Dr. C. Chandrasekhara Sastry

Assistant Professor (Grade I), Department of Mechanical Engineering

Indian Institute of Information Technology Design and Manufacturing Kurnool, Andhra Pradesh, India | Updated on 15th Nov 2026

CFTI | Institute of National Importance | Ministry of Education, Government of India

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Professional Profile

Mechanical engineering academic and researcher specializing in laser powder bed fusion, architected metallic lattices, advanced manufacturing, physics-guided AI/ML, digital twins, defence and space materials. **Research profile as of 15th November 2026: 69 journal publications (37 Q1, 21 Q2, 10 Q3, 1 Q4); 860 Google Scholar citations, h-index 17, i10-index 33; PI funding ₹1,89,96,679 and total PI/Co-PI funding handled ₹2,37,19,679; 6 utility patents filed (5 granted), 6 design patents filed/granted; 4 completed and 5 ongoing Ph.D. scholars.**

Academic and Research Snapshot

Current Position	Assistant Professor (Grade I), Mechanical Engineering, IIITDM Kurnool
Faculty ID	F017
Date of Joining IIITDM Kurnool	28th December 2020
Research Areas	Additive Manufacturing; Advanced Manufacturing Processes; Production Engineering; AI/ML in Manufacturing; Defence and Space Materials
Journal Publications	69 journal publications
Indexing Summary	62 SCIE, 6 ESCI, 1 Scopus-only
Quality Distribution	Q1: 37; Q2: 21; Q3: 10; Q4: 1
Since 2023	52 journal publications dated 2023-2026; 32 Q1 papers
Google Scholar Metrics	All / Since 2021; Citations: 860 / 826; h-index: 17 / 17; i10-index: 33 / 33
Conference Publications	2 total; 2 since 2023; A/A* conferences: NIL
Patents	Utility: 6 filed, 5 granted; Design: 6 filed/granted
Project Funding (Principal Investigator (PI)/ Co-Principal Investigator (Co-PI))	PI: ₹1,89,96,679/- Co-PI: ₹47,23,000/- Total handled: ₹2,37,19,679/-
Ph.D. Supervision	4 Awarded/Completed; 5 Ongoing; 9 total supervised/supervising at IIITDM Kurnool

Education

Year	Degree / Institution
2020	Ph.D. in Manufacturing Engineering, Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai
2015	M.E. in Computer Integrated Manufacturing, Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai
2012	B.E. in Mechanical Engineering, P.E.S. Institute of Technology, Bangalore, Visvesvaraya Technological University, Belgaum, Karnataka

Professional Appointments

Period	Position / Organization
30th Oct 2023 - Present	Assistant Professor (Grade I), Department of Mechanical Engineering, IIITDM Kurnool
28th Dec 2020 - 30th Oct 2023	Assistant Professor (Grade II), Department of Mechanical Engineering, IIITDM Kurnool
06th Dec 2019 - 28th Dec 2020	Temporary Faculty, Department of Mechanical Engineering, IIITDM Kurnool
Mar 2016 - Nov 2019	Teaching Fellow, Department of Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai
Sep 2015 - Jul 2016	Assistant System Engineer - Trainee, Tata Consultancy Services (Engineering Division)
Sep 2012 - May 2013	Project Associate, Department of Mechanical Engineering, IIT Madras

Research Leadership and Funding

Funding summary:
Principal Investigator funding: ₹1,89,96,679; Co-Principal Investigator funding: ₹47,23,000;
Total project funding handled: ₹2,37,19,679. Current ongoing PI projects: 1; Ongoing PI project cost: ₹98,99,656 (as of 15 November 2026).

Role	Project Title	Agency	Period	Cost	Status
PI	Development of Impact-Test Coupons with Superior Strain-Energy-Absorption Characteristics for Underbody Protection in AFVs	ARMREB, DRDO	April 2025 - April 2028	₹98,99,656	In progress
PI	Development of Biodegradable and Flexible Polymer-Based PCBs for Nature-Integrated and 3D-Printed Design Topographies	Ant Studio Pvt. Ltd. (CoolAnt), Gurugram	Oct 2025 - Oct 2026	₹8,42,000	Completed
PI	Development of Solar Charging and Geofencing for an Electric Bike	CSR, SBI Nandyal Branch, Kurnool	April 2023 - April 2024	₹6,44,176	Completed
PI	Evaluation of Aluminium Metal-Matrix Composites for Lightweight Armoured Fighting Vehicle Applications	CARS, CVRDE, DRDO	Dec 2022 - Dec 2024	₹29,87,843	Completed
PI	Development of Metallic Micro-Lattice Structures with Superior Strain-Energy-Absorption Characteristics for Underbody Protection in AFVs	ARMREB, DRDO	Feb 2022 - Feb 2025	₹41,23,004	Completed; closure received 23 Dec 2025
PI	Exploring the Potential: Additive Manufacturing of Pallets and Water-Treatment Membranes Using SLA, DLP and FDM Technologies	Research Seed Grant, IIITDM Kurnool, MoE	2021 - 2022	₹5,00,000	Completed

Co-PI Projects and Startup-Linked Funding

Role	Project Title	Agency	Period	Cost	Status
Co-PI	D-Powerpad: Self-Configurable Renewable-Powered Autonomous Drone-Charging Station with Battery-Swapping System	TiHAN, IIT Hyderabad	May 2022 - Dec 2023	₹17,80,000	Completed
Co-PI	Additive Manufacturing of 3D-Printed Sustainable PCB Substrates as Alternatives to Commercial FR-1 Boards	NCAM, MeitY	Sep 2025 - Sep 2026	₹9,43,000	In progress; startup established
Co-PI	Fabrication of Industrial-Grade Sustainable PCB Substrates with Copper Lamination	Incubation, IIITDM Kurnool	June 2025 - June 2026	₹8,00,000	In progress
Co-PI	Autonomous Drone-Based Solar-Panel Monitoring and Fault Detection	TiHAN, IIT Hyderabad	Feb 2025 - Feb 2026	₹12,00,000	Completed; startup established

Project / Agency	Startup or Incubation Outcome	Sanctioned	Released
Additive Manufacturing of Sustainable PCB Substrates as Alternatives to Commercial FR-1 Boards / NCAM, MeitY	Farzian Technologies Private Limited; KITE, IIITDM Kurnool	₹9,74,367	₹9,74,367
Fabrication of Industrial-Grade Sustainable PCB Substrates with Copper Lamination / IIITDM Kurnool Incubation	Incubated through KITE, IIITDM Kurnool; associated with Farzian Technologies Private Limited	₹8,00,000	₹7,24,000
Autonomous Drone-Based Solar-Panel Monitoring and Fault Detection / TiHAN, IIT Hyderabad	Dola Sundeep Drones Private Limited; KITE, IIITDM Kurnool	₹12,00,000	₹12,00,000
Total	Startup-linked funding	₹29,43,000	₹28,98,367

