Dr. Amir Raza Subhani

Assistant Professor
(Department of Mechanical Engineering)
Siwan Engineering & Technical Institute, Siwan.
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Educational Qualification:

- **PhD :**Department of Metallurgical and Materials Engineering, **National Institute of Technology (NIT Durgapur),** West Bengal, India. August 2014- January 2020
- **Master of Technology (M. Tech) in** Materials Engineering **National Institute of Technology (NIT Durgapur),** West Bengal, India August 2012 – May 2014, CGPA: 8.72 / 10
- **Bachelor of Technology (B. Tech) in Mechanical Engineering:** Department of Mechanical Engineering, **Integral University Lucknow U.P**. July 2008 – May2012, Percentage: 80.24%

Experience Summary:

1. **Siwan Engineering & Technical Institute, Siwan, Bihar, INDIA (From 11-02- 2020 to Continue)**

Roles and Responsibilities:

- Assistant Professor in Mechanical Engineering Department
- Outdoor Admission Incharge (Session 2020-21)
- Admission Convenor (Session 2021-22)
- Preparing Candidates for Technical,GATE, Industries and Several Government Examination

2. **Teaching Assistantship & Research Experience at NIT Durgapur**

7+ years lab assistantship and selected classroom programme (**Operating XRD, Optical microscope, FESEM, TEM, High temperature furnace, Mechanical testing and wear test**) for B.Tech and M.Tech Lab at NIT Durgapur.

3. PhD supervision

One PhD supervision is going as a co-superviser

Sadique Ali enrolled at KHAJA BANDANAWAZ UNIVERSITY, Gulbarga, Karnataka, INDIA in PhD, department of physics.

Research /Academic Projects:

PhD project:

Development of High Strength Wear Resistant low Carbon (0.1 wt. %) Steel by Cyclic Heat Treatment.

Aug-2014 - January-2020

M.Tech Project:

Effect of Cyclic Heat Treatment on Grain Size, Microstructure and Mechanical Properties of a (0.17 wt. %) Carbon Steel.

Aug 2012 - May 2014

Publications (07- Seven SCI):

(i) **Amir Raza Subhani,** Dipak Kumar Mondal, Chandan Mondal and Joydeep Maity, Attainment of an exceptionally high strength in low-carbon steel along with modest ductility through a novel heat treatment route, Philosophical Magazine Letters, Taylor & Francis; Vol. 98, Issue No. 6, 2018, pages 240-251. DOI: 10.1080/09500839.2018.1529441.

(ii) **Amir Raza Subhani,** Dipak Kumar Mondal, Chandan Mondal Himadri Roy and Joydeep Maity, Development of a High-Strength Low-Carbon Steel with Reasonable Ductility through Thermal Cycling, Journal of Materials Engineering and Performance, ASM international, USA, Vol. 28, No. 4, April, 2019, pages 2192-2201. DOI: 10.1007/s11665-019-03969-5.

(iii) **Amir Raza Subhani,** Dipak Kumar Mondal, Chandan Mondal and Joydeep Maity, Synthesis of nano-particle dispersed highly substructured strong and ductile low carbon steel possessing structural hierarchy, Steel Research International, Germany, WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, Vol. 90, Issue No.5, May, 2019, Article number: 1800519, (pages 1-7), DOI: 10.1002/srin.201800519.

(iv) **Amir Raza Subhani,** Dipak Kumar Mondal and Joydeep Maity, Development of new- generation low-carbon steel: Part II-wear behaviour, Philosophical Magazine, Taylor & Francis; Vol. 99, Issue No. 16, 2019, pages 1970-1992. DOI: 10.1080/14786435.2019.

(v) **Amir Raza Subhani**, Dipak Kumar Mondal and Joydeep Maity, Tribological damage characteristics of a novel low carbon steel synthesized through intercritical thermal cycling, Metallography, Microstructure, and Analysis, ASM international, USA. Vol.8,2019,pages 607-622

(vi) **Amir Raza Subhani,** Dipak Kumar Mondal Effect of repeated austenitisation and cooling on the microstructure, hardness and tensile behaviour of 0.16 wt % carbon steel. *Archive of Metallurgy and Materials.Vol. 63, Issue No.3, Pages- 1141-1152,* August 2018. Doi.org/10.24425%2F123787

(vii) Soma maji, **Amir Raza Subhani,** Bijay kumar show & Joydeep Maity, Effect of Cooling Rate on Microstructure and Mechanical Properties of Eutectoid Steel Under Cyclic Heat Treatment. Journal of materials engineering and performance. Vol.26, Issue No.7, 2017, pages 1-13, Doi.org/10.1007/s11665-017-2779-3

Conference (01-International)

1. Presented in **Internation Conference on Materials Engineering and Manufacturing Systems** organized by Mattest Research Academy, Chennai, tamilnadu, India, during 28-30 January 2022, On the topic of *Effect Of Intercritical Heat treatment on microstruture and mechanical properties of 0.1 wt % Carbon Steel*.

Interested subjects:

- Thermodynamics
- Material science
- Theory of Machine

Achievement:

- Cleared Graduate Aptitude Test in Engineering (**GATE-2012**) in Mechanical Engineering with a percentile of 95.

Summer Internship:

(i) Performed Training at **Steel Authority of India Limited Bokaro** from 14-06-2010 to 10-07-2010

(ii) Performed Training at **Central Institute of Plastic Engineering and Technology, Lucknow** from20-06-2011 to 18-07-2011

Workshop/FDP:

(i) **Mechanical Behaviour and Modelling of Materials** TEQIP (CoE) NIT Durgapur from 06-02-2017 to 10-02-2017

(ii) **Processing, Characterization and Application of Advance Materials** TEQIP-II (CoE) NIT Durgapur from 27-02-2017 to 03-03-2017

(iii) **Train The Trainers On Examination Reforms** by TEQIP-3 from 04-12-2020 to 07-12-2020.

(iv) **Advance Pedagogy for Efficient Online Teaching during Pandemic like Crisis** TEQIP- IIT ROORKEE from 14-12-2020 to 18-12-2020.

Fellowships / Scholarships:

(i) **Ministry of Human Resource Development, Government of India, Fellowship** August 2014- August 2019 for pursued PhD.

(ii) **Ministry of Human Resource Development, Government of India, Fellowship** 2012-2014 for pursued M.Tech.

REFERENCES:

Dr. Joydeep Maity
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Dr. Supriya Bera
HOD & Associate Professor, MME department, NIT Durgapur
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Declaration:

I hereby declare that all the above-mentioned facts and information are true to the best of my knowledge. I shall be solely responsible for any discrepancy found in them.

Date: 19 February, 2022

Place: Siwan, Bihar, India

(Dr. Amir Raza Subhani)