Curriculum Vitae

Dr. Dinesh Kumar R.
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Dr. Dinesh Kumar R is serving as Assistant Professor in NIT Srinagar since March 2021, He is acting as Coordinator for Drone Research Centre NIT Srinagar also obtain both Small and Medium Drone Remote Pilot Certificate approved by DGCA RPTO to fly upto 150 kg Drones. He is Nodal Officer for Ministry of MSME Design, IPR & ESDP Scheme and brought in funding approximately Rs.2.60 crore in past four years from various funding agencies. He is serving as Technical Coordinator for Unnat Bharat Abiyan, RCI Kashmir. He is also assisting the IIEDC center as Institute Project Coordinator and Convener of Institutions Innovation Council (IIC). Before joining the Institute, he undertook Post-Doctoral Research Fellowship in the Department of Mechanical Engineering at the Indian Institute of Technology, Guwahati, from 2020-2021. He obtained his Ph.D. degree in 2019 from the National Institute of Technology Trichy. His thesis was an ISRO-sponsored project in Friction-Stir Welding of Aluminium Alloys for Aerospace Applications, a promising new area of research. He was also a Faculty Member in the Production Engineering Department of NIT, Trichy from 2014-2016 and Department of Mechanical Engineering NIT Goa, from June 2019- July 2020. His area of research includes drone/UAV and under water welding. He is currently guiding 2 PhD scholars and one completed. He has been granted with 1 utility and 2 design patent , with 20 publications to his credit in SCI/SCIE and SCOPUS indexed journals also contributed 15 book chapters in Metal Additive Manufacturing, Laser cladding, and Friction Stir Welding published by Springer. He has presented papers at various International Conferences across India. He has delivered around 50 Guest Lectures across the globe in engineering research, management and startup & innovations.

To learn about administration in academics he pursued his MBA from Bharathiyar University and LL.B from Annamalai University through distance Education. He was also awarded as the youngest TBI holder by Dr Jithedar Singh, Minister of Science and Technology at New Delhi. Also won the best IIC holder award for North West Zone from AICTE in IIC Regional meet Jaipur. He was the Founder-President of the Research Scholars Forum at NIT Trichy leading more than 1500 research scholars. He was a member of the NBA Accreditation team which was successful in getting the Washington Accord Accreditation in the Production and Metallurgy departments of NIT Trichy and Mechanical Department in NIT Srinagar. He is a passionate innovator guiding student projects and two of his students' teams won national-level awards that include the smart India Hackathon. He is also the coordinator for ARIIA, NISP, Yukti, and Kapila schemes of AICTE. He is also an external Ph.D. examiner of VTU Karnataka, Osmania University

Hyderabad, SCSVM University Kanchipuram .He has won State level competitions in Fencing, Judo, Swimming, Football and Athletics during his college days.

TEACHING EXPERIENCE

From	To	No of Years/ Months	Name of the Organization	Position Held
March 2021	Till Date	5 Years 09 months	National Institute of Technology Srinagar	Assistant Professor Department of Mechanical Engineering
June 2019	July 2020	1 year 1 month	National Institute of Technology Goa	Faculty on Contract in Department of Mechanical Engineering
August 2014	October 2015	1 year 2 months	National Institute of Technology Trichy	Temporary Faculty in Department of Production Engineering

Total Work Experience: 8 Years Months (18 Semesters)

RESEARCH EXPERIENCE

From	To	No of Years / Months	Funding organization	Position Held
September 2020	March 2021	7 months	IIT Guwahati/ MHRD/GoI	Post Doctoral Research Fellow, IIT Guwahati
March 2019	May 2019	3 Months	Royal Academy, London, United Kingdom	Research Associate in INDO UK Project
November 2017	November 2018	1 Year	Indian Space Research organization	Senior Research Fellow in ISRO RESPOND Project
November 2015	November 2017	2 Years	Indian Space Research organization	Junior Research Fellow in ISRO RESPOND Project

Total Research Experience: 3 Years 10 Months

ACADEMIC RECORDS (Full Time- Regular)

Course	Institution	Board / University	Year of Completion
Ph.D. (Manufacturing)	National Institute of Technology – Tiruchirappalli	NIT Trichy	2019
M.E (Production)	PSG College of Technology, Coimbatore.	Anna University	2014
B.E. (Mechanical)	Saranathan College of Engineering, Tiruchirappalli	Anna University	2012
XII	Mount Zion Matriculation Higher Secondary School, Pudukkottai	State Board	2008
X	St. Mary's Boys High School, Pudukkottai	State Board	2006

Professional Membership

1. Organizing Secretary- Indian Institute of Production Engineering, Jammu & Kashmir Chapter
2. Member – Society of Automotive Engineer (SAE)
3. Member – Indian Institute of Welding (IIW)

ACADEMIC RECORDS (Distance Education)

Course	Institution	Board / University	Year of Completion
LL.B	Annamalai University	Annamalai University	2018
MBA	Bharathiyar University	Bharathiyar University	2014

SPONSORED PROJECTS AND FUNDED PROGRAMS (Total Funding: 197.05 Lakhs)

