

Faculty Profile

Faculty Name	Dr. Ranjan Chaudhary
Designation	Assistant Professor
Qualification	Ph.D, M.E, B.Tech
Email	drranjan.mech@piet.co.in
Area of Interest	Thermal Engineering, Solar Thermal Applications.
Work Experience (Total)	5 Years 2 Months
• Teaching	5 Years 2 Months
• Research	--
• Industry	--
• Others	--
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	Fluid Mechanics, Heat and Mass Transfer, Refrigeration and Air conditioning, Engineering Graphics and Design, Manufacturing process.
Membership of Professional Bodies	--
Research Publications	
• Research Papers UGC-CARE	--
• Research Papers SCOPUS	1
• Research Papers WoS/SCI/ABDC	5
• List of Publications	<ul style="list-style-type: none"> • Ranjan Chaudhary & Avadhesh Yadav (2020). Experimental investigation of a solar cooking system inhibiting closed air tight cooking pot and evacuated tube collector for the preparation of Indian cuisine items. Environment development and Sustainability, Springer, DOI: 10.1007/s10668-020-00711-3 (SCI, Scopus). • Ranjan Chaudhary & Avadhesh Yadav (2020). Experimental investigation of a solar cooking system based on evacuated tube collector for the preparation of concentrated sugarcane juice used in

	<p>jaggery making. Environment development and Sustainability, Springer, DOI: 10.1007/s10668-020-00601-8 (SCI, Scopus).</p> <ul style="list-style-type: none"> • Ranjan Chaudhary & Avadhesh Yadav (2020). A twin vessel solar cook stove for simultaneous cooking of two different cooking articles. Solar energy, Elsevier, DOI: 10.1016/j.solener.2020.08.032 (SCI, Scopus). • Ranjan Chaudhary & Avadhesh Yadav (2021). Experimental investigation of a solar energy based cooking system for the steam method of cooking using evacuated tube collector. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. DOI.ORG/10.1080/15567036.2021.1974609 (SCI, Scopus). • Ranjan Chaudhary, Neeraj Mehla, Amit Kumar, & Avadhesh Yadav. (2023). Energy, exergy and exergoeconomic (3E's) analysis of simmering type cooking using evacuated tube collector. <i>Environmental Progress & Sustainable Energy</i>, 42(2), e14071. (SCI, Scopus) • Ranjan Chaudhary & Avadhesh Yadav (2019). Compatibility of concentrating and non concentrating collectors with cooking applications for different cooking needs. International Journal of Engineering and Advanced Technology (IJEAT). Volume-8 Issue-6, August 2019. DOI: 10.35940/ijeat.F9563.088619 (Scopus).
Book and Chapter Publications	
<ul style="list-style-type: none"> • Books Authored published by International Publishers 	--
<ul style="list-style-type: none"> • 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	--
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	
● International (Abroad)	--

<ul style="list-style-type: none"> ● International (Within Country) 	1
<ul style="list-style-type: none"> ● National 	1
<ul style="list-style-type: none"> ● List of published papers 	<p>International conference</p> <ul style="list-style-type: none"> ● Ranjan Chaudhary, Satish Kumar & Dwarka Nath Ratha 2012, “Analysis of Flow characteristics of bottom ash slurry in a pipeline”. Proceeding of the International Conference on applications of Fluid Engineering” (CAFE - 2012), September 20-22, 2012 organized by G.L Bajaj Institute of Technology & Management, Greater Noida, (U.P), India. <p>National conference</p> <ul style="list-style-type: none"> ● Ranjan Chaudhary & Avadhesh Yadav 2017, “Prospective of installed solar dish concentrator thermal units for industrial use in India: A Review. Proceedings of the National Conference on Recent Advances in Mechanical Engineering”, June 02-03, 2017 organized by Mechanical Engineering Department , N.I.T, Kurukshetra.
Organizing National Conference/ International Conference/ FDP/STTP	
<ul style="list-style-type: none"> ● List of Conference/FDP/STTP committee 	--
Social Contributions and Sports	
<ul style="list-style-type: none"> ● List of Social Contributions and Sports 	--