

# Dr.L.FRANCIS XAVIER

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## COMMUNICATION ADDRESS:

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## CAREER OBJECTIVE:

To be an excellent teacher and to indulge in research and development activities in order to update and share my knowledge to the students.

## EDUCATIONAL ATTAINMENT:

S.No	Degree	Year	Subject	University/Institution	% of marks
1.	B.E	2003	Mechanical Engg.	Jayam College of Engineering	76%
2.	M.E	2010	Engineering Design	Anna University	8.3 (CGPA)
3.	PH.D	2017	Mechanical Engg.	Anna University	NA

**PhD Thesis:** “Investigations of dry sliding wear and drilling studies on low cost reinforced Aluminium Metal Matrix Composite”

**PROJECT WORKS UNDERTAKEN:**

Sl.No	Funding Agency	Amount	Project title	Year	Status
1.	AICTE under MODROBS	6,00,000/-	<i>Micro manufacturing of Engineering Equipments"</i>	2011-2012	Completed
2.	ICMR	40,000/-	<i>Seminar Grant</i>	2017-18	Completed

**AWARDS/ACHIEVEMENTS:**

S.No	Name of Award	Awarding Agency	Year
1.	Co-Investigator for MODROBS sanctioned by AICTE	AICTE	2012-13
2.	Seminar Grant from Indian Council for Medical Research	ICMR	2018

**ORGANIZATIONAL INVOLVEMENT:**

- Acted as Entrepreneurship Development Cell (EDC) - Coordinator.
- Acted as Module coordinator for NBA and NAAC.
- Acted as Department Association Coordinator.
- Acted as Department Time table coordinator.
- Acted as Department Placement Coordinator.
- Acted as a CLASS ADVISOR.
- Acted as a Lab in Charge for the CAD/CAM Laboratory from August 2010.
- Acted as a Department online exam coordinator.
- Life Member in "THE INDIAN SOCIETY FOR TECHNICAL EDUCATION" (ISTE)
- Life Member in "TRIBOLOGY SOCIETY OF INDIA"
- International Association of Computer Science and Information Technology (IACSIT).
- International Association of Engineers (IAENG)

**WORK EXPERIENCE:**

S.No.	Positions held	Name of the Institute	From	To
1.	CNC Machine operator and setter	Marks Engineering Works	04/07/2003	10/04/2005
2.	Lecturer	Christ the King Polytechnic	04/06/2005	29/12/2009
3.	Assistant Professor	Karpagam College of Engineering	06/01/2010	25/04/2017
4.	Associate Professor	Hindusthan College of Engineering	19/06/2017	20/04/2018
5.	Assistant Professor (Gr-II)	Christ (Deemed to be university), Bengaluru	14/05/2018	Till date

**RESEARCH ARTICLES PUBLISHED:*****International Journals***

- Optimization of Wear Rate on the Low-Cost Reinforced-Hybrid Aluminium Metal Matrix Composite”Nanomechanics and Micromechanics (Book),Taylor and Francis, Apple Academic Press Publication, USA, June 2020, vol.1, p. 121-134.
- “Wear Studies on Aluminum Metal Matrix Composite Prepared from Discarded Tea Extract and Coconut Shell Ash Particles”,Materials Physics and Chemistry (Book), Taylor and Francis, Apple Academic Press Publication, USA,Jn 2020, Vol.1, pp.235-244.
- “Studies On Mechanical Properties And Finite Elemental Analysis Of Non-Asbestos Corrugated Cement Roofing Sheets”,JOURNAL OF CRITICAL REVIEWS, June 2020, Vol.7, issue 9, pp.2024-2030.
- “Fatigue Test on Cost Effective Aluminium Metal Matrix Composite Prepared from Discarded Toner Powder and Coconut Shell Ash Particles”, Journal of Thin Films, Coating Science Technology and Application,Vol.5, issue-3, 2018, pp. 15-20.
- “Preparation of Aluminium Foam using Recycled Beverage Cans, NaCl salt and Discarded Dry Battery Powder” International Journal of Chemical Engineering and Processing, 2018, Vol. 4: Issue 2, pp 38-42.
- “Drilling studies on the prepared aluminum metal matrix composite from wet grinder stone dust particles,” Science and Engineering of Composite Materials. 20160040, ISSN (Online) 2191-0359, ISSN (Print) 0792-1233, Vol.25, Issue 3, pp 473-488, 2016

