

**Mr. NAVISH KUMAR M.Tech, C.Eng(I)**  
**CHARTERED ENGINEER**

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**EDUCATIONAL QUALIFICATIONS:**

1. Name of the course : Master of Technology in Thermal Power Engineering  
Year of Completion : 2014  
Place of study : MVJ College of Engineering, Bangalore.  
Percentage of marks : 70.62% (First class with Distinction)
2. Name of the course : Bachelor in Mechanical Engineering from The Institution of Engineers  
Year of Completion : 2010  
Place of study : Visveswaraya Institute of Engineering & Technology, kottayam.  
Grades obtained : 7.1 (First class)

**WORK EXPERIENCE**

**Teaching Experience:**

1. Designation : Assistant Professor and Head of the Department  
Organization : Mount Zion College of Engineering, Kadammanitta, Pathanamthitta  
Duration : 04 February 2019 to Till date
2. Designation : Assistant Professor  
Organization : Karpagam Institute of Technology, Coimbatore  
Duration : 01 July 2015 to 31 October 2018
3. Designation : Assistant Professor  
Organization : Mount Zion College of Engineering, Kadammanitta, Pathanamthitta  
Duration : 01 July 2014 to 30 June 2015
4. Designation : Lecturer  
Organization : MiDET college of Engineering, Calicut  
Duration : 01 July 2010 to 20 September 2011.

**Industrial Experience:**

1. Worked at **AETOS DESIGN AND ENGINEERING, Bangalore** for 6 months period.
  - Project Handled - "DESIGN AND ANALYSIS OF RANKINE CYCLE BASED STEAM POWER PLANT"

## **PUBLICATIONS**

### **International Journals**

1. **David Paul.D, Vijayan S.N, Navish Kumar** “Investigation on thermal effects of Al<sub>2</sub>O<sub>3</sub> Nano particles mixed with water in forced convection micro channel using Computational fluid dynamics”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN:2249-8958, Volume-8 Issue-3,February2019.
2. **Navish kumar, Dhanapal P, Vijayan S N** “ Production and Performance Enrichment of Biodiesel from Mustard Oil and Blend with Different Volume of Diesel” TEST Engineering and Management ISSN: 0193-4120,Page No.-7652-7657,Volume-82, 04 February 2020 ( Scopus Indexed)

### **Participation in National Conferences**

1. Participated in a CSIR sponsored National Conference on “Vibration Problems In Engineering- An Insight Into Their Measurement, Analysis & Mitigation“ held in the year 2012 at MVJCE, Bangalore.

### **Presented Papers in International Conferences**

1. Published a paper entitled “Performance Analysis of Four Stroke Diesel Engine Using Mustard Oil as an Alternative Fuel” in “2nd International Conference of system, Science, Control, Communication, Engineering and Technology” 2016 at Karpagam Institute of Technology, Coimbatore on 18th and 19th March 2016.
2. Published a paper entitled “Effect of Diary Scum Oil Methyl Ester on a Diesel Engine Performance and Emission” in “2nd International Conference of system, Science, Control, Communication, Engineering and Technology” 2016 at Karpagam Institute of Technology, Coimbatore on 18th and 19th March 2016.
3. Published a paper entitled “Experimental Investigation On Tensile Strength, Flexural Strength And Impact Strength Of Glass- Fiber Reinforced Polyurethane Composite” in “2nd International Conference of system, Science, Control, Communication, Engineering and Technology” 2016. at Karpagam Institute of Technology, Coimbatore on 18th and 19th March 2016.
4. Published a paper entitled “Design And Analysis Of Light Weight Leaf Spring” in “IEEE Sponsored International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’17)
5. Published a paper entitled “Performance Analysis of Biodiesel Produced From Mustard Oil and Its Blend With Diesel”, 12th International Conference on Intelligent Systems and Control (ISCO 2018), at Karpagam College of Engineering, Coimbatore, on 5th & 6th January 2018.

6. Published a paper entitle “Performance And Emission Analysis Of Ziziphus (Indian Jujube)Seed Oil As Bio-Diesel”, in International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’18), at Karpagam Institute of Technology, Coimbatore, on 23rd & 24th March 2018.
7. Published a paper entitle “Heat Transfer Analysis Of Engine Cylinder Fins Of Varying Geometry”, in International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’18), at Karpagam Institute of Technology, Coimbatore, on 23rd & 24th March 2018.
8. Published a paper entitle “Performance Analysis On Heating Ventilation Air Conditioning System [HVAC] System”, in International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET’18), at Karpagam Institute of Technology, Coimbatore, on 23rd & 24th March 2018.
9. Published a paper entitle “Investigation on thermal effects of Al<sub>2</sub>O<sub>3</sub> Nano particles mixed with water in forced convection micro channel using Computational fluid dynamics”, 1st International Conference For Research and Development (HIKOHICO 2K18), at Indira Gandhi College of Engineering and Technology for Women, Chengalpattu, on 28th March 2018.

