

ARIJIT MUKHERJEE

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EDUCATION

2019- M. Tech in Mechanical Engineering with 8.4 CGPA, IIT(ISM), Dhanbad

2015- B. Tech (Mechanical) passed from Academy of technology with 7.9 CGPA, WBUT

2011- Diploma (Mechanical) from Ramakrishna Mission Shilpamandira with 82.5%, WBSCTE

2008- Higher secondary (Science) from Ukhra K. B. Institution with 70.8%, WBCHSE

2006- Madhyamik from Ukhra K. B. Institution with 75.7%, WBBSE

Project Performed

- “Comparative Study of Wear Behavior of Heat Treated 304 Austenitic and 410 Martensitic Stainless Steel” Under the guidance of Dr. Subrata Kr. Ghosh (M Tech Project)
- “Design, Modification And Standardization of A Low Cost Abrasive Jet Machine” under guidance of Prof. A B Chattopadhyay (B Tech Project)

Research Interests

Additive Manufacturing, Materials Processing & Composite Materials

PROFESSIONAL EXPERIENCE

- From November 2021 to till date Working as Assistant Professor of Department of Mechanical Engineering, Swami Vivekananda University, Barrackpore, WB

Courses Taught

UG: Materials Engineering, Fluid Mechanics, Manufacturing Science

Other activities

- *Executive member of UGC, AISHE, NAAC and NBA report coordination team*
- *Organizing departmental seminar and workshop*

- *Member of Examination Cell, IIC cell*
- *Nodal officer of AICTE-SLA (PARAKH)*

- From January, 2020 to August 2021, worked as an Assistant Professor of Mechanical Engineering Department, *Adamas University*, Barasat, WB

Courses Taught

UG: Characterization and Performance of Engineering Materials, Machining and Machine Tools, Materials Engineering, Non Traditional Manufacturing, Machine Tool Design

PG: Advanced Finite element Method

Funded Projects

- *Synthesis and characterization of drug-loaded filament towards 3D printing of solid drug dosage forms, co-investigator, 2021, ongoing (1.5L)*
- *Rainwater Management system for Adamas University canteen, co-investigator, 2021, ongoing (1L)*
- *Fabrication of Abrasive Jet Machining Experimental Setup, 2020, ongoing (0.4L)*

Other activities

- *Executive member of NAAC and NBA assessment report coordination team*
- *Investigative team member for three university sponsored project*
- *Organizing departmental seminar and workshop*
- *Member of Examination Cell*
- *Laboratory In charge of Machine shop and CNC lab*
- *Documentation for QS I-GAUGE online certification*
- *Online certification course formation*
- *Executive team member of CANVAS and TCSiON online Learning Management System.*

- From January, 2016 to July 2019, served as a Lecturer of Mechanical Engineering Department Technique Polytechnic Institute (Accredited by NBA, 2017-2018 to 2019-2020) at Hooghly, WB

Courses Taught: CAD/CAM Tools (ANSYS, CATIA, SOLID WORKS, Auto CAD), Manufacturing Processes – I & II, Advanced Manufacturing Processes, Technical Drawing, Engineering Drawing, Mechanical Engineering Drawing, Industrial Management, Theory of Machine

Project Guided

- *Rain Water Harvesting, Waste Water Recycling and Ground Water Recharging*
- *Design and Standardization of an Induction Furnace*
- *One projects on modelling, simulation and analysis of lathe bed, gear, screw jack on*
- *CATIA, SOLID WORKS and ANSYS*
- *Experimental analysis of surface coating done in Electrolysis*
- *Three project on modelling and simulation on CATIA*

Other activities

- *Departmental coordinator for NBA Self-Assessment Report preparation.*
 - *Course In- Charge of the Mechanical Engineering Department*
 - *Member of science and Exhibition subcommittee*
 - *Organizing departmental seminar and workshop*
 - *Laboratory In charge of Advanced Strength of Materials and CNC Lab*
- From June to October, 2011 as Supervisor Trainee at Balmer Lawrie & Co Ltd. At Assam Ongc, Nazira.