Doctoral Research Supervision

Completed Ph.D. Scholars

Scholar	Roll No.	Mode / Registration	Thesis Title	Professional Profile	Status
Shaik Ameer Malik	421ME0004	Part-time; July 2021	Investigation of Additive Manufactured Metallic Micro-Lattice Structures for Armoured Fighting Vehicles Using LPBF Technology	Scientist F, CVRDE, DRDO	Completed: 13th February 2026
Anil Bairapudi	421ME0005	Part-time; July 2021	Experimental Study on Additive Manufacturing of Functional Components for Sustainable Water Filtration and Logistics Systems	Assistant Director, CITD, MSME, Government of India	Completed: 13th February 2026
Bobbili Veera Siva Reddy	322ME0001	Full-time; Dec 2022; Visvesvaraya Ph.D. Scheme	Experimental and AI-Driven Performance Prediction of Additively Manufactured A286 Metallic Micro-Lattice Structures for Defence Applications	Full-time Institute Scholar supported by MeitY and IIITDM Kurnool	Completed: 2nd June 2026
A. Hafeezur Rahman	422ME0001	Part-time; July 2022	Investigation on Aluminum Nickel Phosphor Bronze Metal Matrix Composites with Ceramic Nanofillers for Armoured Fighting Vehicle Applications	Scientist G, CVRDE, DRDO	Completed: 10th November 2026

Ongoing Ph.D. Scholars

Scholar	Roll No.	Mode / Registration	Research Area / Thesis Title	Professional Profile	Status
B. Sendhil Nathan	423ME0001	Part-time; July 2023	Integrated Machine Learning and Statistical Frameworks for Automotive Service Parts Demand Forecasting and Inventory Decision Support	Director, Parts Supply and Logistics, Ford Motor Private Limited, Chennai	Ongoing
Veerabhadram Gaddam	424ME0001	Part-time; July 2024; Visvesvaraya Ph.D. Scheme	AI-Based Thermal Analysis of Manufacturing Processes	Scientist SF, SDSC SHAR, ISRO	Ongoing; Supervisor II Supervisor I: Dr. M. Pullarao
Deghalahal Akhil Kumar	325ME0001	Full-time; Jan 2025; HTRA Institute Scholar	Metal Additive Manufacturing	Full-time Institute Scholar under HTRA Scheme, MoE, Government of India	Ongoing
Hari Singh	425ME0002	Part-time; Jan 2025	Enhancing Solid Propellant and Baseline Structures for Rocket Motors	Scientist F, ASL, DRDO	Ongoing; Supervisor I Supervisor II: Dr. Eswaramoorthy KV
Sarath Shankar	426ME0003	Part-time; July 2026	Development and Experimental Evaluation of LPBF-Fabricated Lattice-Based Seat Structures for Armoured Fighting Vehicle Applications	Scientist E, CVRDE, DRDO	Ongoing; Supervisor I Supervisor II: Dr. Ameer Malik Shaik

Scholar	Published	Q1	Q2	Q3
Dr. Shaik Ameer Malik	4	2	1	1
Dr. Anil Bairapudi	4	1	1	2
Dr. Bobbili Veera Siva Reddy	9	5	4	0
A. Hafeezur Rahman	3	2	1	0
B. Sendhil Nathan	5	4	1	0
Veerabhadram Gaddam	1	0	1	0
Deghalahal Akhil Kumar	7	6	1	0
Hari Singh	2	2	0	0
Sarath Shankar	0	0	0	0

Teaching and Instructional Contributions

Course Code	Course Title	Semester	Students	Feedback
ME103	Engineering Skills Practice	July - Nov 2026	326	Ongoing
ME507	Advanced Manufacturing Processes	July - Nov 2026	11	Ongoing
ME504	Advanced Manufacturing Processes Practice	July - Nov 2026	7	Ongoing
ME401	Computer Aided Design and Manufacturing	July - Nov 2026	43	Ongoing
DM102	Concepts in Engineering Design	Dec 2025 - May 2026	75 Section D / 294 total	4.00/5
DM104	Design Realization Practice	Dec 2025 - May 2026	75 Section D / 294 total	3.98/5
ME527	Additive Manufacturing	Dec 2025 - May 2026	43	4.46/5
ME512T	Designing Intelligent Systems	July - Nov 2025	28	4.40/5
ME302	Automation in Manufacturing	July - Nov 2025	46	3.64/5
ME306	Automation in Manufacturing Practice	July - Nov 2025	46	3.59/5
ME103	Engineering Skills Practice	July - Nov 2025	75 Section D / 298 total	Common course
ME594	Seminar (Course Coordinator)	July - Nov 2025	5	4.15/5
ME539	Modern Manufacturing Technologies	Dec 2024 - April 2025	2	No Data Found
ME527	Additive Manufacturing	Dec 2024 - April 2025	37	4.49/5
ME104	Material Science and Metallurgy	Dec 2024 - April 2025	47	4.54/5
ME499	Project (Course Coordinator)	Dec 2024 - April 2025	20	No Data Found
ME504	Advanced Manufacturing Processes	July - Nov 2024	1	5.00/5
ME512T	Designing Intelligent Systems	July - Nov 2024	23	4.60/5
ME302T	Automation in Manufacturing	July - Nov 2024	34	4.63/5
ME302P	Manufacturing Automation Practice	July - Nov 2024	34	4.62/5
ME449	Design Project (Course Coordinator)	July - Nov 2024	19	4.07/5
ME527	Additive Manufacturing	Dec 2023 - April 2024	3	No Data Found
ME154	Material Science and Metallurgy	Dec 2023 - April 2024	48	4.72/5
ME152	Design Realization Practice	Dec 2023 - April 2024	267	4.00/5
ME615T	Additive Manufacturing	Dec 2023 - April 2024	19	4.44/5
ME499	Project (Course Coordinator)	Dec 2023 - April 2024	32	No Data Found
ME512T	Designing Intelligent Systems	Aug - Nov 2023	20	4.46/5
ME449	Design Project (Course Coordinator)	Aug - Nov 2023	32	No Data Found
ME106	Industrial Design Sketching	March - June 2023	222	4.20/5
ME604T	Advanced Manufacturing Processes	Dec 2022 - April 2023	1	No Data Found
ME615T	Additive Manufacturing	Dec 2022 - April 2023	34	4.37/5
ME105	Design Realization	Nov 2022 - Feb 2023	59	4.16/5
ME102	Science and Engineering of Materials	Nov 2022 - Feb 2023	112	4.45/5
ME604T	Advanced Manufacturing Processes	July - Nov 2022	1	No Data Found
ME102	Science and Engineering of Materials	March - June 2022	44	5.00/5
ME105	Design Realization	March - June 2022	197	5.00/5
ME615T	Additive Manufacturing	Jan - April 2022	27	4.04/5
ME606T	Modelling and Simulation of Manufacturing Systems	Jan - April 2022	2	No Data Found
ME606P	Manufacturing Simulation Practice	Jan - April 2022	1	No Data Found
ME102	Science and Engineering of Materials	Dec 2021 - Feb 2022	96	No Data Found
ME604T	Advanced Manufacturing Processes	Aug - Dec 2021	6	No Data Found
ME603T	Mechatronic Product Design	Aug - Dec 2021	4	No Data Found
ME603P	Mechatronic Product Design Practice	Aug - Dec 2021	1	No Data Found
ME615T	Additive Manufacturing	Jan - April 2021	35	4.28/5
ME606P	Manufacturing Simulation Practice	Jan - April 2021	2	No Data Found
ME603P	Mechatronic Product Design Practice	Aug - Dec 2020	2	No Data Found
ME604T	Advanced Manufacturing Processes	Aug - Dec 2020	2	No Data Found
ME603T	Mechatronic Product Design	Aug - Dec 2020	2	No Data Found
ME604P	Advanced Manufacturing Practice	Aug - Dec 2020	2	No Data Found
DES104P	Industrial Sketching	Dec - April 2020	121	4.02/5
MEC523	Additive Manufacturing	Dec - April 2020	34	4.26/5
DES105P	Design Realization	Dec - April 2020	121	4.11/5

Teaching approach: Integrated live DRDO, MeitY, NCAM, ISRO, and industry-linked research problems into instruction; used case studies, design projects, simulation tools, laboratory demonstrations, expert lectures, industrial visits, and hands-on exposure to FDM, SLA, DLP, LPBF, reverse engineering, FlexSim simulation, and advanced manufacturing systems.

