

Mr.S. Jesudass Thomas

Associate Professor and HOD
Department of Mechanical Engineering
KCG College of Technology
Chennai – 600 097
Teaching Experience -24 years
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Research Interest

Surface Engineering
Machining

Academic and Professional honors

- “Commendable Performance in the Department - 2018”
- Commendable Contribution as Member of Admission Team – Received on 05/09/2019.
- Award received for Organising "Auto Show - KCG Octane - 1.0" on 6/7/2019 at KCG - Received on 05/09/2019.
- Second position as Supervisor of Commendable final year Project “Design and Development of Water Purifier using Vacuum Desalination Process” in IET Project Challenge – 2021.

Publications

International Journals:

1. S. Jesudass Thomas & K. Kalaichelvan (2018) Comparative study of the effect of surface texturing on cutting tool in dry cutting, Materials and Manufacturing Processes, 33:6, 683-694, DOI: 10.1080/10426914.2017.1376070

National / International Conferences:

1. Jesudass Thomas S, Kalaichelvan K., “Machinability Studies on Textured Tool Insert by WEDM in dry machining of Inconel – 718”, Second National Conference for Mechanical Engineering Research Scholars (MERS – 2019) at SSN Engineering College, Chennai on 29/03/2019.
2. Paper titled “Performance Improvement of Cutting Tool by Surface Texturing” Presented in the National Conference (NCMACE - 2018) on 28/03/2018 at KCG College of Technology.
3. Paper titled “Performance Improvement by Surface Texturing using WEDM on Cutting Tool” Presented in the National Conference (NCMACE - 2018) on 28/03/2018 at KCG College of Technology.

4. Jesudass Thomas S, Kalaichelvan K, "Surface Texturing by Wire cut EDM on Cutting Tool", **National Conference** on "Advanced Research and Innovation in Mechanical Engineering" (ARIME - 2016) at KCG College of Technology, Chennai on 22/04/2016 and 23/04/2016.
5. Jesudass Thomas S, Kalaichelvan K, "Study of Chip Formation by Surface Texturing on Cutting Tool", **International Conference** on Materials, Design and Manufacturing Process (ICMDM - 2016) at College of Engineering, Anna University, Chennai from 17/02/2016 to 19/02/2016.
6. Jesudass Thomas S, Kalaichelvan K, "Design and Development of Miniature Tensile Testing Machine", **International Conference** on Recent Advances in Mechanical Engineering (INCROME - 2011) at Dr.M.G.R. University, Chennai on 21/04/2011 and 22/04/2011.
7. Jesudass Thomas S, Kalaichelvan K, "Miniature Specimen Tensile Testing Machine - An Innovative Technology", **National Conference** on Advances and Innovations in Mechanical Engineering (AIME - 2011) at SKR Engineering College, Chennai on 24/02/2011.

Patent:

Published a Patent – "An Investigation of Abrasive Water Jet Machining on Glass Fiber Reinforced Polymers" Publication date: 2021/5/26; Patent office AU; Patent number-2021101722

Academic Background

- Pursuing Ph.D under the Guidance of Dr. K Kalaichelvan, Professor&Head, Department of Ceramic Technology, Anna University, AC Tech. Campus, Chennai.
- 2011 - M.E Production Technology, Anna University - Madras Institute of Technology Campus, Chromepet, Chennai.
- 1993 - B.E Mechanical, Bharath Institute of Science and Technology, Chennai.

Academic and Industrial Experience

Present

October 2018 – till date, Associate Professor& HOD, Department of Mechanical Engineering, KCG College of Technology, Chennai.

Past

- May 2014 to October 2018 - Associate Professor, Department of Mechanical Engineering, KCG College of Technology, Chennai
- April 2011 to May 2014 - Associate Professor, Vi Institute of Technology, Chennai.
- May 2006 to March 2011 - Head of the Department, Sri Durgadevi Polytechnic College, Kavarapettai.
- December 2004 to May 2006 - Head of the Department, Meenakshi Krishnan Polytechnic College, Chennai.
- January 1998 to November 2004 - Lecturer, Meenakshi Krishnan Polytechnic College, Chennai.
- September 1993 - October 1997 - Production Supervisor, M/S. Hawk Engines, Chennai.