1. Principal Investigator - Development and Testing of an Electronic Safety Device for Drone-Dropped Payload – India Army Baramulla Battalion – (Indo-Pak border range testing assignment) (Completed) June 2026 to September 2026.
2. Co-Principal Investigator – Psychology driven STEM Education for building scientific temperament in border villages of Kashmir – JKSTIC (Rs. 15 Lakhs) on going (2026-2028)
3. Principal Investigator/Mentor - Development of Ion Propulsion Noiseless Drone for Sustainable and Silent Aerial Transport sponsored by Ministry of MSME (Rs.15 lakhs) (On Going) (2025-26)
4. Principal Investigator/Mentor – Design and Fabrication of Wearable Health Monitoring System based on Flexible Thermoelectric Module for M/S PRAYOGIK SOLUTIONS PRIVATE LIMITED sponsored by Ministry of MSME (Rs.31.05 Lakhs) (2023-24) (Approved)
5. Nodal Officer/Principal Investigator for Design Expertise Awareness programs sponsored by Ministry of MSME (Rs.8.5 lakhs) (2024-25) (Completed)
6. Nodal Officer/Principal Investigator for ESDP, MDP, Advance MDP and ESDP sponsored by Ministry of MSME (29.75 lakhs) (2024-25) (Completed)
7. Principal Investigator/Mentor in Design and Fabrication of Willow sizing and Processing machine sponsored by Ministry of MSME under Design Champion Scheme (Rs.12.75 Lakhs) (2023-25) (Completed)
8. Principal Investigator/Nodal officer for coordination MSME Design awareness workshop for J&K sponsored by Ministry of MSME (3.5 Lakhs) (Completed)
9. Principal Investigator/Nodal officer & Coordinator for Advance MDP and ESDP sponsored by Ministry of MSME (26 lakhs) (2023-24) (Completed)
10. Co Principal Investigator in Impact study on Prime Minister scholarship in UT of Jammu, Kashmir & Ladhak sponsored by AICTE (20 Lakhs) (2022-23) (Completed)
11. Principal Investigator / Nodal Officer & Coordinator for Awareness Program for MSME in Jammu & Kashmir, sponsored by Ministry of MSME (13.5 Lakhs) (2022-23) (Completed)

12. Principal Investigator in Design and Fabrication of Floating Cycle for Dal Lake sponsored by Ministry of MSME under Design Champion Scheme (Rs.15 Lakhs) (2022-23) (Completed)
13. Principal Investigator in Design and Fabrication of Hoverboard sponsored by Ministry of MSME under Design Expertise Scheme (Rs.1.5 Lakhs) (2021-22) (Completed)
14. Program Coordinator HIGH END Workshop on 5 Axis CNC Machine under Accelerate Vigyan Scheme sponsored by SERB (1.5 Lakhs) (2021-22) (Completed)

Projects Under Consideration/ Applied

1. Principal Investigator- Centre of Excellence in Deign Innovation for Tourism, Entertainmnet and Sports (8.7 crore) under process (Ministry of MSME) (Under Consideration)
2. Principal Investigator- Morphing Wing VTOL for High Altitude cleared round 1 (ANRF-MAHA Drones) (10.7 crore) under consideration

PATENT

1. Muthukumaran S, Dinesh Kumar R – Forced Cooling Friction Stir Welding Appl.no.: 202141059942/ Patent No. 418337 (Granted)
2. Dr Varthini Rajagopal, Dr Dinesh Kumar R, Dr Rajaganapathy Chinnachamy –Ceiling Rose Holder Design Number: 436109-001 (Granted)
3. Dr Dinesh Kumar R et al – Eco Smart Water Heater Industrial Design Number: 458509-001 (Published)

CONSULTANCY

1. Vetting the detailed Design Drawing of Old penstock Gates of existing Water Channel Replacement (July 2026) consultancy charge Rs.50,000/- (Completed) Project value: 29 Lakhs

CERTIFICATIONS

1. Drone Remote Pilot Certificate approved by DGCA for Medium Class Drone (above 25 kg to 150 kg) Certificate No: 23226102D54DR dt 24.05.2025 valid up to 23.05.2035.
2. Drone Remote Pilot Certificate approved by DGCA for Small Category Drones (above 2 kg -25 kg) Certificate No: 23225508D54DR dt. 24.07.2024 valid up to 23.07.2034
3. NDT Level – II Certification in VT,DPT, UT, MPT, RT approved by ASNT dt. 20.01.2024 valid upto 19.01.2029

PhD Thesis Guidance

1. Underwater welding of 316 L materials- Mr. Aatif Wani (ongoing)
2. Underwater welding of submarine materials- Mr. Mohamed Ashraf Hajam (ongoing)
3. WAAM of Titanium alloys for Aerospace Application- Ms. Mir Qurrat (Completed April 2026)

Master Thesis Guidance

1.Design and Analysis of a Prosthetic Socket for bellow knee Amputation – Mr. Hanna Aijaz Malik (2022MMECMS009)

2.Effect of Welding Parameter on Microstructure and Hardness of SS410 fabricated Single Bead using CMT based WAAM process – Mr. Mir Tanveer Ahmad (2021MMECMS009)
3. Regional Innovation System of Kashmir : A Conceptual Framework –Mr.Muzamil Farooq (2020MSMTIED002)

