

## ANNEXURE

**Name** : Dr.G.SATHYAPRIYA  
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➤ **Area of Interest/Research:** 'COMPLIANT MECHANISM'

➤ **Educational Qualifications:**

S.No	Qualification	Specialization	Year of Pass
1	Ph.D.,	Compliant Mechanism	2020
2	M.E Manufacturing Engineering	Manufacturing Engineering	2005
3	B.E Mechanical Engineering	Mechanical Engineering	2003

**1. Experience: ( Years )**

Name of Company / Institutions	Designation	Year of Experience
University College of Engineering, Ariyalur	Assistant Professor	15 Years & 7 Months
University College of Engineering, Ariyalur	Assistant Professor (Contract)	11 Months & 7 Days
Dhanalakshmi Srinivasan Engineering College, Perambalur	Assistant Professor	11 Months & 12 Days
Shanmuganathan Engineering College, Arasampatti	Assistant Professor	1 Year & 11 Months

**2. Additional / Academic Responsibilities at Institution/University Level:**

1. Head of the Department - 03.07.2015 to Till date
2. Deputy warden for Girls hostel – 04.10.2012 to 01.08.2023
3. Exam cell coordinator - 07.07.2017 to 06.07.2018
4. NSS coordinator – 19.09.2022 to 31.07.2023
5. Class incharge 2008 onwards

### **3. Professional Activities:**

1. Invited talk for a national level seminar on “**Recent trends in Engineering Mechanics**” on 31.10.2022 at MREC Thathanur.
2. Invited talk for a national level Technical seminar on “**Basic concepts of Engineering Mechanics**” on 29.12.2023 at MREC Thathanur.
3. Invited talk for a national level Technical seminar on “**Mechsympo 2k’16**” on 02.04.2016 at MRK Institute of Technology, kattumannarkovil.

### **4. UG Projects Completed: 60**

### **5. Sponsored Research Activities: NIL**

### **6. Membership in professional Societies: NIL**

### **List of Seminar / Short Term Course /FDP/ Workshop attended:**

1. Attended in one week Faculty Development Programme on “**NM – IGNITE 2024**” from 12.08.2024 to 17.08.2024 at Madras institute of Technology (MIT) Campus, Chennai
2. Attended in ACITE sponsored 5 days online Faculty Development Programme on “**inculcating universal human values Technical Education**” from 23<sup>th</sup> feb to 24<sup>th</sup> feb.
3. Attended in three week Industrial Training on ‘**Mechanical Engineering Application in Telecom Industry**’ from 28<sup>th</sup> June 2020 to 26<sup>th</sup> June 2020.
4. Attended in CFD- Anna University sponsored six days Faculty Development Programme on ‘**ME8501 Metrology and Measurements**’ on 16<sup>th</sup> may 2019.
5. Attended in short term course “**certificate course on Effective Patent Search and Drafting – 2019(PAT DRAFT – 2019)**” during 2nd Dec 2019 to 6<sup>th</sup> Dec 2019.

6. Attended in ACITE sponsored two week Faculty Development Programme on **'Cutting Edge Technology and Contemporary Research in Mechanical Engineering'** from 10<sup>th</sup> June 2019 to 22<sup>nd</sup> June 2019.
7. Attended in TEQIP II sponsored two weeks Faculty Development Programme on **'Advanced Manufacturing Methods and Materials'** from 22<sup>nd</sup> June 2016 to 06<sup>th</sup> July 2016.
8. Attended in TEQIP II sponsored two weeks Faculty Development Programme on **'Advanced Manufacturing Process Automobiles'** from 20<sup>th</sup> May 2015 to 2<sup>nd</sup> June 2015.
9. Attended in one day workshop on **"Research Methodology"** on 12.09.2015 at Anna University Chennai.
10. Attended in two week Faculty Development Programme on **'Thermal Engineering Applications for Sustainable Improvement'** from 15<sup>th</sup> June 2015 to 28<sup>th</sup> June 2015.
11. Attended in Faculty Development Programme on **'GE6253 – Engineering Mechanics'** from 12<sup>th</sup> Dec 2014 to 18<sup>th</sup> Dec 2014.
12. Attended in ACITE sponsored two week Faculty Development Programme on **'Recent Research and Development In Manufacturing Process - II'** from 11<sup>th</sup> Nov 2013 to 24<sup>th</sup> Nov 2013.
13. Attended in TEQIP II sponsored two week Faculty Development Programme on **'Mathematical Modeling, Analysis and Optimization of Mechanical System'** from 19<sup>th</sup> Dec 2013 to 27<sup>th</sup> Dec 2013.
14. Attended in one day workshop on **"Teaching Methodologies"** on 12.03.2011 at Anna University of Technology, Tiruchirappalli.

