Dr. Mayaram Sahu

Designation	Assistant Professor	
Qualification	Ph.D (IIT BHU), M.Tech (IIT Dhanbad), B.Tech (SITE-Bhopal)	
Area of Interest	Natural circulation systems, Thermo-fluid flow analysis, Energy-Exergy Analysis, Mono/hybrid Nanofluids, Drop Shedding & Surface Wettability.	
Email	drmayaram.mech@piet.co.in	
D.O.J.	27/03/2023	

Faculty Profile

Faculty Name	Dr. Mayaram Sahu
Designation	Assistant Professor
Qualification	Ph.D, M.Tech, B.Tech
Email	mayaram.sahu@gmail.com
Area of Interest	Natural circulation loop, Passive heat exchangers, Thermo-fluid flow analysis, Energy-Exergy Analysis, Mono/hybrid Nanofluids, Drop Shedding & Surface Wettability.
Work Experience (Total)	**5 years**
• Teaching	5 years (As a Teaching Assistant at IIT BHU)
• Research	-
• Industry	-
• Others	-
Courses taught at Under Graduate Level	Thermodynamics, Heat transfer, Fluid mechanics
Membership of Professional Bodies	**-**
Research Publications	**6**
• Research Papers UGC-CARE	-
• Research Papers SCOPUS	-

• Research Papers WoS/SCI/ABDC	**6**
• List of Publications	•**Mayaram Sahu** and Jahar Sarkar, "Steady-state energetic and exergetic performances of single-phase natural circulation loop with hybrid nanofluids," *J. Heat Transf. 141* (2019), 082401. **[SCI, IF=2.021]** • **Mayaram Sahu**, Jahar Sarkar and Laltu Chandra, "Transient thermo-hydraulics and performance characteristics of single-phase natural circulation loop using hybrid nanofluids", Int. Commun. Heat Mass Transf. 110 (2020) 104433. **[SCI, IF=6.782]** • **Mayaram Sahu**, Jahar Sarkar and Laltu Chandra, "Steady-state and transient hydrothermal analysis of single-phase natural circulation loop using ternary hybrid nanofluid", AIChE Journal 67, no. 6 (2021): 17179. **[SCI, IF= 4.167]** • **Mayaram Sahu**, Jahar Sarkar and Laltu Chandra, "Single-phase natural circulation loop using oils and ternary hybrid nanofluids: Steady-state and transient thermo-hydraulics", J. Thermal Sci. Eng. Appl. 13 (2) (2021), 021030. **[SCI, IF= 1.879]** • **Mayaram Sahu**, Jahar Sarkar and Laltu Chandra, "Effects of various modeling assumptions on steady-state and transient performances of single-phase natural circulation loop," Int. Commun. Heat Mass Transf. 124 (2021) 105247. **[SCI, IF=6.782]** • **Mayaram Sahu**, Jahar Sarkar and Laltu Chandra, "Experimental investigation of performances of single-phase natural circulation loop using water-based mono/hybrid nanofluids", Int. J. Therm. Sci. 187 (2023) 108198 **[SCI, IF=4.779]**

Book and Chapter Publications	**-**
• Books Authored published by International Publishers	
• Books Authored published by National Publishers	
• Publication of Chapter in Edited Books	
• Editor of Book by International Publishers	
• Editor of Book by National Publishers	
• Translation Work of Book	
• List of Book and Chapter Publications	
Patents	**-**
• Published	
• List of published patent(s)	
• Filed	
• List of filed patent(s)	
PhD Guidance	**-**
• Degree Awarded	
• Thesis Submitted	
M.Tech. Guidance	**-**
• Degree Awarded	
• Thesis Submitted	
Research Project	**-**
• List of Research project	
Consultancy	**-**
• List of Consultancy	
Awards & Honours	
• List of Awards & Honours	• Recipient of scholarship from MHRD, India for Ph.D. Through GATE examination. • Awarded 2nd position in "Technical model making" in Technical festival "MECHTRICX 2K11" organized by SIRTE Bhopal in 2011.
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full	**3**

paper in Conference	
• International (Abroad)	**1**
• International (Within Country)	**2**
• National	**-**
• List of published papers	• **Mayaram Sahu**, Jahar Sarkar and Laltu Chandra, "Performance of single-phase natural circulation loop using hybrid nanofluids for heating above 100^{o} C". *Proceedings of the 25th National and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference,2019, 28-31 December, IIT Roorkee.* • **Mayaram Sahu**, Shubham Kashyap, Jahar Sarkar and Laltu Chandra, "Evaluation of thermal performance of passive indirect solar water heating system using thermal oil-based hybrid nanofluids", " *In Proceedings of the 26thNational and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference December 17-20, 2021, IIT Madras, Chennai-600036, Tamil Nadu, India. Begel House Inc., 2021.* • Lukesh Kumar Mahato, **Mayaram Sahu**, Animesh G. Kujur, and Deepak Kumar Mandal. "The Role of Wettability on the Shedding of Drops." *In APS Division of Fluid Dynamics Meeting Abstracts, pp. T04-003. 2020.*
Organizing National Conference/ International Conference/ FDP/STTP	**-**
• List of Conference/FDP/STTP committee	
Social Contributions and Sports	**-**
• **List of Social Contributions and Sports**	