



**Designation :** *Assistant Professor*  
**Manakula Vinayagar Institute of Technology,**  
**Madagadipet,**  
**Puducherry, Pin code – 605 107.**  
**E mail:** *karthigayank@gmail.com*  
**Phone:**  
**Mobile:** 9994699011

**Name of the staff:** *Karthigayan K*

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**Professional Objective:**

To achieve excellence in the Mechanical Engineering and to be an integral part of an organization where my trails and caliber will be suitably rewarded and grow together with the organization

**Career profile:**

*Encouraging young minds in-order to stimulate their creativeness*

**Educational qualification:**

**M.Tech** : M.Tech (Product Design and Manufacturing Engg.)

**B.E./B/Tech** : B.E Mechanical Engineering

**Work experience: (starting from present position)**

| S. No. | Employer   | Designation         | Period of Service         | Nature of Work |
|--------|--|---------------------|---------------------------|----------------|
| 1.     | Manakula Vinayagar Institute of Technology, Puducherry | Assistant Professor | 15.09.2010- Till<br>Date  | Teaching       |
| 2.     | Dr.SJS College of Engg. & Tech,<br>Puducherry          | Lecturer            | 31.03.2010 –<br>7.09.2010 | Teaching       |

**Teaching Activities: (Subjects Taught)**

**(i) Under Graduate :**

1. Engineering Mechanics
2. Mechanics of solids
3. Design of Machine Elements
4. Design of Transmission Systems
5. Kinematics of Machinery
6. Dynamics of Machinery
7. Industrial Casting Technology
8. Automobile Engineering
9. Metal Forming

**(ii) Post Graduate: NA**

**(iii) Laboratories handled:**

1. Workshop Practice
2. Material Testing and Metallurgy Lab

**Consultancy and Sponsored Research activities:**

| <b>Name of the Scheme</b> | <b>Project Title</b> | <b>Duration</b> | <b>Amount Sanctioned</b> | <b>Status Completed/* Ongoing</b> |
|---------------------------|----------------------|-----------------|--------------------------|-----------------------------------|
|                           |                      |                 |                          |                                   |

**Major tasks handled:**

**Paper Publications / Presentation:**

|                          | <b>Published</b> | <b>Accepted</b> | <b>Communicated</b> | <b>Total</b> |
|--------------------------|------------------|-----------------|---------------------|--------------|
| International Journal    |                  |                 |                     | -            |
| National Journal         | 1                |                 |                     | 1            |
| International Conference | 2                |                 |                     | 2            |
| National Conference      | 1                |                 |                     | 1            |

**FDP/STTP/Workshops attended:**

1. Attended in QIP sponsored STTP on **“Recent development in conventional and non conventional energy resources”** by Department of Mechanical Engineering , Pondicherry Engineering College, Puduchery from 6<sup>th</sup> -10<sup>th</sup> Nov 2017.
2. Presented Paper on **“Analysis & Optimization Of Lead Time For Retrofitting Of Cranes”** at International conference on **“Advanced Mechanical Production and Industrial Engineering”** Mahendra Institute of Engineering & Technology.
3. Attended in AICTE sponsored Two day workshop on **“Recent developments and future**

- trends of Nanotechnology in Automobiles**” by Department of Mechanical Engineering , Annamalai University, Chidambaram, April 12<sup>th</sup> and 13<sup>th</sup> 2017
4. Attended in QIP sponsored STTP on “**Sustainable Recent Trends in Power Generation**” organized by Department of Mechanical Engineering , Pondicherry Engineering College, Puducherry from 2<sup>nd</sup> to 6<sup>th</sup> May 2016.
  5. Attended National Conference PERISE'16 organized by In PERI Institute of Technology, Chennai on April 2016
  6. Attended Two day workshop on “**Efficient Product Design for Manufacturing and Assembly**” at Anna University Chennai, on 1<sup>st</sup> and 2<sup>nd</sup> April 2016.
  7. Attended 2 Days workshop on “**Solar Energy, Technology and Products**” organised by Phocos India Solar Pvt Ltd., Puducherry
  8. *K. Karthigayan and R. Karthikeyan P. Sivasankaran, Assistant Professor, Department of Mechanical Engineering , Manakula Vinayagar, Institute of Technology, Puducherry published paper on **Minimizing Part Count in Assembly Using DFA Method** International Journal of Latest Engineering Research and Applications (IJLERA) ISSN: 2455-7137Volume -02,Issue-03, March-2017,PP-10-14*
  9. Attended in TEQIP sponsored Faculty Development Programme on “**Sustainable Energy Technologies for the Future Generation**” organized by Department of Mechanical Engineering , Pondicherry Engineering College, Puducherry from 25<sup>th</sup> to 29<sup>th</sup> Nov 2013.
  10. Participated Faculty Development program “**RAINTA**” organized by Department of Mechanical Engineering, Pondicherry Engineering College, Puducherry during October 19<sup>th</sup> to 12<sup>th</sup> November 2011.
  11. Participated in “**Recent Development in Mechanical Engineering**” (RDME-09) a National conference organized by Department of Mechanical Engineering in Sree Chitra Thirunal College of Engineering in association with College of Engineering Trivandrum on 5<sup>th</sup> and 6<sup>th</sup> March 2009.
  12. Participated in “**GREEN TECH 2005**” an international conference on Environment , Ecology and Pollution held at Arunai Engineering College, Tiruvannamalai.

**(For details of publications and training programmes attended  
Annexure to be added )**

**Reviewer for the journals:** Nil

**Research guidance:** Nil

**Project Guidance:**

1. Optimizing the Process Parameter Of CNC Lathe For Better Surface Finish and to Reduce the Machinability Time for Aluminium 6061 Using Taguchi Method
2. Analysis on the Mechanical and Micro-structural Behaviour of Natural Fibers Reinforced with Epoxy Composites.

3. Heat Transfer Analysis on Wickless Heat Pipe
4. Analysis & Optimization of Lead Time for Retrofitting of Cranes
5. Design and fabrication of solar oxy-hydrogen vehicle

**Guest Lectures delivered:** Nil

**Professional Membership:** MISTE