

BIO DATA



- 1 **Name** : **Dr. M. NATARAJ**
- 2 **Designation & College** : **PRINCIPAL i/c & PROFESSOR & HEAD**
Department of Mechanical Engineering
Government College of Engineering,
Bargur - 635104
Phone: 0462-2552448
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nataraj@gcetly.ac.in
m.nataraj@gcebargur.ac.in
- 3 **Residential Address** : No.5, Brindavan
9th Cross Extension,
New Thillainagar
Coimbatore – 641 041
- 4 **Date of Birth & Age** : 05.06.1962; 59 Years

5 Educational Qualifications

Sl. No.	Academic Qualification	Specialization	Institution / University	Year of Passing	Class Obtained
1	B.E.	Mechanical Engineering	Alagappa Chettiar College of Engg & Tech., Karaikudi	1984	I
2	M.E.	Engineering Design	Government College of Technology, Coimbatore	1991	I
3	Ph.D.	Mechanical Engineering	Bharathiar University	2006	-

- 6 **Teaching Experience:** UG - 35 Years
PG - 30 Years
- 7 **Research Experience:** 21 Years

FIELD OF INTEREST

- Product and Process Design Optimization using Design of Experiments Approach
- Tribology
- Vibration Engineering
- Energy Engineering

- 8 **Papers Published:** Journals - 65
Conferences - 50
- 9 **Scholars pursuing Research and completed PhDs** } PhD produced: Anna University, Chennai - 9
Research Scholars pursuing research work - 3

10 **Membership in Professional Bodies:**

ISME Life Member 1012 (ISME - Indian Society of Mechanical Engineers)
ISTE Life Member 5083 (ISTE – Indian Society for Technical Education)
CMSI Life Member 1100196 (CMSI – Condition Monitoring Society of India)

11 **ACHIEVEMENT & AWARD:**

CERTIFICATE OF MERIT in recognition of research paper presented in **XIII National Conference of INDIAN SOCIETY OF MECHANICAL ENGINEERING (ISME-2033)** awarded by Indian Institute of Technology Roorke during December 2003

PATENT AWARDED

Title of the invention ‘DRINKABLE SEA WATER: DESIGN INTELLIGENT SOLAR ADSORPTION DESALINATION & COOLING SYSTEM ON SEA WATER’

12 **R&D PROJECT UNDER TEQIP Phase II:** (Amount Rs. 5.0 Lakhs)

Design Modification in Turbine blade for improving performance of Wind Mill

13 **CONSULTANCY**

- **Consultant for M/s.V- Guard Pump Industry, Cochin**
- **Consultant for M/s. Roots Industry, Coimbatore**
- **Consultant for M/s. Suzlon Infrastructure Services Limited, Coimbatore, India**
- **Consultant for TNEB to diagnosis the rotor bearing system failure in power station**

14 **ACADEMIC AND ADMINISTRATIVE ACTIVITIES HELD**

- 1) **Principal i/c, Government College of Engineering, Tirunelveli from 14th June 2019**
- 2) **Vice Principal, Government College of Technology, Coimbatore from June 2017 – 13th June 2019**
- 3) **Public Information Officer, Govt. College of Technology, Coimbatore.**
- 4) **Associate Warden for Hostels in , Govt. College of Technology, Coimbatore.**

- 5) Expert Member for AICTE, New Delhi to scrutinize Research Promotion Schemes (RPS), Modernization and Removal of Obsolescence (MODROB), Faculty Development Programme (FDP) and Winter / Summer Schools.
- 6) Co-coordinating with Industries for organizing programs on behalf of Industry Institute Partnership Cell in Government College of Technology, Coimbatore
- 7) Reviewer for Journal Vibration Control, Proc. IMechE Part A: Journal of Power and Energy, International Journal of Computer Application in Technology, Journal of Petroleum and Gas Engineering, International Journal of Quality and Reliability Engineering, Engineering Applications of Computational Fluid Mechanics. Measurement (Journal of the International Measurement Confederation), Journal of Vibration and Control, Desalination and Water Treatment, International Journal of Acoustics and Vibration, Engineering Applications of Computational Fluid Mechanics, International Journal of Advanced Manufacturing Technology.
- 8) Presented technical lecture on “Improving Pump Performance using Design of Experiments Approach” from my research work in a one day workshop organized by SDM Engineering College (Dharvar) in Karnataka state
- 9) Delivered technical lecture on Taguchi’s robust design concept in AICTE-STTP organized by Mechanical Engineering Department at Kumaraguru College of Technology, Coimbatore
- 10) Responsible in developing the Machine Design Laboratory in Engineering. Design Department at Government College of Technology, Coimbatore
- 11) Valuation Expert for Tamil Nadu Industrial Investment Corporation
- 12) Doctoral Committee Members for PhD Scholars in Anna University Chennai
- 13) Academic Council Member in Government College of Technology, Coimbatore
- 14) Expert member in Board of Studies, PSR Engineering College, Sivakasi, Tamilnadu.
- 15) Expert member in Board of Studies, Dr. Mahalingam College of Engineering & Technology, Pollachi, Tamilnadu
- 16) Anna University Nominee as Member in Board of Studies (subject expert) in PSG College of Technology, Coimbatore, Tamilnadu
- 17) Anna University Nominee as Member in Board of Studies (subject expert) in Coimbatore Institute of Technology, Coimbatore, Tamilnadu
- 18) Anna University Nominee as Member in Board of Studies (subject expert) in Adhiyamaan College Engineering, Hosur, Tamilnadu
- 19) Presented Lecture on Innovation and Invention in Research at Agni School of Business Excellence, Dindigul
- 20) Presented Lecture in Faculty Development Programme on ‘Bending in Beams’ at Park College of Engineering, Coimbatore, Tamilnadu

- 21) Presented Lecture in Faculty Development Programme on 'Design of Machine Elements' at Sri Ramakrishna Institute of Technology, Pachapalayam, Coimbatore, Tamilnadu

