



JSS Mahavidyapeetha

JSS Academy of Technical Education

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060


www.jssateb.ac.in



FACULTY PROFILE

Department: MECHANICAL ENGINEERING

1. Personal Details

| | | |
|---------------------------|---|---|
| NAME | Dr. ANIL KUMAR K.S |  |
| DEPARTMENT | Mechanical Engineering | |
| DESIGNATION | Assistant Professor | |
| PHONE | 9741207020 | |
| EMAIL ID | anilkumarks@jssateb.ac.in anilkumar_aks@rediffmail.com | |
| Date of Joining (JSSATEB) | 19/09/2008 | |

2. Experience

| | | | |
|---------------------------|--------------------|---------------|--------------------|
| Total Experience in Years | Teaching: 16 Years | Industry: Nil | Research: 05 Years |
|---------------------------|--------------------|---------------|--------------------|

3. Qualifications

| COURSES | SPECIALIZATION | Year of Award | INSTITUTION | UNIVERSITY |
|-----------|--------------------------------------|---------------|--|----------------------|
| B.E | Mechanical Engineering | 2001 | Sri Siddartha Institute of Technology (SSIT), Tumkur | Bangalore University |
| M.Tech | Maintenance Engineering | 2004 | Sri Jayachamrajendra College of engineering(SJCE), Mysore | VTU, Belagavi |
| Ph.D. | Friction stir welding and processing | 2019 | National Institute of Technology Karnataka (NITK), Surathkal | NITK, Surathkal |
| Post Doc. | | | | |
| Others | | | | |

4. Research & Publications

| | | |
|---|-------------------|--------------|
| Papers Published in Web of Science indexed Journals | International: 07 | National: -- |
| Papers Published in SCOPUS indexed Journals | International: 01 | National: -- |
| Papers Published in other Journals | International: | National: |

| | | |
|---|---|-----------|
| Papers Presented in Conferences / Symposium | International: 05 | National: |
| Books / Book chapters Published | Name of the book: -- Advances in Additive Manufacturing and Joining. Lecture Notes on Multidisciplinary Industrial Engineering Publisher: Springer. Year of Publication: 2019 | |
| | Name of the book: -- Advancements in Manufacturing Systems and its Optimization Publisher: AAP-CRC Press (Taylor and Francis Group) publications Year of Publication: 2021 | |

5. Research Guidance

| | | |
|------------------------------------|--|--|
| PhD Guide? Give field & University | | University: |
| PhDs / Projects Guided | Ph.D. Awarded: -Nil- Guiding: -Nil- | Projects at Master's Level: 02 Projects at Bachelor's Level: 14 |

6. Grants

i. Funds Received (Projects)

| Project Name | Grant Amount, Rs. | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|--------------|-------------------|-----------------------------|----------|--|
| Nil | | | | |
| Nil | | | | |

ii. Patents

| Sl. No. | Title Details | Details of award of patent / Filed |
|---------|---------------|------------------------------------|
| | Nil | |
| | | |

iii. Consultancy

| Title of the work | Amount in Rs. | Date of receiving the Grant | Duration | Grant issuing authority/ Body / Organization |
|-------------------|---------------|-----------------------------|----------|--|
| Nil | | | | |
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7. Awards Received

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|---|-----|
| 1 | Nil |
| 2 | |

8. Member of BOS/ BOE/ Board/ Governing Council/ Committees (University or State Level)

| Sl. No. | Name of the Committee | Position | From Date | To Date | Name of the University/ Organization/ Board |
|---------|-----------------------|----------|-----------|---------|---|
| 1 | Nil | | | | |
| 2 | | | | | |

