

### M.Tech Projects Guided

Sl. No.	Name of Student	Year	Title of Thesis
1.	T Sekhar	2006	Evaluation of Metallurgical and Mechanical Properties of Dissimilar Welds of Stainless Steels
	T. Sekhar	2007	Microstructure, Mechanical Properties and Pitting Corrosion Behavior of Dissimilar Stainless Steel Weldments
2.	Anjaiah Yamagani	2006	Optimization of Welding Parameters for Laser Welding of Titanium Alloy (Ti-6Al-2Sn-4Zr-2Mo+Si)
	Anjaiah Yamagani	2007	A Study of Titanium alloy by Laser and TIG Welding Processes
3.	Krishna Chaitanya Puvvada	2007	Optimization of laser parameters for welding of Titanium alloy
	Krishna Chaitanya Puvvada	2008	Optimization of welding parameters for laser welding of commercially pure Titanium
4.	Kallida Latha	2007	Establishment of welding procedures and execution of deposition of ferritic stainless steels (with E410 electrodes) on 410S clad Carbon Steel plants
	Kallida Latha	2008	Establishment of procedures and execution of weld deposition of ferritic stainless steels on internal surface of Carbon steel nozzle pipes (with ER410 filler) by automatic GTAW process
5.	A. Joseph Berkman	2008	Development of bioactive and bioresorbable nanoceramics for biomedical applications
6.	S. Murthy Ram	2008	Development of antibacterial and bioactive nanoceramics for biomedical applications
7.	K. Venkateswarlu	2009	Surface modification of Titanium alloy implant material by plasma electrolytic oxidation and characterization for biomedical applications
8.	M. Sandhya Rani	2009	Nanosized antibacterial and catalytic hydroxyapatite: synthesis and characterization
9.	M. Hari kishore	2009	Sol-Gel synthesis and characterization of nanocrystalline Titania for biomedical applications
10.	Naresh Devisetti	2010	Plasma electrolytic boriding of Stainless steels for implant applications
11.	K Pavan Kumar	2010	Synthesis and characterization of nanosized carbonated hydroxyapatite
	K Pavan Kumar	2011	Synthesis and characterization of nanosized multifunctional hydroxyapatite for biomedical applications
12.	S Suresh	2011	Surface modification of Ti-6Al-4V alloy implant material by plasma electrolytic oxidation and characterization for biomedical applications
13	Viswanathan R	2011	Development Mg/hydroxyapatite composites for biomedical applications
	Viswanathan R	2012	Effect of fluoride additives on structural, morphological and corrosion characteristics of micro-arc oxidized Z31 magnesium alloy

14	T Athmaramudu	Dec 2012	Studying the effect of frequency and duty cycle on plasma electrolytic oxidation coatings on AZ31 Mg alloy
	T Athmaramudu	May 2013	Development of composite oxide layer coating on AZ31 Magnesium alloy
15	S. Hariprasad	Dec 2012	Study on electrochemical characteristics of micro arc oxidized doped TiO <sub>2</sub> films on Cp-Ti
	S. Hariprasad	May 2013	Role of electrolyte chemistry on in-vitro properties of micro arc oxidized titania films on Cp-Ti
16	E. lokesh kumar	Dec 2012	Effect of sodium carbonate content in electrolyte solution on surface modification of Ti-6Al-4V by plasma electrolytic oxidation
	E. lokesh kumar	May 2013	Surface modification of Nitinol by plasma electrolytic oxidation
17	Divesh kumar	Dec 2013	Surface modification of commercially pure Titanium by plasma electrolytic oxidation
	Divesh kumar	May 2014	Surface modification of Cp-Ti by plasma electrolytic oxidation
18	Goutham.Y	Dec 2013	Effect of electrical parameters on structural, morphological and corrosion resistance of micro arc oxidation coatings on Ti-6Al-4v alloy
	Goutham.Y	May 2014	Effect of electrical parameters on structural, morphological and corrosion resistance of micro arc oxidation coatings on Ti-6Al-4v alloy
19	Arjun Varma R	Dec 2013	Surface modification of Zm21 magnesium alloy by plasma electrolytic oxidation for orthopaedic implant applications
	Arjun Varma R	May 2014	Surface modification of Zm21 magnesium alloy by plasma electrolytic oxidation for orthopaedic implant applications
20.	Manu Harilal	Dec 2013	Rapid synthesis of Nanocrystalline hydroxyapatite by mechanochemical method
	Manu Harilal	May 2014	Rapid synthesis and characterization of nanocrystalline hydroxyapatite and substituted hydroxyapatites by mechanochemical method
21	Arun S	Dec 2013	Surface modification of Nitinol by plasma electrolytic oxidation
	Arun S	May 2014	Surface modification of Al-7075 alloy by plasma electrolytic oxidation
22	Jathin Thomas K	Dec 2014	Fabrication and characterization of plasma electrolytic oxidation coatings formed on aluminized steel
	Jathin Thomas K	May 2015	Development of plasma electrolytic borided coatings on mild steel
23	Melwin Sajan	Dec 2014	Plasma electrolytic oxidation of AZ31 magnesium alloy diffusion bonded with aluminium
	Melwin Sajan	May 2015	Mechanical and electro-chemical performances of Plasma electrolytic oxidized titanium in phosphate solution with different additives
24	Jaydeep Saha	Dec 2015	Studies on C <sub>f</sub> /SiC composites prepared through Chemical vapour infiltration (CVI)
	Jaydeep Saha	May 2016	Studies on C <sub>f</sub> /SiC composites prepared through Chemical vapour infiltration (CVI)
25	Nambiar Rohit Raghavan	Dec 2015	Surface modification of AZ31 Magnesium alloy by Plasma Electrolytic Oxidation coupled with cerium conversion coating

