

Metallurgical and Material Engineering Department

PhD Completed between 2011-2017

S N	Supervisor	Year	Student Name	Thesis Title	Co-Supervisor
1	A P Patil	2012-13	Ravindra V Taiwade	Studies on Intergranular Corrosion behavior of Aisi 304 and Chrome-Manganese Austenitic Stainless Steel	R K Dayal
2	A P Patil	2012-13	Adeeba F Khan	Studies on Corrosion and Biofouling of a low Cost Copper Alloy in Seawater	T Subba Rao
3	A P Patil	2013-14	Nilaya N Khobragade	Studies on Passivity of AISI 304 and Chrome-Manganese Austenitic Stainless Steels : Effect of Cl ⁻ , pH and Inhibitors	
4	A P Patil	2013-14	Manish S Bihade	Study on Localized Corrosion of Austenitic Stainless Steel: Application of Electrochemical Noise Measurement	
5	A P Patil	2016-17	Babarao Digambar Deshmukh	Effect of Aluminium Addition on Microstructure and Corrosion Resistance of Zinc-Aluminium Alloy for Galvanizing	
6	A P Patil	2016-17	Sachin Paparao Ambade	Studies on Effect of Welding on Corrosion of 409M Ferritic Stainless Steel and Mild Stee	Y M Puri
7	Ajay Likhite	2014-15	Sunil A Patil	Development and Characterization of Carbodic Austempered Ductile Iron (CADI)	S U Pathak
8	Ajay Likhite	2014-15	Sudhakar S Umale	Development of Low Carbon Equivalent Austempered Ductile Iron (ADI)	S U Pathak
9	Ajay Likhite	2014-15	Prashant P Parhad	Microstructure and Machinability Correlation of Austempeted Ductile Iron	Jatin Bhatt
10	D R Peshwe	2012-13	Kavita N Pande	Effect of Cryogenic Treatment on Polymers, Composites and Blends	Anupama Kumar
11	D R Peshwe	2014-15	Ashwini Kumar Sharma	Development of Rare Earth Activated Alumina- Silicate Based Nano Phosphors for solid state Lighting	Jatin Bhatt

12	D R Peshwe	2014-15	Dipika R Barbadikar	Evaluation of the effect of Heat Treatment on Mechanical properties of p92 Steel by ball Indentation Technique	A R Ballal
13	D R Peshwe	2014-15	Lakshmi Prasad Maddi	Effect of normalizing and Tempering Heat-Treatments on the creep Properties of Grade 92 Steel	A R Ballal
14	D R Peshwe	2016-17	Abhilasha Pramodkumar Jain	Synthesis & Characterization of Inorganic-Organic Hybrid Composite Nano Phosphors for Photonic Applications	S J Dhoble [RTMNU, Nagpur]
15	Jatil Bhatt	2014-15	Vincent Shantha Kumar S.	Alloy Design for Bulk Metallic Glass Formation and ITs Bio-Compatibility Study	B S Murty
16	Jatin Bhatt	2014-15	Sandeep G Fale	Synthesis and Mechanical Properties Evaluation of Al-AlN Metal Matrix Composites with Varying AlN Contents	Ajay A Likhite
17	S G Sapate	2015-16	Avishkar B Rathod	Studies on Abrasive Wear Behaviour of Some Alloy Steels and Coatings Used in Industry	
18	S N Paul	2013-14	Nitin S More	Studies on Tribocorrosion Behavior of Ti Based Biomaterials in Physiological Solution	Dr. Manish Roy
19	S N Paul	2015-16	Vineet V Karambelkar	Synthesis and Characterization of High Conducting Polypyrroles and their Blends as Novel Sensors	J D Ekhe
20	S U Pathak	2011-12	Gauri S Deshmukh	Development and Study of PBT Composites	D R Peshwe & J D Ekhe
21	S U Pathak	2013-14	Pallavi Y Deshmukh	Synthesis and Characterization of Al-Mg-SiO ₂ Composite using Rice Husk Ash SiO ₂	Jatin Bhat
22	S U Pathak	2013-14	Venkateswara R Mushini	Performance Evaluation and Life Improvement of Boiler Tube Components through Plasma Surface Coatings	S A Paranjape
23	S U Pathak	2013-14	Anupam Agnihotri	Study of Noise generated by Gas Bubbles & Bath / Metal Movement during Fused Salt Electrolysis of Alumina	J Mukhopadhyay