Bachelor Thesis Guidance

1. Design and Fabrication of Hydraulic Powered Bicycle - Nallam Siva Narasimha Sai, (2020BMEC077); Mannam Sravya, (2020bmec095); Pittu Vishnu Vardhan Reddy, (2020bmec101)
2. Design And Fabrication of Indigenous Willow Wicker Splitting and Sizing Machine - Sneha Gupta (2020bmec061); Ankita Kumari (2020bmec068);Avinash Kumar (2020bmec106);Shrishti Srivastava (2020bmec114)
3. Design and fabrication of portable equipment for Artificial Glacier (Ice Stupa) by water atomization Sumera Bano, (2020BMEC027) , Rishav Kumar (2020BMEC082), Mannem Veera Raghava Reddy, (2020bmec105)
4. Design and fabrication of Automated planting machine – Aryan Bral (2019BMEC024); Deepak kataria (2019BMEC041)

PUBLICATIONS

Journals Published

1. **Dinesh Kumar Rajendran**, Ganesa Balamurugan.K, S.Muthukumaran- "Investigation on the mechanical and wear properties of Al/Mg bimetallic composite fabricated by friction stir processing technique" - Transactions of the Indian Institute of Metals (2018) 71(5):1247–1255 (**SCI**). ISSN: 0972-2815
2. **Dinesh Kumar R**, S.Muthukumaran, Vincent Xavier, T.Venkateswaran, D.Sivakumar- "Investigation of weld parameters on ductility, fracture behavior and metal flow of friction stir welded AA2219-T87 alloy"- Journal of Central South University (2019) 26: 2318−2327 (**SCIE**). ISSN: 2095-2899
3. **Dinesh Kumar R**, Ilhar Ul Hasan, S.Muthukumaran, T.Venkateswaran, D.Sivakumar- "Single and Multi-response Optimization and validation of mechanical properties in dissimilar friction stir welded AA2219-T87 and AA7075-T73 alloys using T-GRA"- Experimental Techniques (2019) **43**, 245–259 (**SCIE**). ISSN:0732-8818
4. **Dinesh Kumar R**, S.Muthukumaran, T.Venkateswaran, D.Sivakumar- "Failure analysis and process parameter influence on Mechanical and Metallurgical behaviour of Friction Stir Welded AA2219-T87 Butt Joints" – Surface Review and Letters (2019) 6(26): 1142-1154 (**SCIE**) https://doi.org/10.1142/S0218625X19501075. ISSN: 0218-625X
5. R. Nandhini, **R. Dinesh Kumar**, S. Muthukumaran, S. Kumaran- "Analysis of Mechanical and Crystalline Characteristics of Polyamide 66 Joints Welded by Novel Friction Stir Welding" -Arabian journal for science and engineering (2019) **44(**9), 7399–7405 **(SCIE)**. ISSN 1319-8025

6. Dharun Kasilingam, SP Sathiya Prabhakaran, **Dinesh Kumar Rajendran**, Varthini Rajagopal, T Santhosh Kumar, "Exploring the Growth of COVID-19 Cases using Exponential Modelling Across 42 Countries and Predicting Signs of Initial Containment using Machine learning" Transboundary and Emerging Disease 2021 May;68(3):1001-1018. doi: 10.1111/tbed.13764 (**SCI**)
7. **Dinesh Kumar Rajendran**, Varthini Rajagopal, Alagumanian, S. et al. Systematic literature review on novel corona virus SARS-CoV-2: a threat to human era. VirusDis. 31, 161–173 (2020).
8. **Dinesh Kumar R**, Elangovan S, Siva Shanmugam N. Parametric optimisation of pulsed-TIG welding process in butt joining of 304L austenitic stainless steel sheets. International Journal of Research in Engineering and Technology. 2014;6:213-9.
9. Nandhini, R., **Dinesh Kumar R**, Muthukumaran, S., & Kumaran, S. (2019). Optimization of Welding Process Parameters in Novel Friction Stir Welding of Polyamide 66 Joints. In Materials Science Forum (Vol. 969, pp. 828–833). Trans Tech Publications, Ltd.
10. S. Sobana, S. Alagumanian, **R. Dinesh Kumar**, P. Sakthivel, P. Sivakumar (2020), Effect Of Al3 + Inclusion on Characterization Exploration, Magnetic and Anti-Cancer Properties of Cobalt Ferrite Nanoparticles Synthesised by Co-Precipitation Process. International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9 Issue-3
11. Jeyaprakash N, Yang C-H, Karuppasamy SS, **Dinesh Kumar R**. Correlation of microstructural with corrosion behaviour of Ti-6Al-4V specimens developed through selective laser melting technique. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2022;236(5):2240-2251. doi:10.1177/09544089221087823
12. **Dinesh Kumar, R.**, Srija, D., Suresh, P., & Muthukumaran, S. (2019). Optimization of Process Parameters for Improved Corrosion Resistance and Microstructural Exploration in Friction Stir Welding of AA2024 - AA6061. In Materials Science Forum (Vol. 969, pp. 589–594). Trans Tech Publications, Ltd. https://doi.org/10.4028/www.scientific.net/msf.969.589
13. A. Karpagaraj, J. Anthuvan Stephen Edberk, T. Deepan Bharathi Kannan, **Dinesh Kumar Rajendran**, and T. Ramesh (2022) Effect of GTAW process parameters on joining stainless steel 316L. AIP Conference Proceedings 2460, 070010 (2022); https://doi.org/10.1063/5.0095789
14. Sagar M. Baligidada, Syed Abdullaha, **Dinesh Kumar Rajendran**, Gavaskar Thodda (2023) Investigation on fatigue life of HAp and rGO hybrid coating on the PEEK artificial screws for dental implant, MaterialsChemistryandPhysics309(2023)128381 https://doi.org/10.1016/j.matchemphys.2023.128381
15. Varthini Rajagopal, **Dinesh Kumar Rajendran,** Muthukumaran S (2023) Multi-objective optimization and characterization of AA2219-T87 and AA6061-T6 dissimilar friction stir welded joints under the effect of copper backing using AUGMECON. Sādhanā 49, 32 (2024). https://doi.org/10.1007/s12046-023-02360-4
16. Varthini R, **Dinesh Kumar R**, S.Muthukumaran, - Parametric, Mechanical and Metallurgical Characterization of Dissimilar Friction Stir Welded AA2014-AA2219