15 SEMINARS / CONFERENCES / WORKSHOPS ORGANIZED

- **National Seminar on Strategies for World Class Manufacturing** for the benefit of industries in Coimbatore in Government College of Technology, Coimbatore during **April 2006**.
- **Short-Training Programme Plastic Wire Knitting for Furniture** for socially disadvantaged group & youth under service to community & economy in A. C. College of Engineering & Technology, Karaikudi during **November 2006**.
- **Programme on Promoting Entrepreneurial Motivation among Engineering Students** for final year UG students and PG students to make them employable after graduation in Government College of Technology, Coimbatore during **February 2007**.
- **Training on Intellectual Property & Innovation Management in Knowledge Era** for the benefit of teaching faculty and students in colleges and engineers / technocrats from Industries in Government College of Technology, Coimbatore in association with NRDC, New Delhi during **October 2007**.
- **Workshop on Designing, Manufacturing and Inspection of Gears** for the technocrats working Coimbatore based Industries at Government College of Technology, Coimbatore during **May 2007**.
- **Faculty Development Programme on Vibration and Tribology Related Issues in Industrial Scenario** at Government College of Technology, Coimbatore during **October 2012**.
- **Short Term Course on Energy Resource Management in Current Scenario** at Government College of Technology, Coimbatore during April 2016

16 PhD PRODUCED

- 1 **Candidate: ANTONISWAMY, R. (Reg. No. 2002249715), 'INVESTIGATIONS ON BIO-DIESEL AS A BLEND WITH DIESEL FOR CI ENGINE' ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in March 2010
- 2 **Candidate: SHANMUGARAJA, M. (Reg. No. 2007269132), 'QUALITY IMPROVEMENT THROUGH THE INTEGRATION OF SIX SIGMA, QFD AND TRIZ IN MANUFACTURING AND SERVICE ORGANISATIONS' ANNA UNIVERSITY: CHENNAI**
Category: Full Time, PhD Degree Awarded in January 2013

- 3 **Candidate: SANKAR, S. (Reg. No. 7081033137), ‘FAULT DIAGNOSIS AND FAILURE ANALYSIS OF WIND TURBINE COMPONENTS’ ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in November 2013
- 4 **Candidate: BASKARAN, G. (Reg. No. 10900331008), ‘MODEL BASED VIBRATION ANALYSIS OF MISALIGNMENT FAULT DETECTION IN ROTOR BEARING SYSTEM WITH EXPERIMENTAL VALIDATION’, ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in February 2017
- 5 **Candidate: RAGOTH SINGH, R. (Reg. No. 4080033150) ‘RELIABILITY BASED DESIGN OPTIMIZATION OF CENTRIFUGAL PUMP IMPELLER FOR PERFORMANCE ENHANCEMENT, ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in June 2017
- 6 **Candidate: RAMAMOORTHY, M. (Reg. No. 100950321030) ‘EXPERIMENTAL INVESTIGATION ON CRYOGENIC COOLING BY LIQUID NITROGEN IN THE HARD MACHINING OF INCONEL 718, ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in January 2019
- 7 **Candidate: BALASUBRAMAIAN, K. (Reg. No. 1414269250) ‘INVESTIGATION ON MACHINING CHARACTERISTICS OF LM6 HYBRID METAL MATRIX COMPOSITES, ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in November 2019
- 8 **Candidate: NEELAMEGAN, S. (Reg. No. 11160331037) ‘EXPERIMENTAL STUDY ON SI FREE PISTON ENGINE EMISSION CHARACTERISTICS AND ITS PERFORMANCE EVALUATION USING MULTI FUELS, ANNA UNIVERSITY: CHENNAI**
Category: Part Time, PhD Degree Awarded in November 2020

9 ON GOING RESEARCH PROGRAMME: 3

SL. No	Research Scholar	Area of Research
1	G.BALAJI	Design Modification in Turbine blade for improving performance of Wind Mill
2	S.THILLIKANI	Fault Diagnosis in Vehicle Suspension System
3	P.RAMESH	Characterization of Composite Materials

TEXT BOOK CONTRIBUTION

Nataraj, M and Shanmugaraja, M. “Quality and Reliability Engineering: Recent Trends and Future Directions” edited by Bobby John, U.H. Acharya, Ashis K. Chakraborty: Allied Publishers Pvt Limited, NEW DELHI (ISSN 978-81-8424-831-9), Chapter 30, pp.355-365

18 JOURNAL PUBLICATIONS

- 1 **Nataraj, M.**, Arunachalam, V.P., (2004) "Modeling and Synthesizing of Drum Cam Mechanism for Printing Machine", *Journal of Manufacturing Technology Today*, Vol. 3 / Issue 8 / pp 18-22.
- 2 **Nataraj, M.**, Arunachalam, V.P., Dhandapani, N.," (2005) Optimizing Diesel Engine Parameters for Low Emissions using Taguchi Method: Variation Risk Analysis Approach - Part I", *Indian Journal of Engineering and Materials Sciences*, Vol. 12, pp 169-181. CiteScore 0.73
- 3 **Nataraj, M.**, Arunachalam, V.P., Dhandapani, N., (2005)" Optimizing Diesel Engine Parameters for Emission Reduction using Taguchi Method: Variation Risk Analysis Approach - Part II", *Indian Journal of Engineering and Materials Sciences*. Vol. 12, pp 505-514. ISSN:0971-4588 CiteScore 0.73
- 4 **Nataraj, M.**, Arunachalam, V.P., and Ranganathan, G. (Jan 2006), "Using risk analysis and Taguchi's method to find the optimal conditions of design parameters: a case study", , *Int. Jr. of Advanced Manufacturing Technology*, Vol. 27, Issue 5-6, pp 445 - 454. CiteScore 2.3
- 5 **Nataraj, M.**, Arunachalam, V.P. and Suresh, K.G., (2006) "Optimizing Planer Cam Mechanism in Printing Machine for Quality Improvement using Taguchi Method: Risk Analysis with Concurrent Engineering Approach", *Int. Jr. of Computer Applications in Technology*, Vol. 26, No. 3, pp. 164 – 173. ISSN:0952-8091 CiteScore 0.82
- 6 **Nataraj, M.**, Arunachalam, V.P., (2006) "Optimizing impeller geometry for performance of centrifugal pump using Taquchi quality concept", *Proc. Instn. Mech. Engrs, Part A; Jr. of Power and Energy*, 220 (A7), pp. 765 – 782. CiteScore 1.13 <https://www.scimagojr.com/journalsearch.php?q=20405&tip=sid&clean=0>
- 7 **Nataraj, M.**, Arunachalam, V.P., and Balaji, B., (2008) "A practical approach to optimize the coating parameters to win customer confidence ", *Proc. Instn. Mech. Engrs, Part B; Jr. of Engineering Manufacture*, 222 (B4), pp. 495 – 506. ISSN:0954-4054E-ISSN:2041-2975 CiteScore 0.99
- 8 **Nataraj, M.**, Thomas, R.B., (2009) "FEA based analysis of solenoid in automotive application with model development", *International Journal of Materials and Structural Integrity*, Vol. 3, No.4 pp. 269 - 293 ISSN:1745-0055E-ISSN:1745-0063 CiteScore 0.35
- 9 Sankar, S., Sundar Raj, M., and **Nataraj, M.** (September 2010), "Profile Modification for Increasing the Tooth Strength in Spur Gear Using CAD", *Engineering*, 2, pp. 740-749. **ISSN Print:** 1947-3931 Impact factor 0.78 <https://www.scirp.org/journal/eng/>
- 10 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2010) "Customer care management model for service industry", *IBusiness*, Vol. 2, pp. 145 – 155.
- 11 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2010) "Theory of inventive problem solving: concepts, tools and applications", *Int. J. of Engineering Studies*, Vol. 2, pp. 149 – 166.