Facility / Task	Instructional and Research Impact
DREAAMS Laboratory	Research-linked laboratory integrating additive manufacturing, reverse engineering, automation, simulation, and advanced manufacturing facilities for UG/PG instruction, funded-project execution, hands-on training, and student research.
Wire-EDM Facility	Procured and established a Wire Electrical Discharge Machining facility to support precision machining, dimensional accuracy studies, surface-integrity evaluation, and post-processing of additively manufactured and hard-alloy components.
SLA, DLP and FDM AM Systems	Integrated high-resolution resin printing, rapid polymer prototyping, and fused deposition modelling systems with 310 mm, 600 mm, and 1,000 mm build capacities for design realization, prototype development, process optimization, and research-linked experiments.
Industrial Laser Scanner	Established 3D scanning and reverse-engineering capability for mesh processing, scan-to-CAD conversion, dimensional inspection, component redesign, and validation of manufactured parts.
Advanced Computing Centre	Supports CAD, DfAM, reverse engineering, AI-assisted design, manufacturing simulation, explicit dynamics, impact/blast analysis, and research computations for sponsored projects and student training.
MMC and Powder Processing	Developed instructional and research modules using computerized ball milling and vacuum stir-casting for composite feedstock preparation, metal-matrix composite fabrication, dispersion analysis, and microstructural/mechanical characterization.

Patents

Summary:
Utility patents: 6 filed, 5 granted.
Design patents: 6 filed/granted.

Utility Patents

S. No.	Title	Inventors	Application No. / Date	Status	Field / Patent No.
1	Safety measures for passengers in multi axle buses in India	Kishore Kumar Nataraju, V.P. Goutham Murari, C. Chandrasekhara Sastry, Binay Sethu, P. Hariharan	202041023906 & 08.06.2020	Utility Patent Granted 28.07.2023	Electronics & 441086
2	A device and a method for executing the dry and cryogenic based friction stir welding (FSW) of the non-ferrous metal alloys	A.N. Praveen Raj, K. Shanmuga Sundaram, C. Chandrasekhara Sastry	202141020606 & 06.05.2021	Utility Patent Granted 08.03.2024	Mechanical Engineering & 522602
3	Method of cryogenic broaching of AISI 4340 steel	A. Navukkarasan, M. Pradeep Kumar, C. Chandrasekhara Sastry	202141024397 & 01.06.2021	Utility Patent Granted 01.02.2024	Mechanical Engineering & 506082
4	A process for the manufacture of unidirectional sisal/flax hybrid fiber composite	Dola Sundeep, Eswaramoorthy KV, C. Chandrasekhara Sastry, Jhansi. R	202241012699 & 09.03.2022	Utility Patent Granted 31.07.2023	Chemical & 441884
5	A reinforced denture base PMMA with F-MWCNTS/G-C3N4/TiO2 ternary nanocomposite powder	Dola Sundeep, Ragala Jhansi, C. Chandrasekhara Sastry, Eswaramoorthy K Varadharaj, N. Sleeva Raj, Arigela Sri Harsha	202241035176 & 24.06.2022	Utility Patent Granted 18.10.2023	Chemical & 460251

Design Patents

S. No.	Title	Applicants	Patent / Application No.	Country	Year
1	AI Based Device for Predicting Cancer	K. Umadevi, Dola Sundeep, R. Jhansi, A.G. Krishna, C.C. Sastry, Eswaramoorthy K.V.	6294411	United Kingdom	2023
2	Machine Learning Based Device for Predicting Cancer	K. Umadevi, Dola Sundeep, R. Jhansi, A.G. Krishna, C.C.Sastry, Eswaramoorthy K.V.	388775-001	India	2023
3	Smart Dental Implant	R. Jhansi, Dola Sundeep, K. Umadevi, A.G. Krishna, C.C. Sastry, Eswaramoorthy K.V.	389395-001	India	2023
4	Biodegradable Electronic Patch for Health Monitoring	Dola Sundeep, Eswaramoorthy K.V., A.G. Krishna, C.C. Sastry	389608-001	India	2023
5	Orthopedic Modular Chair	A.R. Vighnesh, K. Umadevi, D. Sundeep, A.G. Krishna, C.C. Sastry, 388775-001 Eswaramoorthy K.V	398043-001	India	2023
6	AI Based Students Attention Monitoring Device in the Classroom	A.R. Vighnesh, D. Sundeep, A.G. Krishna, C.C. Sastry, Eswaramoorthy K.V	399628-001	India	2023

Book Chapters

Year	Book Chapter Details
2025	D. Sundeep, K. Umadevi, E. K. Varadharaj, J. Krishnaiah and C. Chandrasekhara Sastry, "Advances in Sensor Technologies Redefining Food Safety and Quality Through AI and IoT Integration," in Sensor Technologies for Food Quality and Safety, Royal Society of Chemistry, ISBN 978-1-83767-065-9, pp. 299-335.
2026	D. Sundeep, K. Umadevi, E. K. Varadharaj, C. C. Sastry and A. G. Krishna, "3D Bioprinting: Fabrication Approaches and Biomedical Applications," in Additive Manufacturing of Smart Multifunctional Materials and Structures, Academic Press/Elsevier, ISBN 978-0-443-33500-6, pp. 97-128.

Journal Publications (69 records; chronological reverse order; quartiles as recorded in supplied CV)

