Faculty Profile			
Name :	Dr. Hardik Pravinbhai Patel		
Date of Birth :	03/04/1982		
<b>Educational Qualifications:</b>		66	
-Ph.D. (University)	(Gujarat Technological University)		
-Master's (University)	M.E (Hemchandracharya North Gujarat University)		
-Bachelor's(University)	B.E (Gujarat University)		
-Any Other:			
Area of Specialization :	Mathematics		
Date of Joining (LJIET)	04/08/2014		
Present Position :	Assistant Professor		
Contact Details:			
-Address :	J-1, Balaji Avenue, Judge's Bungalow Ro Opp. Swaminarayan Temple, Vastrapur Ahmedabad -380015		
-Email	hardikpatel@ljinstitutes.edu.in		
-Phone	( <b>R</b> ) ( <b>M</b> ) 9427958305		
Work Experience :	Teaching ( 12 years) Industrial() Resea	arch& Development()	
Subjects taught :	-		
-Under Graduate level	Mathematics-1, Mathematics-2, Mathematics-3, Mathematics-4, Calculus, Vector Calculus and Linear Algebra,		
-Post Graduate level			
Area of Specialization in your field			
A brief account of work done by you in the			
M. Pharm. and Ph.D.	"Hydrodynamic Bearing Systems"  Bearings discover their uses in multiple mechanical components, reducing frictional losses between two mechanical parts that rotate or slide. To understand the functioning of these machine components, the pressure distributions velocities must be known. The additives are frequently used in lubricating fluids, which make them non-Newtonian. The use of non-Newtonian fluid as lubricants has become more important with the development of modern industrial materials, since the Newtonian fluid constitutive approximation is not found to be a satisfactory engineering approach for many practical lubrication applications. Lubrication is the action of viscous fluids to diminish friction and wear between solid surfaces. The lubricant resistance to motion, the hydrodynamic pressure is built from a lubricant, and this pressure helps to prevent contact between two solid surfaces. The field of science which deals with practice and technology of lubrication is named Tribology. The effect of ferrofluid lubrication on the various types of bearings, where different types of surface roughness were considered, to improvise the performance of bearing systems. This would be useful for the extension of the life period of the bearing system by ferrofluid lubrication of the rough		
New Technologies /methods developed	bearing, which helps the meson to increase	the of bearings.	
by you			
Scale up and Technology Transfer			

Indus	trial Projects Carried Out : (No.)	
	ue/Royalty earned by the nization in Indian Rupees	
	overnment funded Projects taken by you and their total value	<b></b>
	rch Guidance :	
-Maste	er's	<b></b>
-Guide	e for PhD	
Sumn	ner/Winter/School/Conference/Wo	8
rksho	ps attended:	
Sumn	ner/Winter/School/Conference/Wo	
rksho	ps Conducted:	
	ts taken/applied for:	
		d. N
Public	cations: No of books:0_(all inter	rnational)
Resea	arch Papers:6_	
1.	International Journal of Scientific & Ferro fluid based squeeze film in porroughness	Engineering Research(IJSER) 2015 rous annular plates considering the effect of transverse surface
	https://www.ijser.org/researchpaper/the-effect-of-transverse-surface-roug	Ferro-fluid-based-squeeze-film-in-porous-annular-plates-considering hness.pdf
2.	Italian Journal of Pure and Applied M Combined effect of magnetism and r plates: Effect of variable boundary co	oughness on a ferrofluid squeeze film in porous truncated conical
	http://ijpam.uniud.it/online_issue/20	1839/11-Patel-Deheri-Patel.pdf
3.	Journal of Applied Science and Com Squeeze Film Performance between	putations 2019 a Rectangular Plate and a Rough Porous Surface
	http://j-asc.com/gallery/248-february	<u>v-2039.pdf</u>
4.	International Journal of Research and Numerical modelling of hydromagne	d Analytical Reviews 2019 etic squeeze film in Conducting longitudinally rough annular plates
	http://www.ijrar.org/viewfull.php?&	p_id=IJRAR19K2609
5.	Advances in Intelligent Systems and Performance of a Hydromagnetic Sq Plates	Computing (AISC) 2019 ueeze Film Between Longitudinally Rough Conducting Triangular
	https://link.springer.com/chapter/10.	1007/978-981-15-0184-5_11
6.	Advances in Intelligent Systems and Study of squeeze film in a ferrofluid	Computing (AISC) 2019 lubricated longitudinally rough rotating plates
	https://link.springer.com/chapter/10.	1007/978-981-15-0184-5 19

Conferences ,Workshops and Seminars

- 1. Attended 1 week Workshop on "**Problem Solving in Mathematics**" at Department of Mathematics, Sardar Patel University, Vallabh Vidhyanagar in Dec 2006.
- **2.** Attended 1 day Workshop on "Scope of Research in Applied Mathematics" VGEC, Chandkheda, Ahmedabad in Dec 2013.
- **3.** Participated in 1 day national level seminar on "**Applications of Mathematics in Engineering**" organized by Department of Mathematics and Computer Sciences held at Pandit Deendayal Petroleum University on 29<sup>th</sup> Mar 2014.
- **4.** Attended 1 week Short term Quality Improvement Programme on "**Fundamental of Engineering Tribology Application**" at IIT Delhi, Haus Khas, New Delhi in Dec 2015.
- **5.** Attended 1 week Short term training Programme on "Numerical Computation by Programming" at LDCE, Ahmedabad during 20-24 Jun 2016.
- **6.** Participated in 3 day national level seminar on "**Advanced Numerical Method**" organized by Department of Mathematics and Computer Sciences held at Pandit Deendayal Petroleum University on 2017.
- 7. Participated and presented a paper in International conference on "Advances in Pure and Applied Mathematics" organized by Department of Mathematics, Ganpat University, Mehsana during 22-24 Dec 2017.
- **8.** Participated and presented a paper in International conference on "**SOCPROS-18**" held at VIT, Vellore during 17-19 Dec 2018

Notable Achievements and activity executed:		
Association with Professional Bodies		
Grants Received/Fetched:		
Consultancy and Expertise available for industries		