#### **Workshop / FDP/ Webinar**

1. Attended a two days workshop on Design Of Experiments & Optimization For The Researchers @Karpagam Institute of Technology on 16th and 17th Nov 2015
2. Attended a two day workshop on Materials And Testing@ Karpagam Institute of Technology on 12th and 13th Feb 2016
3. Participated in the Faculty Development Training Program on Composite Materials And Mechanics held at Karpagam College of Engineering from 14th to 20th May 2016.
4. Attended a three days KTU Sponsored Faculty Development Programme on Design of Experiments & Recent Developments in Optimization Techniques organized by Musaliar College of Engineering and Technology from 26/06/2019 to 28/06/2019.
5. Participated in five days Faculty Development Programme on Computer Programming in C held at Mount Zion College of Engineering, Kadammanitta, Pathanamthitta from 16 to 20 December 2019.
6. Participated in Faculty Development Programme of “Data Science: A Data Analysis Tour Using Excel, R, and Python” Organized by the Department of Computer Application( MCA) held at Mount Zion College of Engineering, Kadammanitta, Pathanamthitta from 1<sup>st</sup> to 4<sup>th</sup> January 2020.
7. Webinar on “Numerical Simulation of Granular Propellant Combustion” Organized by the Department of Aeronautical Engineering held at Mount Zion College of Engineering, Kadammanitta, Pathanamthitta on 30<sup>th</sup> July 2020.
8. Webinar on “Lean Six Sigma ” Organized by the Department of Aeronautical Engineering held at Mount Zion College of Engineering, Kadammanitta, Pathanamthitta on 8<sup>th</sup> July 2020.

9. Webinar on “Transport sector fuel Efficiency-Behavioral and Technological ” Organized by Amal Jyothi-Society of Energy Engineers & Managers (SEEM) Chapter held at Amal Jyothi College of Engineering, Kanjirappally , Kottayam on 20<sup>th</sup> July 2020.
10. Webinar on “COVID Impact on Lease Contracts – Ind AS 116 ” Organized McGraw Hill on 8<sup>th</sup> August 2020
11. Webinar on “Design Thinking ” Organized by the Department of Computer Application held at Mount Zion College of Engineering, Kadammanitta, Pathanamthitta on 3<sup>rd</sup> August 2020.
12. Participated in the five day Faculty Development Training Program on Advanced NDT Techniques for industrial inspection organized by Musaliar College of Engineering and Technology from 18/12/2020 to 23/12/2020.
13. Webinar on “Computational Fluid Dynamics an Overview and a case study in internal Ballistics ” Organized by the Department of Mechanical Engineering held at Jyothi Engineering College on 7 January 2021.

### **Membership in Professional organization**

1. Associate Membership of the Institution of Engineers (India) - AM1411902
2. International Association of Engineers (IAENG), Member Number – 175995
3. Senior Member in Indian Society of Mechanical Engineering (ISME)- ISSN: 0974-8377
4. Member in IAENG society of Industrial Engineering (Member Number – 175995)
5. Member in IAENG society of Operations Research (Member Number – 175995)
6. Member in HONG KONG Society Of Mechanical Engineering, member ID is:m20170214001.
7. International Association of Advanced Materials (IAAM)- Membership No: 877211913545
8. Associate Member of the Institute Of Research Engineers And Doctors (the IRED) - Membership No: AM101000583678
9. Professional Member of the “Institute for Engineering Research and Publication.”- Membership No: PMIN64819532

### **Achievements**

1. Certificate of Appreciation for securing 97% result in Power plant Engineering in Odd semester of academic year 2015-2016 @ karpagam Institute of Technology.
2. Certificate of Appreciation for securing 100% result in Advanced IC Engines in Even semester of academic year 2015-2016 @ karpagam Institute of Technology.
3. AutoDesk Certificate 2012

## Academic Projects

1. Performance Analysis of four stroke diesel engine using Mustard Oil as an Alternative fuel.
2. Simulation and Analysis of heat energy conservation in kiln of a cement plant.
3. Design and fabrication of paper cutting machine using Geneva mechanism.
4. Design and Fabrication project on Fluidized Bed Cooling Tower.
5. Bore Well Rescue System.


## Programs Co-Ordinated

1. **Programme Convener:** **UTKARSH 2019** Graduation Ceremony of BTech, MTech, MCA and MBA at Mount Zion College of Engineering, Kadammanitta, Pathanamthitta held on 3rd August 2019
2. **Organizing Committee Member-** International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-19) to be held at Chennai on 29<sup>th</sup> and 30<sup>th</sup> March 2019.
3. **Organizing Committee Member-** International Conference on Applied Science, Engineering and Technology on 2<sup>nd</sup> and 3<sup>rd</sup> May 2019 held at Srisairam College of Engineering, Bengaluru.
4. **Advisory Board Member-**2<sup>nd</sup> International Conference of Advances in Mechanical Engineering Sciences (ICAMES-2K20) on 28<sup>th</sup> and 29<sup>th</sup> February 2020 at PES College of Engineering, Mandya, Karnataka.( <https://icames.net/index.php>)

## Personal Details

Date of Birth : 21 July 1987  
Nationality : Indian  
Marital Status : Married  
Languages known : English, Hindi, Malayalam, Tamil

I hereby declare that the above, furnished facts are true to the best of my knowledge.



NAVISH KUMAR

Place: KOTTAYAM

Date: