



Dr. Govind Sahu

1)	Name	Dr. Govind Sahu
2)	Designation	Assistant Professor
3)	Areas of interest	Thermal Engineering/Heat Transfer, Polymer nanocomposite
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Qualification –

		B.E., MTech & Ph.D. (NIT, Raipur)
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Academic Experience –

Course Handled –

Thermodynamics

RESEARCH PAPERS

1. Govind Sahu, M.S. Rajput & S.P. Mahapatra (2021): Polylactic acid nanocomposites for biomedical applications: effects of calcium phosphate, and magnesium phosphate nanoparticles concentration, *Plastics, Rubber and Composites*, 50(5), 228-240.
2. Govind Sahu, M.S. Rajput & S.P. Mahapatra (2020): Morphology, Mechanical and Rheological Properties of Polylactic Acid Nanocomposite Film. *Journal of Nano- And Electronic Physics*, 12(2), 02004.
3. Govind Sahu, M.S. Rajput & S.P. Mahapatra (2019): Effect of Calcium Phosphate on Tensile and Rheological Properties of Polylactic Acid (PLA). *Materials Science Forum*, 969, 404-408.
4. Govind Sahu, V. K. Gaba, S. P. Mahapatra (2018): Thermal conductivity, thermal diffusivity, and volumetric heat capacity of silicone elastomer nanocomposites: Effect of temperature and MWCNT and nano-graphite loadings. *High Performance Polymers*, 30 (3), 365-374.
5. A. K. Dey, P. S. Das, S. R. Pradhan, Govind Sahu (2018): Investigation of Fouling and its Impact in Heat Exchangers. *Journal of Mechanics of Continua and Mathematical Sciences*, 13 (4), 100-111.

Conference/Workshops

Conference –

1. Govind Sahu, M. S. Rajput, U. N. Sahu S. P. Mahapatra, “Production (Synthesis) and Rheological Properties of Poly Lactic Acid (PLA) for Food Packaging and Biomedical Application”. 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-10), held on 07th – 09th December 2017 at IIT Madras, India.
2. Govind Sahu, M. S. Rajput, S. P. Mahapatra, “Biodegradable polymer nanocomposites for packaging and biomedical applications” International Virtual Conference on Innovations in Advanced Materials Processing and Manufacturing (IAMPM-2020), held on 24 Jun 2020 at VIT Vellore, India.
3. Govind Sahu, M. S. Rajput, S. P. Mahapatra, “Prediction of Normal Stress Difference and Relaxation Modulus from the Viscoelastic Property of Polylactic Acid/Calcium Phosphate Nanocomposites”. 1st International Virtual Conference on Recent Advances in Material Science and Organic Synthesis (RAMSOS 2021), held on 20th-21th December 2021 at NIT Raipur, India.
4. Govind Sahu, M. S. Rajput, S. P. Mahapatra, “Morphological, Mechanical and Rheological Properties of Polylactic Acid Biocomposite Film”. 1st International Virtual Conference on Recent Advances in Material Science and Organic Synthesis (RAMSOS 2021), held on 20th-21th December 2021 at NIT Raipur, India.
5. Govind Sahu, Effect of preparation techniques and nanoparticles content on the morphological and mechanical properties of polylactic acid nanocomposites. First International Conference on Technologies for Smart Green Connected Society 2021. <https://spast.org/techrep/article/view/2090>

FDP

1. Volunteered in workshop on “Academic ethics and IPR” held during 04-05 April, 2014 at National Institute of Technology, Raipur.
2. Attended workshop on “Managing innovation eco-system, reverse innovation and start-up enterprises” held during 24-20 November, 2016 Organized by National Institute of Technology, Raipur & EGADE Business School, Mexico City, Mexico.
3. Attended Pre conference workshop on “How to Excel in Research, organized by department of mechanical engineering, IIT Madras, held on 06 December, 2017 at IIT Madras, India.
4. Attended AICTE sponsored short term course on “Recent advancements in industrial instrumentation and signal processing techniques held during 21-25 August, 2017 at PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur India.

5. Attended one-week short term course on “applications of research methodology, tools and techniques (ARMTT-2016)” held during 21-25 November, 2016 at National Institute of Technology, Raipur.
6. Attended Short Term Training Program (STTP) on “Biosensor and signal processing” held during 22-23 December, 2016 at National Institute of Technology, Raipur.
7. Attended and Volunteered one-week Short Term Training Program (STTP) on “CNC programming and practices” held during 10-14 October, 2016 at National Institute of Technology, Raipur.
8. Attended week long national level Short Term Training Program (STTP) on “Numerical methods and optimization techniques using MATLAB” held during 20-24 November, 2017 at National Institute of Technology, Raipur.
9. Participated in workshop on “3D printing: revolutionary gateway to future innovations” held on 20 December, 2018 at MM college of technology, Raipur.
10. Participated in “Industry Institute Conclave 2019” held during 08-09 November, 2019 at National Institute of Technology, Raipur.
11. Participated in online FDP on “Renewable Energy Sources: A Way Ahead” held during 15-21 May, 2020 at Cummins College of Engineering for Women, Nagpur.
12. Attended workshop on “Recent trends in mechanical engineering, informatics and management” held during 4-8 February, 2020 at National Institute of Technology, Raipur.
13. Attended webinar on “Robotics operations and applications” held on 7 Jun, 2020 at CMR University, Bangalore.
14. Attended workshop on “Scientific writing for journals” held on 01 September, 2020 at National Institute of Technology, Raipur.
15. Attended webinar on “Biodegradable composites for food packaging industries” held on 22 May, 2021 at Nehru Institute of Engineering and Technology, Coimbatore.
16. Attended webinar on “Electric Mobility: The key to a Green Future” held on 31 May, 2021 at Nehru Institute of Engineering and Technology, Coimbatore.
17. Attended webinar on “An Engineer can be an entrepreneur” held on 05 Jun, 2021 at Nehru Institute of Engineering and Technology, Coimbatore.
18. Attended webinar on “HVAC on mobile application” held on 17 July, 2021 at Nehru Institute of Engineering and Technology, Coimbatore.

Achievement

1. Five times GATE Qualified with highest percentile of 97.59.
2. Secured a score of 95% on an online quiz on“FLUID MECHANICS”, organized by the Department of Mechanical Engineering, Kallam Haranadhareddy Institute of Technology, Guntur, A.P., conducted during 02nd- 05th July, 2020
3. Secured a score of 80% on the National Level online Quiz on ENGINEERING GRAPHICS conducted by the Department of Mechanical Engineering, ANURAG Engineering College Ananthagiri (V&M), Suryapet (Dt), Telangana on 6/30/2020.

Additional responsibilities –