- 12 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2010) “Empirical study for Six Sigma success: mapping organisational hierarchy with barriers”, *Int. J. of Applied Engineering Research*, Vol.10, pp. 1821 – 1826. ISSN:0973-4562E-ISSN:0973-9769 CiteScore 0.13
- 13 Sankar, S., and **Nataraj, M.**, (June 2010), “Prevention of helical gear tooth damage in wind turbine generator: a case study”, *Proc. IMechE Part A: Journal of Power and Energy*, Vol. 224, pp. 1117-1125. ISSN:0957-6509E-ISSN:2041-2967 CiteScore 1.13 <http://journals.sagepub.com/home/pia>
- 14 **Nataraj, M.**, (September 2010) “Predicting Surface Excellence Using Parametric Design Concept: A Practical Approach with Mathematical Model”, *Journal of Manufacturing Engineering*, Vol.5, No. 3, pp 170-176. <http://smenec.org/>
- 15 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2011) “Quality and productivity improvement using Six Sigma and Taguchi methods”, *Int. J. of Business Excellence*, Vol. 4, No. 5, pp. 544 – 572.
- 16 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2011) “Defect control analysis for improving quality and productivity: an innovative six sigma case study”, *Int. J. of Quality and Innovation*, Vol. 1, No. 3, pp. 259 – 282.
- 17 Sankar, S., and **Nataraj, M.**, (May 2011), “Profile modification - a design approach for increasing the tooth strength in spur gear”, *International Journal of Advanced Manufacturing Technology (IJAMT)*, Vol. 55, No.1-4, pp. 1-10. ISSN:0268-3768E-ISSN:1433-3015, CiteScore 2.30
- 18 Sankar, S., **Nataraj, M.**, and Prabhu Raja, V (October 2011), “Failure analysis of shear pins in wind turbine generator”, *Journal of Engineering Failure Analysis*, (Elsevier), Vol. 18, pp. 325 – 339. ISSN:1350-6307 CiteScore 2.06
- 19 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2012) “Literature snapshot on six sigma project selection for future research”, *Int. J. of Services and Operations Mgmt*, Vol. 11, No. 3, pp. 335 – 357. ISSN:1744-2370E-ISSN:1744-2389. CiteScore 1.24
- 20 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N., (2012) “Six Sigma project selection via quality function deployment”, *Int. J. of Productivity and Quality Mgmt*, Vol. 10, No. 1, pp. 85 – 111. ISSN:1746-6474E-ISSN:1746-6482 CiteScore 1.22
- 21 Sankar, S., **Nataraj, M.**, and Prabhu Raja, V (February 2012), “Failure analysis of bearing in wind turbine generator gearbox”, *Journal Of Information Systems and Communication*, Vol. 3, pp. 302 – 309.
<https://bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000271>
- 22 Ragoth Singh, R. and **Nataraj, M.** (August 2012) “Study on Performance of Plunger Pump at Various Crank Angle Using CFD”, *Engineering Science and Technology: An International Journal (ESTIJ)*, ISSN: 2250-3498, Vol. 2, No. 4, pp. 549 – 553.
- 23 Ragoth Singh, R. and **Nataraj, M.** (Aug-Sep 2012) “Analysis and Optimization of Pump Performance Variables using Genetic Algorithm and Taguchi Quality Concept: A Case Study”, *International Journal of Mechanical Engineering applications Research*, ISSN: 2249- 6564, Vol. 03, Issue 03, pp 185 – 189.

- 24 Ragoth Singh R. and **Nataraj, M.** (October 2012) “Optimizing impeller geometry for performance enhancement of a centrifugal Blower using the Taguchi quality concept”, *International Journal of Engineering Science and Technology*, ISSN: 0975-5462, Vol. 04, No. 10, pp 4308 – 4314.
- 25 Ragoth Singh, R. and **Nataraj, M.** (November 2012) “Parametric study and optimization of pump impeller by varying the design parameter using computational fluid dynamics”, *International Review of Mechanical Engineering*, Vol. 6, No. 7, pp. 1581 - 1585. CiteScore 0.51
- 26 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N. (July - Dec, 2012) “Total Performance Excellence – a model to implement Six Sigma in service organizations”, *Int. J. of Six Sigma and Competitive Advantage*, Vol. 7, No. 2/3/4, pp. 209 – 242. CiteScore 0.52
- 27 Sankar, S. and **Nataraj, M.** (September 2012) ‘Bearing Failure Analysis in Wind Turbine Generator Gearbox’, *National Journal of Technology*, Vol.8, No.3.
- 28 Ragoth Singh, R. and **Nataraj, M.** (September 2012) “Parametric Study and Optimization of Centrifugal Pump Impeller by varying the Design Parameter using Computational Fluid Dynamics: Part I”, *Journal of Mechanical and Production Engineering*, Vol. 2, No. 2, pp. 87-97.
<http://www.tjprc.org/journals/journal-of-mechanical-and-production-engineering158>
- 29 Ragoth Singh, R. and **Nataraj, M.** (January-June 2013) “Study on Performance Analysis of Ring Blower in Chip Cleaning Machine”, *International Journal of Advanced Mechatronics and Robotics*, Vol. 5, No. 1, pp. 23-29 (ISSN : 0975-6108)
- 30 Sunilkumar S Honnunar, **Nataraj, M.**, and Prabhu Raja, V. (February 2013) “Statistical-based Analysis of Thermally Induced Errors in Computer Numerical Control (CNC) Machining Center” *Frontiers in Aerospace Engineering (FAE)* Vol. 2 No. 1, pp. 53-59.
<https://www.destechpub.com/product/frontiers-aerospace-engineering-fae/>
- 31 Baskaran, G. and **Nataraj, M.** (April 2013) "An Experimental Study on Angular Misalignment Detection in Rotor Bearing System Using Welch Power Spectral Density", *International Journal of COMADEM*, Vol. 16, No. 2, pp. 35–41. CiteScore 0.11
- 32 Shanmugaraja, M., **Nataraj, M.** and Gunasekaran, N. (May-June, 2013), ‘Total performance excellence – a model for successful implementation of Six Sigma’, *Int. J. Procurement Management*, Vol. 6, No. 3, pp. 297–328.
- 33 **Nataraj, M.** and Ragoth Singh, R. (October 2014) “Analyzing pump impeller for performance evaluation using RSM and CFD”, *Desalination and Water Treatment*, doi: 10.1080/19443994.2013.818924, Vol. 52, pp. 6822–6831. CiteScore 1.35
- 34 Ragoth Singh, R. and **Nataraj, M.** (August 2013) “Investigation of a Centrifugal Pump Impeller Vane Profile Using CFD”, *International Review on Modelling and Simulations*, Vol. 6, No. 4 pp. 1327 - 1333.
- 35 Kannan, A., Esakkiraja K. and **Nataraj, M.** (Nov - Dec. 2013) “Modeling and Analysis for Cutting Temperature in Turning of Aluminium 6063 Using Response Surface Methodology”, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)*, Vol. 9, No. 4, pp. 59-64, e-ISSN: 2278-1684, p-ISSN: 2320-334X, www.iosrjournals.org. doi:10.9790/1684-0945964

