

BIO DATA

Name :- Dr. Bharatkumar M. Sutaria

Address :- - 39, Rajvihar row House,
B/H Shreeji Nagari Nr. Parishram Park, Ugat Road
Jahangirabad, Surat – 395 005

Position :- Associate Professor **Date of Joining Institute :** 17/08/1991

Date of Joining Present Position: 01/01/2006

Date of Birth : 21/05/1967 **Ph.D. Degree Awarded:** 2011



Qualifications:

Degree	College/University	Year	Specialization
Ph.D.	SVNIT	2011	Engine Tribology
M.E (Mech)	REC, Surat, South Gujarat	1996	Mechanical
B.E. (Mech)	S.S. Engg. College, Bhavnagar	1989	Mechanical

Experiences :

University / College/ Industry	Designation	Period
SVNIT, Surat	Associate Professor	01/01/2006 to till date
SVNIT, Surat	Lecturer	17/08 /1991 to 31/12/2005
B & B Polytechnic College, V.V.Nagar, Anand	Lecturer	01/03/1991 to 16/08/1991
Mipco Seamless Rings Ltd, Bharuch	Maintenance Engineer	01/08/1990 to 28/02/1991

Subjects taught and Research Area of Interest:

Engine Tribology
Tribology & Machine Dynamics
Measurement Systems
Experiment Techniques
Applied Thermodynamics & Thermal engineering
Heat Transfer
Machine Tool Design
Basic Mechanical Systems

Research Publications :

(No. of Research Publication Since Joining – Please find in attach list of Publications)

Publications	Numbers
National Conference	28
National Journal	01
International Conference	28
International Journal	05

International Conferences/Colleges visits: London, USA, Thailand, UAE, Turkey

No. of M. Tech. / Ph.D. guided with details (Please attach list of Dissertation/ Thesis) :
M. Tech. :20 Completed + 05 On going
Ph.D. : 03 On going

No. of Patent obtained (with details): NIL

No. of Patent applied (with details):

Patent Application No.	Invetors name(s)	Title of Patent	Date of Application /Award	Status Applied / Obtained
IBR No. 7971/2010 Design patent	Bhatt D. V. Mistry K, N. Sutaria B. M.	Piston(s) segement holding attachment for reciprocating & wear monitor test rig	Application no. 232881 26 Nov. 2010	Applied
IBR No. 7971/2010 Design patent	Bhatt D. V. Mistry K, N. Sutaria B. M.	Cylinder Liner Segment with base plate for reciprocating & wear monitor test rig	Application no. 232882 26 Nov. 2010	Applied

No. of R&D Project (Funded by various agenices) : Nil

Title of Project	Funding Agency Name (a) National* (b) State * (c) Private* (d) Trust / Society*	Team of Investigator(s)	Sanction Amount (Rs.)	Sanctioned Date	Status Ongoing/ Completed
Tribology Performance Study on Two Stroke SI Engine (2006-2007)		Dr. D. V. Bhatt Dr. B. M. Sutaria	7.5 Lacs	2006-2007	Completed

* Please mention category of funding agency viz. (a),(b),(c) and (d)

No. Conference /Short term Course / Workshop / Training Programme / Seminar Organized :

Programme organised	Number	Programme organised	Number	Programme organised	Number
International Conference	Nil	Short Term Course	03	Training Programme	01
National Conference	01	Workshop	01	Seminar	

(Attach detail list in following format)

Module Description	Any other contributory Inst. / Industry	Developed / organized by	Duration	Resoruce Persons	Target Audience	Usages and citation etc.
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No. of Expert Lecture Delivered (Please attach list with details) : 07

No. of Expert Lecture Organized : (Please attach list with details): 05

(For UG/ PG/ Rsearch scholar) (1) Dr. H. H. Hriani, IIT, Delhi

(2) Dr. K. C. Vora, AREA, Pune

(3) Dr. Sudeep Ingole, Texas, USA

(4) Dr. R. V. Upadhyay, Charusat

(5) Dr. M. A. Bulsara, GH CET, Ananad

Consultancy & Testing : Consultancy : 02

Title of Project /work	Agenices	Team of Faculty	Amount	Date
To provide proof checking services for launching scheme for steel girder for railway over bridge on Bagodra – Vasad – Tarapur Road	M/s Rajkamal Builders Infrastructure Pvt Ltd. 54, Park hill society, Near Heaven Park Society, Ramdevnagar, Ahmedabad -380 015	Dr. B. M. Sutaria Dr. A. K. Deasai Dr. C. D. Modhera	1,01,250 = 00	September – October, 2013

(b) Testing : Pl. find in attached sheet at last

Title of Project /work	Agenices	Team of Faculty	Amount Rs.	Date
Remaining life assesments study of Steel tanks nos 20	RSPL, GIDC Panoli, Anckleshwar	Dr. B. M. Sutaria Dr. A. K. Deasai Dr. J. V. Meghani	1,77,000 = 00	Feb-March, 2016

Interaction with outside World: (Not limited to following) (attach list with following category)

Like :

- Institute abroad, Eminence institute in India & National Research Lab.
- Institute / Industry not cover above
- State level Institute / Industry / R&D Organization
- NBA Visit
- Member of Board of Studies / Academic body of other institute
- Expert Lecture
- Thesis evaluation / Examination conduct
- Collaborative R&D Projects
- Consultancy & Testing work
- Collaborative Conference / Workshop /Seminar organized
- Visiting faculty to other institute
- Co-guidance Project/ Dissertation / Thesis
- Visit to foreign country to participant in International Conference, foreign deputation, Post Doct, etc.

