



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Nizara Educational Campus, Muthapudupet, Avadi IAF, Chennai – 600 055.

Ph: 044 – 26842627 / 26842086

DEPARTMENT OF MECHANICAL ENGINEERING

NAME & INITIALS	Dr. S. Sathish	
DESIGNATION	PROFESSOR & PRINCIPAL	
EDUCATIONAL QUALIFICATION	B.E, M.E, Ph.D	
EXPERIENCE	17 YEARS	
DATE OF JOINING	06 / 01 / 2011	
EMAIL ID	s.sathish@aalimec.ac.in	
AREA OF SPECIALISATION	SURFACE COATINGS, TRIBOLOGY	

EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
B.E	MECHANICAL	NOORUL ISLAM COLLEGE OF ENGINEERING	MANONMANIAM SUNDARANAR UNIVERSITY	2001
M.E	PRODUCTION	ANNAMALAI UNIVERSITY	ANNAMALAI UNIVERSITY	2002
Ph.D	MECHANICAL	VIT VELLORE	VIT VELLORE	2011

PROFESSIONAL MEMBERSHIPS

INSTITUTE OF RESEARCH ENGINEERS AND DOCTORS

INTERNATIONAL ASSOCIATION OF ENGINEERS

SEEK DIGITAL LIBRARY

INDIAN SOCIETY OF TECHNICAL EDUCATION

FDP ATTENDED

Organized a Three Day Faculty Development Programme on “**Engineering Metallurgy**” during 10th to 13th December, 2019 at Aalim Muhammed Salegh College of Engineering, Chennai.

WORKSHOPS ATTENDED

Participated in workshop regarding Metallurgy for Non – Metallurgist at IIT – Chennai (March 2008).

EVENT ORGANISED

Acted as a Coordinator for the “Summer Camp Programme” for the +2 and Diploma Students during 9th July, 2021 to 15th July, 2021 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a One Day Webinar on “Industrial Engineering- An Overview” on 26th June, 2021, at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a One Day Webinar on “Project Funding through Journal Publications” on 22nd April, 2021 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a One day Webinar on “Industry 4.0” on 17th April, 2021 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a One day Webinar on “Research Perspectives in Ceramic Engineering” on 13th March, 2021 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a One day Webinar on “Materials Joining in Power Sector- Present and Future” on 17th July, 2020 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a Three Day Faculty Development Programme on “Engineering Metallurgy” during 10th to 13th December, 2019 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a Special Value added course on “Oil & Natural Gas well testing, Completion and

Production operations” for the final year Mechanical and Electrical Engineering students at Aalim Muhammed Salegh College of Engineering during 10th January 2018 to 26th March 2018.

Organized a value added course on “Computer Aided Design” for the final year Automobile & Mechanical Engineering Polytechnic students during 15th February to 20th March, 2018.

WORKSHOPS ORGANISED

Organized a One day Workshop on “Proposal Writing for Funded Projects” on 13th December, 2019 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a One day Workshop on “Drafting of Research Proposals and Writing Journal Papers” on 10th December, 2019 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a Three Day Faculty Development Programme on “Engineering Metallurgy” during 10th to 13th December, 2019 at Aalim Muhammed Salegh College of Engineering, Chennai.

Organized a one day workshop on “Hexagon CAD work& Analysis Solution” for the final year Mechanical Engineering students on 12th February, 2018.

SEMINARS ATTENDED

- Presented a paper entitled “Microstructure and Immersion behavior of plasma sprayed bilayered ceramic coatings” in MSAT-8 Conference held at Bangkok, Thailand (Dec 2014) – Funded by Department of Science and Technology.
- Presented a paper entitled “ Investigation on the Corrosion behavior of the bilayered ceramic coatings deposited using Atmospheric Plasma spraying” in INTER-ENG 2013 Conference held at Petru Maioruniversity, Tirgu Mures, Romania (Oct 2013) – Funded by Aalim Muhammed Salegh College of Engineering.

PUBLICATION DETAILS

S.Sathish, M.Geetha, N.Balaji, S.T.Aruna. Properties of Plasma sprayed Al₂O₃-13TiO₂ and ZrO₂ blended coatings on biomedical alloy. Transactions of the Indian Ceramic Society, Vol.80 (2021)216-223. Impact Factor : 0.952 (SCIINDEXED)