iii. Conferences

| Sl. No. | Title of the paper | Name(s) of Author(s) | Name of the Journal Conference | Volume No. Issue No. Year | WOS / Scopus | Impact Factor | Publisher |
|---------|--|---|--|---|----------------|---------------|---|
| 1. | Effect of tool rotation speed on microstructure and tensile properties of FSW joints of 2024-T351 and 7075-T651 reinforced with SiC nano particle: The role of FSW single pass. | Anil Kumar, K.S., Murigendrapa, S.M., Hemantha Kumar, and Himanshu shekar | International conference on Design, Materials and Manufacture (IcDEM 2018), 29 th -31 st January 2018, NITK Surathkal, India | Vol. 1943, No. 1, 020056. AIP Conference Proceedings https://doi.org/10.1063/1.5029632 | WOS Indexed | Nil | AIP Publishing, , |
| 2. | Influence of tool probe offset and varying traverse speed on microstructure and mechanical properties of FSW dissimilar joints of AA2024-T351 and AA7075-T651 | Anil Kumar, K.S., Murigendrapa, S.M., & Hemantha Kumar | 7th International and 28th All India Manufacturing Technology, Design and Research conference (AIMTDR 2018), College of Engineering (CEG), Anna University, Chennai, India | ISBN : 978-981-32-9432-5, pp 555-567 Year : 2019 https://doi.org/10.1007/978-981-32-9433-2_48 | WOS Indexed | Nil | Springer Publications, |
| 3. | Effect of SiC nano particles on grain stability of friction stir processed AA7075. | Anil Kumar, K.S., H. Rajneesh, & H.C. Madhu | International Conference on Materials and Manufacturing Methods (MMM 19), National Institute of Technology, Trichy held from 5 th -7 th July, 2019. | Volume 27, Part 3, Pages 2586-2590, Year : 2020, https://doi.org/10.1016/j.matpr.2019.11.028 | WOS Indexed | 1.09 | Materials Today Proceedings |
| 4. | Experimental investigations to find the effect of post weld heat treatment (PWHT) on the microstructure and mechanical properties of FSW dissimilar joints of AA2024-T351 and AA7075-T651. | K.S. Anil Kumar and K.B.Yogesha | International conference on Advancement in Materials, Manufacturing and Energy Engineering (ICAMME 2021), Maulana Azad National Institute of Technology (MANIT), Bhopal held from 18 th -20 th February 2021 | Year : 2021 https://doi.org/10.1016/j.matpr.2021.01.867 | WOS Indexed | 1.09 | Materials Today Proceedings |
| 5. | Experimental Investigations On Effect Of Tool Welding Speed On Microstructure And Tensile Properties of FSW Dissimilar Joints Reinforced | Anil Kumar, K.S., H. Rajneesh, & H.C. Madhu | International conference on Industrial and Manufacturing Systems (CIMS-2020), held from October 9th-11th 2020 at Dr. Ambedkar | Year : 2021 Book Chapter is under process in Edited Book Title: Advancements in Manufacturing | SCOPUS indexed | -- | AAP-CRC Press (Taylor and Francis Group) publications |

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|--|-------------------------|--|---|------------------------------|--|--|--|
| | with SiC Nano Particles | | National Institute of Technology (NITJ), Jalandhar, Punjab. | Systems and its Optimization | | | |
|--|-------------------------|--|---|------------------------------|--|--|--|

iv. Workshops /Conferences Attended

| Sl. No. | Name of the workshop / Conference | Organiser | Date |
|---------|---|---|--------------------------|
| 1. | International conference on Design, Materials and Manufacture (IcDEM 2018), | NITK Surathkal, India | 29-01-2018 to 31-01-2018 |
| 2. | 7th International and 28th All India Manufacturing Technology, Design and Research conference (AIMTDR 2018) | College of Engineering (CEG), Anna University, Chennai, India | 13-12-2018 to 15-12-2018 |
| 3 | International Conference on Materials and Manufacturing Methods (MMM 19) | National Institute of Technology, Trichy | 5-7-2019 to 7-07-2019 |
| 4. | International conference on Advancement in Materials, Manufacturing and Energy Engineering (ICAMME 2021) | Maulana Azad National Institute of Technology (MANIT), Bhopal | 18-02-2021 to 20-02-2021 |
| 5. | International conference on Industrial and Manufacturing Systems (CIMS-2020), | Dr. Ambedkar National Institute of Technology (NITJ), Jalandhar, Punjab | 9-10-2020 to 11-10-2020 |

v. Workshops / Conference (Orgained)

| Sl. No. | Name of the workshop / Conference | Organised by | Date | Role |
|---------|---|--|-----------------------|--------------|
| 1. | Two days National Conference on 'Emerging Trends in Materials, Design and Manufacturing' (NCMDM 2019) | Organized by Department of Mechanical Engineering, JSSATEB | May 17th - 18th, 2019 | Co-ordinator |
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vi. Workshops / Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)

| Sl. No. | Name of the workshop / Conference | Organiser | Date |
|---------|---|--|--------------------------|
| 1 | Five-days National Workshop on "Composite materials in Engineering Applications : Design and Manufacturing Perspective" held at IIT Mandi, Himachal Pradesh. | IIT, Mandi, | 15/1/2018 to 19/1/2018 |
| 2 | Two-days National Workshop on "Computational Dynamics" organized by Department of Mechanical Engineering , NITK, Surathkal | National Institute Of Technology Karnataka (NITK), Surathkal | 26/09/2016 to 27/09/2016 |
| 3 | Two-days National Workshop on "Materials for Biomedical and specialty Application " organized by Department of Metallurgical and Materials Engineering, NITK, Surathkal | National Institute Of Technology Karnataka (NITK), Surathkal | 23/01/2017 to 24/01/2017 |
| 4 | Two-days National Workshop on "Advances in stress Analysis and Dynamics" organized by Department of Mechanical Engineering,NITK, Surathkal | National Institute Of Technology Karnataka (NITK), Surathkal | 16/03/2017 to 17/01/2017 |
| 5 | Faculty development programme on "Emerging Trends in Mechanical Engineering(eTIME 2015)" | SJEC, Mangalore | 7-8-2015 |
| 6. | Two weeks TEQUIP-II sponsored STTP training programme on " Modelling and Simulation" held at Goa College of Enggineering , Farmagudi, Ponda, Goa from 7th DEC 2015– 18th DEC 2015 | Goa College of Enggineering , Farmagudi, Ponda, Goa | 7-12-2015 to 18-12-2015 |
| 7 | TEQUIP-II sponsored Two-Days National Workshop on " Computational Dynamics", Department of Mechanical Engineering, NITK , Surathkal | National Institute Of Technology Karnataka (NITK), Surathkal | 26-9-2016 to 27-09-2016 |