Events Organised:

- Staff Development Programme (SDP) under ISTE in the year 2008 at Sri Durgadevi Polytechnic College, Kavarapettai.
- Organised 3 Technical Symposiums under ISTE during the academic years 2009, 2010 and 2011.
- Arranged and coordinated Industrial Visits for students and Faculty at Perambur Loco Works, Integral Coach Factory (ICF) – Perambur, Thermal Power Station – Ennore, Thermal Power Station – Athipet, Guindy Technical Training Centre and Super Auto Forge Pvt. Ltd.
- Arranged In-plant Training for students at TVS – Brakes India Ltd. Polambakkam plant, TVS – Wheels India Ltd., Simpson & Co. Ltd. Anugraha Valves & Die Castings - CBE, Nord Drive Systems – Noida, Schwing Stetter Pvt. Ltd., Ashok Leyland, Rane Brakes etc.,
- Arranged Guest Lectures from Industries for the students on various topics on recent trends in Mechanical Engineering.
- Arranged Value Added Courses for the students in various fields of Mechanical Engineering.
- Acted as member of the Interview Panel Committee for Department of Mechanical Engg. for HITS during May – 2017.
- Organized Skill Development Programme in Gas Welding with Welding Simulator conducted for Polytechnic Students in the Month of June – 2017.
- Training Coordinator for Practical Subjects Training Program in Mechanical Engineering Department Laboratories for Non-Teaching Staff from 01/11/2017 to 29/11/2017.
- Guest Lecture given on the Topic “Friction” during the Anna University approved FDP on “Kinematics of Machinery” on 16/12/2017.
- Acted as External Auditor for IQAC Academic Audit at HITS twice in the academic year 2017 – 2018.
- Coordinator for Value added course on “3D Printer Training” conducted for Third year Mechanical Engg. students in the academic year 2017 – 2018.
- Guest Lecture given on the Topic “Hydraulic and Pneumatic Systems” on 24/01/2018 at HIET Polytechnic College.
- Organised AICTE Sponsored two weeks FDP on "The Role of Smart Materials in Digital Manufacturing and Fourth Industrial Revolution" (Factories for Future) from 10/10/2019 to 23/10/2019.
- Organised "Auto Show - KCG Octane - 1.0" on 6/7/2019 at KCG Campus.
- Organised Guest Lecture on "Mechanical Engineers - Expectations of Industry" on 22/07/2019.
- Organised State Level Project Competition – AnVer - 2K19 for Polytechnic students on 02/03/2019.
- Organised the Webinar on "Advanced Trends in Surface Treatment Solutions", presented by our department Alumni Mr. Johnson Mathew, DGM, Air Blast

Surface Treatment Solutions on 12/05/2020.

- Organised “Design Now Challenge” Workshop for students to learn Fusion 360 conducted by ICT Academy in coordination with Autodesk in the year 2021.

Events Attended:

- Attended the webinar on ‘The Voice of Start-Ups MY STORY – Motivational Speech by Successful Entrepreneurs’, Presented by Mr. Vishnu Vardhan, Director and Mr. Samba Siva Rao, Project Coordinator, Crion Technologies on 07/01/2022.
- Attended the webinar on “Research, Project & Internship Opportunities in Mechanical Engineering” conducted by AICTE on 06.01.2022.
- Attended the Webinar on “Role of Start-ups in Indian EV Transition” presented by Mr. Sivam Sakthivel, Director, Yali Mobility, organized by Department of Mechanical Engineering conducted on 28th December – 2021.
- Given a Guest Lecture for the Course “Strength of Materials” for III Sem. DME Students on 02/12/2021 and 03/12/2021 at HIET Polytechnic students.
- Attended the IIT-PALS event Industry speaks - Core lecture on ‘PRODUCT RELIABILITY ENGINEERING’ host by KCG College of Technology on 27/08/2021.
- Attended five days AICTE-ISTE approved Orientation/Refresher Programme on Thermal Engineering, organized by Kalpatru Institute of Technology, Tiptur, Karnataka from 17/02/2021 to 21/02/2021.
- Completed the following 5 Online Certification Courses, certified by Coursera – 1. Material Processing 2. Introduction to Engineering Mechanics 3. Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading 4. Materials Science: 10 Things Every Engineer Should Know 5. Fundamentals of Fluid Power in the year 2020.
- Attended five days virtual FDP on “ME8493 - Thermal Engineering – I”, organized by Sri Sairam Engineering College from 28/12/2020 to 04/01/2021.
- Attended Webinar on “Biomedical Engineering – Prospectus and Opportunities”, presented by Dr. A Thirugnanam, Associate Professor, NIT- Rourkela on 06/11/2020.
- Attended Webinar on “Computational Fluid Dynamics (CFD)-The Answer to what, Why and How!” – Presented by Ms. Suryasree Roy Chowdhury, Research Scholar - IIT, Madras on 06/10/2020.
- Attended Webinar on “Key Organizational Activities – Explanation Through TQM Practices” presented by Mr. Dilip Kumar, Deputy Manager – Product Management, Rane Brake Linings Ltd. on 06/08/2020.
- Attended five days virtual FDP on “Manufacturing, Machining and Testing of Composites”, organized by Sri Sairam Institute of Technology from 15/06/2020 to 19/06/2020.
- Acted as Judge for the Science Expo, Conducted for school level students, organized by HIET Polytechnic College on 31/01/2020.
- GATE Coaching from 13 – 09 - 2019 to 08 – 07 – 2020. (For only one course).
- Consultancy on Pump Testing for CJ Titanium Pvt. Ltd. on 11/12/2019.
- Attended ‘Train the Trainer’ – Training at BOSCH Training Centre – Bangalore from 02/12/2019 to 06/12/2019.
- Three Days FDP on Teaching Pedagogy at Teaching Learning Centre, IIT Madras, from 13/9/18 to 15/9/18

