

CURRICULUM VITAE

Name : Dr. K.K. Ramachandran

Designation } Professor, Department of Mechanical Engineering,
& Affiliation } Government Engineering College, Thrissur – 680009, Kerala, India



Degrees Earned

- PhD in Mechanical Engineering: Materials Engineering - Anna University
 - M Tech in Mechanical Engineering: Mechanical Engineering (Energy) - NIT Calicut
 - B Tech in Mechanical Engineering - Calicut University
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Areas of research interest

Materials Engineering: Welding and joining – FSW, fusion welding (TIG, MIG, etc); surfacing and cladding – FSP, FS, coatings, ... ; metal matrix composites – production and characterization; corrosion characterization; etc.

Energy systems : Renewable energy; cyclic and non-cyclic energy conversion systems – fuel cells, thermoelectric generators, ... ; numerical simulation, alternate fuels, etc.

Professional Experience

- Government Engineering College Thrissur: from 20th October 2000 to till date as Assistant/Associate Professor/ Professor
 - District Consumer Disputes Redressal Forums, Kerala: from 1999 onwards as Govt. Nominated Expert Commissioner (carried out more than 250 inspections so far)
 - Industry/Govt. Departments: 6 Years
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Professional Committee Activities

- Life Member, Indian Welding Society
 - Member, Indian Institute of Welding
 - Member, Indian Society for Technical Education
 - Member, Indian Society of Metals
 - Member, International Association of Engineers
 - Fellow Institution of Engineers (India)
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Research Activities

- Investigation on FSW of dissimilar Al alloys and steels
 - Investigation on FSW of austenitic stainless steels and tool development
 - Investigation on TIG welding of dissimilar high strength steels and stainless steels
 - Experimental and numerical investigation on PEM/Solid Oxide fuel cells
 - Investigation on development of hybrid magnesium matrix composites and their processing
 - Investigation on alternate fuels for IC engine
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Ph. D. Guidance

- As Supervisor – 4 Scholars
 - As Co-supervisor – 1 Scholar
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Reviewer of International Journals

- Archives of Civil and Mechanical Engineering published by Elsevier
 - Transactions of Non Ferrous Metal Society of China published by Elsevier
 - Materials Engineering and Performance (ASM) published by Springer
 - Journal of Defence Technology published by Elsevier
 - Advances in Mechanical Engineering published by SAGE
 - Indian Journal of Material Sciences and Engineering published by NISCAIR
 - Journal of Material Processing Technology published by Elsevier
 - Journal of Advances in Mechanical Engineering published by Sage
 - Journal of Materials Science and Engineering A published by Elsevier
 - Journal of Material Characterization published by Elsevier
 - Journal of Engineering Applications of Computational Fluid Mechanics published by Taylor & Francis
 - Metallurgical and materials transactions A published by Springer
 - International Journal of Mechanical and Materials Engineering published by Elsevier
 - Progress in Natural Science: Materials International published by Elsevier
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Other achievements

- Best Speaker Award in international conference abroad – 1 (7th Global conference on Materials Science and Engineering: CMSE 2018, 1 - 4 November 2018 at Xi'an Technological University, Xi'an, China)
- Best paper award in international conferences in India – 4
- Technical / Advisory Committee Member of International Conferences – 4 (1 abroad – World Symposium on Materials Science and Engineering, WSMSE 2017, 15 -17 March 2017, Hong Kong)
- Participated as Invited Speaker in International Conferences abroad – 4
- Participated as Keynote Speaker/Invited Speaker in Conferences / FDPs in India – More than 50 (including, IITs, NITs, PSG Tech and Govt. Engineering Colleges in Kerala and Tamil Nadu)
- Chaired Sessions in International Conferences in India and abroad – 8 (including CMSE2018 & 2019 in China and PFAM XXIII at IIT Roorkey)
- FDPs / Workshops organised – 4.
- Publications in peer reviewed International Journals – 23 (Citations - 179 and h-index 7)
- Publications in National / International Conferences - 44