SHIBU MEHER   **17MM01019**
Email Id – sm58@iitbbs.ac.in   **B. Tech**
Mob no – 9556142413, 8917529970   **Male**
Metallurgical and Materials Engineering   **DOB: 03/02/2000**
Indian Institute of Technology, Bhubaneswar

Examination	University	Institute	Year	CGPA / %
Undergraduate	IIT Bhubaneswar	IIT Bhubaneswar	2017-present	8.83 CGPA
12th Board	CHSE, Odisha	Maa Samaleswari College of Science and Technology, Barpali, Odisha	2017	81.83%
10th Board	BSE, Odisha	Govt. Boys' High School, Barpali, Odisha	2015	90%

ACADEMIC ACHIEVEMENTS

- Currently ranked **4th** in the Department, in the b-tech 4year+ 5year batch of 23 students.

Courses	Software Skills
- Introduction to Material Science and Engineering - Numerical Methods - Thermodynamics of materials - Physical Metallurgy - Transport Phenomenon and Kinetics of Metallurgical Processes - Materials Processing - Communication Systems - Control System and Technology	- MATLAB (Basic and Object-Oriented Programming, GUI, Fuzzy Logic, Time series analysis, Neural Network, Image Processing, Data Processing) - C++ - Python (Basic and Object-Oriented Programming) - Microsoft Excel - LAMMPS – Molecular Dynamics Simulation

INTERNSHIPS, KEY PROJECTS AND INDUSTRIAL EXPERIENCE

Summer Internship at TATA Sponge Iron Limited, Joda, India. *[13th May 2019-22nd June 2019]*
- Project on on-line dynamic quality and process control of rotary kilns to increase productivity and kiln life. Areas of focus –
    - Making a nonlinear model to predict the quality of sponge iron and predict the required input to have the desired quality
    - Implementing nonlinear denoising algorithms to reduce the noise from chaotic time series taken from heavy noise environment
    - To develop an expert system to take decision based on plant conditions
    - To develop an application containing the nonlinear model and the expert decision-making system
    - Experimenting the performance of the application in the plant

Non-invasive blood glucose measurement *[20th October 2018-20th December 2018]*
    - Blood glucose level is measured by studying the difference in intensity of photoplethysmography signal.

CURRENT PROJECTS AND PAPERS

- **Noise Reduction in Chaotic Time Series for Improved Feature Selection, Abnormal Process Detection, And Process Modelling**
  - Paper has been presented at 11th International Statistics Congress, Muğla, Turkey

ACHIEVEMENTS

2nd Prize at TATA Mind Rover Season7 *[March 2019]*

- Honor Issuer- TATA MOTORS Ltd.
- Won second Prize for case study challenge by Tata Motors, from all over India 5 finalist teams were selected for this unique case study challenge.

2nd Position in BETic Innovation Challenge in Inter IIT Tech Meet *[December 2018]*

- Organized by IIT Bombay
- Prize won for making a working prototype of non-invasive blood glucose measurement device

State Level Rajiv Gandhi Prativa Puraskar *[21st May 2013]*

- Organized by Odisha Rajib Gandi Students' Forum
- Awarded in recognition of highest talent in extra-curricular field among Junior Red Cross Volunteer

AREAS OF INTEREST

- Computational Material Science
- Mathematical Modelling
- Time Series Analysis

LANGUAGE

- English (Proficient in speaking and writing)
- Hindi (Proficient in speaking and writing)
- Odia (Proficient in speaking and writing)