- 36 Ragoth Singh, R. and **Nataraj, M.** (January 2014) “Design and analysis of pump impeller using SWFS”, *World Journal of Modelling and Simulation*, Vol. 10, No. 2, pp. 152-160. ISSN 1746-7233, England, UK <http://www.wjms.org.uk/>
- 37 **Nataraj, M.**, and Arunkarthik, T. (Apr '2014), "Optimizing the turning factors: Turning IN 718 with LN2 as a coolant", *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Vol. 4 (Special Issue) pp. 17-23.
- 38 **M. Nataraj** and S.Neelamegan (August 2014) " Structural and thermal analysis of wheel cup assembly in automobile for efficient braking system", *International Journal of Advanced Engineering Applications*, ISSN:2321-7723 (Online), Vol.7, Issue 4, pp.7-17.
- 39 Sankar, S. Kumaresan, M and **Nataraj, M.** (16 December, 2014), “Effects of pressure angle and tip relief on the life of speed increasing gearbox: a case study”, *SpringerPlus Engineering, Open Access Journal*, Vol. 3:746, doi: 10.1186/2193-1801-3-746. CiteScore 1.3 <https://springerplus.springeropen.com/articles/10.1186/2193-1801-3-746>
- 40 **Nataraj, M.**, Ramamoorthy, M., and Pradeepkumar, M, (February, 2015), “Study on Surface Integrity of High Speed Turning of Inconel 718 Using Taguchi DOE Approach”, *International Journal of Applied Engineering Research*, ISSN 0973-4562, Vol. 10, No. 2 pp. 4191-4200., <http://www.ripublication.com> CiteScore 0.13
- 41 Baskaran, G. and **Nataraj, M.** (Dec 2015) " Dynamics analysis of misaligned rotor bearing System: An experimental study", *International Journal of Applied Engineering Research*, ISSN 0973-4562, Vol. 10, No. 85, pp. 643-651., <http://www.ripublication.com>. <http://www.ripublication.com> CiteScore 0.13
- 42 Baskaran, G. and **Nataraj, M.** (Dec 2015) " Vibration based fault detection in hydro power plant: a case study", *International Journal of Applied Engineering Research*, ISSN 0973-4562, Vol. 10, No. 85, pp. 656-661., <http://www.ripublication.com>. <http://www.ripublication.com> CiteScore 0.13
- 43 **Nataraj, M** and K. Balasubramanian (April 2016) “Parametric optimization of CNC turning process for hybrid metal matrix composite”, *International Journal of Advanced Manufacturing Technology*, vol. 93, no. 1-4, pp. 215-224, ISSN: 0268-3768 (print), ISSN: 1433-3015 (eprint),.CiteScore 2.3
- 44 **M. Nataraj** and P. Ramesh, (June 2016) “Investigation on Machining Characteristics of Al 6061 Hybrid Metal Matrix Composite Using Electrical Discharge Machine”, *Middle-East Journal of Scientific Research*, Vol. 24 No. 6 pp. 1932-1940, ISSN: 1990-9233, DOI: 10.5829/idosi.mejsr.2016.24.06.23587.<http://idosi.org/contactus/>
- 45 **M. Nataraj** and P. Ramesh, (Dec 2016) “Experimental Study on the Mechanical Properties of Aluminum based Hybrid Metal Matrix Composite”, *International Journal of Printing, Packaging & Allied Sciences Research*, Vol. 4 No. 5 pp. 3431-3438, ISSN: 2320-4387, <http://www.ijppas.com/abstract.php?archiveid=346>.
- 46 **Nataraj, M.**, Ramamoorthy, M., (Feb 2017) “Cooling system using LN2 and compressed air mixture: An experimental study on machining of Nickel based super alloy”, *International Journal of ChemTech Research*, Vol. 10 No. 2.