S. No.	Author(s)	Title and DOI	Name of the Journal	Publisher	Impact Factor	Vol., Issue, Page Number	Year	Quality (Q1/Q2)
69	B. Veera Siva Reddy; N. Pradeep; A. S. Bhaskar; **C. Chandrasekhara Sastry**; R. Cep	Physics-guided surrogate optimization of ECMM with cryo-treated polymer graphite electrodes. DOI not supplied in the source CV; verify before use. DOI: https://doi.org/10.1038/s41598-026-78464-8	Scientific Reports	Nature Publishing Group	4.9	-	2026	Q1
68	K. Hariharan; B. Veera Siva Reddy; D. Sundeep; **C. Chandrasekhara Sastry**; R. Cep	Composition-Structure-Property Relationships in PLA-nHA-Mg Hybrid Biocomposites: Effect of Ceramic-Metallic Reinforcement Ratio on Mechanical and Physicochemical Performance. DOI: https://doi.org/10.3390/polym18192438	Polymers	MDPI	5.8	18(19), 2438	2026	Q1
67	Shaik, Ameer Malik; Reddy, B. Veera Siva; Kumar, D. Akhil; Rahman, A. Hafeezur; **C. Chandrasekhara Sastry**; Cep, Robert	Materials and architected structures for underbody blast mitigation in armoured fighting vehicles: From conventional protection systems to additively manufactured metallic lattices. DOI: https://doi.org/10.1016/j.jmrt.2026.09.235	Journal of Materials Research and Technology	Elsevier	7.3	Volume 44, September-October 2026; Pages -	2026	Q1
66	Bairapudi, Anil and Kishore, M. V. and Reddy, B. Veera Siva and **C. Chandrasekhara Sastry** and Cep, Robert	Sustainable Polymer Additive Manufacturing Across Scales: A Critical Review of Pallet-Scale Structural Opportunities and Membrane Feed Spacers. DOI: https://doi.org/10.3390/polym18182208	Polymers	MDPI	5.8	18, Issue 18, 2208	2026	Q1
65	Kumar, D Akhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Rahman, A Hafeezur	Topology-Dependent Oxidation and Mechanical Retention in Laser Powder Bed Fused Inconel 718 Lattice Structures at Elevated Temperatures. DOI: https://doi.org/10.1016/j.matchemphys.2026.132838	Materials Chemistry and Physics	Elsevier	5.2	132838	2026	Q1
64	Kumar D, Akhil and B, Veera Siva Reddy and Gupta, Aditya Ranjan and **C. Chandrasekhara Sastry** and A, Hafeezur Rahman and C, Lakshmana Rao	Topology-controlled high-strain-rate deformation and energy absorption in LPBF-fabricated Inconel 718 lattice structures. DOI: https://doi.org/10.1108/RPJ-01-2026-0021	Rapid Prototyping Journal	Emerald Publishing Limited	3.8	1-25	2026	Q1
63	Nathan, B Sendhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Salunkhe, Sachin and Cep, Robert and Jitpichitchai, Santi	A two stage statistical framework for cold start spare part demand forecasting. DOI: https://doi.org/10.1371/journal.pone.0350729	PLOS One	Public Library of Science (PLOS)	2.9	21, Issue 6, e0350729	2026	Q1
62	Kumar, D Akhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Rahman, A Hafeezur and Cep, Robert	Topology-alloy interactions governing deformation and failure in LPBF-fabricated A286 and Inconel 718 lattice structures. DOI: https://doi.org/10.1038/s41598-026-55663-x	Scientific Reports	Nature Publishing Group	4.9	-	2026	Q1
61	Nathan, B Sendhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Salunkhe, Sachin and Cep, Robert	Event-preserving feature engineering for intermittent demand forecasting using SHOS. DOI: https://doi.org/10.1038/s41598-026-57129-6	Scientific Reports	Nature Publishing Group	4.9	-	2026	Q1
60	Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Rahman, A Hafeezur and Cep, Robert	Neural Digital Twin-Enabled Interpretation and Optimization of High-Strain-Rate Deformation in LPBF A286 Lattice Structures. DOI: https://doi.org/10.1016/j.jmrt.2026.05.082	Journal of Materials Research and Technology	Elsevier	7.3	-	2026	Q1
59	Bhaskar, Akula Siva and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Rahman, A Hafeezur	Heat Treatment in Metal Additive Manufacturing: Linking Bulk Microstructural Evolution to Topology Dependent Mechanical Response in Metallic Lattice Structures. DOI: https://doi.org/10.1016/j.jallcom.2026.188505	Journal of Alloys and Compounds	Elsevier	6.7	188505	2026	Q1
58	Reddy, B Veera Siva and Pradeep, N and Bhaskar, Akula Siva and **C. Chandrasekhara Sastry** and Salunkhe, Sachin and Cep, Robert	Physics-guided explainable machine learning for multi-response modeling of electrochemical micro-machining using polymer graphite electrodes. DOI: https://doi.org/10.1038/s41598-026-46315-1	Scientific Reports	Nature Publishing Group UK London	4.9	-	2026	Q1
57	Kumar, D Akhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Suryakumar, S and Rahman, A	Correlative multi-modal analysis and machine-learning-assisted interpretation of virgin and reused IN718 powders in laser powder bed fusion. DOI: https://doi.org/10.1016/j.powtec.2026.122399	Powder Technology	Elsevier	5.5	122399	2026	Q1

S. No.	Author(s)	Title and DOI	Name of the Journal	Publisher	Impact Factor	Vol., Issue, Page Number	Year	Quality (Q1/Q2)
	Hafeezur							
56	Kumar, D Akhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Rahman, A Hafeezur	Comparative high-strain-rate response and microstructural evolution of LPBF-Fabricated A286 and Inconel 718 lattice structures under SHPB loading. DOI: https://doi.org/10.1016/j.jallcom.2026.187247	Journal of Alloys and Compounds	Elsevier	6.7	187247	2026	Q1
55	Sundeep, Dola and Umadevi, Kovuri and Bugge, Bhagya Prasad and **C. Chandrasekhara Sastry** and Salunkhe, Sachin and Cep, Robert	Reversible medical image cryptography using spatial XOR-rotation and chaos-driven permutation and diffusion schemes. DOI: https://doi.org/10.1038/s41598-026-41579-z	Scientific Reports	Nature Portfolio	4.9	-	2026	Q1
54	Akula, Siva Bhaskar and Seshagirirao, DV and Pradeep, N and **C. Chandrasekhara Sastry** and Rahman, Hafeezur	Non-destructive evaluation of additively manufactured lattice structures: A comprehensive review of techniques, machine learning integration, and future directions. DOI: https://doi.org/10.1016/j.jallcom.2026.186865	Journal of Alloys and Compounds	Elsevier	6.7	1057, 186865	2026	Q1
53	Bobbili, Veera Siva Reddy and **C. Chandrasekhara Sastry** and A, Hafeezur Rahman	Explainable machine learning for high-strain-rate prediction of LPBF-fabricated A286 lattice structures under SHPB testing. DOI: https://doi.org/10.1108/RPJ-08-2025-0362	Rapid Prototyping Journal	Emerald Group Publishing	3.8	1-20	2026	Q1
52	Akula, Siva Bhaskar and Chandrasekhara, C and Seshagirirao, DV and Suryakumar, S and Rahman, A Hafeezur and Reddy, NS	Metallic lattice structures via additive manufacturing: Applications, challenges and opportunities in aerospace and defence. DOI: https://doi.org/10.1016/j.jmapro.2025.12.045	Journal of Manufacturing Processes	Elsevier	7.8	157, 1308-1336	2026	Q1
51	Nathan, B Sendhil and Aravinth, PM and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Salunkhe, Sachin and Cep, Robert	Primacy of feature engineering over architectural complexity for intermittent demand forecasting. DOI: https://doi.org/10.1038/s41598-026-35197-y	Scientific Reports	Nature Portfolio	4.9	-	2026	Q1
50	Bobbili, Veera Siva Reddy and **C. Chandrasekhara Sastry** and Krishnaiah, J and Hafeezur Rahman, A and Surya Kumar, S and Subba Reddy, N	Physics-informed neural networks for predicting high-strain-rate energy absorption in additively manufactured lattice materials. DOI: https://doi.org/10.1007/s40964-025-01460-3	Progress in Additive Manufacturing	Springer Nature	5.2	11, Issue 2, 2095-2121	2026	Q1
49	Gaddam, Veerabhadram and **C. Chandrasekhara Sastry** and Muvvala, Pullarao and Perumal, PA Saravana	Experimental investigation, characterization, and deep learning-driven analysis of polymer-based thermal protection systems for space rocket launch conditions. DOI: https://doi.org/10.1007/s11665-025-12317-9	Journal of Materials Engineering and Performance	Springer Nature	2.2	35, Issue 9, 8264-8283	2026	Q2
48	Veera Siva Reddy, B and **C. Chandrasekhara Sastry** and Krishnaiah, J and Hafeezur Rahman, A and Surya Kumar, S	Comparative analysis of deep learning models for surface roughness prediction in additively manufactured honeycomb lattices. DOI: https://doi.org/10.1007/s11665-025-12130-4	Journal of Materials Engineering and Performance	Springer Nature	2.2	35, Issue 7, 6118-6132	2026	Q2
47	Singh, Hari and Sundeep, Dola and **C. Chandrasekhara Sastry** and Varadharaj, Eswaramoorthy K	Experimental and machine learning-driven assessment of 15CDV6 steel under double-base propellant combustion conditions. DOI: https://doi.org/10.1016/j.matchemphys.2025.131465	Materials Chemistry and Physics	Elsevier	4.7	347, 131465	2026	Q1
46	Shaik, Ameer Malik and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Krishnaiah, J and Ramakrishna, B	Enhanced underbelly protection for armored vehicles using laser powder bed fusion additive manufacturing of Micro-Lattice structures. DOI: https://doi.org/10.1007/s11665-025-11455-4	Journal of Materials Engineering and Performance	Springer Nature	2.2	35, Issue 1, 282-302	2026	Q2
45	Veera Siva Reddy, B and Brahmadathan, VB and Ameer Malik, Shaik and Hafeezur Rahman, A and **C. Chandrasekhara Sastry** and Krishnaiah, J and Lakshmana Rao, C and Suryakumar, S	High-Strain-Rate Response and Microstructural Evolution of Additively Manufactured A286 Steel Lattice Structures: A Multiscale Experimental Investigation. DOI: https://doi.org/10.1002/adem.202501983	Advanced Engineering Materials	Wiley	3.3	e202501983	2025	Q2
44	Hariharan, K and **C. Chandrasekhara Sastry** and Sathishkumar, N and Saravanan, K	Enhancing Biofunctional Coatings on Selective Laser Sintered Polyamide Using Pulsed Laser Deposition for Implant Applications. DOI: https://doi.org/10.1016/j.matchemphys.2025.131906	Materials Chemistry and Physics	Elsevier	4.7	131906	2025	Q1
43	Reddy, B and Sujan, VS and **C. Chandrasekhara Sastry** and Krishnaiah, J and Jitpichitchai, Santi and others	A machine learning framework for long-term forecasting of spare part demand in end-of-life product scenarios. DOI: https://doi.org/10.1038/s41598-025-31171-2	Scientific Reports	Nature Portfolio	3.8	16, Issue 1, 1394	2025	Q1
42	Kumar, D Akhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Suryakumar, S and Rahman, A Hafeezur	Hybrid experimental and AI-Driven microstructural and residual stress evaluation of laser powder bed Fusion-Fabricated IN718 and A286 steel versus rolled armor steels. DOI: https://doi.org/10.1007/s11665-025-12870-3	Journal of Materials Engineering and Performance	Springer Nature	2.2	1-19	2025	Q2

