

Reginald Lourd Raj R

ASSISTANT PROFESSOR IN MECHANICAL ENGINEERING

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Education

AUG 2010 - JUL 2012	Indian Institute of Science, Bangalore M.E. Aerospace Engineering Thesis: <i>An Experimental Investigation of the Noise produced by Air Jet Impingement on a Flat Plate.</i>
AUG 2006 - APR 2010	Anna University, Chennai B.E. Mechanical Engineering

Teaching Experience

OCT 2012 – JUNE 2013	Assistant Professor SRM University, Chennai. Department of Aerospace Engineering - Taught weekly lectures in courses on Fluid Mechanics and Propulsion. - Designed and implemented a change in course curriculum.
SEP 2022 – DEC 2025	Lecturer Central Polytechnic College, Chennai. Department of Mechanical Engineering - Taught weekly lectures in courses on Fluid Mechanics, Thermodynamics and Solid Mechanics. - Assistant to the Controller of Examinations, Central Polytechnic College, Chennai.
DEC 2025- PRESENT	Assistant Professor University VOC College of Engineering, Thoothukudi, Department of Mechanical Engineering - Taught weekly lectures in courses on Thermal Engineering, Heat & Mass Transfer, Engineering Mechanics, Design of Machine Elements, CAD/CAM Lab, Makerspace. - Placement Coordinator, Department of Mechanical Engg.

Coursework at IISc

MATH	Linear Algebra Numerical Methods Ordinary Differential Equations Partial Differential Equations	
MECH & AERO	Fluid Mechanics Fluid Turbulence Turbulent Shear Flows Boundary Layer Theory Thermodynamics Mechanics and Thermodynamics of Propulsion Aircraft Engines Rocket Propulsion Liquid Propellant Rockets Computational Fluid Flow & Heat Transfer	Computational Gas Dynamics Fundamentals of Acoustics Acoustics of Ducts and Mufflers Finite Element Method Solid Mechanics Finite Element Method Variational Methods and Optimization Vibration of Plates & Shells Structural Acoustics Flight Vehicle Structures

NPTEL COURSES COMPLETED

JUL-DEC 2024	Microfluidics & Nanofluidics <i>Prof. Suman Chakraborty, IIT Kharagpur</i> Topper; 87%	https://onlinecourses.nptel.ac.in/noc24_me118/preview
JUL-DEC 2024	Interfacial Fluid Mechanics <i>Dr. Harish N Dixit, IIT Hyderabad</i> Topper, 91%	https://onlinecourses.nptel.ac.in/noc24_me128/preview
JAN-APR 2026	Mathematical Foundations of Machine Learning <i>Dr. Prathosh A P, IISc, Bangalore</i> Top 1%, 85%	https://nptel.ac.in/courses/106108841
JAN-APR 2026	Microhydrodynamics <i>Dr. Anubhab Roy, IIT Madras</i> Topper, 86%	https://nptel.ac.in/courses/112106911

Interests

Fluid Mechanics

Microfluidics & Bioengineering

Acoustics & Sonic Booms

Machine Learning and Generative AI

Research Experience

Aug 2013 - Dec 2019	Research Assistant Indian Institute of Science, Bangalore Focusing of Sonic Booms.
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Awards & Honors

APR 2010	Gold Medal – College Topper in B.E. Mechanical Engg. A.C. College of Engg. & Tech., Karaikudi
FEB 2010	Secured AIR-99 in GATE-2010 Exam
JUNE 2022	Secured State First Rank in Recruitment Exam for Lecturer in Govt. Polytechnic Colleges of Tamilnadu.
OCT 2025	Secured State First Rank in Recruitment of Assistant Professors in UCE and RC, Anna University.

Language & Additional Skills

English – Read & Write

Tamil – Read & Write

References

Dr. S V Raghurama Rao

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Engineering, Indian Institute of Science, Bangalore
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Dr. S. Geetha

Associate Professor, Department of Mechanical Engineering,
Alagappa Chettiar Govt. College of Engg. & Tech., Karaikudi
gitskumares@gmail.com