



Dr Ravishankar K S

Associate Professor



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EDUCATION

PhD-2007

NITK-Surathkal

M.Tech.(Materials Engg.) – 2000

NITK-Surathkal

B.E.(Mechanical)-1996

MCE-Hassan

PUC-1991

Vittal Junior College-D.K.

SSLC-1989

Vittal Junior College-D.K.

PROFILE

My name is Dr Ravishankar K S, working as an Associate Professor in Metallurgical and Materials department, National Institute of Technology Karnataka Surathkal.

Areas of Interest:

Composite materials, Phase transformation, Structure-Mechanical property relationship in materials, surface Engineering.

WORK EXPERIENCE

As a maintainace Engineer in TVS Suzukin Ltd, Hosur from Dec. 1996 to April 1998.As a senior Research Fellow and assistant lecturer in the Department of Metallurgical and Materials Engineering, NITK-Surathkal from Aug. 2000 to October 2008. Joined as a permanent faculty in the same Department in the year of Dec-2008.

Project work during M.Tech:

Tempcore treatment on plain carbon steels

RESEARCHS

Design and development of Austempered Ductile iron for high strength and fracture toughness

AWARDS

Best technical paper award for the paper "Austempered ductile iron for high strength and high fracture toughness", "International Foundry Research" during Feb-2010

Funded Projects

Development of structural polymer composites from natural fiber/particulate reinforced materials
Funding Agencies-VGST Govt. of Karnataka

List of Publications :

Conferences attended:

1. "Recent Developments in Advanced Materials", 16th – 21st June 2008 at NITK-Surathkal.
2. "Emerging Areas of Technology in Smart materials and Manufacturing", 30th June – 5th July 2008 at NITK-Surathkal.

Project Guidance :

M.Tech : 13

PhD Project:

PhD:6

(1 is in progress).

1. Improvement in Fracture toughness of Austempered Ductile Iron by two step Austempering process. International Journal of Cast metal Research, 2010 vol 23, No.26
2. "Influence of austenitising temperature on the formation of strain induced martensite in austempered ductile iron", J.Materials Science, vol.43, 2008, pn: 4929-4937.
3. "Surface Modification of Compositionally Modulated Multilayered Zn-Fe Alloy Coatings", Chinese Journal of Chemistry, vol.26, 2008, pn:2285-2291.
4. "Austempered ductile iron for high strength and high fracture toughness", "International Foundry Research, vol.60(3), 2008, pn:26-32.
5. "Surface Modification by Compositionally Modulated Multilayered Zn-Fe Alloy Coatings", " Chinese Journal of Chemistry", 2008, Vol.26, pn:2285-2291.
6. "Recycling of Cr-Co alloy for Dental applications", " International Journal of Health and Rehabilitation Sciences", Vol. 2 (3), 2013, pn: 140-145.
7. " Journal of evolution of medical and dental sciences", Vol.2 (32), 2013, pn:5971-5979.
8. "Ballistic Performance Study of Kevlar29 Fibre Reinforced Polyester Composite", "Solid State Phenomena (Volume 287)".
9. "Ballistic Impact Study on Jute-Epoxy and Natural Rubber Sandwich Composites", Volume 5, Issue 2, Part 2, 2018, Pages 6916-6923.
10. "Effect of machine scatter on the rotating bending fatigue life of materials", "Journal of the Mechanical Behavior of Materials", Volume 27 Issue 3-4.
11. "Flexural strength of hydrogen plasma-treated polypropylene fiber-reinforced polymethyl methacrylate denture base material", "J Indian Prosthodont Soc." 2018 Jul-Sep; 18(3): 257–262.
12. "Influence of High Mn-Cu-Mo on Microstructure and Fatigue characteristics of Austempered Ductile Iron", "IOP Conf. Ser.: Mater. Sci. Eng."
13. "Mechanical properties of fly ash reinforced aluminium alloy (Al6061) composites", "International Journal of Mechanical and Materials Engineering", Volume 6, Issue 1, Pages 41 - 45 2011
14. "Performance study of jute-epoxy composites/sandwiches under normal ballistic impact", Defence Technology, 16, Issue 4, Pages 947 – 955, August 2020
15. "An Optimization Study on Material Selection for FRPCs in Multi Layered Armour System Through Hybrid MCDM Approach and Numerical Simulation", October 2022, Materiale Plastice 59(3):205.
16. "Investigation on Hybrid Polyester Composite Comprising of Sisal and Coir as a Reinforcement and Fly Ash as Filler" "Intelligent Manufacturing and Energy Sustainability". pp 251–260
17. "Impact analysis of natural fiber and synthetic fiber reinforced polymer composite", "AIP Conf. Proc." 1953, 130003 (2018).
18. "Mechanical Characterization and Finite Element Analysis of Jute-Epoxy Composite", MATEC Web Conf. Volume 144, 2018.
19. "Study on Ballistic Energy Absorption Capability of Glass-Epoxy and Jute-Epoxy-Rubber Sandwich Composites", Materials Science Forum (Volume 928).
20. "Effect of Austempering Heat Treatment Parameters on the Microstructure and Dry Sliding Wear Behaviour of AISI 9255 High Silicon Steel", "Materials Today: Proceedings", Volume 4, Issue 10, 2017, Pages 10757-10763.
21. "Effect of Heat Treatment on the High Cycle Fatigue Behaviour of S2205 Duplex Stainless Steels", "Materials Today: Proceedings", Volume 4, Issue 10, 2017, Pages 10798-10802.
22. "Synthesis and comparison of mechanical behavior of fly ash-epoxy and silica fumes-epoxy composite", "IOP Conference Series: Materials Science and Engineering", 2017.
23. "Influence of Austempering Heat Treatment on Microstructure and Mechanical Properties of Medium Carbon High Silicon Steel", "IOP Conf. Ser.: Mater. Sci. Eng. 225 012006".