S. No.	Author(s)	Title and DOI	Name of the Journal	Publisher	Impact Factor	Vol., Issue, Page Number	Year	Quality (Q1/Q2)
41	Akula, Siva Bhaskar and **C. Chandrasekhara Sastry** and R, Satya Meher and Suryakumar, S and Rahman, A Hafeezur and Reddy, NS	Fuzzy MCDM-Based Selection of 3D Printed Lattice Architectures for Underbody Blast Protection in Armored Vehicles. DOI: https://doi.org/10.1007/s11665-025-12708-y	Journal of Materials Engineering and Performance	Springer Nature	2.2	1-29	2025	Q2
40	Kumar, D Akhil and Reddy, B Veera Siva and **C. Chandrasekhara Sastry** and Suryakumar, S and Rahman, A Hafeezur	High-Strain-Rate Impact Performance of Inconel 718 Lattice structures Produced by Laser Powder Bed Fusion. DOI: https://doi.org/10.1016/j.matchemphys.2025.131761	Materials Chemistry and Physics	Elsevier	4.7	131761	2025	Q1
39	Reddy, B Veera Siva and Kumar, D Akhil and **C. Chandrasekhara Sastry** and Suryakumar, S and Rahman, A Hafeezur and Kumar, J Rajesh	Machine Learning-Based Prediction of High-Strain-Rate Response in Additively Manufactured Lattice Structures Using Split Hopkinson Pressure Bar Experiments. DOI: https://doi.org/10.1002/adem.202501406	Advanced Engineering Materials	Wiley	3.3	2501406	2025	Q2
38	Singh, Hari and Sundeep, Dola and **C. Chandrasekhara Sastry** and Varadharaj, Eswaramoorthy K	Experimental and machine learning-driven assessment of IS 2062 steel under double-base propellant combustion conditions. DOI: https://doi.org/10.1038/s41598-025-10033-x	Scientific Reports	Nature Portfolio	3.8	15, Issue 1, 23807	2025	Q1
37	Shaik, Ameer Malik and B, Veera Siva Reddy and S, Durga Prabhas and **C. Chandrasekhara Sastry** and Krishnaiah, J	Performance evaluation of machine learning techniques in surface morphology and corrosion prediction for A286 3D printed micro-lattice structures. DOI: https://doi.org/10.1371/journal.pone.0320565	PLoS One	Public Library of Science (PLOS)	2.9	20, Issue 5, e0320565	2025	Q1
36	Sundeep, Dola and Varadharaj, Eswaramoorthy K and **C. Chandrasekhara Sastry**	Fabrication of industrial grade F/g-C3N4 reinforced banana natural Fiber sustainable PCB substrates. DOI: https://doi.org/10.1038/s41598-025-04966-6	Scientific Reports	Nature Portfolio	3.8	15, Issue 1, 19894	2025	Q1
35	Hariharan, K and Arumaikkannu, G and Sathishkumar, N and **C. Chandrasekhara Sastry**	Pulsed laser deposition of hydroxyapatite coatings on laser sintered polyamide for enhanced osseointegration. DOI: https://doi.org/10.1016/j.matchemphys.2025.130956	Materials Chemistry and Physics	Elsevier	4.7	343, 130956	2025	Q1
34	Rahman, A Hafeezur and Sundeep, Dola and **C. Chandrasekhara Sastry** and Krishnaiah, J and Varadharaj, Eswaramoorthy K	Enhanced ballistic and mechanical performance of aluminum nickel phosphorus bronze composites reinforced with TiCN and Y2O3 for armored vehicles. DOI: https://doi.org/10.1038/s41598-025-94508-x	Scientific Reports	Nature Portfolio	3.4	15, Issue 1, 10266	2025	Q1
33	Reddy, B Veera Siva and Shaik, Ameer Malik and **C. Chandrasekhara Sastry** and Krishnaiah, J and Ramakrishna, B	Comparative analysis of metallic honeycomb and Bcc micro lattice structures for armoured fighting vehicles. DOI: https://doi.org/10.1007/s12206-025-0228-z	Journal of Mechanical Science and Technology	Springer Nature	1.50	39, Issue 3, 1339-1350	2025	Q2
32	Reddy, B Veera Siva and Shaik, Ameer Malik and **C. Chandrasekhara Sastry** and Krishnaiah, J and Patil, Sandeep and Nikhare, Chetan P	Performance evaluation of machine learning techniques in surface roughness prediction for 3D printed micro-lattice structures. DOI: https://doi.org/10.1016/j.jmapro.2025.01.082	Journal of Manufacturing Processes	Elsevier	6.1	137, 320-341	2025	Q1
31	Umadevi, Kovuri and Sundeep, Dola and Latha, A Mercy and Kumari, Sarita and Varadharaj, Eswaramoorthy K and **C. Chandrasekhara Sastry** and Vighnesh, Alluru Raghavendra and Ali, Mohd Imran and Krishna, Alluru Gopala	Enhancement of diagnostic accuracy in endometrial carcinoma using CW-THz spectroscopy. DOI: https://doi.org/10.1007/s40944-024-00872-3	Indian Journal of Gynecologic Oncology	Springer India New Delhi	0.4	22, Issue 3, 100	2024	Q4
30	Reddy, B Veera Siva and Shaik, Ameer Malik and **C. Chandrasekhara Sastry** and Krishnaiah, J and Bhise, Chirag Anil and Ramakrishna, B	Machine learning approaches for predicting mechanical properties in additive manufactured lattice structures. DOI: https://doi.org/10.1016/j.mtcomm.2024.109937	Materials Today Communications	Elsevier	4.5	40, 109937	2024	Q1
29	Bairapudi, Anil and **C. Chandrasekhara Sastry** and Krishnaiah, J and Sundeep, Dola and Eswaramoorthy, KV	Experimental investigation of stereolithography and digital light processing additive manufactured pallets. DOI: https://doi.org/10.2478/msp-2024-0001	Materials Science Poland	Springer / Wroclaw University of Science and Technology	1.1	42, Issue 1, 1-31	2024	Q3
28	Abhishek, T and Sundeep, Dola and **C. Chandrasekhara Sastry** and Eswaramoorthy, KV and Kesireddy, Gagan Chaitanya and Siva Reddy, Bobbili Veera and Verma, Rakesh Kumar and Salunkhe, Sachin and Cep, Robert and Abouel Nasr, Emad	Experimental investigation of tungsten-nickel-iron alloy, W95Ni3. 5Fe1. 5, compared to copper monolithic bullets. DOI: https://doi.org/10.3389/fmech.2024.1383341	Frontiers in Mechanical Engineering	Frontiers Media	2.3	10, 1383341	2024	Q2
27	Nathan, B Sendhil and Siva Reddy, B Veera and **C. Chandrasekhara Sastry** and Krishnaiah, J and Eswaramoorthy, KV	Innovative framework for effective service parts management in the automotive industry. DOI: https://doi.org/10.3389/fmech.2024.1361688	Frontiers in Mechanical Engineering	Frontiers Media	2.3	10, 1361688	2024	Q2
26	Hafeezur, A Rahman and Sundeep,	Investigation of ballistic and mechanical properties of	Journal of	Elsevier	6.2	992, 174482	2024	Q1