24	V K Didolikar	2012-13	Ramesh C Rathod	Synthesis, Characterization and Anticorrosion performance of soluble Conducting Polyaniline and its Composites	S S Umare
25	R K Paretkar	2014-15	Manjusha M Thaware	Damage Tolerance Behavior of CFRP Composites under Spectrum Fatigue Loads	C M Manjunatha

PhD Ongoing

Sr No	Student Name	Supervisor
1	VAIDYA ASHISH OMPRAKASH	Peshwe + Ballal
2	CHOPRA SWAMINI ADVAIT	D R Peshwe
3	HARI KRISHAN YADAV	M M Thaware
4	PRANAY A BAGADE	Sapate + Khatirkar
5	ANKUR BANSOD (Submitted Nov-2017)	A P Patil
6	HIMANSHU VASHISHTHA	Taiwade
7	JEETENDRA KUMAR MALAV	Rathod + S S Umre
8	VINAYAK DAKRE	Likhite + Pathak
9	AMIT KUMAR	R Khatirkar
10	SUMITRA SHARMA	Likhite + Agnihotri
11	NITESH VASHISHTHA	S G Sapate
12	ANUJ KHOND	Shrivastava + J Bhatt
13	AMAN GUPTA	R Khatirkar
14	VIPIN TANDON	Rathod + A P Patil
15	SOURABH SHUKLA	A P Patil
16	ALOK BEHERA	Thaware + Ballal
17	RAMENDRA KUMAR GUPTA	Udayabhanu
18	DEEPSHREE AWALE	A Ballal + M Thaware
19	BANDI SURESH	A Shrivastava
20	YOGESH MAHAJAN	D R Peshwe

Sponsored R & D Projects Completed

Sponsored Research Projects <u>approved</u> to VNIT							
	Project Name	Co-ordinator	Dept.	Sponsoring Agency	Project Value	Sanction date	Duration (years)
1	Large scale synthesis of WO _{3-x} nanowires for chemiresistive gas sensors	Ajeet Srivastav	MME	DST(SERB)	37,02,180	15/9/2016	3 years
2	Assessment od weld interface creep cavitation of ferrite/austenitic dissimilar weld joints	A Ballal+M Thawre	MME	DAE CSR	12,15,000	01/02/2017	3 years

Sponsored R & D Projects Ongoing

Sr No.	F Y	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned Order no. & Date	Total Amt of Project (In Lakhs Rs.)	Amt received in 2016-17(in words)
1	2016-17	AJEET SRIVASTAV	SERB	Large Scale Synthesis of WO _{3-x} nanowires for Chemiresistive gas sensors	ECR/2016/00108 1 15/09/2016	25	Twenty Five Lakh
2	2016-17	RAVINDRA TAIWADE	Anand Mines Tools Pvt. Ltd. Nagpur	Design and Analysis on weld joints of Aerofoil in jet blast defector	NA 10/10/2016	25	Twenty Five Lakh
3	2016-17	ATUL BALLAL	UGC-DAE CSR	Assessment of Weld Interface Creep Cavitation of Ferritic/austenitic Dissimilar Weld Joint of Ferritic Modified 9Cr-1Mo and Austenitic 316 LN Steels	CSR-KN/CRS- 92/2016-17/1383 3/28/2017	4	Four lakh
4	2016-17	ATUL BALLAL	BRNS	Effect of Normalizing and Tempering on Tensile and Creep Properties of Grade 92 Steel	2010/36- BRNS/66 11/17/2016	6	Six lakh

Research Publications as under SCOPUS

[Dr. A P Patil](#)

[Dr. Ajay Likhite](#)

[Dr. Atul R Ballal](#)

[Dr. D R Peshwe](#)

[Dr. Jatin Bhat](#)

[Dr. Mrs. Manjusha M Thawre](#)

[Dr. R C Rathod](#)

[Dr. R V Taiwade](#)

[Dr. Rajesh Khatirkar](#)

[Dr. S G Sapate](#)

[Dr. S N Paul](#)

[Dr. S U Pathak](#)

[Dr. V Udayabhanu](#)