(Dr. B. M. Sutaria)

Email:bms@med.svnit.ac.in, CC No.:09427421615

RESEARCH PUBLICATIONS:

National Conferences:

Sr. No.	Authors	Title of paper	Name of conference/ Seminal/journal	Month & year
1	Sutaria B. M. Mistry. K.N	Effect of chip thickness on cutting force in an orthogonal cutting	16 th AITDMR Conference at Pune,	Nov-1996
2	Sutaria B. M. Raval H. K. Mistry K. N	Using a Grid marking Technique in Orthogonal Metal cutting Process	17 th AITDMR Conference at REC Warangal, (A.P)	Jan-1997
3	Sutaria B. M Mistry K. N.	Strength measurement in friction welding	National Conference on AIME-2006 at New Delhi.	20-21,Jan 2006
4	Sutaria B. M Shah. R. D. Parekh. A. D. Bhatt. M. K	A Study residual life assessment of boiler.	XIV NASAS 2006, VNIT, Nagpur	30-31,Jan 2006
5	Sutaria B. M. Shah. R. D. Mistry K. N	A Parametric study on friction welding process.	Recent Advances in Manufacturing Technology, Velammal Engg. College, Chennai	3 rd March-2006
6	Sutaria B. M. Parekh. A. D. Shah R. D. Patel V. M	Analysis of Heat transfer in pin fin under steady state.	Advancing in Mechanical Engineering, Kota, Rajasthan.	18 &19 March-2006
7	Sutaria B. M Shah R. D.	Finite element analysis of pin-fin.	Application of Advance Quality/ Method in Engg. & Technology (AAQMENT-06), Irod, Tamilnadu.	23 & 24 March-2006
8	Sutaria B. M. Bhatt D. V. Mistry K. N.	Analysis of PRA friction Models of an Internal Combustion Engine	Recent Developments and Future Trends in Mechanical Engineering, NIT, Hamirpur	3-4 Nov.2006
9	Sutaria B. M Bhatt D. V. Shah A. S. Mistry K. N.	An over view wear mechanism, causes , and prevention in piston ring assembly in an I. C. Engine	Recent trend in Mechanical Engineering, GCET, Vidhynagar, Anand	19- 20,Mach - 2008
10	B.M. Sutaria Dr. D. V. Bhatt Dr. K.N. Mistry	Simulation of PRA friction Models and Experimental study of an Internal Combustion Engine.	ICEE-2009, Pandicherry Engineering college, Panucherry, India	7-9,Jan-2009
11	Sutaria B. M Bhatt D.V. Mistry K. N.	Experimental Study to Measure Piston ring Assembly Friction using various operating parameters.	Tribology of Automotive Systems, IIT Delhi.	11-12, Dec. 2009
12	Sutaria B. M. Bhatt D.V. Aware G.	An Investigation of Friction Between Piston Ring and Cylinder Wall of I.C. Engines	Tribology of Automotive Systems, IIT Delhi.	11-12, Dec., 2009

13	Sutaria B. M. Bhatt D.V. Aware G.	Literature Review on Friction Forces and Piston Ring Dynamics.	Tribology of Automotive Systems, IIT Delhi.	11-12, Dec., 2009
14	Sutaria B. M. Bhatt D.V. Shinde S. B.	Simulation and Analysis of Friction Forces at PRA and Piston Ring Dynamics.	Tribology of Automotive Systems, IIT Delhi.	11-12, Dec., 2009
15	Sutaria B. M. Bhatt D.V. Shinde S. B.	Literature Review on Piston Ring Lubrication.	Tribology of Automotive Systems, IIT Delhi.	11-12, Dec., 2009
16	Sutaria B. M. Bhatt D.V. Patel Jitu	Theoretical Modelling of Piston Ring Assembly.	Tribology of Automotive Systems, IIT Delhi.	11-12, Dec., 2009
17	Sutaria B. M. Bhatt D.V. Patel M. T.	Tribological Study of Automotive Engine Oil.	25 th National Convention on “Recent Developments in Manufacturing Technology”, NIT, Agartala, Tripura.	8-9 May, 2010
18	Sutaria B. M. Bhatt D.V. Mehta P. M.	Tribological characteristics of flake and nodular graphite cast iron under wet condition.	25 th National Convention on “Recent Developments in Manufacturing Technology”, NIT, Agartala, Tripura.	8-9 May, 2010
19	Sutaria B. M. Chaudhary Prasson	Sliding friction characteristic of composite material – A critical review	National Conference on Emerging Trends in Mechanical Engineering (ETME-2008), GCET, Anand	18-19, March, 2011
20	Sutaria B. M. Bhatt D.V. Mistry K. N.	Experimental Evaluation of Friction Coefficient on Segmented Piston Ring Assembly of Automobile Engine.	National Tribology Conference (NTC-2011) IIT Roorkee.	8-10 Dec., 2011
21	Sutaria B. M. Bhagat Vinay	A study Tribological characteristic of I. C. engine	Advances in Mechanical Engineering, UIET, Panjab University, Chandigarh	20-21, May, 2011
22	Sutaria B. M. Patel J. M. Patel Keyur	Evaluation of heat transfer characteristics of a double pipe heat exchanger for temperature range of hot fluid (90 ⁰ C to 95 ⁰ C)	Thermal fluids and manufacturing systems (TFMS-2012), I.E and C. K. Pithawal Engg. College, Surat	20-22, January, 2012 ISBN 978-81-8487-202-6
23	Sutaria B. M. Bandapalli C. Bhatt D. V.	An overview on Tool wear Mechanism in Metal cutting	Thermal fluid science and Tribology applications, MED, SVNIT, Surat	27-28, May, 2016 ISBN 978-93-5265-440-6
24	Sutaria B. M. Dave H. R.	Fundamentals of Homogeneous Charge Compression Ignition(HCCI) Engines	Thermal fluid science and Tribology applications, MED, SVNIT, Surat	27-28, May, 2016 ISBN 978-93-5265-440-6

