

Dr. Anil K C

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Education:

#	Degree	Year	Institute	Specialization
1	Ph.D.	2021	Visvesvaraya Technological University,, Belagavi	Composite Materials
3	M.Tech	2013	Vidya Vikas Institute of Engineering and Technology, Mysore	Production Technology
4	B.E	2010	Siddaganga Institute of Technology, Tumkur	Industrial Engg. & Management

Professional Experience:

#	Date (from-to)	Designation	Organization
1	08-08-2014 to till date	Assistant Professor	SIT-Tumakuru
2	10-06-2010 to 30-06-2011	CAD- Engineer	CADD Centre

(Please fill in reverse order. Current designation should be at the top)

Positions held:

1. Co-convenor for ICSMMIE 2022 held on 1st and 2nd July 2022 at SIT Tumkur.
2. Departmental Faculty Coordinator for Institute Innovation Council.
3. Faculty Coordinator Social Media- Institute Level
4. Departmental Major/Mini Project Coordinator.
5. SC/ST and BCM Committee member – Institute Level
6. Redressal of Grievances of Students committee Member - Institute Level
7. Member of Curriculum Development Committee (CDC)
8. Member of Department Seminar Evaluation Committee (DSEC)

Affiliations of Professional organizations:

- Professional Member (MIEOM) – IEOM Society

Courses Taught:**Undergraduate Courses**

- Material Science and Metallurgy
- Materials and Manufacturing Process
- Manufacturing Process-II
- Manufacturing Process-III
- CAD/CAM
- Advance materials technology
- Advance manufacturing Process
- Machine tool Technology
- Industrial Hydraulics & pneumatics
- Rapid Prototyping
- Automation in manufacturing systems
- Elements of Manufacturing Automation
- Non-Traditional Machining
- Universal Human Values

Postgraduate Courses

- Rapid prototyping
- Industrial Robotics
- Concurrent Engineering

Research Guidance:

#	Name of the Scholar	Title	Year of completion
1	Imran Ali M R	Development, Tribological and Corrosion Behaviour of Metallic and Non-Metallic Chilled Aluminium Lithium Alloy Reinforced with Boron Carbide (B4C) MMC	On Going

Research Areas:

- Metal Matrix Composites
- Polymer composites

- Manufacturing
- Optimization techniques
- Tribology

Certification Courses:

- Introduction to Machining and Machining Fluids- NPTEL – IIT Tirupathi
- Materials Science and Engineering- NPTEL – IIT Roorkee
- Manufacturing Process Technology I & II- NPTEL – IIT Kanpur

Publications:

Journals

- Anil K.C, Kumaraswamy J, Prabhushankar G.V, Sahana S. (2025) 'Role of Solid Lubricant and Bauxite Residue on the Tribological Behaviour of Aluminium Hybrid Composites' Tribology in Industry, Vol. 47, pp. 164-173
- J.Kumaraswamy, L. Bharath , K.C. Anil , T.M. Geetha , R. Nagesh, "Results in mechanical properties and wear behaviour of AA6061-Si3N4 composites" Results in Surfaces and Interfaces, 18 (2025), <https://doi.org/10.1016/j.rsurfi.2024.100376>
- Kyathasandra Chikkanna Anil, Kuchangi Venkatappa Manjunath , Kumaraswamy Jayappa , Mahadeva Reddy , Akash Biradar, "Effect of Chilling & B4C Content on Machining Efficiency and Surface Quality in Wire-Cut Machining of Aluminum Matrix Chilled Composites" Mechanics of Advanced Composite Structures, Vol. 11 (2), pp. 341-350. <https://doi.org/10.22075/MACS.2024.31090.1528>
- Kumaraswamy Jayappa, Kyathasandra Chikkanna Anil, Zulfiqar A. Khan*, "Enhancing wear resistance in Al-7075 composites through conventional mixing and casting techniques" Journal of Materials Research and Technology 27 (2023) pp-7935–7945, <https://doi.org/10.1016/j.jmrt.2023.11.171>
- J Kumaraswamy, K C Anil, T R Veena, Mahadeva Reddy & K Sunil Kumar (12 Nov 2023): Influence of particulates on microstructure, Mechanical and Fractured behaviour on Al-7075 alloy composite by FEA, Australian Journal of Mechanical Engineering, <https://DOI:10.1080/14484846.2023.2276987>
- J. Kumaraswamy, K. C. Anil, Canan Aksu Canbay & N. D. Shivakumar, "Electro-Whirling Stir Casting: a Novel Approach for Fabricating Al7075/SiC MMCs with Enhanced Thermal Characteristics" Silicon, 2023, <https://doi.org/10.1007/s12633-023-02678-y>
- Kumaraswamy J*, Anil K C, T R Veena, G. Purushotham, Sunil Kumar K, "Investigating the Mechanical Properties of Al 7075 Alloy for Automotive Applications: Synthesis and Analysis" EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 03, pp1286-1295, September 2023.