- 47 **Nataraj M.**, Neelamegan S and Anandanarayanan R (Feb 2017) “Optimizing Exhaust Port in 2-stroke Free Piston Engine for Improving Scavenging Efficiency using CFD”, *Asian Journal of Research in Social Sciences and Humanities*, Vol. 7, No. 2 pp. 227-288, ISSN: 2249-7315, DOI: 10.5958/2249-7315.2017.00090.9
http://www.indianjournals.com/ijor.aspx?target=contact_us
- 48 **Nataraj, M.**, Baskaran, G. (May 2017) "Experimental Investigation of Misalignment and Looseness in Rotor Bearing System Using Bartlette Power Spectral Density", *Journal of Scientific and Industrial Research*, Vol. 76, No. 2, pp. 308-313. CiteScore 0.70
- 49 Rajasekar M, **Nataraj, M.**, (April 2018) "Synthesis and Evaluation of Mechanical Properties of Aluminium Metal Matrix Hybrid Composite", *International Journal for Science and Advance Research in Technology*, Vol. 4, Issue 4, ISSN : 2395-1052.
- 50 Chitharthan S, **Nataraj, M.**, (April 2018) "Experimental Study on Mechanical Properties of Hybrid Metal Matrix Composites in Stir Casting Process", *International Journal of Creative Research Thoughts*, Vol. 6, Issue 2, pp. 44-50, ISSN: 2320-2882.
- 51 Charanraj K, **Nataraj, M.** (April 2018) "Numerical Analysis of Static Characteristic of Hydrodynamic Journal Bearing With Dimples", *International Journal for Science and Advance Research In Technology*, Vol. 4, Issue 4, pp. 3276-3279, ISSN: 2395-1052.
- 52 **Nataraj M.**, Balasubramanian K and Palanisamy D (April 2018) “Influence of Process Parameters on CNC Turning of Aluminium Hybrid Metal Matrix Composites” *Materials Today: Proceedings (Elsevier)*, Vol. 5, pp. 14499–14506. ISSN: 2214-7853 CiteScore 0.94
- 53 **Nataraj M.**, Balasubramanian K and Palanisamy D (April 2018) “Optimization of Machining Parameters for CNC Turning of Al/Al₂O₃ MMC Using RSM Approach” *Materials Today: Proceedings (Elsevier)*, Vol. 5, pp. 14265–14272, ISSN: 2214-7853. CiteScore 0.94
- 54 **Nataraj M.**, Balasubramanian K (June 2018) “Experimental investigations on machinability measures of LM6” *Journal of Scientific and Industrial Research (NISCAIR)*, Vol. 77, pp. 318-324, ISSN:0975-1084 (Online); 0022-4456 (Print) CiteScore 0.70.
- 55 **Nataraj M.**, Balaji G (February 2019) “Study on performance of wind mill by adding winglet in turbine blade: virtual analysis” *Journal of Scientific and Industrial Research (NISCAIR)*, Vol. 78, pp. 96-101, ISSN:0975-1084 (Online); 0022-4456 (Print) CiteScore 0.57
- 56 **Nataraj M.**, Balaji G (2019) “Comprehensive Analysis of Different Winglet Models to Enhance the Windmill Performance” *Journal of the Balkan Tribological Association*, book 3, vol. 25, CiteScore 0.75.
- 57 Kannan Ramasamy, P.S.S.Srinivasan, **M. Nataraj** and Michel Myures, (2019), “The Thin Layer Drying Characteristics of Sago (Tapioca Pearls)”, in the *Journal of the Balkan Tribological Association*, Vol. 25, Issue 03, 2019.

- 58 A.Asif basha, **M. Nataraj**, Kannan Ramasamy (2019), “ CFD analysis of temperature and velocity distribution in forced convective cabinet dryer unit” International journal of emerging technologies and innovative research, Vol. 6, Issue 5, PP 487-494.
- 59 **M. Nataraj**, R.Venkatesan (2019), “Design and Numerical Analysis of Water Distribution Pipe Network” International journal of research and analytical reviews”, Vol. 6, Issue 2.
- 60 **M. Nataraj**, S.Aswinkumar (2019), “Analysing the fatigue failure of shackle bracket in airbus suspension system” International journal for science and advance research in technology”, Vol. 5, Issue 5.
- 61 K.Balasubramanian, **M.Nataraj**, and D.Palanisamy, (2019) “Machinability analysis and Application of response surface approach on CNC turning of LM6/SiCp composites”, Materials and Manufacturing Processes, Volume 34, Issue 12. doi:10.1080/10426914.2019.1660787, **Impact Factor – 3.350**.
- 62 Thillikkani S & **Nataraj M** (January 2020) “Failure analysis of leaf spring suspension system for heavy load truck vehicle”, International Journal of Heavy Vehicle Systems, ISSN: 1741-5152 (Online); 1744-232X (Print), Vol. 27, Issue 1/2, PP 1-17, doi.org/10.1504/IJHVS.2020.104413, **Impact Factor – 0.98**
- 63 Ramesh P & **Nataraj M** (January 2020) “Automotive industry application of aluminium-based hybrid metal matrix composite”, International Journal of Heavy Vehicle Systems, Vol. 27 Issue.1/2, pp.18 – 32, doi: 10.1504/IJHVS.2020.104412, **Impact Factor – 0.98**
- 64 S.Thillikkani, **M Nataraj**, (November 2020)"Fatigue life prediction of heavy vehicle suspension system under varying load conditions", Advances in Mechanical Engineering, Vol. 12, Issue. 11, Pages.1-10, doi.org/10.1177/1687814020968325, **Impact Factor – 1.28**
- 65 S.Thillikkani^a **M Nataraj**^b, M. Francis LutherKing^c (February 2021) "Failure analysis of Shackle Bracket in Airbus suspension under dynamic loading conditions", Engineering Failure Analysis, Vol. 120, <https://doi.org/10.1016/j.engfailanal.2020.105087>, **Impact Factor – 2.48**

18 PUBLICATIONS IN CONFERENCES

1. **Nataraj, M**, Arunachalam, V.P. (Mar '2002), "Finding the near optimum combination of Design Parameters for Windtone Horn using Taguchi's Principle", National Conference on Modern trends in Electrical and Instrumentation System (NCEIS-2002), 13th – 14th March 2002, pp 101-106, Government College of Technology, Coimbatore.
2. **Nataraj, M**, Arunachalam, V.P. (Dec '2003) "Robust Design and Analysis of Helical Gear for Quality Improvement and Functional Reliability Using Taquchi Method ", XIII National Conference of INDIAN SOCIETY OF MECHANICAL ENGINEERS (ISME-2003), Paper No. MD-053, 30th-31st December 2003, Indian Institute of Technology, Roorkee.