25	Sutaria B. M. Bhadakwad Simon.	FEA Of stress and Hollowness of Tapered rollers bearing	Thermal fluid science and Tribology applications, MED, SVNIT, Surat	27-28, May, 2016 ISBN 978-93- 5265-440-6
26	Sutaria B. M. Mulani K. D. Bhatt D. V.	A Review on Tribological Behaviour of Magneto Rheological fluid	Thermal fluid science and Tribology applications, MED, SVNIT, Surat	27-28, May, 2016 ISBN 978-93- 5265-440-6
27	Sutaria B. M. Chaudhary T.	Piston Ring Liner Assembly Friction in I. C. Engine: A Review	Thermal fluid science and Tribology applications, MED, SVNIT, Surat	27-28, May, 2016 ISBN 978-93- 5265-440-6
28	Sutaria B. M. Vasava J. Bhatt D. V.	Megnetorehological Fluid as lubricant in Bearings: A Review	Thermal fluid science and Tribology applications, MED, SVNIT, Surat	27-28, May, 2016 ISBN 978-93- 5265-440-6

National Journals:

Authors	Title of paper	Journal/ Volume/ Page no	year
Sutaria B. M. Bhatt D. V. Mistry K. N.	Development of Test Rig and Experimental Study to Measure Piston Ring Assembly Friction under Different Variables	Indian Journal of Tribology Volume 5 (1) / PP: 37-41	2010

International Conferences:

Sr. No.	Authors	Title of paper	Name of conferences / Seminar	Month & year
1	Sutaria B. M. Bhatt D.V. Mistry K.N.	Theoretical Analysis of Various PRA friction Models of An I.C. Engine- An over view	International Conference on Industrial Tribology, IISc, Banglore	30. Nov to 2 Dec., 2006
2	Sutaria B. M. Bhatt D.V. Mistry K.N.	Friction force analysis in piston ring of a single cylinder Gasoline engine under motorized condition	International conference on recent trend in Mechanical Engineering, SUSCET, Mohali, Punjab.	23 to 25 Jan-2008
3	Sutaria B. M. Bhatt D. V. Mistry K.N.	Simulation of PRA friction models and experimental study of an Internal combustion Engine	Energy Engineering Vol.1, Mechanical Engineering, (ICEE- 2009), Pondicherry Engg. College, Pondicherry.	9 -10, January 2009 PP: 203-208. ISBN: 978-81- 8424-479-3 Vol. I
4	Sutaria B. M. Bhatt D.V. Mistry K.N.	Simulation and modelling of friction force and oil film thickness in piston ring cylinder liner assembly	World Congress on Engineering, (WCE- 2009) Imperial college, LONDON, U.K.	30 th June -2 nd , July 2009 PP: 1452-1457 ISBN (Vol. I & II) 978-988-17012-5-1 978-988-18210-1-0

5	Sutaria B. M. Bhatt D.V. Mistry K. N. Shah A. S.	Experimental study and analysis of temperature variation in multi cylinder motorized engine test rig under different lubricants – A case study	World Congress on Engineering, (WCE-2009) Imperial college, LONDON, U.K.	30 th June -2 nd , July 2009 PP: 1635-1639 ISBN (Vol. I & II) 978-988-17012-5-1 978-988-18210-1-0
6	Sutaria B. M. Bhatt D.V. Chaudhry A. S.	Simulation of PRA friction force for Single cylinder four-stroke S.I. engine under motorized condition	Advances in Mechanical Engineering (ICAME-2009), S.V.N.I.T, Surat, Gujarat.	3 – 5, August 2009, PP: 502-507
7	Sutaria B. M. Bhatt D.V. Shah A. S. Aware G.	Multi cylinder I.C. engine performance studies under different lubricants – A case study	7 th International Conference on Industrial Tribology, (ICIT-2010), Ispat Bhavan, Ranchi, Bihar.	2 – 4, Dec., 2010
8	Sutaria B. M. Bhatt D.V. Shah A. S. Aware G.	Variation in lubrication regimes for changes in ring geometry in a multy cylinder I. C. engine test rig.	7 th International Conference on Industrial Tribology, (ICIT-2010), Ispat Bhavan, Ranchi, Bihar.	2 – 4, Dec., 2010
9	Sutaria B. M. Bhatt D.V. Patel M. T.	Ranking of Automotive Oil	7 th International Conference on Industrial Tribology, (ICIT-2010), Ispat Bhavan, Ranchi, Bihar.	2 – 4, Dec., 2010
10	Sutaria B. M. Bhatt M. K. Gaderia S. N.	Intelligent control system for industrial automation of existing plant – A cost saving approach.	International Conference on Manufacturing Engineering and Technology, PHUKET, THAILAND	21- 23 , Dec., 2011 Pp:993-995 ISSN 2010-3778
11	Sutaria B. M. Bhatt M. K. Gaderia S. N. Channiwala S. A.	Experimental Study on Solar Flat Plate Collector for Losses under Different Input Heat Flux by Changing Wind Velocity at 45 Degree Yaw Angle and at Zero Tilt Angle	International Conference on Applied Science & Engineering Technology, ICASET-2012, ROME, ITALY	26-27, Sept., 2012
12	Sutaria B. M. Patel N.G. Parghi. N. Y.	Investigation of critical stress intensity factor for IS 2062 material using arc shape tension specimen	International conference on engineering trends in mechanical engineering, GH Patel College of Engineering, Anand, Gujarat	4-5 Jan, 2013
13	Sutaria B. M.	Experimental evaluation of heat	International	4-5 Jan, 2013

