

Govt. College of Engineering, Nagpur

Brief Resume



1	Name	<i>TRIPTI NAMDEO KUMBALPURI</i>						
2	Designation	ASSISTANT PROFESSOR						
3	Additional Charge/ Function Details	<ul style="list-style-type: none"> • Career Guidance Cell, Institute Coordinator • Nodal officer for Competitive Exam Center under DTE • Innovation Council Committee Member • Institute Website Committee Member • Cultural In charge • Music Club Coordinator • Department NBA Coordinator • MESA Faculty In charge 						
4	Qualification	<p>B.E (Mechanical Engg.) /1999 / Amravati University /Govt. Engineering College Amravati</p> <hr/> <p>M.Tech /2008 / Nagpur University/ First class with distinction (81.25%)/ (Mechanical Engg.Design)</p> <hr/> <p>PhD (pursuing)/2021 onwards under the AICTE, QIP Scholarship Scheme, at Jadavpur University ,Kolkata (W.B).Research Area : Electrokinetics :Microfluidics</p>						
5	Experience:	<p>Academic / Research: 23 yrs in Academics</p> <hr/> <p>Professional /Industrial: 01 year (Industrial)</p>						
6	Courses taught	<p>Undergraduate :</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1)Fluid Mechanics</td> <td style="width: 50%;">2) Dynamics of Machines</td> </tr> <tr> <td>3) Industrial Engineering</td> <td>4)Design of Machine Element</td> </tr> <tr> <td>5)Energy Conversion II</td> <td>6) Operation Research Techniques</td> </tr> </table>	1)Fluid Mechanics	2) Dynamics of Machines	3) Industrial Engineering	4)Design of Machine Element	5)Energy Conversion II	6) Operation Research Techniques
1)Fluid Mechanics	2) Dynamics of Machines							
3) Industrial Engineering	4)Design of Machine Element							
5)Energy Conversion II	6) Operation Research Techniques							
7	Titles UG projects Supervised	<p>1. <i>Design and Fabrication of microchannels for analysing the flow</i></p>						

		<p><i>characteristics of non-Newtonian fluid (current session)</i></p> <ol style="list-style-type: none"> 2. <i>Design and Fabrication of AGV for garbage collection.(2019-20)</i> 3. <i>Design and Fabrication of experimental set up of static and dynamic balancing of rotating masses for dynamics of machine laboratory (2016-17).</i> 4. <i>Design and Fabrication of Walking Chair (2015-16)</i> 5. <i>Numerical and Experimental Analysis for Transverse Vibration of Fixed Free Beam (2014-15)</i> 6. <i>Study and Analysis of Evacuated Tube type Solar Water Heating System (2013-14)</i> 7. <i>Analysis of Standard Model of Cyclone Separator by Computational Fluid Dynamics (2012-13)</i> 8. <i>Design and Fabrication of Solar inverter with addition of manual and automatic tracker (2011-12)</i>
8	Topics of Research/ Interest	<p>Electro kinetics : Microfluidics Viscoelastic and Viscoelastic fluids : Rheology Computational Fluid Dynamics</p>
9	Courses/Trainings attended:	<ol style="list-style-type: none"> 1. One week AICTE sponsored STTP on “Use of Modern Tools and Computing Skills for Engineers and Researchers “ at PCE,Nagpur ,21st-26th,Dec 2020 2. One Week AICTE-ISTE sponsored STTP on “Advancement in Renewable Energy Sources”at GCOE,Nagpur 14th-19th Dec,2020 3. 2 Week FDP on “Managing Online Classes and Co-Creating MOOC” at T& L Centre Ramnujan College ,University of Delhi, April 20-May 06,2020 4. Management Capacity Enhancement Programme” 18-22 Janaury 2016 ,One week STTP at Govt. Engineering College Chandrapur. 5. “Advances In Micro manufacturing”-1-12th,June 2015,2 Week AICTE sponsored FDP at College Of Engineering Pune. 6.”Fluid Mechanics” 20-30th June 2014 2 week ISTE workshop conducted by IIT Kharagpur at VNIT Nagpur. 7.”Research Methodology Including Mathematical Modelling Computer Application and Simulation” :26th-31st Dec2013 One week STTP,at Priyadarshini College of Engineering ,Nagpur. 8.”Industrial Automation “(INATO-2012) ,03-07 ,Dec 2012 One week STTP at Govt. Engineering College Chandrapur.