S. No.	Author(s)	Title and DOI	Name of the Journal	Publisher	Impact Factor	Vol., Issue, Page Number	Year	Quality (Q1/Q2)
	Dola and **C. Chandrasekhara Sastry** and Krishnaiah, Jallu and Varadharaj, Eswaramoorthy K	AlNPB metal matrix composites reinforced with TiCN decorated graphene nano flakes for light armored vehicles. DOI: https://doi.org/10.1016/j.jallcom.2024.174482	Alloys and Compounds					
25	Umadevi, Kovuri and Sundeep, Dola and Varadharaj, Eswaramoorthy K and Sastry, Chebbiyam Chandrasekhara and Shankaralingappa, Arundhathi and Chary, Rajarikam Nagarjuna and Vighnesh, Alluru Raghavendra	Precision detection of fungal Co-Infections for enhanced COVID-19 treatment strategies using FESEM imaging. DOI: https://doi.org/10.1007/s12088-024-01246-1	Indian Journal of Microbiology	Springer India New Delhi	3.1	64, Issue 3, 1084-1098	2024	Q3
24	Verma, Aditya and Shankar, Ravi and Malik Shaik, Ameer and Veera Siva Reddy, B and **C. Chandrasekhara Sastry** and Shaik, Nizmi and Salunkhe, Sachin and Cep, Robert and Abouel Nasr, Emad	Comprehensive design and analysis of a 300L steel fuel tank for heavy off-road vehicles: numerical and experimental insights. DOI: https://doi.org/10.3389/fmech.2024.1360590	Frontiers in Mechanical Engineering	Frontiers Media	2.3	10, 1360590	2024	Q2
23	Reddy, B Veera Siva and Shaik, Ameer Malik and Sundeep, Dola and **C. Chandrasekhara Sastry** and Krishnaiah, J and Chandrasekhar, U	Performance evaluation of metallic honeycomb and gyroid micro-lattice structures for armoured fighting vehicles. DOI: https://doi.org/10.1007/s12666-023-03146-2	Transactions of the Indian Institute of Metals	Springer Nature	1.6	77, Issue 3, 615-626	2024	Q2
22	Rahman, A Hafeezur and Sundeep, Dola and **C. Chandrasekhara Sastry** and Krishnaiah, J and Varadharaj, Eswaramoorthy K	Mechanical properties and performance evaluation of aluminum nickel phosphorus bronze MMC reinforced with TiCN+ SiC nanopowders for lightweight armored vehicles. DOI: https://doi.org/10.1007/s11051-023-05901-4	Journal of Nanoparticle Research	Springer Nature	2.3	26, Issue 1, 3	2024	Q2
21	Bairapudi, Anil and **C. Chandrasekhara Sastry** and Krishnaiah J, J and Sundeep, Dola and Varadharaj, Eswaramoorthy K	Investigation of micro lattice spiral wound membrane structures availing DLP and FDM techniques for water treatment. DOI: https://doi.org/10.1088/1402-4896/ad0001	Physica Scripta	IOP Publishing	2.90	98, Issue 11, 115021	2023	Q2
20	Shaik, Ameer Malik and Reddy, Bobbili Veera Siva and **C. Chandrasekhara Sastry** and Krishnaiah, J and Ramakrishna, B	Investigation of additive manufactured micro-lattice structures for defence applications. DOI: https://doi.org/10.2478/msp-2023-0023	Materials Science-Poland	Wroclaw University of Science and Technology	1.1	41, Issue 2, 383-400	2023	Q3
19	Jhansi, Ragala and Sundeep, Dola and Umadevi, Kovuri and Varadharaj, Eswaramoorthy K and Sastry, Chebbiyam Chandrasekhara and Krishna, Alluru Gopala and Raj, N Sleeva and Patil, Sandeep	Mechanical and spectroscopic investigation of novel f-MWCNTS/g-C3N4/TiO2 ternary nanocomposite reinforced denture base PMMA. DOI: https://doi.org/10.1088/1402-4896/acecb0	Physica Scripta	IOP Publishing	2.9	98, Issue 9, 095930	2023	Q2
18	Umadevi, Kovuri and Sundeep, Dola and Jhansi, Ragala and Varadharaj, Eswaramoorthy K and Sastry, Chebiyyam Chandrasekahara and Nagarjunachary, Rajarikam and Krishna, Alluru Gopala and Patil, Sandeep	Effect of functionalization of 2D graphene nanosheets on oxidation stress of BEAS-2B cells. DOI: https://doi.org/10.1007/s12668-023-01155-5	BioNanoScience	Springer US New York	3	13, Issue 3, 1262-1277	2023	Q3
17	Venkatesan, Su and Jerald, J and Sundeep, Dola and Varadharaj, Eswaramoorthy K and **C. Chandrasekhara Sastry**	Evaluation of mechanical and corrosion properties of TiB2-Y2O3 nanocomposite fused bronze metal matrix composite. DOI: https://doi.org/10.1088/2051-672X/ac7faa	Surface Topography: Metrology and Properties	IOP Publishing	2.4	10, Issue 3, 035003	2022	Q3
16	Bairapudi, Anil and **C. Chandrasekhara Sastry** and Verma, Chetan	Experimental analysis of 3D printed pallet model through fused deposition modeling. DOI: https://doi.org/10.1142/S0218625X22500652	Surface Review and Letters	World Scientific Publishing Company	1.15	29, Issue 05, 2250065	2022	Q3
15	Pradeep, N and **C. Chandrasekhara Sastry** and Brand\~ao, LC and Coelho, RT and Bairapudi, Anil and Manickam, MA Muthu and Rahman, Hafeezur and Patil, Sandeep	Surface modification of Ti6Al7Nb employing pure waterjet and abrasive waterjet polishing for implant application: comparison study. DOI: https://doi.org/10.1088/2051-672X/ac577e	Surface Topography: Metrology and Properties	IOP Publishing	2.4	10, Issue 1, 015034	2022	Q3
14	Sundeep, Dola and Varadaraj, Eswaramoorthy K and Ephraim, S Daniel and **C. Chandrasekhara Sastry** and Krishna, A Gopala	Mechanical, morphological and thermal analysis of unidirectional fabricated sisal/flax hybrid natural fiber composites. DOI: https://doi.org/10.1088/2051-672X/ac5780	Surface Topography: Metrology and Properties	IOP Publishing	2.4	10, Issue 1, 015028	2022	Q3
13	Pradeep, N and **C. Chandrasekhara Sastry** and Brand\~ao, Lc and Meennakshi, BS	3D printing of shrimp derived chitosan with HAp as a bio-composite scaffold. DOI: https://doi.org/10.1080/10426914.2021.1973032	Materials and Manufacturing Processes	Taylor & Francis	4.61	37, Issue 11, 1257-1266	2022	Q1
12	**C. Chandrasekhara Sastry** and Pradeep, N and Shaik, AM and Rahman, HA and Patil, Sandeep	Experimental investigation of electrodeposited Ni-Al2O3/ZrO2 nano composite on HSLA ASTM A860 alloy. DOI: https://doi.org/10.1088/2051-672X/ac396a	Surface Topography: Metrology and Properties	IOP Publishing	2.4	9, Issue 4, 045028	2021	Q3