Indian Journal of Engineering & Materials Sciences Vol. 30, December 2023, pp. 766-779 DOI: 10.56042/ijems.v30i6.2528

17. Varthini R, **Dinesh Kumar R** - Treatments and Characterization Techniques for Bifilm induced Casting Defects: A Systematic Review and Network Mapping – Sadanaa (Accepted)
18. Hajam MA, **Rajendran DK**. Analysis of microstructural, corrosion, and wear properties of austenite SS304 joints welded by underwater wet automated metal arc welding. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology. 2025;0(0). doi:10.1177/13506501241305670
19. Ain, M.Q.U., Naik, D.K., **Rajendran, D.K.** et al. Comprehensive analysis of experimental studies in cold metal transfer welding. Discov Appl Sci 7, 590 (2025). https://doi.org/10.1007/s42452-025-07065-3
20. Hajam, M.A., **Rajendran, D.K**. Tribo-Mechanical Assessment of Austenitic SS304 Welds Fabricated by Underwater Wet Automated Metal Arc Welding. J Bio Tribo Corros 11, 99 (2025). https://doi.org/10.1007/s40735-025-01013-9
21. Mir Qurrat Ul Ain, Deepak Kumar Naik, **Dinesh Kumar Rajendran**, Shiva Sekar "Copper 3D printing: Optimization of cold metal transfer Wire Arc Additive Manufacturing using advanced predictive models". Materials Today Communications,Vol.50,2026, https://doi.org/10.1016/j.mtcomm.2026.114644.
22. Ain, M. Q. U., Naik, D. K., **Rajendran, D. K.**, & Sekar, S. (2025). Enhanced interface stability in Cu–DSS bimetallic structures via cold metal transfer additive manufacturing. Canadian Metallurgical Quarterly, 1–13. https://doi.org/10.1080/00084433.2025.2564000.
23. Rajagopal, V., Rajendran, D.K., Chinnachamy, R. et al. Experimental and numerical investigations of 3D printed bio-inspired micro-wind turbine blade profiles. Sādhanā 51, 208 (2026). https://doi.org/10.1007/s12046-026-03104-w
24. Mohd Ashraf Hajam and Dinesh Kumar Rajendran Analysis of microstructural, corrosion, and wear properties of austenite SS304 joints welded by underwater wet automated metal arc welding Proc IMechE Part J: J Engineering Tribology (2026), Vol. 240(3) 441–452
25. Aaatif Wani and Dinesh Kumar Rajendran, "Systematic literature review on Underwater wet Welding. Russian Metallurgy (Metally) (Accepted)

Journals under Review

1. Mohammad Muhiuddin , **Dinesh Kumar R**, S.Muthukumaran-" Microstructural Evaluation and Deposition Improvement on Welding of Structural Steel (IS2062) using Hyperfill MIG and Tandem MIG Process for Heavy Fabrication Applications" – Journal of Advance Manufacturing Technology

Book Edited

1. Swarm and Nano Robotics: Advances in Decision Making, Bio-sensing, Collective Control and Applications– **Dinesh Kumar Rajendran**,Syed Quadir Moinuddin, Shaik Himam Saheb, S. Balamurugan – Willey https://www.wiley.com/en-us/shop/general-introductory-electrical-electronics-engineering/swarm-and-nano-robotics-advances-in-decision-making-bio-sensing-collective-control-and-applications-p-9781394441303 (to be online from December 2026)