3. **Nataraj, M.**, Arunachalam, V.P. (May 2003) "Concurrent Engineering Based Modeling and Synthesizing of Drum Cam Mechanism for Printing Machine", National Conference on World Class Manufacturing (WCM-2003), 7th-9th May 2003, pp 109-115, Amrita Institute of Science and Technology, Coimbatore.
4. **Nataraj, M.**, Arunachalam, V.P. (Dec '2004) "A Novel Design Approach for Quality Improvement of Centrifugal Pump Using Taguchi's Robust Design Concept with a Case Study from M/S V-Guard Industries (P) Limited", 21st All India Manufacturing Technology, Design and Research Conference on Innovating - The Future Through Manufacturing, (AIMTDR 14), 20th-22nd December 2004, pp. 536-547, Vellore Institute of Technology Deemed University.
5. **Nataraj, M.**, Arunachalam, V.P. (Mar' 2004) "Present Scenario of Indian Pump Industry in Fluid Flow and Control: An Overview", National Conference on fluid flow and control (NCFC-2004) sponsored from UGC-DRS Centre for Fluid Dynamics, 16th-17th March 2004, Bharathiar University, Coimbatore.
6. **Nataraj, M.**, Arunachalam, V.P. and Boopathi, B. (Aug '2004) "Performance Analysis of Centrifugal Pump Using CFD Simulation of 3D Flow", All India Conference on Advances in Mechanical Engineering, 20th- 21st August 2004, pp. B 47 - 49, SVU College of Engineering Tirupati.
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8. **Nataraj, M.**, Arunachalam, V.P., (Jan '2004) "Parametric Optimization of Planar Cam Mechanism for Quality Improvement Using Taguchi Method", Proceedings of the International Conference on Responsive Supply Chain and Organizational Competitiveness – A Technology Watch (RSC 2004), Paper No 6, Coimbatore Institute of Technology, Coimbatore.
9. **Nataraj, M.**, Arunachalam, V.P., (Dec '2005) "Parameter optimization of electroplating process using Taguchi method with a case study ", Proceedings of the International Conference on Advances in Materials, Product Design & Manufacturing Systems (ICMPM 2005), 12th – 14th December 2005, pp. 725-733, Bannari Amman Institute of Technology, Sathyamangalam.
10. **Nataraj, M.**, Arunachalam, V.P., and Ragoth Singh, R. (May 2005) " Design and development of volute casing for centrifugal water pump: A virtual model analysis", National Conference on Product Development with Mechatronic System for Global Quality (PMGQ 2005), 2nd-3rd May 2005, pp 1-5, Thiagarajar college of Engineering, Madurai.
11. **Nataraj, M.**, Sivakumar, S. (Aug '2007) "Regression model to predict the surface quality using Taguchi parametric design concept", Proceedings on globalization of engineering, design, R&D challenges and opportunities (Engineering Design in 2007), 9 - 11th August 2007, Indian Institute of Science, Bangalore.

12. Baskaran, G., **Nataraj, M.**, (Oct '2009), "Condition Monitoring and Fault Diagnosis of Rotor Bearing System- A Review", Proc. of the 7th National Conference on Modern Trends in Power Engineering and Power Plants, 8-9 October 2009, pp. 119-128.
13. Baskaran, G and **Nataraj, M.** (Dec '2009), "Practical Approach for Fault Detection in Rotor Bearing System using FFT Analyzer", Proc. of the International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium, ICAMB 2009, Dec 14-16 (2009), pp. 765-769
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15. **Nataraj, M.**, Sankar, S. (Apr '2009) "Analysis of Helical Gears in Wind Turbine Generator", Proceedings of Second National Conference on Innovative Practices for Sustainable Energy and Waste Management (IPSEWM), 24th & 25th April 2009, pp 137-144, Sri Ramakrishna Institute of Technology, Coimbatore.
16. **Nataraj, M** and Shanmugaraja, M, (Mar '2009) "An innovative approach in product design for quality and customer delight", Proceedings of the National Conference on Recent Innovations in Design and Analysis (RIDA 2009), 18th March 2009, pp.11-16, Government College of Engineering, Tirunelveli.
17. Sankar, S and **Nataraj, M.**, (Dec '2009) "Effects of Standard Pressure Angle on Tooth Deflection and Root Stresses of High Precision Helical Gear", International Conference on Precision on Macro, Micro and Nano Engineering (COPEN6), 11-12 December, 2009, pp. I 41- 46, Organized by PSG College of Technology, AMRITA School of Engineering and University of North Carolina at Coimbatore.
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19. Shanmugaraja, M and **Nataraj, M.** (July '2009) "An approach for rejuvenating Six Sigma with case study", International Conference on Mechanical and Electronics Engineering [ICMEE- 2009] July 24-27 2009, pp. 249-254, International Association of Computer Science & Information Technology (IACSIT) Singapore, Chennai.
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21. Shanmugaraja, M., **Nataraj, M.** (Mar' 2009) "A novel move towards product design for quality and consumer happiness", National Conference on Advances in Mechanical Science (AIMS 2009), March 26th2009, pp. 36, Kumaraguru College of Technology, Coimbatore.

22. Shanmugaraja, M and **Nataraj, M**, (Dec 2009) “Customer care model development using Six Sigma and QFD” in the International Conference on Advances in Mechanical and Building Sciences in the 3rd Millennium (ICAMB 2009), December 14-16 2009, pp. 104, VIT University, Vellore.
23. Baskaran, G., **Nataraj, M**, (Aug '2010) “Application of Signal Processing Response Analysis in Rotor Bearing System – A Review”, Proc. of the International Conference on System Dynamics and Control, ICSDC 2010, August 19-22 (2010), pp.70
24. Baskaran, G., **Nataraj, M**, (Aug '2010) “Dynamic Analysis of Angular misalignment and Looseness in a Rotor Bearing System Using Discrete Wavelet Transform Tool”, Proc. of the International Conference on System Dynamics and Control, ICSDC 2010, August 19-22(2010), pp. 373-378
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26. Sankar, S and **Nataraj, M**, (May '2010) “An Approach to Increase Spur Gear Tooth Strength by Profile Modification”, International Conference on Frontiers in Mechanical Engineering (FIME 2010), 20 -22 May, 2010, pp.83, National Institute of Technology, Mangalore, Karnataka.
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29. Sankar, S and **Nataraj, M**, (May '2010) “Failure Investigation of an Input Hollow Shaft in Wind Turbine Generator Gearbox”, International Conference on Frontiers in Mechanical Engineering (FIME 2010) May 20-22 2010, pp. 82, National Institute of Technology, Mangalore, Karnataka.
30. Sankar S., Nataraj M and Prabhu Raja V. (March 2012), ‘Failure analysis of bearing in wind turbine generator gearbox, 2nd International Conference on Next Generation Communication and Computing Systems (ICNGC2S-11), Institution of Engineers, Technocrats and Academician Network (IETAN), Chandigarh, 24-25.
31. Neelamegan, S and **Nataraj, M**. (Sept '2012) “ Overview of Two Stroke Free Piston SI Engine Technology for Hybrid Electric Vehicles” 28th National Convention of Mechanical Engineers and National Seminar on Emerging Technologies in Product Development for Safe and Sustainable Mobility, September 3rd -5th, 2012, pp.152, PSG College of Technology, Coimbatore.

32. **Nataraj, M** and Neelamegan, S. (Apr '2013) "Scavenging Analysis of Single Cylinder Two Stroke Free Piston SI Engine - CFD Study" 2nd Conference on Advances and Challenges in Mechanical Engineering, April 26, 2013, pp.64, Erode Sengunthar Engineering College.
33. Neelamegan, S and **Nataraj, M.** Rajasekar, R. (Mar '2014) "A Computational Study on Free Piston Engine Combustion under Various Compression Ratios" 5th National Conference on Emerging Trends in Mechanical Engineering, 7th March 2014, SNS College of Engineering & Technology, Coimbatore.
34. Sasikumar, T, **Nataraj, M** and Ramamoorthy, M. (Apr '2014) "Influence of Cutting Parameters on Surface Roughness and tool wear in hard turning of Inconel 718" National Conference on Advances in Design and Manufacturing of Mechanical Systems (ADAMMS 2014), 3rd-4th, April 2014, pp.7, Sri Krishna College of Engineering & Technology, Coimbatore.
35. **Nataraj, M.**, and Arunkarthik, T. (Apr '2014), "New Approach of Turning IN 718 with LN2 as a Coolant" International Conference on Recent Trends in Engineering and Management (ICRTEM 2014), 11-12, April 2014 at Indra Ganesan College of Engineering, Trichy.
36. **Nataraj, M.**, Ramamoorthy, M., Pradeepkumar, M and Arunkarthik, T. (June '2014) "Parametric optimization of high speed turning of Inconel 718 and modeling of surface roughness using DoE approach" Advances in Mechanical Engineering, Proceedings of the International Mechanical Engineering Congress (IMEC), 13th -15th June 2014, pp. 274-277, National Institute of Technology, Trichy.
37. **Nataraj, M** and Balasubramanian, K. (Dec '2014) "Parametric Optimization of CNC Turning Process for Hybrid Metal Matrix Composite" International Conference on Advances in Design and Manufacturing (ICAD&M'14), 5th-7th, December 2014, pp. 817-822, National Institute of Technology, Trichy, ISBN 978-93-84743-12-3.
38. **Nataraj, M** and Balasubramanian, K. (Dec '2014) "A Comparative Study on Wear Performance of Al 6063 Metal Matrix Hybrid Composite" International Conference on Advances in Design and Manufacturing (ICAD&M'14), 5th-7th, December 2014, pp. 823-828, National Institute of Technology, Trichy, ISBN 978-93-84743-12-3.
39. Siva Sankar G A, Sadanandan R, **Nataraj M** (Feb '2015) "virtual analysis of chevron nozzle lobe design modification" International Conference on Innovative Research Techniques in Management, Aeronautical Mechanical & Electrical Systems, 12th-13th, February 2015, pp. 78-81, Kalaignar Karunanidhi Institute of Technology, Coimbatore.
40. G. Baskaran., **Nataraj, M.**, (Oct 2015) "Dynamics analysis of misaligned rotor bearing System: An experimental study" International Conference on Modeling, Simulation & Control, ICMSC 2015, October 15-16, pp.829-837 at Karpagam College of Engineering, Coimbatore.
41. G. Baskaran., **Nataraj, M.**, (Oct 2015) "Vibration based fault detection in hydro power plant: a case study" International Conference on Modeling, Simulation & Control, ICMSC 2015, October 15-16, pp. 849-854, Karpagam College of Engineering, Coimbatore.

42. **M.Nataraj**, P.Muthusamy, (Nov 2015) “Weight Optimization and Stress Sizing of Typical Fuselage Structure Used for Commercial Aircraft”, 29th National Convention of Aerospace Engineers and National Seminar on Aerospace Engineers: Innovative Practices and Future Trends, 27 – 28 November 2015, Organised by The Institution of Engineers (India) and Tamilnadu State Centre. Under the Aegis of Aerospace Division Board, IEI.
43. **M. Nataraj** and G. Balaji, (Feb ’2016) “Virtual analysis of turbine blade with winglet for improving performance of wind mill”, Proceedings of the International Conference on Materials, Design and Manufacturing Process ICMDM ’16, February 17-19, 2016, Anna University, Chennai, INDIA.
44. **M. Nataraj** and Balasubramanian, K, (Feb ’2016) “Experimental investigations on cutting force influence in turning of LM6 Aluminium alloy for surface excellence”, Proceedings of the International Conference on Materials, Design and Manufacturing Process ICMDM ’16, February 17-19, 2016, Anna University, Chennai, INDIA.
45. **M.Nataraj**, P.Muthusamy, (Nov 2016) “Finite element modeling and analysis of Aircraft Fuselage stiffened panel” in 30th National convention of aerospace engineers and national seminar on “Aerospace Technology, Future Trends and Developments” during 25-26 November 2016 organized by the Institution of Engineers (India), Tamilnadu State Centre, Chennai.
46. **M.Nataraj**, Dineshkumar P, (February 2017) “Experimental study on Diesel Engine using Moringa Oleifera Bio-Diesel blend with ditetra butyl peroxide additive as fuel” in 1th National conference on Emerging Technologies in Mechanical and Manufacturing Engineering (eTimmE2K17) on February 22 2017 organized by Government College of Engineering, Dharmapuri.
47. **M.Nataraj**, Azhagarsamy P, (April 2017) “Optimization of EDM Variables on AI 7075 HMMC using Taguchi Based Grey Relational Analysis” in 4th National conference on Energy Efficient Mechanical System Design and Manufacturing on April 27 2017 organized by the PSG College of Technology, Coimbatore, India.
48. **M.Nataraj**, Koruvail Dilip, (April 2017) “Design Optimization of Centrifugal Pump using CFD for improving the hydraulic efficiency” in 8th National conference on New nad Renewable Energy Technologies on April 29 2017 organized by the PSG College of Technology, Coimbatore, India.
49. **M.Nataraj**, K.Balasubramanian, D.Palanisamy (May 2017) “Analysis of machining force and specific cutting pressure in turning of hybrid metal matrix composites with MoS₂ reinforcement” International Conference on Advanced Functional Materials (ICAFM’17) on May 3-5 2017 organised by Adhi College of Engineering and Technology, Kancheepuram, India.
50. **M.Nataraj**, K.Balasubramanian, D. Palanisamy (May 2017) “Study on influence of machining parameters on work-tool interface temperature and surface roughness in turning of Al-MMC” International Conference on Advanced Functional Materials (ICAFM’17) on May 3-5 2017 organised by Adhi College of Engineering and Technology, Kancheepuram, India.