S. No.	Author(s)	Title and DOI	Name of the Journal	Publisher	Impact Factor	Vol., Issue, Page Number	Year	Quality (Q1/Q2)
11	Praveen Raj Navukkarasan, A and Shanmuga Sundaram, K and **C. Chandrasekhara Sastry** and Muthu Manickam, MA	Experimental investigation of dry and cryogenic friction stir welding of AA7075 aluminium alloy. DOI: https://doi.org/10.1155/2021/9961590	Advances in Materials Science and Engineering	Wiley	-	2021, Issue 1, 9961590	2021	Q2
10	Gopinath, T Praveena and Prasanna, J and **C. Chandrasekhara Sastry** and Patil, Sandeep	Experimental investigation of the electrochemical micromachining process of Ti-6Al-4V titanium alloy under the influence of magnetic field. DOI: https://doi.org/10.2478/msp-2021-0013	Materials Science Poland	Springer / Wroclaw University of Science and Technology	1.02	39, Issue 1, 124-138	2021	Q3
9	VP, Goutham Murari and G, Selvakumar and **C. Chandrasekhara Sastry**	Experimental investigation of wire-EDM machining of low conductive Al-SiC-TiC metal matrix composite. DOI: https://doi.org/10.3390/met10091188	Metals	MDPI	2.11	10, Issue 9, 1188	2020	Q2
8	Navukkarasan, A and Kumar, M Pradeep and **C. Chandrasekhara Sastry**	Experimental investigation of dry and cryogenic broaching of AISI 4340 steel. DOI: https://doi.org/10.1080/10426914.2020.1779940	Materials and Manufacturing Processes	Taylor & Francis	3.04	35, Issue 14, 1584-1597	2020	Q1
7	**C. Chandrasekhara Sastry** and Abeens, M and Pradeep, N and Manickam, MA Muthu	Microstructural analysis, radiography, tool wear characterization, induced residual stress and corrosion behavior of conventional and cryogenic trepanning of DSS 2507. DOI: https://doi.org/10.1007/s12206-020-0529-1	Journal of Mechanical Science and Technology	Korean Society of Mechanical Engineers Seoul	1.34	34, Issue 6, 2535-2547	2020	Q2
6	Rajamanickam, S and Prasanna, J and **C. Chandrasekhara Sastry**	Analysis of high aspect ratio small holes in rapid electrical discharge machining of superalloys using Taguchi and TOPSIS. DOI: https://doi.org/10.1007/s40430-020-2180-2	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Springer Berlin Heidelberg Berlin/Heidelberg	1.75	42, Issue 2, 99	2020	Q2
5	Hariharan, K and **C. Chandrasekhara Sastry** and Padmanaban, M and Gideon Ganesh, M	Experimental investigation of bioceramic (Hydroxyapatite and Yttrium stabilized zirconia) composite on Ti6Al7Nb alloy for medical implants. DOI: https://doi.org/10.1080/10426914.2020.1711929	Materials and Manufacturing Processes	Taylor & Francis	3.04	35, Issue 5, 521-530	2020	Q1
4	**C. Chandrasekhara Sastry** and Gokulakrishnan, K and Hariharan, P and Kumar, M Pradeep and Boopathy, S Rajendra	Investigation of boring on gunmetal in dry, wet and cryogenic conditions. DOI: https://doi.org/10.1007/s40430-019-2091-2	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Springer Berlin Heidelberg Berlin/Heidelberg	1.75	42, Issue 1, 16	2020	Q2
3	Thirumavalavan, K and **C. Chandrasekhara Sastry** and M, Abeens and Muruganandhan, R and Muthu Manickam, MA	Study on the influence of process parameters of severe surface mechanical treatment process on the surface properties of AA7075 T651 using TOPSIS and Taguchi analysis. DOI: https://doi.org/10.1088/2053-1591/ab522f	Materials Research Express	IOP Publishing	1.92	6, Issue 11, 1165i1	2019	Q2
2	**C. Chandrasekhara Sastry** and Hariharan, P and Pradeep Kumar, M and Muthu Manickam, MA	Experimental investigation on boring of HSLA ASTM A36 steel under dry, wet, and cryogenic environments. DOI: https://doi.org/10.1080/10426914.2019.1643477	Materials and Manufacturing Processes	Taylor & Francis	3.04	34, Issue 12, 1352-1379	2019	Q1
1	**C. Chandrasekhara Sastry** and Hariharan, P and Pradeep Kumar, M	Experimental investigation of dry, wet and cryogenic boring of AA 7075 alloy. DOI: https://doi.org/10.1080/10426914.2019.1605174	Materials and Manufacturing Processes	Taylor & Francis	3.04	34, Issue 7, 814-831	2019	Q1

DRDO and ISRO Research Collaboration

Journal Publications with DRDO and ISRO Research Linkages

Organisation	Q1	Q2	Q3	Q4	Total	Q1 + Q2
DRDO / Defence Laboratories	21	10	3	0	34	31
ISRO / Space	0	1	0	0	1	1
DRDO + ISRO	21	11	3	0	35	32

Research-linkage summary (based on the existing publication classification): 35 of 69 journal publications (50.72%) have DRDO/ISRO research linkages; 32 of these 35 (91.43%) are in Q1/Q2 journals.

Industry-Academia Collaboration and Major Research Linkages

Open to working on real-time problems with national laboratories, space and defence organizations, industries, start-ups, medical institutions, technical institutes and international universities. The following major collaborators and institutional linkages reflect active or established research-oriented engagement.