		<p>9."Computational Fluid Dynamics" 12th -22th June 2012, 2 week ISTE workshop conducted by IIT Bombay at G.H.Raisoni Engineering ,Nagpur.</p> <p>10."Thermodyanamics In Mechanical Engineering" 14th -24^h June 2011, 2 week ISTE workshop conducted by IIT Bombay at G.H.Raisoni Engineering ,Nagpur.</p>
10	Publications : Paper Publications	
	International Journals	<ol style="list-style-type: none"> 1. Thermally developing combined electroosmotic and pressure-driven flow of Phan–Thien–Tanner fluids in a microchannel Special Collection: Tanner: 90 Years of Rheology 2. Analysis of Thermally Developing Electroosmotic and Pressure Driven Simplified Phan –Thien -Tanner (sPTT) Fully Developed Fluid Flow for High Zeta Potential in Microchannel. 10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP) IIT Jodhpur, India. 3. Hydrodynamic Analysis of Mixed Electroosmotic and Pressure Driven simplified Phan –Thien -Tanner (sPTT)Fluid Flow for High Zeta Potential in Microchannel 9th International and 49th National Conference on Fluid Mechanics and Fluid Power (FMFP) 4."A Review of Blood flow through Micro channels " at "Responsible Manufacturing (VICRM 20) G.P.Gondia.10th-11th Dec.2020. 5."CFD Investigation Of Flow and Calculation for Pressure Drop in Tangential Inlet Cyclone Seprator." :International Conference On Emerging Research and Advances in Mechanical Engieering .ERA-2009-19-21 Nov2009. Vellammal Engineering College Chenna 6. "Vendor Managed Inventory: A New Approach to Supply Chain Management": International Conference On Emerging Research and Advances in Mechanical Engineering .ERA-2009-19-21 Nov2009. Vellammal Engineering College Chennai.
	National Journals	<ol style="list-style-type: none"> 1. "Review of AGV for Garbage Collection" Sammantranna National Conference at GCOE,Nagpur,Feb 2019 2. "Review on the present scenario of aeronautical bearing and comparison between air and ball bearing "At "Vaimanika-2018"organize by Priyadarshini Engineering College, Nagpur in collaboration with Aeronautical Society of India.

		<p>3. To study and analyse the change in various parameter of rocket nozzle by changing the Mach Number using CFD. At “Vaimanika-2018”organize by Priyadarshini Engineering College, Nagpur in collaboration with Aeronautical Society of India.</p>
11	Expert Lecture	<p>1.“Non Destructive Testing Technique” at Datta Meghe Polytechnic Nagpur</p> <p>2. “Scope of Fluid Mechanic’s and its application’s “ at G.H.Raisoni Engineering Academy College ,Nagpur.</p> <p>3.”Introduction and application of Microfluidics” at G.P.Gondia.</p>
12	Other Achievements /Awards	Best Innovative Project Award at 2003 State Level Dipex Competition for the guided project “Robotic Ant for surveillance”
13	Memberships of Professional / Non Professional Bodies	ISTE Membership (Lifetime) LM42181
14	Extracurricular activities/ Achievements	<ul style="list-style-type: none"> • <i>Received a Certificate of Appreciation and award for the outstanding contribution in “All India Essay Writing Event 2017”organized by SRCM &United Nation Information Centre for India &Bhutan(UNIC)</i> • <i>Institute Career Guidance Cell Faculty Coordinator.2019,2020.</i> • <i>Organised “Techfest” at department level as MESA Incharge 2018.</i> • <i>Magazine Editor for Institute Magazine Kshitij 2014 , Kshitij 2015 , Kshitij 2016</i> • <i>Institute Cultural Incharge 2015-16.</i> • <i>Cordinator of various design courses for students such as Auto CAD,CREO,ANSYS.</i> • <i>Organized a 3 day Workshop for engineering girls students “Women Technocrat”</i>