<p>S.Sathish, Effect of Laser Remelting on the Microstructure and Mechanical Properties of Metal Inert Gas Welded Low Carbon Mild Steel. Indian Journal of Engineering and Materials Sciences, Vol.27 (2020) 373-381. Impact Factor :0.881 (SCI INDEXED)</p>
<p>S.Sathish, S.Ramkumar, M.Geetha. Drilling performances and wear characteristics of coated drill bits during drilling reinforced concrete. International Journal of Applied Ceramic Technology, Vol.16 (2018) 357-366. Impact Factor :1.165 (SCI INDEXED)</p>
<p>S.Sathish, M.Geetha. Effect of Alumina addition on the Microstructure and Mechanical Properties of Metal Inert Gas welded low carbon steel. Transactions of the Indian Ceramic Society, Taylor & Francis Publication, Vol.76(2017)176-182. Impact Factor : 0.952(SCI INDEXED)</p>
<p>S.Sathish, M.Geetha. Comparative studies on the corrosion behavior of plasma sprayed Al_2O_3, ZrO_2, Al_2O_3/ZrO_2 and ZrO_2/Al_2O_3 coatings. Transactions of non ferrous metal society of china, Elsevier Publication, Vol.26(2016)1336-44. Impact Factor : 2.615 (SCI INDEXED)</p>
<p>S.Sathish, M.Geetha. Microstructure and Corrosion behavior of plasma sprayed Bilayered Ceramic coatings. Transactions of the Indian ceramic society, Taylor & Francis Publication, Vol.74(2015)97-103. Impact Factor: 0.952 (SCI INDEXED)</p>
<p>R.Ravi raja Malarvannan, T.V.Moorthy, S.Sathish, P.Hariharan. Investigation on the Corrosion behavior of Physical Vapor deposition coated high speed steel, Advances in Mechanical Engineering, Sage publication, Vol.7(2015)1-5. Impact Factor :1.161(SCI INDEXED)</p>
<p>R.Mohamed Iqbal, Mohd.F.Shabir, B.Dilip Jerold, S.Mohamed Abbas, S.Sathish, R.Manikandan, P.Mohamed Riswan, I.Mohamed Raseen, M.A. Mohamed Samirudeen. Investigation on the thermal properties of the multilayered ceramic coatings deposited using Atmospheric Plasma Spraying, Materials Research Innovations, Taylor & Francis Publication, Vol.19 (2015)301-305. Impact Factor :1.140 (SCI INDEXED)</p>
<p>M.Geetha, S.Sathish, K.Chava, S.V.Joshi. Detonation gun sprayed $Al_2O_3-13TiO_2$ coatings for biomedical applications, Surface Engineering, Maney Publication, Vol.30(2014)229-36. Impact Factor :2.230(SCI INDEXED)</p>
<p>S.Sathish, M.Geetha, A.Udaya kumar, S.Senthilkumar, R.Asokamani. Granulation of Nano Alumina Powder for Improved Flowability by Spray Drying, Transactions of the Indian Institute of Metals, Springer Publication, Vol.65 (2012)485-90. Impact Factor :0.910 (SCI INDEXED)</p>
<p>S.Sathish, M.Geetha, S.T.Aruna, N.Balaji, K.S.Rajam, R.Asokamani. Sliding wear behavior of plasma sprayed nano ceramic coatings for biomedical applications, Wear, Elsevier Publication, Vol.271(2011)934- 41. Impact Factor :4.108 (SCI INDEXED)</p>
<p>S.Sathish, M.Geetha, S.T.Aruna, N.Balaji, K.S.Rajam, R.Asokamani. Studies on plasma sprayed</p>

<p>bi-layered ceramic coating on bio-medical Ti-13Nb-13Zr alloy, Ceramics International, Elsevier Publication, Vol.37(2011)1333-39. Impact Factor : 3.830 (SCI INDEXED)</p>
<ul style="list-style-type: none"> • S.Sathish, M.Geetha, N.D.Pandey, C.Richard, R.Asokamani. Studies on the corrosion and wear behavior of the laser nitrided biomedical titanium and its alloys, Materials Science & Engineering C, Elsevier Publication, Vol.30(2010) 376-82. Impact Factor: 5.880 (SCI INDEXED)
<p>S.Sathish, V.Anbarasan, M.Geetha, R.Asokamani. Corrosion resistance of laser nitrided commercially pure titanium and Ti-13Nb-13Zr biomedical alloys, Transactions of the Indian Institute of Metals, Springer Publication, Vol.61(2008) 235-38. Impact Factor :0.910 (SCI INDEXED)</p>
<p>S.Sathish, N.D.Pandey, C.Richard, M.Geetha, R.Asokamani. Studies on the tribological behavior of the laser nitrided biomedical Ti and its alloys. Actes des jounees internationals francophones de tribologie (JIFT 2007), ISBN: 978-2-88074-834-0.</p>
<p>S.Sathish, M.Geetha, R.Asokamani. Comparative studies on the Corrosion and Scratch behaviors of Plasma sprayed ZrO₂ and WC-Co coatings. Procedia Materials Science, Elsevier Publication, Vol.6(2014)1489-94.</p>
<p>S.Sathish, C.S.Swaminathan, C.Senthilvel, B.Dilip Jerold, Mohd.F.Shabir, M.Geetha. Investigation on the corrosion behavior of the bilayered ceramic coatings deposited using atmospheric plasma spraying, Procedia Technology, Elsevier Publication, Vol.12(2014) 301-307.</p>
<p>S.Sathish, M.Venkatesh, M.Geetha, R.Asokamani, T.K.Nandy. Wear behaviour of the newly developed biomedical beta titanium alloy, TMS Conference : The Minerals, Metals & Materials Society, Vol.3(2010) 217- 224.</p>

<ul style="list-style-type: none"> • CONFERENCE DETAILS
<ul style="list-style-type: none"> • Presented a paper entitled “Wear behavior of the newly developed biomedical beta titanium alloy” in TMS Annual meeting 2010 held at Seattle, U.S.A (Feb 2010) – Funded by Department of Science and Technology. • Presented a poster entitled “Wear behavior of nanoceramic coated biomedical Ti -13Nb-13Zr alloy” in SMT conference at Mamallapuram (November 2009). • Participated in Summer Training Program regarding “Advanced Material Characterization

Technique” at IISC Bangalore (July 2009).

- Presented a paper entitled “Nano structured Al₂O₃-13TiO₂ plasma sprayed coating on titanium alloy suitable for biomedical application” in ‘RASE’conference at NAL Bangalore (February 2009).
- Participated in workshop regarding Metallurgy for Non – Metallurgist at IIT –Chennai (March 2008).
- Participated in training program regarding “Surface Modification Techniques” at IIT Chennai (February 2008).
- Presented a poster entitled corrosion resistance of Laser nitrided Cp-Ti and Ti-13Nb-13Zr alloy in METALLO conference at IIT Kanpur (November 2007).
- Presented a paper in DST – NSNT conference entitled “Surface modification of Titanium alloys using Plasma spraying” (February 2007).
- Participated in Indian Laser Association (ILA) at CAT-Indore (December 2006).

• ACHIEVEMENT DETAILS

- Received “ Dynamic Professor of the Year” from Global Teaching Excellence Award on 11th August, 2021.
- Received “Best Senior Researcher Award” from GISR Foundation, Uttar Pradesh on 3rd October, 2020.
- Received “ Best Researcher Award” from VD Good International Factory, Chennai on 14th September, 2019
- Received “Distinguish Scientist Award” from S.C.Ray Educational Trust, Kolkata on 15th October 2018.
- Received “Out Standing Faculty Award” from Venus International Foundation, Chennai on 7th July 2018.
- Received “Young Faculty Achieve Award 2018” from Engineering Professional Society, Coimbatore on 6th May 2018.
- Received “Research Excellence Award” from “Institute for Exploring Advances in

Engineering” on 25th July 2018.

- Completed a Eight weeks course on “Advanced Machining Processes” with 70% organized by Indian Institute of Technology, Guwahati on 24th October, 2021 with “Elite”.
- Emerged as a topper with 96% for the Eight weeks course on “Failure Analysis and Prevention” organized by Indian Institute of Technology, Roorkee on 22nd August, 2021 with “Elite+ Gold”.
- Emerged as a topper with 77% for the Eight weeks course on “Friction and Wear of Materials: Principle and Case Studies” organized by Indian Institute of Technology, Roorkee on 19th December, 2020 with “Elite + Silver”.
- Completed a Eight weeks course on “Surface Engineering of Nanomaterials” with 79% organized by Indian Institute of Technology, Roorkee on 18th December, 2020 with “Elite+Silver”.
- Completed a Four weeks course on “Patent Drafting for Beginners” with 69% organized by Indian Institute of Technology, Madras on 18th December, 2020 with “Elite”.
- Emerged as a topper for the twelve weeks course on “Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations” with 89 % organized by Indian Institute of Technology, Roorkee on 16th November, 2019 with “Elite+ Silver”
- Successfully completed a four weeks Course on “Advanced Topics in the Science and Technology of Concrete” with 55% organized by Indian Institute of Technology, Madras on 29th March, 2019.
- Received “Distinguish Scientist Award” from S.C.Ray Educational Trust, Kolkata on 15th October 2018.
- Delivered an invited talk on “Advances in surface engineering and nano technology” at Government College of Engineering, Bargur.
- Delivered an invited talk on “Surface modification of Titanium alloys for biomedical application” at K.J Hospital, Chennai.
- Received “Out Standing Faculty Award” from Venus International Foundation, Chennai on 7th July 2018.
- Received “Young Faculty Achieve Award 2018” from Engineering Professional Society,

Coimbatore on 6th May 2018.

- Received “Research Excellence Award” from “Institute for Exploring Advances in Engineering” on 25th July 2018.

• **PATENTS FILED**

- A Patent entitled “Novel Design of Pneumatic Pick and Place Robotic Arm for Manufacturing Application” Published on 07.02.2020. Ref No : No.202021004729A