- Patel J.M.
Patel K. transfer characteristics for double pipe heat exchanger conference on engineering trends in mechanical engineering, GH Patel College of Engineering, Anand, Gujarat
- 14** **Sutaria B. M.**
Bhatt M. K.
Gaderia S. N.
Channiwala S. A. Determination of Losses & Loss Coefficients of Solar Flat Plate Collector When Wind Velocity & Tilt Angle At Zero Value – An Experimental Study International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2013), **HONG KONG** 26 – 27 July, 2013
- 15** **Sutaria B. M.**
Bhatt M. K.
Sonigara B. K.
Bhatt D. V. ASTM Performance Tests to Study the Effect of Blend Oil with Based Oil Analysis for Automobile Engines 4th International conference on Mechanical, Production & Automobile Engineering (ICMPAE'2013), **DUBAI (UAE)** 6-7 October, 2013, ISBN 978-93-82245-1
- 16** **Sutaria B. M.**
Bhatt M. K.
Sonigara B. K.
Bhatt D. V. Study on the Effect of Blend oil with Based oil Analysis International conference on Advances in Tribology & Engineering systems, L. D. College of Engg, Ahmadabad, Gujarat 15-17 October,2013 ISBN 978-81-322-1655-1 ISBN 978-81-322-1656-8 (eBook) DOI 10.1007/978-81-322-1656-8 Springer, New York, London
- 17** **Sutaria B. M.**
Bhatt D. V. Optimization of Reciprocating Friction –Wear Test Rig Operating Parameters for Segmented Piston Ring – Liner Assembly International conference on Advances in Tribology & Engineering systems, L. D. College of Engg, Ahmadabad, Gujarat 15-17 October,2013 ISBN 978-81-322-1655-1 ISBN 978-81-322-1656-8 (eBook) DOI 10.1007/978-81-322-1656-8 Springer, New York, London.
- 18** Chakradhar B. High Speed Machining of Ti- 1st International and 18-20 Dec.,

	Sutaria B. M. Bhatt D. V.	alloys- A critical Review	16 th conference Machines Mechanisms (INACOMM), IIT Roorkee	National on and	2013
19	Sutaria B. M. Bhatt M. K. Gaderia S. N. Channiwala S. A.	To Study Different Losses and Loss co-efficient on Solar Flat Plate Collector at 90 ⁰ Yaw angle	2 nd Conference Mechanical, Automotive Materials Engineering (CMAME-2014) SINGAPORE	International on	26-28 May, 2014
20	Chakradhar B. Sutaria B. M. Bhatt D. V.	Analysis top bur formation in high speed micro end milling of commercially pure titanium (Grade -2)	International conference Advances in materials and product design, AMPD, SVNIT, Surat	on	10-11, January, 2015 ISBN 978-93- 5196-956-3
21	Sutaria B. M. Bhatt M. K. Anil Kumar Soni S. S. Bhatt. D. V.	Analysis Of Tribological Parameters On Carbon Steel Used In Sugar Mill Rolls – A Case Study	1 st Conference Tribology Yiledz University, ISTANBUL, TURKEY	International on	7-9, October, 2015 Istanbul, Turkey
22	Chakradhar Bandapalli, Sutaria B. M. Bhatt D. V.	Estimation of Burr Formation on Ti-6Al-4V in High Speed Micro End Milling by Experimental Investigation and ANFIS Methodology	International Conference Precision, Meso, Micro and Nano Engineering, COPEN 9,IIT Mumbai	on	10-12 December, 2015
23	Chakradhar Bandapalli, Sutaria B. M. Bhatt D. V.	Experimental Investigation And Estimation of Surface Roughness Using ANN, GMDH, MRA Models in High Speed Micro of Titanium Alloy (Grade 5)	International conference Bhopal-GRET Hyderabad, Elsevier	MNIT,	12-13, March, 2016
24	Chakradhar Bandapalli, Sutaria B. M. Bhatt D. V.	Performance of Coated and Uncoated Tungsten Carbide End Mills in High Speed Micro Milling	International Conference on Recent Trends in Engineering and Material Sciences Jaipur University,	National	17-19, March, 2016

