

Resume

Dr. N .Jayanth

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Dr. N. Jayanth currently serves as an **Assistant Professor** in the **Centre of Excellence in Product Design and Smart Manufacturing** at **Maulana Azad National Institute of Technology, Bhopal**. He received his **B.E. in Mechanical Engineering** from Anna University, Chennai and **M.E. in Computer Integrated Manufacturing** from **PSG College of Technology, Coimbatore**. He did his **Ph.D in Additive Manufacturing** from **National Institute of Technology, Tiruchirappalli**.

PROFESSIONAL QUALIFICATIONS:

Course	Institution	University	Year	CGPA
Bachelor of Engineering - Mechanical	University College of Engineering, Dindigul, India	Anna University	2013	7.79 / 10
Master of Engineering – Computer Integrated Manufacturing	PSG College of Technology, Coimbatore, India	Anna University	2015	8.30/ 10
Doctor of Philosophy- Production Engineering	National Institute of Technology, Tiruchirappalli, India	National Institute of Technology, Tiruchirappalli.	2020	9.25/ 10

FIELD OF INTEREST:

- Additive manufacturing
- Product development
- Computer Integrated manufacturing

Research Interests:

- Additive manufacturing of multifunctional materials and their applications
- Development of body armour using powder bed fusion process
- 3D printing of piezoelectric material for structural health monitoring system

LIST OF PUBLICATIONS:

Journals:

- N. Mohan, P. Senthil*, S. Vinod, **N. Jayanth**, A Review on Composite Materials and Process Parameters Optimization for Fused Deposition Modelling Process, Virtual and Physical Prototyping, 2017, volume 12 (1), p. 47–59
- **N. Jayanth**, P. Senthil*, C. Prakash Effect of chemical treatment on tensile strength and surface roughness of 3D-printed ABS using the FDM process, Virtual and Physical Prototyping, 2018, Volume 13 (3), p. 155-163
- **N. Jayanth**, P. Senthil* Application of 3D printed ABS based conductive carbon black composite sensor in void fraction measurement, Composites Part B, 2019, Volume 159, p.224–230
- **N. Jayanth***, P. Senthil, B. Mallikarjuna (2022), Experimental investigation on the application of FDM 3D printed conductive ABS-CB composite in EMI shielding. Radiation Physics and Chemistry, 198, 110263.
- **N. Jayanth***, K. Jaswanthraj, S. Sandeep, N. Harish Mallaya, S. Raghul Siddharth (2021), Effect of heat treatment on mechanical properties of 3D printed PLA. Journal of the Mechanical Behavior of Biomedical Materials, 123, 104764.
- Mallikarjuna, B. *, Bhargav, P., Hiremath, S. *, Jayachristiyan, K. G. and **Jayanth, N.** (2023) Recent Developments in Fused Deposition Modeling (FDM) Technology, Materials, Filaments, Process Parameters, and Military Applications. International Journal on Interactive Design and Manufacturing.
- **Jayanth, N.***, Roshan, M. V., Balaji, S. S., Karthik, P. D., Barathwaj, A., & Rishiyadhav, G. (2023). Additive manufacturing of biomaterials: A review. Materials Today: Proceedings.

Conferences:

- Experimental investigation on effect of process parameters on mechanical strength of 3D printed Poly Lactic Acid (PLA), 6th International and 27th All India Manufacturing Technology, Design and Research (AIMTDR) conference, Page No.55 - 58, 16-18 December 2016 at College of Engineering, Pune.
- Effect of Chemical Treatment on Tensile Strength and surface roughness of Fused Deposition Modeling Materials, International Conference on Manufacturing Technology and Simulation (ICMTS 2017), 7-8 July 2017 at IIT Madras.
- Additive Manufacturing of Biomaterials: A Review. 7th international Conference on Production and Industrial Engineering March 2023 at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.
- Optimisation of Printing Parameters of Fused Deposition Modelling of Carbon Fiber Reinforced PLA Composite. National Conference on Additive Manufacturing in Aerospace, Defence and other Engineering Sectors July, 2022 at National Design and Research Forum, The Institution of Engineers (India), Bengaluru.

Experience

Position	Organization	Period	Domain
Assistant Professor	Amrita School of Engineering Coimbatore	08/07/2019 to 21/12/2023	Additive Manufacturing
Research Scholar	National Institute of Technology Tiruchirappalli	05/08/2015 to 01/07/2019	Production Engineering