- Sharan kumar, Akash, Anil K C*, Kumaraswamy J, “ Solid Particle Erosion Performance of Multi-layered Carbide Coatings (WC-SiC-Cr₃C₂)” EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 02, pp813-819, June 2023, <https://doi.org/10.5109/6792833>
- Anil K C, Kumaraswamy, Mahadeva Reddy, Mamatha K M, “Air Jet Erosion studies on Aluminum - Red Mud Composites using Taguchi Design.” EVERGREEN Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy, Vol. 10, Issue 01, pp130-138, March 2023, <https://doi.org/10.5109/6781059>
- Praveen B. B., Sanman S., Anil K. C., Prashanth K. P., & Lava Kumar K. S. (2023). “Predicting the Effective Properties of Unidirectional Composites Through Numerical Simulation.” Journal of Mines, Metals and Fuels, 71(2), 267–276. <https://doi.org/10.18311/jmmf/2023/33392>
- K. C. Anil, A. B. Hemavathi, A. Adeeb pasha, “Mechanical and fractured surface characterization of epoxy/red mud/fly ash/aluminium powder filled hybrid composites for automotive applications” Frattura ed Integrità Strutturale, 64 (2023) Pp- 93-103; <https://DOI: 10.3221/IGF-ESIS.64.06>
- K.C. Anil, J. Kumaraswamy, Akash , S. Sanman, “Experimental arrangement for estimation of metal-mold boundary heat flux during gravity chill casting” Materials Today: Proceedings 72 (2023) 2013–2020, <https://doi.org/10.1016/j.matpr.2022.07.399>
- J. Kumaraswamy , K.C. Anil , Vidyasagar Shetty, “Development of Ni-Cu based alloy hybrid composites through induction furnace casting” Materials Today: Proceedings 72 (2023) 2268–2274, <https://doi.org/10.1016/j.matpr.2022.09.215>
- Mohan H S, Anil.K.C, K.V.Sreenivas Rao, T. P. Bharathesh, “A Novel Foil Developed with Cu-Ag-Ti for Joining Alumina Ceramic and Titanium Alloy: Development and Characterization” International Journal of Engineering Research & Technology (IJERT), Vol. 12 Issue 03, March-2023, pp-246-251.
- Kumaraswamy, Anil K. C., Vidyasagar Shetty & C Shashishekar (2022): Wear behaviour of the Ni-Cu alloy hybrid composites processed by sand mould casting, Advances in Materials and Processing Technologies, DOI: 10.1080/2374068X.2022.2092684
- Anil K C*, Kumaraswamy, Mahadeva Reddy, Bhograj Prakash, “ Mechanical behavior and fractured surface analysis of bauxite residue and graphite reinforced aluminum hybrid composites” Frattura ed Integrità Strutturale, 62 (2022) 168-179; <https://DOI: 10.3221/IGF-ESIS.62.12>
- Sanman.S, Prashanth K P, Anil K C, Venkatesha B K, Gopal Krishna U B & Yuvaraj L “Effect of percentage of reinforcement particulates on the corrosion behaviour of aluminium boron carbide composites” Journal of Mines, Metals & Fuels, Vol.69, No.12a, Dec, 2021, Pp- 250-254. <https://doi.org/10.18311/jmmf/2021/30111>

- Anil.K. C “Evaluation of Wear Behaviour of Al-8011Alloy Reinforced with Red Mud” International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 9, Issue 6, June 2020, pp 5037-5041.
- Harshavardhan R, Anil K.C. K.V Sreenivas Rao, “Evaluation of Fracture Toughness of Red Mud Reinforced Aluminium Matrix Composite” Materials Today: Proceedings 5 (2018) pp 24854–24861. [DOI:10.1016/j.matpr.2018.10.284](https://doi.org/10.1016/j.matpr.2018.10.284)
- Anil.K.C, Sachin Gadge, Rishabh Kumar Srivastva K.V.Sreenivas Rao “Three-Body Abrasive Wear Behavior of Al-8011 alloy Reinforced with Graphite and Red Mud Particulates” International Journal of Science, Engineering and Management (IJSEM), Vol 2, Issue 2, February 2017,pp-29-33
- Girisha K G, K.V. Sreenivas Rao, Anil.K.C, Sanman.S “Experimental investigation on erosive wear behaviour of plasma spray coated stainless steel”, Materials Science and Engineering, 191 (2017) 012022 DOI:10.1088/1757-899X/191/1/012022
- Anil.K.C, M.G.Vikas, Shanmukha Teja.B, K.V.Sreenivas Rao, “Effect of cutting parameters on surface finish and machinability of graphite reinforced Al-8011matrix composite” Materials Science and Engineering, 191 (2017) 012025. DOI:10.1088/1757-899X/191/1/012025
- K.V.Sreenivas Rao, Anil.K.C, Akash, Girisha.K.G, “Effect of Particle Size on Mechanical Properties of Al-RMp Metal Matrix Composites”, Materials Today: Proceedings, Science Direct (2017) pp- 11154–11157. DOI:10.1016/j.matpr.2017.08.080
- Latha Shankar, B.;Nagaraj, P. M.;Anil, K. C “ Optimization of Wear Behaviour of AA8011-Gr Composite using Taguchi Technique” Materials Today: Proceedings, Volume 4, Year 2017, Pages 10739-10745. DOI:10.1016/j.matpr.2017.08.021
- K. V. Sreenivasrao, Anil. K. C., Girish K. G. and Akash, “Mechanical characterization of red mud reinforced Al-8011 matrix composite” ARPN Journal of Engineering and Applied Sciences, vol. 11, no. 1, January 2016,pp-229-234
- Girisha K. G., Anil K. C., Akash and K. V. Sreenivas Rao, Investigation Of Hvf Thermal Sprayed Micro B4c, Micro- 1%, 2%, 3% Nano B4c Coatings on Dry Sliding Wear Performance of 410 Grade Steel” ARPN journal of engineering and applied sciences, vol. 11, No. 1, January 2016, pp 247-252
- Harishchandra, R.S. Kadadevaramath and K.C. Anil, “Effect of tool material on machinability of TiCp reinforced Al-1100 composite” IOP Conf. Series: Materials Science and Engineering 149 (2016) 012026. DOI:10.1088/1757-899X/149/1/012026
- Latha Shankar, B. Anil, K. C. Patil, Rahul “ A Study on 3-Body Abrasive Wear Behaviour of Aluminium 8011 / Graphite Metal Matrix Composite” IOP Conference Series: Materials Science and Engineering, Volume 149, Year 2016. DOI:10.1088/1757-899X/149/1/012099
- Shankar, B. Latha Anil, K. C. Karabasappagol, Prasann J “A Study on Effect of Graphite Particles on Tensile, Hardness and Machinability of Aluminium 8011