Book Chapter

1. Ganesa Balamurugan Kannan and **Dinesh Kumar Rajendran**, "A Review on Status of Research in Metal Additive Manufacturing" Advances in 3D Printing & Additive Manufacturing Technologie Wimpenny, D.I., Pandey, P.M., Kumar, L.J., Eds. Springer: Singapore, 2017; pp. 95–100 (**Springer Book Chapter**)
2. **Dinesh Kumar R**, Varthini R, S.Muthukumaran – "Pareto optimization and metallurgical characterizations of dissimilar friction stir welded AA6061-AA7075 alloys"- 2020 (**Springer Book Chapter**)
3. **Dinesh Kumar R**, Pradeep S, S.Muthukumaran- Multi-response optimization and mechanical behaviour of Al-Si /Al-Cu alloys dissimilar friction stir welding -2020 (**Springer Book Chapter**)
4. Varthini Rajagopal, **Dinesh Kumar Rajendran**, B Santhi, Arjun R Jagadish- Selective Laser Melting Based Additive Manufacturing: Materials, Properties and Defect Analysis 2021/11/29 **(Bentham Science Publishers)**
5. YG Bala, **Dinesh Kumar Rajendran**, Varthini Rajagopal - A Review on Binder Jetting Fabrication: Materials, Characterizations and Challenges -2021/11/29 **(Bentham Science Publishers)**
6. **R Dinesh Kumar**, Baskaran Balaji, Kannan Ganesa Balamurugan - Microstructural Characterization and Microhardness Investigations on Friction Stir Additive Manufactured Commercially Pure Aluminium Alloy- 2022 **(Springer, Singapore)**
7. Aniruddha Ghosh, **Dinesh Kumar Rajendran**, Varthini Rajagopal - Inhibiting COVID-19 Transmission in India Through Design of Automated Contactless Face Mask Vending Cum Disposal Machine with Self-Sterilization Unit – 2022 **(Springer, Singapore)**
8. Sumanth Ratna Kandavalli, Anthuvan Stephen Edberk, **Dinesh Kumar R** - A Progressive Review on Wire Arc Additive Manufacturing: Mechanical Properties, Metallurgical and Defect Analysis 2021/11/29 **(Bentham Science Publishers)**
9. **R Dinesh Kumar**, S Pradeep, S Muthukumaran - Multi-response Optimization and Mechanical Behaviour of Al–Cu/Al–Mg–Si Alloys by Dissimilar Friction Stir Welding 2021 **(Springer, Singapore)**
10. **R Dinesh Kumar**, R Varthini, S Muthukumaran - Pareto Optimization and Metallurgical Characterizations of Dissimilar Friction Stir Welded AA6061–AA7075 Alloys 2021**(Springer, Singapore)**
11. Tabish Hameed Khan, **R Dinesh Kumar**, Saad Parvez - Sustainable Color Code Generation for Skin and Hair Coloring Through Value Improvement of Herbal Henna – Lecture notes in Multi disciplinary industrial Engineering **(Springer)**
12. Y.G.Bala, B.Santhi, **R.Dinesh Kumar –** Sustainability in Welding Industries **(Wiley online Library)**
13. Y.G.Bala, **R.Dinesh Kumar –** Global Welding Market Growth **(Wiley online Library)**
14. Deepak Kumar Naik, Ved Prakash Sharma, R.Dinesh Kumar – Automation in Welding Industries **(Wiley online Library)**
15. K.Veningston, **Dinesh Kumar R** - VR and AR in Welding Technologies **(Wiley Online Library)**

INTERNATIONAL CONFERENCE ATTENDED:

1. **Dinesh Kumar R**, S.Muthukumaran, T.Venkateswaran, Vincent Xavier, D.Sivakumar "Effect of tool shoulder profile on mechanical and metallurgical properties of dissimilar friction stir welded AA6061-AA7075" – ICAMPS –IIM Trivandrum
2. **Dinesh Kumar R**, Ganesa Balamurugan K, S.Muthukumaran- " A Study on the Effect of Process Parameters on Mechanical Property of Friction Stir Additive Manufactured Al 1000 plates" – International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems-NIT Trichy
3. Nandhini R, **Dinesh Kumar R**, S.Muthukumaran, S.Kumaran- "Tribological Behaviour of Friction Stir Processed Glass Fiber Reinforced (GFR) Polyamide 66 Composite"- International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems-NIT Trichy
4. **Dinesh Kumar R**, S.Muthukumaran, T.Venkateswaran, D.Sivakumar- "Multi-Response Optimization of Friction Stir Welded AA2219-T87 by Taguchi -Grey Relation Analysis and Metallurgical Inferences"-International Conference RIPE -17 at Madras Institute of Technology- Chennai.
5. Khan, Tabish Hameed, R. Dinesh Kumar, and Saad Parvez. "Sustainable Color Code Generation for Skin and Hair Coloring Through Value Improvement of Herbal Henna." International Conference on Recent Advances in Industrial and Systems Engineering. Singapore: Springer Nature Singapore, 2023.

CONFERENCE ORGANISED

1. Organizing Secretary – International Conference on Modelling, Simulation and Optimization of Energy Systems (05- 06 Oct 2026) at NIT Srinagar in Colloboration with NIT Jalandhar
2. Convenor- National Conference on Role of Academic Driven Startup in Developing Economy of J&K (29-30 June 2024) at NIT Srinagar in collaboration Department of Holistic Education
3. Organizing Secretary – National Conference on Design Component under MSME Innovation Scheme (13-14 March, 2023) at NIT Srinagar in collaboration with Indian Army
4. Organizing Secretary – National Conference on Industry Fest and Innovation Hunt (01-03 March, 2023) at NIT Srinagar in collaboration with Indian Army
5. Chairman - First Research Colloquium on Emerging Trends in Engineering, Science, Management and Technology (23-25 March, 2018) - NIT Trichy.