51. Neelamegan,S, **Nataraj, M**, Ras Mathew Y & Anandanarayanan, R, (Oct 2019) ‘Investigations on scavenging performance of a novel Two Stroke spark ignited Free Piston Engine’, Journal of the Balkan Tribological Association, vol. 25, no. 3, pp. 617–632, ISSN: 1310-4772;,<http://www.scibulcom.net/>

19 SUMMER AND WINTER SCHOOL ATTENDED

Sl. No.	Name	Place	Duration of Course	
			From	To
1	Computer Aided Metal Casting	Mechanical Department, G.C.T., Coimbatore.	05.02.94	18.02.94
2	Machine Tool Drives and Controls	Production & Mechanical Engineering Department, PSG College of Tech., Coimbatore.	17.11.96	30.11.96
3	Design and Computer Simulation of Pneumatic/Electro-Pneumatic Systems for Mechanization	Production & Mechanical Engineering Department, PSG College of Tech., Coimbatore.	11.05.97	24.05.97
4	Workshop on Product Design Technology	Mechanical Engg Department Sri Krishna College of Engg. & Tech., Coimbatore.	02.02. 02	
5	Cleaner Manufacturing in Industries	Production Department, Amrita Institute of Tech. Coimbatore.	25.10.04	07.11.04
6	National Seminar on Strategies for World Class Manufacturing Sponsored by TEQUIP	Mechanical Engg Department, Government College of Technology, Coimbatore	28.04.06	29.04.06
7	Faculty Development Programme on Entrepreneurship	PSG-STEP in association with DSTEP	13.11.06	25.11.06
8	Strategies for World Class Manufacturing	Government College of Technology, Coimbatore	28.04. 06	29.04. 06
9	Reverse Engineering Applications	Government College of Technology, Coimbatore	29.09.07	30.09.07
10	Globalization of Engineering, Design, R & D Challenges and Opportunities.	II Sc. Bangalore	09.08.07	11.08.07
11	Intellectual Property Rights and Indian Patent System in India	NITTTR, Chandigarh	23.07.07	27.07.07
12	Intellectual Property Rights	ANNA University, Chennai	26.09.07	28.09.07
13	Indo German Workshop on Microsystems for Automotive and Machine Tool Industries	PSG College of Technology Coimbatore	13.02.08	
14	Recent advancements in Virtual Instrumentation & Embedded System Design	Government College of Technology, Coimbatore	16.06.10	22.06.10

20 TRAINING PROGRAMME ATTENDED

Sl. No.	Name	Place	Duration of Course	
			From	To
1	AICTE sponsored winter school on "Computer Aided Metal Casting"	Mechanical Engg. Dept, Government College of Technology, Coimbatore	05.02.94	18.02.94
2	AICTE sponsored winter school on "Machine Tool Drives and Controls"	Production & Mechanical Engg. Department, PSG College of Tech., Coimbatore.	17.11.96	30.11.96
3	AICTE sponsored summer school on "Design and Computer Simulation of Pneumatic/Electro-Pneumatic Systems for Mechanization"	Production & Mechanical Engg. Department, PSG College of Tech., Coimbatore.	11.05.97	24.05.97
4	One day workshop on "Product Design Technology"	Mechanical Engg Dept., Sri Krishna College of Engg & Tech, Coimbatore.	02.02. 02	
5	AICTE sponsored summer school on "Cleaner Manufacturing in Industries"	Production Department, Amrita Institute of Tech. Coimbatore.	25.10.04	07.11.04
6	TEQIP Phase I sponsored FDP on "National Seminar on Strategies for World Class Manufacturing"	Mechanical Engg Dept, Government College of Technology, Coimbatore.	28.04.06	29.04.06
7	AICTE Sponsored FDP on "Entrepreneurship"	PSG-STEP in association with DSTEP	13.11.06	25.11.06
8	TEQIP Phase I sponsored FDP on "Strategies for World Class Manufacturing"	Government College of Technology, Coimbatore.	28.04. 06	29.04.06
9	TEQIP Phase I sponsored FDP on "Reverse Engineering Applications"	Government College of Technology, Coimbatore.	29.09.07	30.09.07
10	Globalization of Engineering, Design, R & D Challenges and Opportunities.	Indian Institute of Science, Bangalore.	09.08.07	11.08.07
11	TEQIP Phase I sponsored Training Programme on "Intellectual Property Rights and Indian Patent System in India"	National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh.	23.07.07	27.07.07
12	TEQIP Phase I sponsored FDP on "Intellectual Property Rights"	ANNA University, Chennai.	26.09.07	28.09.07

13	Indo German Workshop on Microsystems for Automotive and Machine Tool Industries	PSG College of Technology Coimbatore.	13.02.08	
14	TEQIP sponsored FDP on “Recent advancements in Virtual Instrumentation & Embedded System Design”	Government College of Technology, Coimbatore.	16.06.10	22.06.10
15	TEQIP Phase II sponsored FDP on “Vibration and Tribology related issues in industrial Scenario”	Government College of Technology, Coimbatore.	02.10.2012	08.10.12
16	One Workshop on NPTEL	Government College of Technology, Coimbatore.	09.04.13	
17	TEQIP Phase II sponsored FDP on “Current Research Trends in Nanoscience & Technology, and Application in Solar Cells”	Government College of Technology, Coimbatore.	15.05.13	21.05.13
18	TEQIP Phase II sponsored FDP on “Industry – Academia Collaboration Workshop”	Central Leather Research Institute (CLRI), Chennai.	24.05.13	25.05.13
19	TEQIP Phase II sponsored FDP on “Management Capacity Enhancement”	IIM Indore & Coimbatore Institute of Technology, Coimbatore.	27.08.13	31.05.13
20	AICTE sponsored STC on “Product Design and Engineering”	Indian Institute of Technology Madras, Chennai.	21.10.13	25.10.13
21	Indian Engineering Congress “Innovative Teaching, Research Learning & Accreditation Practices”	Hotel Leela Palace, Chennai, Organized Institution of Engineers (India) in association with ESCI and Anna University, Chennai and	20.12.13	22.12.13
22	TEQIP Phase II sponsored FDP on “Management Capacity Building”	Indian Institute of Technology Madras, Chennai.	29.01.2014	31.01.2014
23	ICTACT Bridge 2014 –Technology & Entrepreneurship Submit	ICT Academy of Tamil Nadu (ICTAT) in association with NASSCOM, Coimbatore.	25.06.2014	
24	TEQIP Phase II sponsored Training on CNC Vertical Machining Centre	M/s. BATLIBOI LTD, Udhana, Surat, Rajasthan	22.10.2014	26.10.2014
25	TEQIP Phase II sponsored Workshop on “LEARNING ASSESSMENT AND EVALUATION”	Teaching Learning Centre, Government College of Technology, Coimbatore.	01.12.2014	02.12.2014

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