25	Dave Hiren. R Sutaria B. M	Pilot Injection And Its Effects on Diesel Engine Performance Parameters and Emissions: A Review.	Jaipur, India International Conference on Recent Trends in Engineering and Material Sciences Jaipur National University, Jaipur, India	17-19, March, 2016
26	Chaudhary Tejaskumar Sutaria B. M	Investigation of friction characteristics in segmented piston ring liner assembly of I.C. Engine	International Conference on Recent Trends in Engineering and Material Sciences Jaipur National University, Jaipur, India	17-19, March, 2016
27	Sutaria B. M Chaudhary Tejaskumar	Tribological Investigation of Piston Ring Liner Assembly	18 th International Conference on Automotive and Mechanical Engineering (ICAME) at NEW YORK, USA	10-11, October, 2016 EISSN:2010-3778, PP. 1068-1072
28	Chakradhar Bandapalli, Sutaria B. M. Bhatt D. V.	Surface Roughness Characterization in High Speed Micro Milling of Near Alpha Titanium Alloy (grade 12) using Coated TiAlN & AlTiN Tools.	6 th International & 27 th All India Manufacturing Technology, Design & Research (AIMTDR- 2016) Conference, Pune	16-18, Dec. 2016

International Journals:

Sr. No.	Authors	Title of paper	Journal/ Volume/ Page no	year
1	Sutaria B. M. Bhatt D.V. Mistry K.N.	Simulation of Piston Ring Friction Models of Single Cylinder Internal Combustion Engine	World Applied Science Journal, Volume 7 (8) / PP: 998-1003	2009
2	Sutaria B. M. Bhatt D. V. Mistry K. N.	Analysis of Friction Characteristic At Piston Ring Assembly Using Various Parameters On Single Cylinder S.I. Engine	Applied Engineering Research (IAER) Volume 6, No. 5 / PP: 645–660	2011
3	Sutaria B. M. Bhatt D. V.	Optimization of Reciprocating Friction and Wear Test Rig Operating Parameters for Segmented Piston Ring: Liner Assembly	Springer 2014, XXVIII, PP: 205-214, ISBN 978-81-322-1655-1	2014
4	Bandapalli. C Singh K. K. Sutaria B. M. Bhatt D. V.	Experimental investigation of Machinability parameters in high-speed micro-end milling of titanium (grade-2)	International Journal of Advances in Manufacturing Technology, DOI 10.1007/s00170-015-7443-1, Received: 12 October 2014 / Accepted: 15 June 2015, Springer-Verlag London	2015
5.	Tejashkumar Chaudhary Bharatkumar Sutaria	Investigation of Friction Characteristics in Segmented Piston Ring Liner Assembly of IC Engine	International Journal of Perspectives in Science, http://dx.doi.org/10.1016/j.pisc.2016.06.032	2016

M. Tech Guided:

Sr. No	Name of Student	Title of Thesis	Passing Year
1	Mr. Milap M. Madhikar	Flow Simulation & Visualization in HP Feed Water Heater at KAPS,	2006
2	Mr. Manubhai B. Rohit	Theoretical Simulation & Experimental analysis of Piston ring Assembly Friction & film thickness of single Cylinder Various Capacity I.C. Engine Systems Under Different Variables.	2007
3	Mr. Atul S. Chaudhary	Theoretical Modeling & simulation of PRA Friction Models of Single Cylinder S.I. Engine- A Case study	2009
4	Mr. Kirit S. Kharadi	Modeling & simulation of Tribological Parameters for a Single Cylinder C. I. Engine- A case study	2009
5	Mr. Jitu M. Patel	Friction force analysis of Piston rings & Cylinder Liner on Reciprocating Test rig	2010
6	Mr. Paresh M. Mehta	Experimental Analysis of Tribological Properties of Piston ring cylinder Liner Material Pairs on Pin on Disc Test rig	2010
7	Mr. Sachin B. Shinde	To Study The Effect Of Different Parameters on PRA Friction of Four Stroke Single cylinder 100 CC S. I. Engines	2010
8	Mr. Menesh T. Patel	Experimental Study to Rank Automotive Lubricants on Four Ball Tester by Using Different ASTM Standards.	2010
9	Mr. Ganesh B. Awre	Theoretical Modeling and Simulation of PRA Friction Models Applicable to Multi Cylinder I. C Engine and Experimental Verification -A Case Study.	2010
10	Mr. Nitin Y. Parghi	Experimental & Numerical Analysis of Critical Stress Intensity Factor of Pressure Vessel Material Using arc Shape Tension Specimen	2011
11	Mr. Prasoon Chaudhry	Effect of Apparent Area on Sliding Friction characteristics of Composite Material	2011
12	Mr. Keyur B. Patel	Performance Evaluation & CFD Analysis of Operating Parameters on Double Pipe Heat Exchanger	2012
13	Mr. Bhaskar K. Sonigra	Experimental Studies of Blending Oil using ASTM standards on Four Ball Test Rig.	2013
14	Mr. Ankit Patel	Tribology Aspect Study of Engine Lubricants	2013
15	Ravi Patel	Study of Tribological Parameters of Journal Bearing Performance	2013
16	Mr. Anilkumar Jagar	Experimental Investigation of Friction & Wear of Carbon Steel Used In Sugar Mill Rolls	2014