GUEST LECTURES DELIVERED

S.No	Title	Program and College	Date and Participant

1.	Psychology Driven STEM Education	6 Days Master training program on Psychology Driven STEM Education for Govt. School Teachers of Bandipora	07th to 12th September 2026
2.	Psychology Driven STEM Education	3 Days Master training program on Psychology Driven STEM Education for Govt. School Teachers of Srinagar	04 to 06 August 2026
3.	DRONE Technology	One Week Workshop on DRONE and integrated AI by University of Kashmir, North Campus	20 to 24 July 2026
4.	Automation in Apricot Processing	Three days Mentorship training on Apricot Processing, NIELIT Leh, UT of Ladakh	28th 29th March 2026
5.	Basic Principle and Physics Behind Drone	Two day workshop on Advances Technology for future at Institute of Technology, Kashmir University, Zakura	21st October 2025
6.	Innovation for Modern Agriculture using 3D Printing and Drone	One day workshop on Rural development by Unnat Bharat Abiyan at NIT Srinagar	02nd September 2025
7.	Introduction to Drone Technology	One Week Program on Drone and AI assisted Swarm by Govt. College for Women , MA Road, Srinagar	21st August 2025 to 25th August 2025
8.	Design Thinking for Sustainable Innovation	ATAL sponsored FDP Bishop Heber College, Tiriuchirapalli	4th & 5th August 2025 50 p
9.	Workshop on Design Thinking	IIC program for DUD Islamic College of Commerce	23rd to 25th July 2025 15 participants
10.	Basic Principals of Drone and Regulations	MIETY sponsored Bootcamp Government Women's College MA Road Srinagar	21st & 22nd July 60 participants
11.	Journey from Drone Soccer to RC planes	Anna University Sponsored Workshop University of Ladakh, Leh Campus	1st and 2nd May 2025 50 paticipants
12.	Designing of Nano drones for defense	Central University of Jammu	03rd and 4th March 2025 60 participants
13.	Drone Technology – One month skill development program	NIT Srinagar and MSME Sanath Nagar	02.01.2025 to 06.02.2025 25 participants
14.	Design Thinking mindset for Innovation & Startup	One Week ATAL sponsored FDP on Women in Startup and Entrepreneurship at Holycross College, Trichy, Tamilnadu	09th November 2024, 50 participant

15.	Additive manufacturing – Simulation using 3D slicer software	One Week ATAL sponsored FDP on Additive Manufacturing at Government College of Engineering Srirangam, Tamilnadu	07th November 2024, 50 participant
16.	Design Thinking – A blueprint for Innovation	One Day workshop on Design Thinking at KSIET, Vajarahalli, Karnataka	25th October 2024 , 100 participants
17.	Recent Advancements in Mechanical and Aerospace Technologies	National Space Day – NIT Srinagar	23rd August 2024
18.	How to Plan for Start-up: Legal & Ethical Steps	Webinar at Pace Institute of Technology-Andrapradesh	22nd July 2024
19.	Industry 5.0 – Recent trends in Mechanical Engineering	One week FDP on SRM- Eeswari Engineering College Chennai	27th May to 1st June 2024
20.	Design Thinking for Entrepreneurs and Startup	One Week Boot Camp on Entrepreneurship Institute of Technology, Zakura Campus	28th March 2024
21.	Design Thinking for Startup	One Day Design Awareness Program at IIM Jammu	23rd March 2024
22.	Design Expertise Scheme for Industrial Cluster	Awareness program on MSME Design Expertise Scheme at Bhari bharmana Industrial Estate	15th February 2024
23.	Underwater Welding	Skilling, Reskilling and Upskilling by JK skill development	03th February 2024
24.	Design Thinking for Entrepreneurs	Vendor Development Program organized by MSME DFO Jammu	02nd February 2024
25.	Design Thinking for Biomedical Implant Fabrication	National Science Day organized by Kashmir University North Campus	28th February 2024
26.	3D Printing Technology	One Week Workshop on Advanced 3D Printing under ESDP Scheme	19th February to 24th February 2024
27.	Systematic Literature Review	One day workshop organized by Loyola Chennai	19th January 2024
28.	Smart tools for research	One day workshop organized by VIT Chennai	11th January 2024
29.	Design Thinking for Startup	One day workshop organized by Islamic College of Science and Commerce, Zakora Campus	6th September 2023, 60 participants

30.	Recent Trends in Bio 3D printing and its applications	FDP organized by Dept. of Mechanical Engineering, SRM Madurai, Tamilnadu	31st August 2023, 50 participants
31.	Metal 3D Printing Technology	FDP organized by Dept. of Mechanical Engineering, PSN College of Engineering, Tirunelveli, Tamilnadu	24th August 2023, 80 participants
32.	Under Water Welding	FDP organized by Dept. of Mechanical Engineering,Kallam Haranadhareddy Institute of Technology, Guntur, Andra Pradesh	26 June 2023, 120 faculty
33.	Industry 5.0	Techvaganza, NIT Srinagar	09 June 2023, 100 participants
34.	Design Thinking for Engineering Design	FDP organized by Dept. of Mechanical Engineering, Alliance University , Banglore	23rd February 2023, 200 Faculty
35.	Process of Innovation Development and Technology Transfer	Guest Lecture organized by IIC and Dept of Chemistry, VIT University, Chennai Campus	17th February 2023, 200 pariciapnts
36.	Design Thinking for Strategy, Innovation and Entrepreneurship	Webinar organized by Institutions Innovation Council, Sri Eshwar College of Engineering, Coimbatore	04th February 2023, 150 participants
37.	Advanced Welding Techniques	Guest Lecture Organised by Dept. of Mechanical Engineering, Periyar Maniammai University, Tanjavur	03rd February 2023, 60 participants
38.	Design Thinking for Career Design	One Day Interactive Seminar on Design Thinking organised by Bishop Heber College, Trichy	19th January 2023, 600 participants
39.	Advancement in Mechanical and Automobile Technologies	One Day Workshop on Recent Technologies in Welding organized by Easwari Engineering College, Chennai	11th January 2023, 100 Participants
40.	3D Printing Technologies	One Day International Seminar on Innovation Technologies and Cyber Security organised by Holy Cross College, Trichy	5th January 2023, 200 Participants
41.	Stress Strain Curve	Online 6 day FDTP on Strength of Materials organized by Government Engineering College, Srirangam	12th to 17nd December 2022, 60 Faculty
42.	Recent Trends in Mechanical Engineering	2nd National Conference on Recent Innovation in Mechanical Engineering organised by Jai Shriram Engineering College	18th November 2022, 400 participants