CERTIFICATION

1. Seminar on “Micro Machining” from 13th to 15th September, 2016 at MCKVIE, Liluah, Howrah
2. Seminar on “CFD Analysis of Heat Transfer and Fluid Flow Problems Using FEM and FVM” from 3rd to 7th July, 2017 at IIT(ISM) Dhanbad.
3. STTP on “Polymer composites and Nano Composites” from 01.05.2018 to 05.05.2018 organized by NITTTR, Kolkata
4. STTP on “Mechanical Testing of Materials” from 02.07.2018 to 13.07.2018 organized by NITTTR, Kolkata
5. Online certificate course (3 Weeks) on “Advanced Manufacturing Process Analysis” authorized by University at Buffalo and The State University of New York and offered through Coursera, 19.04.2020.
6. Online certificate course (2 Weeks) on “Digital Manufacturing & Design” authorized by University at Buffalo and The State University of New York and offered through Coursera, 27.04.2020.
7. Online certificate course (3 Weeks) on “Digital Thread: Components” authorized by University at Buffalo and The State University of New York and offered through Coursera, 15.05.2020.
8. Online certificate course (5 Weeks) on “Digital Thread: Implementation” authorized by University at Buffalo and The State University of New York and offered through Coursera, 23.05.2020.
9. Online certificate course (4 Weeks) on “Intelligent Machining” authorized by University at Buffalo and The State University of New York and offered through Coursera, 27.05.2020.
10. FDP on 'Innovation Startup IPR: A Post COVID19 view' from 03.06.2020 to 09.06.2020, organized by JIS College of Engineering, Kalyani
11. “Five Day Online Faculty Development Program on OpenFOAM” from 29.06.2020 to 03.07.2020 organized by VKR VNV & AKG College of Engineering jointly in association with Spoken Tutorials, IIT Bombay
12. FDP on “Intelligent Systems” from 29.06.2020 to 04.07.2020 organized by of Invertis University, Bareilly.
13. Webinar on Advanced Machining Processes on 18.07.2020 organized by MIC College of Technology, Kanchikacherla.
14. FDP on “Lost Foam Castings” from 20.07.2020 to 25.07.2020 organized by Sree Chaitanya College of Engineering, Karimnagar.

TRAININGS

Durgapur Steel Plant & Jharna Cement Pvt. Ltd Tata Steel, Tata Motors, Tata Telcon, Tata TRF, Tata Cummins, Usha Martin, Ramakrishana Forging, Adhunik Steel, Crowley & Ray, Kolaghat Thermal Power Plant, Mother Dairy, Liluah Locomotive Workshop

PUBLICATIONS

1. Chakraborty, S., Karmakar, S., Ghosh, S., Bhattacharjee, S., Chakraborty S., , Mukherjee, A., 2021, CFD Study on Structural Parameters of Airwing beased on NACA 2412 Profile using Different Composite Material, international journal of engineering research & technology (ijert) nceter – 2021 (Volume 09 – Issue 11)
2. Mukherjee A, Paul S, Basu S N. (2018). A review on energy efficiency of steel plants in india Vol.5 (Iss.4): April 2018, ISSN: 2454-1907 DOI: 10.5281/zenodo.1237324
3. Garai, S, Chakraborty, A., &. Mukherjee, A. (2016). Effectiveness of production system in smes due to scm GE-International Journal of Engineering Research Vol. 4, Issue 7, July 2016 IF- 4.721 ISSN: (2321-1717)
4. Mukherjee, A., Chakraborty, A., & Garai, S. (2016). Essence of Quality Control in Small Manufacturing Industry. IRA-International Journal of Technology & Engineering (ISSN 2455-4480), 3(3). doi:http://dx.doi.org/10.21013/jte.v3.n3.p12
5. Ranajay Maji, Sayan Paul, Arijit Mukherjee, "alternate energy management and its possibilities to produce low cost energy in india", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.906-913, May 2019

PERSONAL DETAILS

Date of Birth – 6th March, 1991

Father's Name – Naba Kumar Mukherjee

Languages Known – Bengali, English, and Hindi.

Arijit Mukherjee.

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(ARIJIT MUKHERJEE)