Matrix Material” IOP Conference Series: Materials Science and Engineering, Volume 149, Year 2016. DOI:10.1088/1757-899X/149/1/012060

- Girisha K G, Anil K C & Akash, “Mechanical Properties of Jute and Hemp reinforced Epoxy/Polyester Hybrid Composites”, International Journal of Research in Engineering & Technology (IMPACT: IJRET) ISSN (E): 2321-8843; ISSN (P): 2347-4599 Vol. 2, Issue 4, Apr 2014, pp 245-248.
- Girisha. K. G, Durga Prasad, Anil.K.C, Dr. K. V. Sreenivas Rao “Dry Sliding Wear Behaviour of Al₂O₃ Coatings for AISI 410 Grade Stainless Steel”, Applied Mechanics and Materials Vol.- 766-767 (2015), Trans Tech Publications, Switzerland, pp 585-589
- Akash, Anil. K. Chikkanna, Girisha. K.G, K.V.Sreenivas Rao “Effect of Fibre Orientation on Specific Gravity, Hardness, Flexural Strength and Tensile Properties of Jute/Hemp Hybrid Laminate Composite” Applied Mechanics and Materials Vol. 766-767 (2015), Trans Tech Publications, Switzerland, pp 75-78.
- Girisha.K.G Anil.K.C Akash K.V.Sreenivas Rao “Dry Sliding Wear behaviour of B₄C Coating on AISI 410 Stainless Steel Deposited by HVOF Spraying” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, (2015), Research India Publications, pp 10270-10275
- Sanman.S, Dr. K. V. Sreenivas Rao, Anil. K. C “Effect of Mold Material on Boundary Heat Flux Transients during Gravity Die-Casting” Applied Mechanics and Materials Vol. 766-767 (2015) Trans Tech Publications, Switzerland, pp 405-409. <https://doi.org/10.4028/www.scientific.net/AMM.766-767.405>
- Girisha.K.G, Anil.K.C, Rakesh.R, K.V.Sreenivas Rao “Dry Sliding Wear Behaviour of Ni-Cr/Micro-ZrO₂ Coated AISI 410 Grade Steel” Applied Mechanics and Materials Vol. 787 (2015) Trans Tech Publications, Switzerland, pp 454-459. <https://doi.org/10.4028/www.scientific.net/AMM.787.454>
- Dr. B. Adaveesh, Anil.K.C, Vishwas. M, Archana. R. P “Development and Property Evaluation of Fiber Reinforced Hybrid Epoxy Laminate Composite: Jute/E-Glass/Carbon-Fabric” Applied Mechanics and Materials, Vol. 787 (2015) Materials Trans Tech Publications, Switzerland, pp 534-537
- Akash, Anil K Chikkanna, K V Sreenivas Rao, N S Venkatesha Gupta “Evaluation of Mechanical Properties of Epoxy Resin and Alkaline Treated Sisal and Flax Fibers Reinforced Composites” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.78 (2015),pp113-116
- Akash, Anil K Chikkanna, K V Sreenivas Rao, N S Venkatesha Gupta “Evaluation of Mechanical Properties of Sisal Fiber-Epoxy resin- Pulp of Samanea saman Pod Hybrid Composite” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.78 (2015) pp104-107

Invited Lectures, talks and workshops:

- Delivered invited talks on Research Opportunities on Sustainable Mineral Red Mud during One Week Faculty Development Program on Innovation in Engineering Arena Connected with Industry 4.0 - 17th to 21st April 2023 in R. L. Jalappa Institute of Technology Doddaballapur-561 203