43.	Opportunities & Higher Education in Mechanical Engineering	Online Webinar for Career Guidance organised by Annamachariya Institute of Technology and Sciences, Rajampet	10th September 2022, 100 paricipants
44.	Effect of Friction Stir Welding in Joining of Aluminium Magnesium Dissimilar Alloys for Engineering Applications	One Week FDP on Advanced Research in Friction Stir Welding and its Engineering Applications	22nd to 26th August 2022, 70 faculty
45.	Design Thinking : A launching Pad for Startup	Impact Lecture series organised by SSM College of Engineering in association with IIEDC Srinagar	25th June 2022, 100 participants
46.	Insight and GrabCAD basics, startup opportunity in Bio Medical Devices	One Week Online STTP on Bio Medical Devices : Devices and Manufacturing organized by NIT Srinagar	20th to 24th June 2022, 60 participants
47.	NAAC- Student Support and Progression	Two days National Level Seminar on Revised Assessment and Accreditation Framework of NAAC : understanding and opportunities in HEI's organized by Kongunadu College of Engineering and Technology, Namakkal	6th to 7th May, 2022 , 50 faculties
48.	3D Printing of Human Organs and Drugs	One Week Workshop on Innovative Technologies in Chemistry	25th to 30th April 2022, 100 faculties
49.	The journey from nowhere to somewhere	Career Guidance session organised by Sankara Matriculation School, Trichy	23rd March 2022, 300 school students
50.	Research possibilities and basics of CNC simulation	Two Weeks High End Workshop on 5 axis CNC Machine organized by NIT Srinagar	7th to 14th March 2022, 50 students
51.	Innovation Techniques of 3D Printing	One day Online Workshop on Innovation Organized by Annapoorana Engineering College	16th February 2022, 300 students
52.	Macaulay and Area Moment Method	Online 6 day FDTP on Strength of Materials organized by Government Engineering College, Srirangam	17th to 22nd January 2022, 60 Faculty
53.	Design Thinking and Practices	One day Impact Workshop on Entrepreneurship, Research & Innovation, IIEDC Srinagar	29 October 2021, 100 students

54.	Friction Stir Welding of Light Metals/Alloys for Aerospace applications	Two Week Virtual FDP on Advanced Materials and Manufacturing Technologies organized by Easwari Engineering College Chennai	September 29, 2021 , 100 faculty
55.	Friction Stir Welding of Light Metals/Alloys for Aerospace applications	A Five Day Online Faculty Development Program on Applications of Artificial Intelligence in Modern Manufacturing organized by Karunya University , Coimbatore	August 3-7, 2021, 60 faculty
56.	Advanced Welding Process for Industry 4.0	A three day FDP on Industry 4.0 : Advanced Manufacturing organized by KSRM College of Engineering, Andra Pradesh	June 18-21, 2021, 100 faculty
57.	AutoCAD Hands on Training	One Day Workshop on Design and Manufacturing by CESCO NIT Goa	November 2019
58.	How to Present a Paper/Poster in a Conference	CESCO inauguration at NIT Goa	September 2019
59.	Research Tools (Mendeley, Turnitin and Grammarly)	Research Colloquium Organized by RSFNITT, NIT Trichy	June 2018, 100 Research Scholars
60.	Friction Stir Welding	METTLE-18, Annual Technical Symposium in NIT Trichy.	March 2018, 400 students
61.	Basic Computer Training	Upskilling Program for Middle School Teacher at Thiruverumbur block	December 2017, 60 teachers

Company Owned

1.Aramvisai Pvt Ltd – Works on DRONE and STEM Technology CIN: U72100JK2026PTC019217 (DPIIT Registered)

Startup Mentor

1. Bhramastra Aerospace Pvt. Ltd, Chennai
2. B.Naik Agro Pvt. Ltd, Kashmir
3. Hennative, Kashmir

Other Outreach

1. Member of Board of Studies, Islamic College of Commerce, Srinagar.
2. Ph.D Examiner- VTU Karnataka, Osmania Hyderabad, SCSVM University Kanchipuram
3. B.Tech Examiner – Shri Mata Vaishnov Devi University, Jammu
4. Panelist – Kashmir Climate Collect Conclave (May, 2023)
5.Conference Session Chair- ICIMES-2023, Fifth International Conference Intelligent Manufacturing and Energy Sustainability, Hyderabad (June 23-24, 2023)
6. MSME Selection Committee – CNC Trainer, DI MSME Srinagar (June 23, 2023)

