles	2025-26	No	
4.	2101201	Priya Mishra	Infrastructure Planning Automation Platform for transforming Excel-Based Project into Smart Workflows	2024-25	No	
5.	2101249	Anurag Kumar Lal	Implementation of Machine Learning on developed Experimental Set Up for Hot water Actuated shape memory	2024-25	No	

			alloy			
6.	2101126	Ansh Sharma	Design and Development of a movie Rating System : FlixHub	2024-25	No	
7.	2101092	Piyush Anand	Mechanistic Interpretability of NT-Java-1.1B Model using Transcoder	2024-25	No	
8.	2001098	Rajat Sharma	Investigation of Maze Solving Algorithms for Micro-Mouse Robot	2023-24	No	
	2001104	Ankit Kumar		2023-24	No	
9.	2001099	Saket Kumar	Case Study of shape memory alloy in biomedical application	2023-24	No	
	2001076	Nishi Singh		2023-24	No	
10.	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	
11.	1901019	Ayush Sinha	Dynamic Analysis of Various car models with suspension systems	Completed (BeeHyv software solutions pvt. Limited) (2022-23)	No	
12.	1901029	Gourav Pareek	Full Stack development of shopping cart app using REACT and spring boot	Completed (2022-23)	No	
13.	180103011	Mr. Gopesh Krishna Yadav	Design and Development of shape memory alloy based Bladeless Intelligent Autonomous Drone for fruit picking application	Completed (2021-22)	No	
	180103013	Mr. Russell R.		Completed (2021-22)	No	
		Mr. Deepak	Design and Development of	Completed		

14.	180103010	raja Kannepalli	Arduino Based Obstacle Avoidance Robot car	(2021-22)	No	
15.	0520940018	Mohd. Adil	Analysis of Technique Using Briquetting Plant	Completed (2008-2009)	Mr. Lawakush Mishra	Subharti University Meerut
	0520940023	Navneet Tyagi				
	0520940048	Saurav Khandelwal				
	0520940055	Vasisth Kumar				
16.	0520940028	Pankaj Kumar	Study of steer by wire system	Completed (2009-2010)	No	
	0620940003	Amit Kumar Upadhyay				
	0620940014	Guru sewak Kesarwani				
	0620940039	Sarish Barnwal				
17.	0901140004	Aditya Raj	Design of Maglev Train	Completed (2012-2013)	Mr. D.P.Singh	
	0901140011	Arun Kumar Singh				
	0901140020	Gautam Kumar				
	0901140037	Rajeev Ranjan				
18.	0901140002	Abhishek Tiwari	Automatic Wiper starts when Rain Starts	Completed (2012-2013)	Mr. Sanjeev Kumar	
	0901140008	Amrit Gogoi				
	0901140018	Gaurav				
	0901140026	Mohd. Shamshad Alam				

Achievements and Awards

1. Reviewer of IMECE India 2026 Congress Committee in 2026.
2. Selected in Winner of East Zone (Bihar Region) and participated in Bharat Mandapam, Pragati Maidan, Delhi on 20-21 November 2025 in ONE HEALTH MISSION program.
3. Received Best Researcher Award from Scientific Laurels for 202 on 13th November 2025.
4. Associate NCC Officer (ANO) of IIIT Bhagalpur for 3 BN Coy Bihar from 13th September 2025 to Till Now.

5. Received **Distinguished Alumni Award (DAA)** from Institute of Technology and Management Gida Gorakhpur under the category of "**Academic Excellence**" on 20/03/2025.
6. Editorial board in Frontiers in Multidisciplinary Exploration Journal from February 2025 to till now.
7. 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
8. Performed a confidential task organized by the National Testing Agency (NTA) at New Delhi – 110020 on 12-16th September 2023
9. Invited as an Examiner in BCE Bhagalpur for Engineering graphics in B.Tech on 04/06/2022 and 03/12/2022.
10. F/I Security and F/I Transport of IIIT Bhagalpur from 19/07/2022 to 05/05/2026.
11. Delivered an Expert Talk on Investigations on actuation studies on shape memory alloy-based MEMS devices and its review on 30th April 2022 at Bhagalpur college of Engineering Bhagalpur.
12. Took Expert Lecture (online) in internship program, organized by CIDC from 25th August 2021 to 13th November 2021.
13. Participated QIP Short Term Course (online) on " " conducted by the Department of Materials Science and Engineering, IIT Kanpur from 15-20th March 2021.
14. Organized Short Term course on “Mechatronics, Instrumentations, Intelligent & Bio-Inspired Materials” at IIIT Bhagalpur from 10th -14th February 2021.
15. Delivered an Expert Talk on Recent Innovation in MEMS field : Mechatronics Approach on 04th February 2021 at Amity School of Engineering and Technology, Noida.
16. Delivered an Expert Talk on Mechanical System Design and Modelling in BCE Engineering College on 27th January 2021
17. Session Chaired in 11th International Conference on Materials Processing and Characterization -2020 (ICMPC 2020) organized by Department of Mechanical Engineering, Indian Institute of Technology Indore during 15-17 Dec 2020.
18. Organized a webinar on "Compact Modeling, Parameter Extraction and Verilog-A Implementation of RF MOS Devices: for 5G Applications" at IIIT Bhagalpur on 27th October 2020.

19. Training and Placement officer of SITE, Subharti University from 16th February 2019 to July 2019.
20. Reviewer of: Material Research Express (IOP Science), Microsystems Technologies (Springer), Current Mechanics and Advanced Materials and Journal of Intelligent Material systems and Manufacturing.
21. 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
22. Reviewer of International conference on Mechanical and material science engineering: Innovation and Research (ICMMSEIR:2018) organized by Sandip Foundation Nasik.
23. Appointed as an “Associate Bentham Science Ambassador” of Bentham science Journal from July 2019 onwards.
24. Best Outstanding research award in 2018 by Sandip Foundation Nasik on 5th July 2018.
25. Awarded for Research Associate ship (RA) from CSIR-HRDG (May 2018- March 2019)
26. Participated in TEQIP sponsored Short term training programme on Recent Trends in Mechatronics and Robotics-2018 on December 10th-14th, 2018.
27. Participated in 5th Industry Academia conclave at Indian Institute of Technology Indore on 6th September 2017.
28. Appreciation letter given by Discipline of Mechanical Engineering, IIT Indore on December 7th -21st 2016 for Successful completion (Member of student organizing Team) of ISHAN VIKAS PROGRAM.
29. Attended course on Lab-view for core-1 and core-2 sponsored by NI systems India on February 15th-16th 2016.
30. 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.
31. 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.
32. 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.
33. Awarded Half Time Teaching and Research Assistantship (HTRA) from IIT Indore (January 2014-April 2018)
34. All India Test Qualified in 2010 as 3rd Ranker in SLIET Entrance Test.

35. Achieved “B” Certificate with grade of “C” from NCC at Gorakhpur on 10 September 2003.

36. Achieved certificate of Participation from PCRA (Petroleum conservation Research Association), held in Maharana Pratap Polytechnic Gorakhpur, U.P. on 27-03-2003

➤ Contact Information:

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