17	Mr. Akshay Rajednra Gavai	Study Of Friction & Wear Characteristics of Brake Pad Materials	2015
18	Mr. Simon Vikram Bhadakwad	Finite Element Analysis of Stresses and Hollowness of tapered Roller Bearing	2016
19	Mr. Tejaskumar Chaudhari	Investigation of Friction Characteristics of segmented Piston Ring Liner Assembly of An I. C. Engine	2016

Expert Lecture Delivered:

Sr. No	Title of Talk	Name of Program	Date/ Duration	Place
1	Fundamental of Engine Tribology	STTP on Advances in Industrial Tribology and Maintenance	21/07/2008 1.5 hour	SVNIT, Surat
2	Methods of Reducing Piston Ring Friction Losses in Modern Internal Combustion Engine	STTP on Advances in Industrial Tribology and Maintenance	25/07/2008 2.0 Hour	SVNIT, Surat
3	Advances in Engine Tribology	AICTE Approve One Week Winter School on Metallurgical Aspects of Tribology	30/09/2009 01 Hour	SVNIT, Surat
4	Fundamental & Advances in Tribology	One Week STTP on Advances in Tribology	25/10/2010 2.5 hour	SSBT CET, Bambhori, Jalgaon,
5	An Innovative Approach For Friction Force Measurement of A Piston Ring Assembly	Two days workshop on Industrial Tribology and Applications	14/11/2014 2 Hour	CAD LAB Seminar Room, MED SVNIT
6	Fundamental of Tribology & Its Industrial Applications	One Week STTP on Fundamental of Tribology & Its Industrial Applications	06/07/2015 1.5 Hour	Institute Guest House Seminar Room, SVNIT
7	Measurement & Prediction of Friction Force in I C Engine	One Week STTP on Fundamentals Tribology & Applications	06/12/2015 1.5 Hours	G. H. Patel College of Technology, Ananad, Gujarat
8	Non destructive Methods for Engineered Materials	One Week STTP on Recent Advances in Testing Methodology & Techniques for Engineered Materials	23/06/2016 1.5 Hour	Applied Mechanics Dept., SVNIT, Surat

9	An Importance Role of Tribology in Mechanical Engineering	One Week STTP on Technological advancement in Mechanical engineering	06/02/2017 2.0 Hrs	S. S. Engg. College, Bhavnagar
10	Introduction to Locomotive Systems	Two Week Training cum workshop for Supervisors and Technician of Indian Railways employee	07/02/2017 & 14/2/2017 4.0 hrs	Electronic & Electrical Eng. Dept., at EED Seminar room, SVNIT, Surat

Conducted STTP/ Workshop / Conference/ Seminar for Academic and Industry People

Sr. No	Title of Programme	Duration
1.	AICTE sponsored one week STTP on Advances in Industrial Tribology & Maintenance.	21/07/2008 to 25/07/ 2008
2.	AICTE approved one week STTP on Metallurgical Aspect of Tribology.	30/11/2009 to 04/12/2009
3.	TEQIP-II Sponsored Two Days Workshop on Industrial Tribology & Applications.	14/11/2014 to 15/11/2014
4.	TEQIP- II Sponsored National Level STTP on Fundamentals of Tribology and Its Industrial applications.	06/07/2015 to 10/07/2015
5.	1st National Conference on Thermal-fluid Science and Tribological Applications (NCTFSTA-2016)	27/05/2016 to 28/05/2016

STTP/Industrial Training / Summer – Winter School Attended:

Sr. No.	Title of Course	Organized by	Duration of Course
1.	Q.I.P. Industrial Training for Engg. College Teacher	I.P.C.L., Vadodara	01/07/1992 to 28/08/1992
2.	17 th AIDMR Conference	REC, Warangal	07/01/1997 to 09/01/1997
3.	Ensuring Faculty Accountability	SVRCET, Surat	28/01/1997 to 29/01/1997
4.	Institute Planning and Management	SVRCET, Surat	17/02/1997 to 21/02/1997
5.	Computer Aided Manufacturing	MACT, Bhopal	16/06/1997 to 29/06/1997

6.	TQM in Technical Education	SVRCET, Surat	30/06/1997 to 4/07/1997
7.	Industry Institute Interaction	BVM Eng. College, V.V.Nagar, Anand	11/05/1998 to 16/05/1998
8.	Advance in Solar Energy Technology	SVRCET, Surat	03/07/2000 to 14/07/2000
9.	Advances in Tribology	IIT, Powai, Mumbai	18/06/2002 to 22/06/02
10.	Instruction Workshop on Soft Computing with MAT lab	M. S. University, Vadodara	07/01/02 to 12/01/2002
11.	Advance in Refrigeration and Air Conditioning	Nirma institute of Technology, Ahmedabad	30/06/03 to 11/07/03
12.	AICTE/ISTE Summer School on Helping Students Better Learning Skill & Habit for Human Value in Educations	SVNIT, Surat	21/06/2004 to 25/06/2004
13.	Failure Analysis of Engineering Material and Residual life Assessment	VNIT, Nagpur	31/01/2005 to 11/02/2005
14.	Specialization Workshop on Measurement Techniques of Turbo Machines	SVNIT, Surat	23/06/2005 to 25/07/2005
15.	STTP on Energy Conservation in Various Industrial Sectors	SCET, Surat	26/12/2005 to 30/12/2005
16.	Boilers Efficient Operation & Maintenance	The institute of Energy management national centre for technical Development, Hyderabad	06/01/2006 to 08/01/2006
17.	Three Day Workshop on Different Aspect of Electron Microscopy	SVNIT, Surat	29/3/2006 to 31/3/2006
18.	Future manager in Technical Education	EQUATE and S.V.N.I.T, Surat	04/02/2008 to 08/02/2008
19.	QIP STTP on “Advances in Maintenance and Tribology”	ITMMEC, IIT, Delhi	07/07/2008 to 11/07/2008
20.	Advanced Engineering Optimization Through Intelligent Techniques	Mech. Engg. Dept., SVNIT, SURAT	22/12/2008 to 26/12/2008
21.	ISTE on Techno Entrepreneurship Awareness	ED Cell, SVNIT, Surat	27/07/2009 to 31/07/2009
22.	AICTE approved one week STTP on Techno Entrepreneurship and Its Importance in Technical Education systems.	ED Cell, SVNIT, Surat	21/12/2009 to 25/12/2009
23.	One week STTP on Advance quality	MED, SVNIT, Surat	04/01/2010 to

