ARJUN MAHATO

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| EDUCATION | | | |
|-----------|--|--|------------|
| Year | Degree/Exam | Institute | CGPA/Marks |
| 2020 | M.TECH | IIT KHARAGPUR | 8.66 / 10 |
| 2018 | B.TECH | CENTRAL UNIVERSITY OF JHARKHAND | 8.26 / 10 |
| 2013 | HIGHER SECONDARY EXAMINATION (W.B.C.H.S.E) | RAMAKRISHNA MISSION VIDYAPITH, PURULIA | 77.4% |
| 2011 | SECONDARY EXAMINATION (W.B.B.S.E) | RAMAKRISHNA MISSION VIDYAPITH, PURULIA | 82.87% |

COURSEWORK INFORMATION

Postgraduate: Characterization Techniques of Materials | Fracture Mechanics and Analysis of Engineering Failures | Polymer Blends and Alloys | Processing and Fabrication of Polymers | Manufacture of Industrial Polymers | Science and Technology of Polymers, Ceramics and Semiconductors | Advance Ceramic Lab | Introduction to Nanotechnology

Undergraduate: Synthesis and Characterization Techniques of Nanomaterials | Materials Science | Crystallography and Crystal Structure |

Nanocomposites | Diffraction Techniques

SKILLS AND EXPERTISE

Software Skills: MS Office (Word, Excel, Powerpoint) Language: C Tools: Origin Pro, Mat Studio 4.4, X'Pert High Score

Instrument Data Analysis: OM, SEM, EDX, XRD, AFM, TGA, DSC, FTIR, UTM

PROJECTS

M.Tech Project | Coal & Coke Making Research Group (R&D), Tata Steel Limited, India | July 2019 - May 2020

- -Structure property relationship of carbon fiber reinforced ultrahigh temperature ceramic matrix Composites
- 1) Objective is to use carbon fiber as a reinforcing agent for the preparation of ceramic matrix composite (CMC).
- 2) Characterization techniques-OM, FESEM, EDX, XRD, Density measurement, Hardness test, Scratch test, Flexural Strength, TGA

Summer Intern | Centre for Research in Nanoscience & Nanotechnology (CRNN) | June 2017 - July 2017 - Synthesis and Characterization of Titanium dioxide Nanotubes (TiO2 NTs)

- 1) Fabrication of TiO₂ NTs was done by electrochemical anodization method.
- 2) Characterization techniques-FESEM, EDX, UV-VIS Spectroscopy, XRD, FTIR.
- -Synthesis and Characterization of Manganese dioxide coated Multiwall Carbon Nanotubes (MnO₂/MWCNTs)
- 1) Functionalization of raw MWCNTs was done to modify the inert nanotubes. Simple immersion on the functionalized MWCNTs followed by autoclaving and centrifugation to obtain MnO₂ coated MWCNTs.
- 2) Characterization techniques- FESEM, EDX, UV-VIS spectroscopy, FTIR.

TRAINING

First Aid in Emergency | Feb, 2010

Successfully completed training on First Aid in Emergency by Arambagh Health Guide in collaboration with Indian Red Cross Society.

CERTIFICATIONS

Pre Senior General Knowledge Test | 2009

Certified successfully for having being placed among the top 10% students of the examination centre in Pre Senior General Knowledge Test organized by United Schools Organisation of India.

Biennial Exhibition | 2009

Certified successfully for participated in Biennial Exhibition organized by Ramakrishna Mission Vidyapith, Purulia.

AWARDS AND ACHIEVEMENTS

GATE | 2018

Qualified in GATE in Engineering Science with AIR 215 and recipient of GATE scholarship by MHRD.

EXTRA CURRICULAR ACTIVITIES

Sports: 1) Member of the Central University of Jharkhand Footbal Team and Champions of the Inter College Football tournament in Khelotsav 2018 organised by Central University of Jharkhand.

2) Secured 2nd place in the Inter House Football tournament 2017 organised by Central University of Jharkhand.

3) Commandant (Responsible for drills, march pasts and sports activities) of Ramakrishna Mission Vidyapith, Purulia.

Music: Playing Tabla