- “Studies on the influence of drilling cycle on theSurface roughness of the drilled holes”, ARPN Journal of engineering and applied sciences, vol. 11, no. 2, January 2016, pp. 1277-1280.
- “Wear Behaviour of Aluminium Metal Matrix CompositePrepared from Industrial Waste”, The Scientific World Journal, Volume 2016, Article ID 6538345, <http://dx.doi.org/10.1155/2016/6538345>, pp. 1-8.
- “Investigation on the burr formation during drilling through holes for achieving low cost reinforced Aluminium Metal Matrix Composite”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015), Research India Publications, pp. 14777-14785.
- “Optimization of the surface roughness of the drilled holes on low cost reinforced Aluminium Metal Matrix Composite”, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 19 (2015), Research India Publications, pp.14809-14820.
- “Studies on dry sliding wear behaviour of Aluminium Metal Matrix Composite prepared from discarded waste particles”, International Journal of Advanced Engineering Technology,/vol. VII/issue I/jan.-march.,2016/pp.539-543.
- ”Effective Parameters for Improving Deep Hole Drilling Process by Conventional Method - A Review”, International Journal of Engineering Research and Technology, Vol.2, 2013, Issue No.3,
- “Design and fabrication of miniaturized gear pump by rapid prototyping techniques”,International Journal of Applied Engineering Research, Volume-10, 2015, pp.604-609.
- “Drilling of Aluminium Metal Matrix Composite using Automatic Coolant System”, International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.8, 2015, pp.628-632.
- “Miniaturizing Components by Reverse Engineering and Rapid Prototyping Techniques”, International Journal of Innovative Research in Science, Engineering and Technology, Vol.2, Issue 5, pp.1832-1837.

### *International Conferences/Seminars*

- Studies on Mechanical Properties and Finite Elemental Analysis of Non-Asbestos Corrugated Cement Roofing Sheets., International conference, 6/26/2020 , Vivvekananda Inst. Of technology.Bangalore.
- Studies on the effective removal of Arsenic heavy metal ions using Egg shell powders.International conference, 6/26/2020 , Vivvekananda Inst. Of technology.Bangalore.
- “Preparation of Aluminium Foam using Recycled Beverage Cans, Na-CL salt and Discarded Dry Battery powder”, International Conference on Advanced Ceramics and Nanomaterials for sustainable development, AT Christ (Deemed to be University) on 19-21 September 2018.
- “Fatigue Test on Cost Effective Aluminium Metal Matrix Composite Prepared from Discarded Toner Powder and Coconut shell Ash Particles”, International Conference on Advanced Ceramics and Nanomaterials for sustainable development, AT Christ (Deemed to be NUiversity) on 19-21 September 2018.
- “Tribological studies on low cost reinforcement Aluminium Metal Matrix Composites – A Review” International Conference on Advanced Ceramics and Nanomaterials for sustainable development, AT Christ (Deemed to be NUiversity) on 19-21 September 2018.
- Investigation on the burr formation during drilling through holes for achieving low cost reinforced aluminium metal matrix composite in the International Conference on Advanced Engineering and Technology for Sustainable Development (**ICAETSD 2015**) held at Karpagam College of Engineering, Tamilnadu, India on 5<sup>th</sup>& 6<sup>th</sup> March 2015.
- Design and analysis of impeller of Submersible Pumps for efficient performance in the International Conference on Advanced Engineering and Technology for Sustainable Development (**ICAETSD 2015**) held at Karpagam College of Engineering, Tamilnadu, India on 5<sup>th</sup>& 6<sup>th</sup> March 2015.
- Optimization of the surface roughness of the drilled holes on low cost reinforced aluminium metal matrix composite in the International Conference on Advanced Engineering and Technology for Sustainable Development (**ICAETSD 2015**) held at Karpagam College of Engineering, Tamilnadu, India on 5<sup>th</sup>& 6<sup>th</sup> March 2015.

- Analysis of dry sliding wear behaviour of Aluminium Metal Matrix Composite using Industrial waste generated from Wet grinder stone dust particles in the International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC) held at National Institute of Technology, Tiruchirappalli, Tamilnadu, India on 27<sup>th</sup> – 29<sup>th</sup> September 2014.
- Investigations on corrosion behaviour of Aluminium Metal Matrix Composite using Industrial waste generated from Wet grinder stone dust particles in the International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC) held at National Institute of Technology, Tiruchirappalli, Tamilnadu, India on 27<sup>th</sup> – 29<sup>th</sup> September 2014.
- Presented a paper entitled “Manufacturing of Miniaturized Engineering components during the event of I<sup>st</sup> International Conference in South Asia on “Global Manufacturing systems & management” at Coimbatore Institute of Technology, Coimbatore.