	Management Philosophies and Techniques.		08/01/2010
24.	One week Training Programme on Bearing Management Technology.	Anchor Cell, SVNIT, Surat	18/08/2010 to 21/08/2010
25.	One week Training Programme on Lab VIEW Graphical Programming and Data Acquisition Basic Training.	Anchor Cell, SVNIT, Surat	17/01/2012 to 21/01/2012
26.	One week Training course on Condensed Translation.	Department of official Language, Ministry of Home Affairs, New Delhi	26/11/2012 to 30/11./2012
27.	One week workshop under TEQIP-II on Nanotechnology Application for Sustainable Development.	CHED, SVNIT, Surat	19/04/2013 to 21/04/2013
28.	Two days workshop on NBA Accreditation Awareness	NITK, Surathkal	23/08/2013 to 24/08/2013
29.	Global Meet on Research Perspectives on Nano Science Applied to Passenger Car Engine Tribology in Order to Improve Fuel Efficiency and to reduce the carbon Emission.	GTU, Ahmedabad	18/10/2013
30.	TEQIP-II Sponsored Workshop on Outcome Based Education	MED, SVNIT, Surat	24/02/2016
31.	TEQIP-II Sponsored Faculty Development Programme on Outcome based Teaching-Learning	SVNIT, Surat	03/06/2016 to 05/06/2016

Development of Experimental Equipment set up in the Mechanical Engineering laboratory

1. Designed and developed a dynamometer for force analysis of simple shaping operation
2. Designed and developed the two – ton capacity of hydraulic truck for material handling at institute central workshop.
3. Developed attachment of various size PRA for advance Tribology equipments to measure of tribological characteristic.
4. Designed and developed heat transfer rate by parallel and counter flow in double pipe heat exchanger experiment setup.

Department Administration work:

1. Member of departmental time table committee during 2003-2005
2. Departmental exam coordinator during 2013-2015
3. PG. Incharge in M. Tech (Mechanical) by research, 2013- 2015
4. PG. Incharge in M. Tech Mechanical during 2015 – to continue
5. Member of departmental Ph.D admission committee since, 2011
6. Member of M. Tech. Syllabus Revision/Restructuring Committee (M. Tech Mechanical)

Institute Level Administration work:

1. Institute Exam Coordinator
2. Former Cochairman, Annual Culture programme Sparsh
3. Former Cochairman, Sport for student activities
4. Institute Accreditation (Washington Accord)
5. Former Institute Gymkhana In-charge
6. Former Hostel warden
7. Member of Procurement committee (TEQIP – I, World bank funded project)

Worked as Lab Incharges:

Sr. No	Name of laboratory	Duration of period	Activities
1.	I. C. Engine Lab	9/2/93 to 31/3/95	Modification and update the Experiments
2.	B.M.S. Lab.	1995 to 2000	Update the experiments setup and prepared new laboratory Manual
3.	Tribology & Maintenance Lab	2000 to 2003	Maintain the experiments set up
4.	HMT lab	2002 to 2010	Updated and procure new experiments setup for UG/PG students.
5.	Tribology & Maintenance Lab	2005 to till date	Upgrade and procure advance tribo test rigs for PG and Research work.

Professional Membership:

- American Society of Mechanical Engineers
- Institution of Engineers (LM No.143143-3)
- India Indian Society for Technical Education (LM No. 13768)
- Tribology Society of India (LM No. 1391)

Consultancy & Testing :