**15. List of Seminar / Short Term Course /FDP/ Workshop conducted:**

1. Conducted on One day National Level Technical Symposium “**MECHXPLORE’18**” on 21.02.2018 at University College of Engineering, Ariyalur.
2. Conducted on One Day Workshop on “Combustion Strategy in Internal Combustion Engine” on 30.09.2019 at University College of Engineering, Ariyalur.

➤ **International / National Conferences Participated:**

- 1) Presented a paper “**Performance Study on ir Obstacle Sensor for Automobile Braking System**”, ICISSETM 2018 held at Annapoorana Engineering College, Salem on 9<sup>th</sup> & 10<sup>th</sup> March 2018.
- 2) Presented a paper “**Design and Analysis Of Damper Using Compliant Mechanism In Lathe**”, ICISSETM 2018 held at University college of Engineering, Villupuram on 04<sup>th</sup> & 05<sup>th</sup> JAN 2018.
- 3) Participated and presented a paper “**A Lecture Survey In Compliant Mechanism Using Topology Optimization**”, ICISSETM 2018 held at University college of Engineering, Villupuram on 04<sup>th</sup> & 05<sup>th</sup> JAN 2018.
- 4) Guest lecturer in the National Level Technical Symposium “**Recent Trends Research in Optimization of Compliant Mechanism for vibration isolation**” on 15.02.2018
- 5) Presented a paper “**Optimization Of Tool Wear In Turning Operation Using Genetic Algorithm**”, Contemporary Approaches in Design and Manufacturing 2015 held at Alagappa Chettiar college of Engineering and Technology, Karaikudi on 23<sup>rd</sup> & 24<sup>th</sup> March 2005.

**16. Publications :**

**a. International Journals:**

1. Sathyapriya, G & Natarajan, U 2019, ‘Analysis of Compliant Damper and its effect on Turning operation for improving Surface Quality’, International Journal of Rapid

Manufacturing, DOI: 10.1504 / IJRAPIDM. 2019. 10020261, pp. 271-281.

2. G. Sathyapriya, U. Natarajan et al., "Development of Compliant Vibration Isolation Damper and Its Performance Analysis in Turning Operation", Advances in Materials Science and Engineering, vol. 2022, Article ID 6860178, 9 pages, 2022. <https://doi.org/10.1155/2022/6860178>
3. G. Sathyapriya, U. Natarajan et al., "Quality and Tool Stability Improvement in Turning Operation Using Plastic Compliant Damper", Journal of Nanomaterials, vol. 2022, Article ID 8654603, 8 pages, 2022. <https://doi.org/10.1155/2022/8654603>

#### **b. National Journals:**

##### ➤ **Conferences:** 04

1. Presented a paper titled "Development of compliant mechanism for Vibration isolation system for manufacturing applications" in International Conference on Newer Engineering Concepts and Technology – 2K18at K.Ramakrishnan College of Technology, Trichy.
2. ICEMRE-2018' "A Literature Survey in Compliant Mechanism using Topology Optimization ", International conference on Engineering Materials and Renewable Energy , organized by Department of Chemistry , University College of Engineering , Engineering Villupuram from 04-01-2018 to 05-01-2018.
3. ICEMRE-2018' "Design and Analysis of Damper using Compliant Mechanism in Lathe" , International conference on Engineering Materials and Renewable Energy , organized by Department of Chemistry , University College of Engineering , Engineering Villupuram from 04-01-2018 to 05-01-2018.
4. ICISSETM-2018' "Performance Study on IR Obstacle Sensor for Automobile Braking System " , International conference on Innovations in Science ,Engineering , Technology and Management organized by Annapoorana Engineering College , Salem held from 09-03-2018 to 10-03-2018.

##### ➤ **Invited Lectures.**

1. Invited talk for a national level seminar on “**Recent trends in Engineering Mechanics**” on 31.10.2022 at MREC Thathanur.
2. Invited talk for a national level Technical seminar on “**Basic concepts of Engineering Mechanics**” on 29.12.2023 at MREC Thathanur.
3. Invited talk for a national level Technical seminar on “**Mechsympo 2k’16**” on 02.04.2016 at MRK Institute of Technology, kattumannarkovil.
4. Invited talk for a national level Technical seminar on “**Recent trends Research in optimization of compliant mechanisam for vibration isolation**” on 15.02.2018 at MRK Institute of Technology, kattumannarkovil

➤ **Awards - NIL**

➤ **Fellowships and Grants - NIL**

➤ **List of Ph.D Research Project Completed - NIL**

➤ **List of Ph.D Research Project Ongoing : 02**

➤ **Consultancy Activities**

Verification of e –vehicles for Ariyalur and Perambalur Municipalities