#### *National Conferences/Seminars*

- Presented a paper entitled “Dry sliding wear behaviour of Aluminium Metal Matrix Composite prepared from Industrial waste- Quarry rock dust in the seventh National conference at Karpagam College of Engineering.
- Presented a paper entitled “Design and fabrication of miniaturized components by using Reverse Engineering and RPT techniques” in the seventh National conference at Karpagam College of Engineering.
- Presented a paper titled “Optimization of Mechanical stress in Diesel Engine Exhaust valve in one day national conference on optimization techniques at Karpagam College of Engineering.
- Presented a paper titled “Design of miniaturized Gear pumps by Reverse Engineering techniques” in the one day National Conference on “Innovations in Engineering and Technology” at Karpagam College of Engineering.

#### **Faculty development programs attended:**

- Participated in three days Faculty development training programme on “Kinematics of Machinery” at KSR Institute for Engineering and Technology, Tiruchengode.

- Participated in the One week Faculty Development training programme on Composite Materials and Mechanics at Karpagam College of Engineering.
- Participated in the One week Faculty Development training programme on Computer Aided Design at Karpagam College of Engineering.
- Participated in the One week Faculty Development training programme on Metrology and Measurements at Karpagam Institute of Technology.
- Participated in one Week Faculty Development Programme on “Design of transmission system” at Sri Ramakrishna college of Engineering and technology, Coimbatore.
- Participated in two week SDP on ‘Computational Intelligence for Modelling and Optimization of Manufacturing System’ at Bannari Amman Institute of Technology, Coimbatore.
- Attended one week FDP at Karpagam University.

### **Seminar and Workshop Attended:**

- Attended two days national seminar on “Strategies in enhancing research” organized by the centre for research, Anna university of technology, Coimbatore.
- Attended two days workshop on “Frontiers in corrosion engineering and technology” at Bannari Amman Institute of technology, Sathyamangalam.
- Attended DST sponsored three day workshop on “Sensor interface & integration in R&D work” at PSG college of technology, Coimbatore.
- Attended one day National Workshop on Nano and Micro Machining at Sona College of Technology, Salem.
- Attended One Day International Workshop on Innovative Engineering Research practices in Manufacturing Organisations at Karpagam College of Engineering.
- Attended a one day workshop on “Composite Materials and its technological innovation” at Karpagam College of Engineering.
- Participated in the national workshop on Ecological Awareness and Development of Renewable Energy Applications at Karpagam College of Engineering.
- Participated in one day workshop on “Intelligent product design and manufacturing” at Karpagam College of Engineering.
- Participated in two days workshop on “Optimization tools for research” at Kongu Engineering College.

- Participated in the two days workshop on “Hands on training on Matlab and its Applications in Image processing” at Karpagam College of Engineering.
- Participated one day National level workshop on “Electric vehicle Design and Fabrication Techniques at Karpagam College of Engineering.

## **SKILL SETS:**

**Software skills** : MatLab, Pro-E, Solid Works, CATIA, CADEM, Auto CAD & ANSYS

## **AREA OF INTEREST:**

- Tribology
- Design and analysis
- Computational Fluid Dynamics
- Optimization Techniques
- Material Science
- Rapid Prototyping
- Composite materials

## **Personal details:**

Date of birth : 13.05.1982  
 Marital status : Married  
 Gender : Male  
 Father's Name : Mr.M.LOURDU SAMY  
 Mother's Name : Mrs.C.MARY STELLA  
 Wife Name : F.SABITHA PRIYA MARY  
 Son Name : F.S.JAEN JASEN  
 Language Know : English & Tamil.

**Permanent Address:** 5/143, GREEN GARDEN,  
 NACHIPALAYAM  
 VAZUKUPARAI ROAD  
 COIMBATORE – 641032.  
 TAMILNADU.



**Declaration:**

I promise that the above said information is true to the best of my knowledge.

**Thank you**

**Yours truly**

**Dr. L.FRANCIS XAVIER**