Sr No	Name of Principal faculty	Title of problem	Name of Industries/firm	Amount (Rs.)	Month & Year
1.	B. M. Sutaria	Testing & Calibration of temperature Meter	Surat Municipal, Corporation, Vigilance Department, Surat	1500=00	March-2001
2.	B. M. Sutaria	-- do --	M/s Kantilal Bhalal, Surat	1000=00	March-2001
3.	B. M. Sutaria	-- do --	M/s Anish Construction co, Himmatnager	1500=00	March-2001
4.	B. M. Sutaria	-- do --	M/s Royl Builders, Surat	1000=00	April-2001
5.	B. M. Sutaria	-- do --	M/s Kantila Bhalala	1500=00	April-2001
6.	B. M. Sutaria	-- do --	M/s Paulomi Road Buildrers, Pvt,Ltd, Athwalines, Surat	2000=00	April-2001
7.	B. M. Sutaria	-- do --	M/s Royal Builder, Center point, Surat	2000=00	May-2001
8.	B, M. Sutaria	-- do --	M/s Paulomi Road Builders, Pvt,Ltd, Athwalines, Surat	1000=00	Sept-2001
9.	B. M. Sutaria	-- do --	M/s Jitendra G Patel, Sardarnager, Main Road, Rajkot	4000=00	Jan-2002
10.	B. M. Sutaria	-- do --	M/s Anish Construction, Co Himmatnager	4000=00	Jan-2002
11.	B. M. Sutaria	-- do --	M/s Paulomi Road Buildrers, Pvt, Ltd, Athwalines, Surat	3000=00	Jan-2002
12.	B. M. Sutaria	-- do --	M/s Paulomi Road Buildrers,Pvt,Ltd, Athwalines, Surat	1000=00	April-2002
13.	B. M. Sutaria	-- do --	M/s Paulomi Road Buildrers, Pvt, Ltd, Athwalines, Surat	1000=00	Dec-2002
14.	B. M. Sutaria	-- do --	M/s D. S. Patel & Co Balolnager, Mehsana	2000=00	Jan-2003
15.	B. M. Sutaria	-- do --	M/s Paulomi Road, Buildrers, Pvt, Ltd, Athwalines, Surat	2000=00	Feb-2003
16.	B. M. Sutaria	-- do --	M/s Mahendra & Co, Navsari	2000=00	Dec-2003
17.	B. M. Sutaria	-- do --	M/s A. K. Patel Co, Surat	1000=00	Jan-2004
18.	B. M. Sutaria	-- do --	Royal Builder, Center point, Surat	2000=00	Jan-2004
19.	B. M. Sutaria	-- do --	M/s A. K. Patel, Co, Surat	1000=00	Feb-2004
20.	B. M. Sutaria	-- do --	M/s Mahendra Patel, SMS,	2400=00	Nov-2005

			Surat		
21.	B. M. Sutaria	-- do --	M/s Bhavin Construction New Civil Road Surat	1200=00	Nov-2005
22.	B. M. Sutaria	-- do --	Ex. Engineer, South zone, SMS, Surat	2400=00	Nov-2005
23.	B. M. Sutaria	-- do --	M/s Ex. Engineer, Muglisara, SMS, Surat	2400=00	Nov-2005
24	B. M. Sutaria	-- do --	M/s Ex. Engineer, North zone, SMS, Surat	2400=00	Nov-2005
25	B. M. Sutaria	-- do --	M/s Paulomi road & builder pvt, ltd, Surat	4000=00	Dec-2006
25	B.M. Sutaria	-- do --	M/s Shri Classic net work pvt, ltd, Surat	4000=00	Dec-2006
26	B. M. Sutaria	-- do --	M/s Bhavani Construction Co, Surat	2000=00	Dec-2006
27	B. M. Sutaria, R. D. Shah, S. A. Channiwal	Gas Meter for Domestic and Industrial Application.	M/s Surya enterprise, Surat	5000=00	Nov-2006
28	B. M. Sutaria	Temperature Meter	M/s Mahindra A. Patel, Surat	2000=00	Jan-2007
29	B. M. Sutaria	--- do ---	M/s Paulomi road & builder pvt, ltd, Surat	4000=00	Oct-2007
30	B. M. Sutaria	--- do ---	Ex. Engineer SMC, North Zone, Surat	2000=00	Oct-2007
31	B. M. Sutaria	--- do ---	Executive Engineer, South Zone, SMC, Surat	4000=00	Nov-2009
32	B. M. Sutaria	--- do ---	Executive Engineer, West Zone, SMC, Surat	4000=00	Oct-2010
33	B. M. Sutaria	--- do ---	M/S Paulomi road & builder pvt, ltd, Surat	4000=00	Dec.-2010
34	B. M. Sutaria	--- do ---	M/s Paulomi road & builder pvt, ltd, Surat	4000=00	Nov.-2011
35	B. M. Sutaria D. V. Bhatt	Oil Test	M/s L & T, Hazira, Surat	12500=00	Agust-2012
36	B. M. Sutaria	Metal composition of given samples	M/s. Gurukrupa Fabrication works, Udhana, Surat	2250=00	June - July, 2013
37	B. M. Sutaria A. K. Desai C.D. Modhera	Proof checking services for launching scheme for steel girder for railway over bridge on Bagodra- Vasad -Tarapur Road	M/s Rajkmal Builder infrastructure Pvt Ltd, 54, Park hill Society, Nr. Heaven park society, Ramdevnagar, Ahmadabad- 280 015,	1,01250=00	September- October, 2013

38	A.K. Desai B. M. Sutaria J. V. Meghani	Condition Assessment of Mild steel storage Tanks (14 No)	M/s Recycling Solution Private Limited, Plot No.223, GIDC Estate, Panoli, Dist: Bharuch, Gujarat	1,77,650/-	March-April, 2016
39	B. M. Sutaria A. B. Makwana	Weight Machine -02	M/s Sjreeji Construction Co. Ltd, Bhatar, Surat Weight machine for the calibration – 50 Kg.	3500=00	06/01/2017
40	B. M. Sutaria A. B. Makwana	Temperature meter -07	M/s J. M. shah & M/s Sjreeji Construction Co. Ltd, Bhatar, Surat	25000=00	11/01/2017 & 13/01/2017