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| 8 | one day workshop on "Research Methodology and Structural Equation Modeling" on November 16, 2014 | National Institute Of Technology Karnataka (NITK), Surathkal | 16-11-2014 |
| 9 | 3days AICTE sponsored workshop on "Smart Materials, Structures and Systems" held at Government Engg. College , Kushalnagar | GEC, Kushalnagar | 23-01-2014 to 25-01-2014 |
| 10 | 5 days TEQUIP sponsored STTP on " Design and Simulation of MEMS devices" | NMAMIT, Nitte, Mangalore | 16-06-2014 to 20-06-2014 |
| 11 | Workshop on "Sustainable manufacturing" | NIT, Tiruchirappali, Tamilnadu | 18-07-2013 to 19-07-2013 |
| 12 | STTP on " Theoretical and Computational Fluid Dynamics" | IIT, MADRAS | 10-03-2012 to 14-03-2012 |
| 13 | "Finite Element Methods and practical Stress analysis" | Amrita school of engineering ,Amrita vishwa vidyapeetham, Coimbatore | 12-12-2011 to 13-12-2011 |
| 14 | STTP-on- "Introduction to Turbulent flows and their prediction" | IIT, MADRAS | 19-03-2011 to 23-03-2011 |
| 15 | MHRD sponsored 1 week STTP On " Fracture Mechanics and Fatigue" held atNITK,Surathkal from 18-21 August 2011 | NITK, Surathkal | 8-08-2011 to 12-08-2011 |
| 16 | STTP on " Heat Treatment of ferrous and Non Ferrous Alloys-Theory and Practice" AICTE sponsored,organized by Dept. Of Metallurgy and Mechanical Engg. | NITK, Surathkal | 20-07-2009 to 25-07-2009 |
| 17 | Five days workshop on "Surface characterisation: Tools and Techniques" (SCTA 2020) organized by Dept. Of Metallurgy and Mechanical Engg | NITK, Surathkal | 14-12-2020 to 18-12-2020 |
| 18 | Six days AICTE sponsored short term course on " Elements of Smart Manufacturing (ESM)" | IIT, Madras | 15-02-2021 to 20-02-2021 |
| 19 | International Workshop on Design and Manufacturing of Composites for Engineering Applications | Indian Institute of Technology Mandi, Mandi, Himachal | 01-02-2021 to 05-02-2021 |
| 20 | One week AICTE sponsored Faculty development programme on "Mechanical Manufacturing and Process Optimization" | NITTR, Chandigarh | 25/06/2020 to 29/06/2020 |
| 21 | One week AICTE sponsored Faculty development programme on "Materials Processing and Optimization". | NITTR, Chandigarh | 06/07/2020 to 10/07/2020 |
| 22 | Two week AICTE sponsored Faculty development programme on "Materials Characterization Techniques, Devices and Applications" | NITTR, Chandigarh | 20/07/2020 to 31/07/2020 |

10. Details of NPTEL / COURSERA courses completed

| Sl. No. | Name of the subject | Organised by | Date of completion / Award | Grade / Marks |
|---------|--|--------------------------|----------------------------|---------------|
| 1. | NPTEL : Manufacturing of composites | IIT Roorkee | October 2019 | Elite, 71%, |
| 2. | NPTEL : Fundamentals of Manufacturing Process | IIT Roorkee | December 2020 | Elite, 67%, |
| 3. | COURSERA : Materials Science: 10 Things Every Engineer Should Know | UCDAVIS | 13-07-2020 | 97.07% |
| 4. | COURSERA : | State University Newyork | 13-07-2020 | 90.60% |

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|----|---|---------------------------------|------------|--------|
| | Advanced Manufacturing Process Analysis | | | |
| 5. | COURSERA: Material Processing | Georgia Institute of Technology | 18-10-2019 | 85.50% |
| 6. | COURSERA: Material Behaviour | State University Newyork | 13-7-2020 | 90.60% |

11. Membership of Professional Bodies:

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| 1. | Indian society for Technical Education(ISTE), Life time membership (LM94607) |
| 2. | |

12. Any other information you will like to share about your professional experience

1. Contributed as a session chairperson in national conference on “Emerging trends in Mechanical Engineering -eTIME-2015” held on 8th August 2015 in the Dept. Of Mechanical Engineering, St. Joesph Engineering College, Vamanjoor, Mangalore.
2. Reviewed two number manuscript to be published in Scopus indexed journal **“Materials Today Proceedings” (Elsevier Publisher)** for the event International Conference on Advanced Materials Behaviour & Characterization (ICAMBC_2020). The below are the manuscripts reviewed by myself and accepted.
 - I. Title of paper “Insitu Synthesize and Microstructural Characterization of AA6061/(TiB₂+TiC) particles in AA6061 Aluminium Composite” .
 - II. Title of paper “A critical Investigation on Viscosity and Tribological Properties of Molybdenum disulphide nano particles on Diesel Oil”

Name & Designation of the Faculty Member

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