7. Member of JK youth mission for Skill development (Since June 2023)

GUEST LECTURES AND WORKSHOPS ORGANISED

1. Coordinator of One week awareness program on sensitizing MSMEs in Jammu and Kashmir 28th February to 6th March, 2023 funded by Ministry of MSME (3.5 Lakhs)
2. Coordinator of One Week Online STTP on Bio Medical Devices : Devices and Manufacturing by ATAL, AICTE from 10rd to 15th June 2022. (1 Lakhs)
3. Coordinator of Online High End Workshop on 5 Axis CNC Machine sponsored by SERB, Accelerate Vigyan scheme from 7th to 14th March 2022 (1.5 Lakhs)
4. Coordinator of Online FDP on Additive Manufacturing from 3D printing to Factory Floor sponsored by ATAL, AICTE from 23rd to 27th August 2021. (1 Lakhs)
5. Mastering the Art of Scientific Publication
6. The Usefulness of Useless Knowledge delivered
7. Ethics in Research and Profession delivered by Professor James Conrad from the University of North Carolina, USA
8. Guest Lecture on Nature talk on Snakes
9. Guest Lecture on Veganism and Animal Rights
10. Workshop on E-learning technology for Effective Research
11. Workshop on Web of Sciences and Endnote
12. Workshop on Grammarly Writing Support Software and Citation Audit Tool
13. Workshop on Authoring Quality Technical Paper and Effective use of IEEE Digital Library
14. Workshop on Latex
15. Workshop on Systematic approach for Literature Survey

COMPUTER PROFICIENCY

Software known: Auto CADD, Pro-E, Arena, Factory I/O, Minitab, Grab CAD, 3D Slicer

ADMINISTRATIVE EXPERIENCE

- Department PhD Coordinator from May 2026 to till date.
- Technical Coordinator – Unnat Bharat Abiyan- RCI Srinagar (Since September 2025)
- Co-Coordinator of Rang-E-Chinar 2.0 cultural festival of Jammu & Kashmir organized on 24th and 25th October 2025.
- Coordinator of SANGAM 2025 (Global Alumni Meet of NIT Srinagar) organized on 10th and 11th October 2025
- Local Institute Coordinator & Jury for Hackathon for Social Cause by Ministry of Youth Affairs and Sports 2025
- SPOC of Smart India Hackathon 2025
- Department GEM Coordinator from August 2025 for purchases.
- Final Year & Project Coordinator from June 2025 to till date
- SPOC and Venue Management team of Smart Indai Hackathon Kashmir Edition organized between (November 10 and 11 2024) at NIT Srinagar

- Coordinator- Global Alumni Meet 2024 with 100 plus alumni across the globe participated (11th and 12th October 2024)
- Co-Coordinator – TECHVAGANZA 2024, Largest Technical Festival of J&K with footfall of 10,000 students (10th and 11th October 2024)
- Nodal Officer – SVEEP 2024, Voting Campaigning in collaboration with Election Commission of India (26th April to 4th May 2024)
- Coordinator – Rang-e-Chinar 2023, Cultural Festival of NIT Srinagar holding a footfall of 12,000 students across India (3rd and 4th November 2023)
- Coordinator – Cultural Club of Student Gymkhana (July 2023- till date)
- Nodal Officer – MSME ESDP (May 2023 – till date)
- Coordinator – Alumni Cell (June 2023- till date)
- Convenor - Institution Innovation Council NIT Srinagar (June 2021 – till date)
- Coordinator – MSME Design & IPR Scheme, NIT Srinagar (June 2022 – till date)
- Coordinator – ARIIA, NISP, Kapila, Yukthi (AICTE) NIT Srinagar (June 2022 – till date)
- Department Web Page Coordinator, Mechanical Engineering NIT Srinagar (January 2022- till date)
- PhD Coordinator for Mechanical Engineering NIT Srinagar (January 2022- December 2022)
- Department NBA Criterion 2 and 3 incharge (June 2021 to till date)
- Department NIRF Research and perception Incharge (2021-2023)
- Project Coordinator - IIEDC NIT Srinagar (June 2021 – till date)
- Faculty Coordinator Mechanical Engineering Technical Association - NIT Goa
- Department Website In charge - NIT Goa (2019-2020)
- Member of Mechanical Engineering Syllabus Framing Committee- NIT Goa (2019-2020)
- Ph.D./MS Secretary, Students Council NIT Trichy (2017-2018)
- Founder & President of Research Scholar Forum, NIT Trichy (2015-2018) (rsf.nitt.edu)
- Student organizer of Smart India Hackathon 2018
- Team lead in HumaNITTy. (Social Service Initiative) (2015-2019)
- Member of organizing committee in IMME17 conference.
- Organizer in INCAPIE conference 2015.
- Member in NBA accreditation documentation committee for Department of Production Engineering, NIT Trichy

I hereby declare that all above-mentioned information is in accordance with fact or truth up to my knowledge and I bear the responsibilities for the correctness of the above-mentioned particulars.

NIT Srinagar
Jammu & Kashmir
India

Dr. Dinesh Kumar R
Assistant Professor,
Department of Mechanical Engg.
NIT Srinagar

Date:

Place: