




# DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

**DEPARTMENT OF MECHANICAL ENGINEERING**

Accredited NBA, NAAC with A+, New Delhi

<b>Faculty Name</b>	<b>Dr. VIJAYA G</b>	
<b>Academic Designation</b>	<b>Assistant Professor</b>	
<b>Educational Qualification</b>	<b>B.E., M.Tech, Ph.D</b>	
<b>Experience in Years</b>	<b>12</b>	
<b>Area of Interest</b>	<b>Product Design, Nano-Thin Film Technology</b>	
<b>Date of Birth</b>	<b>23.10.1985</b>	
<b>Email ID</b>	<a href="mailto:vijavtke@gmail.com">vijavtke@gmail.com</a> <a href="mailto:vijayag-me@dsatme.edu.in">vijayag-me@dsatme.edu.in</a>	

## Educational Details

- Ph. D – RVCE, Thin film Technology VTU, Belagavi
- M.Tech –Product Design and Manufacturing, Bengaluru.
- B.E- Mechanical Engineering, SIET, Tumkur, VTU, Belagavi

## Personal Details

- Date of Birth:23.10.1985
- Hobbies: Meditation, Updating to Current technology in thin film area
- Languages Known: Kannada, English, Hindi

## Professional Experience

- Worked as Research Assistant in RVCE at Bengaluru from Dec 2009 to July2010
- Worked as Design Engineer in Syncolite India Pvt Ltd at Bengaluru from July2010 to July2011
- Worked as Design Engineer in Concurrent Engineering Solutions (Deputed to Weir Minerals) at Bengaluru from July2011 to Dec 2011
- Worked as Senior Research Fellow in RVCE at Bengaluru from Jan 2012 to Aug 2016

## Publications

### International Journals:

- Muralidhar Singh M, K.V. Nagesha, Gurubasavaraju TM, Harinandan Kumar, Ajay K M and **Vijaya G** “Evaluation of Mechanical Properties of Polymer Composites Profiles for Marine Applications”, Grenze International Journal of Engineering and Technology, 2018, pp 343-347.
- M. Muralidhar Singh, Harinandan Kumar, G. Hemath Kumar, P. Sivaiah, K. V. Nagesha, K. M. Ajay & **G. Vijaya**, “Determination of Strength Parameters of Glass Fibers Reinforced Composites for Engineering Applications”, Silicon, 2019
- Muralidhar Singh M, **Vijaya G**, Krupashankara M S, B K Sridhara, T N Shridhar “Simulation Studies on Ceramic Coatings on Aluminium thin films for Solar Reflector Application”, International Journal of Chem Tech Research, Vol. 8, Number 12, 2016, pp. 360-366.

### International Conferences:

- **Vijaya G**, Muralidhar Singh M, Krupashankara M S, and RSKulkarni “Effect of Argon Gas Flow Rate on the Optical and Mechanical Properties of Sputtered Tungsten Thin Film Coatings” IOP Conf. Series: Materials Science and Engineering 149 (2016) 012075 doi:10.1088/1757-899X/149/1/012075.
- **Vijaya G**, Muralidhar Singh. M, M.R. Srinivas, B.S. Satyanarayana, R.S. Kulkarni “Optimization of Thin Film Multilayered Coating for Absorption of Solar Radiation”, International Journal of ChemTech Research, Vol.7, No.2,2015, PP 1045-1052.
- Muralidhar Singh M, **Vijaya G**, Krupashankara M S, B K Sridhara, T N Shridhar “Studies on Nanostructure Aluminium Thin Film Coatings Deposited using DC magnetron Sputtering Process” IOP Conf. Series: Materials Science and Engineering 149, 2016, 012071 doi:10.1088/1757-899X/149/1/012071.
- **Vijaya.G**, Muralidhar Singh M, Krupashankara M S, M R Srinivas, R.S. Kulkarni “Development and Analysis of Tungsten-Aluminum oxide based solar thermal multilayer Coating” International Conference on Advanced Materials and Applications, (Elsevier Publications) Materials Today Proceedings: Volume 5 – Issue 1 – Part 3- 2018 (Pages 2547–2554)
- **Vijaya.G**, Muralidhar Singh M, Krupashankara M S, M R Srinivas, R.S.Kulkarni “Development and Analysis of Tungsten Thin film Coating for Solar Absorption” International Conference on Advanced Materials and Applications, International Conference on Advanced Materials and Applications, (Elsevier Publications)Materials Today Proceedings: Volume 5 – Issue 1 – Part 3- 2018 (Pages 2555–2563)
- Muralidhar Singh M, **Vijaya G**, Krupashankara M S, B K Sridhara, T N Shridhar “Deposition and Characterization of Aluminum Thin film Coatings using DC Magnetron Sputtering Process” International Conference on Advanced Materials and Applications, (Elsevier Publications) Materials Today Proceedings: Volume 5 – Issue 1 – Part 3- 2018
- Muralidhar Singh M, **Vijaya G**, Krupashankara M S, B K Sridhara, T N Shridhar “Studies on Thin Film Multilayer Coatings Deposited using Sputtering Process” International Conference on Advanced Materials and Applications-(Elsevier Publications) Materials Today Proceedings: Volume 5 – Issue 1 – Part 3- 2018
- Krupashankara M. S, Vijaya G, Muralidhar Singh M, B.S. Satyanarayana “Studies on Nanostructured Tungsten Thin Film Coatings Deposited using Pulsed DC Magnetron Sputtering Process” 3rd International Conference NANOCON 014 on Nanotechnology - Smart Materials, Composites, Applications and New Inventions - 14-15 October, 2014.

#### **National Conferences:**

- Krupashankara M.S, Muralidhar Singh. M, Vijaya G, B.S. Satyanarayana “Studies on Nanostructure Tungsten Thin Film Coatings Deposited using Different power supply for Magnetron Sputtering Process” Proceedings of the International Conference on Functional Materials @ Nanoscale: Concerns and Challenges, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, March 9-11, 2015, PP 138

#### **Conference Attended**

- 3rd International Conference NANOCON 014 on Nanotechnology - Smart Materials, Composites, Applications and New Inventions - 14-15 October, 2014.
- International Conference on Advanced Materials and Applications-(Elsevier Publications) Materials Today Proceedings, 2018
- IOP Conf. Series: Materials Science and Engineering, IconAMMA

#### **Seminar Attended**

-

<b>Workshop Attended</b>
-
<b>Patents published with All Details</b>
<ul style="list-style-type: none"> <li>• Title of invention : development of new thermal absorber coatings for enhanced solar thermal application, Application Number 201841005118 A, Publication Date 16.02.2018</li> </ul>
<b>Research Grants fetched with File No.</b>
-
<b>Student Project Funds Fetched with Grant No.</b>
-
<b>Consultancy Amount Fetched with Details</b>
-
<b>Awards</b>
-
<b>Academic Activity</b>
<ul style="list-style-type: none"> <li>• NBA Main Coordinator</li> <li>• NAAC Coordinator</li> <li>• Consultancy Project Coordinator</li> </ul>
<b>Faculty Development Activity/Workshops</b>
<ul style="list-style-type: none"> <li>• NOISE, VIBRATION &amp; SHOCK, MEASUREMENT AND ANALYSIS Phase3, 14-12-2020, RVCE, Bengaluru</li> <li>• NOISE, VIBRATION &amp; SHOCK, MEASUREMENT AND ANALYSIS Phase 2, 07-12-2020, RVCE, Bengaluru</li> <li>• NOISE, VIBRATION &amp; SHOCK, MEASUREMENT AND ANALYSIS Phase 1, 23-11-2020, RVCE, Bengaluru</li> <li>• Recent Advances in Tribology and Surface Engineering, Series 3 of 4, 12-10-2020, SAINTGITS COLLEGE OF ENGINEERING, KERALA</li> <li>• Recent Advances in Tribology and Surface Engineering, Series 2 of 4, 14-09-2020, SAINTGITS COLLEGE OF ENGINEERING, KERALA</li> <li>• Recent Advances in Tribology and Surface Engineering, Series 1 of 4, 17-08-2020 SAINTGITS COLLEGE OF ENGINEERING, KERALA</li> <li>• Industry 4.0 and Additive Manufacturing, 03-08-2020, JNNCE, Shivmogga</li> <li>• Emerging Engineering Materials, 01-06-2020, BITM, Ballari</li> <li>• Augmented and Virtual Reality Interfaces for 3D Printing and Design, 28-01-2020, DSATM, Bengaluru</li> <li>• Recent Innovations in Manufacturing and Welding Technology, 28-06-2019, DSATM, Bengaluru</li> <li>• Intellectual Property Rights, 14-02-2019, DSATM, Bengaluru</li> <li>• Research Opportunities on Materials and Manufacturing, 16-01-2019, DSATM, Bengaluru</li> <li>• Teaching Learning Methodology, 26-07-2018, DSATM, Bengaluru</li> <li>• OBE Practices, 18-06-2018, DSATM, Bengaluru</li> </ul>

- Computer Aided Design, Modelling and Analysis of Mechanical Components, 08-01-2018, DSATM, Bengaluru

### **Contact Details**

**Assistant Professor**, Department of Mechanical Engineering  
Dayananda Sagar Academy of Technology & Management  
Udayapura, Kanakapura Road  
Bengaluru-560082  
Mail ID: vijaytke@gmail.com  
Phone No.: 9611940461