- One Day Training on “ ISO 9001:2015 Standard Requirements” on 21/3/2018 at KCG College of Technology
- Two Days Workshop on “Additive Manufacturing” on 19/3/2018 and 20/3/2018 at Anna University - CEG Campus.
- Session on “Cognitive Learning Techniques” on 10/2/2018 at KCG College of Technology.
- Seven Days Anna University approved FDP on KOM from 13/12/2017 to 19/12/2017 at KCG College of Technology.
- One day Seminar on “Nuances in Research Proposal Writing” on 30/11/2017 at KCG College of Technology.
- Two days Course on “Geometric Dimensioning and Tolerancing” on 8/9/2017 and 9/9/2017 at Anna University - AC Tech. Campus, Chennai.
- One day Seminar on “A Foresight into Research” on 27/6/2017 at KCG College of Technology.
- Two Days IQAC Training Program on “Management of QC’s for Effectiveness of Educational Institutions” On 22/6/2017 and 23/6/2017 at KCG College of Technology.
- Two Days FDP on Dynamics of Machinery on 16/6/2017 and 17/6/2017 at KCG College of Technology
- Participated in the **One day Seminar on “Ceramic Coatings”** held during 13/03/2017 organized by Department of Ceramic Technology, Anna University, AC Tech. Campus, Chennai – 600025.
- Two Days Seminar on Porous Ceramics on 27/05/2016 & 28/05/2016 - 2 Days at Anna University - AC Tech. Campus, Chennai.
- Conference on “Advanced Research and Innovation in Mechanical Engineering” on 22/04/2016 & 23/04/2016 at KCG College of Technology
- International Conference on Design, Materials & Manufacturing, “ICMDM – 2016” on 17/02/2016 to 19/02/2016 at Anna University
- Digital Manufacturing on 29/07/2015 at Hotel Crown Plaza, Adyar, Chennai
- One Day Seminar on “Abrasive Water Jet Machining” on 15.03.2015 at Anna University, Chennai.
- Faculty Development Training Programme on “Applied Hydraulics and Pneumatics” on 04/06/2012 to 10/06/2012 at Anna University - MIT Campus, Chennai
- Staff Development Programme on “Hydraulic Systems and its Recent Trends” on 13/07/2009 to 25/07/2009 at Sri Sairam Polytechnic College, Chennai.
- Two Days Workshop on “Advances in Lean Manufacturing and Applications” on 13/03/2009 & 14/03/2009, Anna University - MIT Campus, Chennai.

Subjects Taught /Teaching

- Fluid Mechanics and Machinery
- Design of Transmission Systems
- Thermal Engineering
- Applied Hydraulics and Pneumatics
- Maintenance Engineering
- Engineering Metrology and Measurements
- Engineering Thermodynamics
- Strength of Materials
- Engineering Mechanics
- Basic Civil and Mechanical Engineering
- Power Plant Engineering

- Manufacturing Technology – I
- Process Planning and Cost Estimation

Professional Affiliations

- Life Member - ISTE India
- Life Member - IEI