	Nambiar Rohit Raghavan	May 2016	Improving corrosion resistance of AZ31 Magnesium alloy by cerium coating with additives combined with Plasma Electrolytic Oxidation coating
26	Arun Vijayan	Dec 2015	Development of high emittance coating on Titanium for space applications using anodization
	Arun Vijayan	May 2016	Characterization of Titanium anodic coatings using nanoindentation and electrochemical techniques
27.	Vipul Jain	Dec 2016	Studies on Boron Doped Sic coatings over C <sub>i</sub> /SiC composites prepared through Chemical vapour infiltration
	Vipul Jain	May 2017	Studies on Nano based coatings over glass substrate to enhance the efficiency of solar PV Panels
28	Arun Mohan	Dec 2016	Development of Thermal control coatings on AA 7075 by Plasma Electrolytic Oxidation
	Arun Mohan	May 2017	Development of Superhydrophobic coating on Al alloy using fatty acids
29	Tomson Anjilivelil	Dec 2016	Development of visible light responsive photo-catalytic TiO <sub>2</sub> films by PEO
	Tomson Anjilivelil	May 2017	Development of MoO <sub>3</sub> loading TiO <sub>2</sub> Nanotubes for enhanced Photocatalytic activity
30	Ghewade Hrishkesh Dinkar	Dec 2016	Development of black anodic TiO <sub>2</sub> coatings using electrochemical self doping technique
	Ghewade Hrishkesh Dinkar	May 2017	Heat treatment Studies of black anodic TiO <sub>2</sub> coatings synthesized by self doping for spacecraft applications
31	H. Tushara bharathi	May 2018	Fabrication and characterization of anatase TiO <sub>2</sub> synthesized via anodization for visible-light photocatalysis
32	Sooraj P N	May 2019	Erosion resistant nanolayered ti/tin multilayered coating with porous stress absorbing layers
33	G. Karthick	May 2019	Effect of pulsed frequency on structural, morphological and corrosion resistance of plasma electrolytic oxidation coatings fabricated on commercially pure titanium
34	RAVI BHARDWAJ	May 2020	Development of photocatalytic active tio <sub>2</sub> coating on titanium by plasma electrolytic oxidation (PEO)
35	RAMAKRISHNA N E	May 2020	Development of thermal control coatings on AA7075 by plasma electrolytic oxidation (PEO) process
36	DEEPAK v PILLAI	May 2020	Development of plasma electrolytic oxidation coating on titanium aluminium intermetallics
37	PODILA VIVEK SAIRAM	May 2021	A review on bioactive glasses for bone repair and regeneration
38	RESHMA RAOSAHEB PATALE	May 2021	Development of bulk metallic glasses for biomedical applications a review
39	N. DEVI PRASANNA	May 2021	Investigation on reducing the depth of decarburisation in steel products
40	Sangole Pranav Anil	Dec 2021	Development of zinc-oxide phtocatalyst on galvanized steel using plasma electrolytic oxidation process
	Sangole Pranav Anil	May 2022	Development of visible light photocatalyst on various commercially available titanium alloys via plasma electrolytic oxidation process
41	Nemai Mondal	Jun 2022	Evaluation of retrogression and reaging of AA 7085 aluminum alloy and modeling of precipitation kinetics of AA7085 Alloy