Collaboration Category	Major Collaborators / Institutions
Defence and Strategic	DRDO - Advanced Systems Laboratory (ASL), Hyderabad; DRDO - Combat Vehicles Research &

Collaboration Category	Major Collaborators / Institutions
Laboratories	Development Establishment (CVRDE), Chennai; DRDO - Defence Metallurgical Research Laboratory (DMRL), Hyderabad; DRDO - Electronics and Radar Development Establishment (LRDE).
Space Research Organizations	ISRO - Sriharikota Range (SHAR), Satish Dhawan Space Centre (SDSC); ISRO - Vikram Sarabhai Space Centre (VSSC).
Industry / Start-up / Applied Research	Ford Motor Private Limited, India; CSIR - Central Electronics Engineering Research Institute, Chennai; MSME - Central Institute of Tool Design (CITD), Hyderabad.
Medical and Healthcare Institutions	All India Institute of Medical Sciences, Mangalagiri; All India Institute of Medical Sciences, New Delhi; Government Medical College, Nizamabad; Osmania Medical College, Hyderabad; NTR University of Health Sciences; Member, Dental Council of India and Principal, St. Joseph Dental College.
Indian Academic and Technical Institutions	IISc - Indian Institute of Science, Bengaluru; Indian Institute of Technology, Hyderabad; Jawaharlal Nehru Technological University (JNTU), Kakinada; National Institute of Technology, Tiruchirappalli.
International Academic Collaborators	College of Engineering, King Saud University, Riyadh, Saudi Arabia; Gazi University Faculty of Engineering; Penn State Erie - The Behrend College, Erie, PA, USA; University of Texas at Arlington; VSB - Technical University of Ostrava, Ostrava; Gyeongsang National University, Jinju, Gyeongnam, Republic of Korea.

Institutional Service and Leadership

Role	Period	Contribution
Associate Dean - ASD (Innovation and Startups)	September 2024 - July 2026	Led and supported startup incubation, innovation ecosystem development, sponsored-project coordination, industry interaction, entrepreneurship activities, innovation-linked documentation, and institute-level startup initiatives.
Faculty Advisor	B.Tech. I Year (2022-2026); B.Tech. IV Year	Provided academic mentoring, student counselling, curriculum-related guidance, career support, and coordination for student academic matters.
Laboratory In-charge	Manufacturing Systems Laboratory: July 2022 - May 2023; DREAAMS Laboratory: May 2023 - Present	Coordinated laboratory development, procurement, equipment maintenance, safety practices, and integration of facilities with teaching, student projects, and funded research activities.
Placement Cell	Deputy FIC: Oct 2023 - May 2024; FIC Placement Cell (stop-gap): May 2024 - Dec 2024	Supported placement coordination, institutional communication, student readiness, recruiter interaction, and industry engagement activities.
Sports Administration	FIC Sports and Games: Jan 2021 - Oct 2023; Sports Chairman: Oct 2023 - Nov 2025	Led sports administration, infrastructure planning, student participation, Inter-IIIT sports coordination, event organization, and institute-level sports development.
Departmental Academic Administration	During IIITDM Kurnool service	Supported DAC coordination, BoS/DAC meetings, attendance/result submission, grade arbitration, supplementary examination activities, curriculum development, Ph.D. admission, and comprehensive examination processes.
Annual Report Preparation	2018-19 to 2023-24, as per supplied records	Supported institute-level annual report preparation through data compilation, academic and research documentation, departmental inputs, editing, and institutional reporting.
Disciplinary and Crisis Management Committee	During IIITDM Kurnool service	Served in disciplinary/crisis-management responsibilities and supported student-related institutional processes.

Sports Infrastructure Developed / Strengthened

Facility / Initiative	Contribution / Outcome
Institute Fitness Centre / Full-Scale Gymnasium	Completed and strengthened the institute-level fitness centre to support student, faculty and staff fitness activities.
Sardar Vallabhbhai Patel Indoor Stadium	Completed and strengthened indoor badminton and table-tennis facilities under the institute sports development initiatives.
Major Dhyan Chand Closed Sports Arena	Established and strengthened volleyball, throwball, basketball, multipurpose court and lawn-tennis facilities.
Outdoor and Multipurpose Sports Facilities	Supported development and operational use of volleyball, throwball, basketball, lawn tennis and multipurpose sports courts for regular training and events.
Fit India Module	Developed and implemented Fit India activity modules for IIITDM Kurnool.
Sports Timeline and Planning Documentation	Prepared sports activity timeline charts and planning documentation for institute-level sports activities.
AKAM Activities	Coordinated and organized Azadi Ka Amrit Mahotsav activities involving students, faculty and staff.

Sports Achievements and Event Coordination

Event / Activity	Achievement / Contribution
4th Inter-IIIT Sports Event (Gusto 2020), IIITDM Jabalpur	Coordinated IIITDM Kurnool participation; reported institute medal tally: 17 medals.
5th Inter-IIIT Sports Event, IIITDM Kancheepuram / Co-hosted by IIITDM Kurnool (2023)	Supported institute participation and event coordination; reported IIITDM Kurnool medal tally: 74 medals; overall championship position: III among IIITs.
Student Sports Activities	Supported regular student practice, event logistics, infrastructure access, inter-institute representation, and sports culture development.
Employee / Faculty-Staff Sports Activities Video reference: https://youtu.be/Ix20lWKHuvw?si=P6Cy_d1XfFMKnAhx	Actively represented IIITDM Kurnool in Inter-IIIT Employee Sports Meets and contributed to faculty-staff sports engagement, team participation and institutional representation.

Personal Participation and Achievements in Inter-IIIT Employee Sports Meets

Actively represented IIITDM Kurnool at the Inter-IIIT Employee Sports Meets held in 2024 at IIIT Allahabad and in 2025 at IIITM Gwalior. Secured a total of 17 medals across badminton, lawn tennis, swimming, basketball and cricket, reflecting strong institutional engagement, competitive participation, team spirit and leadership through sports.

Sport	Event / Category	2024 - IIIT Allahabad	2025 - IIITM Gwalior
Badminton	Singles	Winner - Gold	Winner - Gold
Badminton	Doubles (with Dr. Yaswanth KNGB)	Winner - Gold	Winner - Gold
Lawn Tennis	Singles	1st Runner-up - Silver	1st Runner-up - Silver
Lawn Tennis	Doubles (with Dr. Yaswanth KNGB)	Winner - Gold	Winner - Gold
Basketball	Team Event	1st Runner-up - Silver	1st Runner-up - Silver
Cricket	Team Event	-	Winner - Gold
Swimming	50 m Butterfly	1st Runner-up - Silver	2nd Runner-up - Bronze
Swimming	50 m Breaststroke	Winner - Gold	Winner - Gold
Swimming	25 m Breaststroke	Winner - Gold	Winner - Gold

Research Identifiers and Links

Profile	Details
Google Scholar	Chandrasekhara Sastry C - Google Scholar (https://scholar.google.com/citations?hl=en&user=fsqLD60AAAAJ&view_op=list_works&sortby=pubdate)
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Guiding Principle

Hindi: हम रहें या न रहें, संस्थान समय के साथ आगे बढ़ता और विकसित होता रहेगा। तब तक, हर दिन और हर पल अपना सर्वश्रेष्ठ देते रहें। असफलताएँ भी इस यात्रा का एक हिस्सा हैं, क्योंकि समय के साथ ये सभी छोटे-छोटे बदलाव (डेल्टा परिवर्तन) लाएंगे, जो आपको और संस्थान को आगे बढ़ाएंगे।

English: Whether we remain or not, the Institute will continue to thrive and grow with time. Until then, day in and day out, keep giving your best. Even failures are a part of this journey, as over time, all these small delta changes will propel you forward along with the Institute’s growth.