

# BAIPALLI LATHA

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## SUMMARY

I am a fresh graduate student in Metallurgical and Materials Engineering and a Junior Project Research assistant at IIT Kharagpur, seeking a good opportunity to showcase my skills at a well-reputed organisation.

## EDUCATION

2020-2024	Bachelor of Technology in Metallurgical and Materials Engineering NIT Andhra Pradesh CGPA: 7.2
2017-2019	Intermediate Education (Maths, Physics and Chemistry) Sri Chaitanya Educational Institutions CGPA: 9.94
2017	Secondary School of Education SVJ Vidhyanikethan CGPA: 9.8

## RESEARCH AND TRAINING

May 2024 – Present	High temperature deformation of ACMZ (Aluminium Copper Manganese Zirconia) Alloys Junior Project Research Assistant, IIT Kharagpur
Jan – Apr, 2024	A review on the development of Aluminium alloy utilising recycled Aluminium Waste for sustainability Major Project at NIT Andhra Pradesh
Aug -Dec, 2023	Life Prediction and Microstructural investigations of Austenitic Stainless Steel's weld joints under creep-fatigue interaction loading Major Project at NIT Andhra Pradesh
Jun – Jul, 2023	Synthesis of Magnetite Nanoparticles Research Intern at IIT Hyderabad
Jan - Apr, 2023	A Study on various materials used in Hip Joint Replacement Mini Project at NIT Andhra Pradesh
Jun - Jul, 2022	Optimization of burden distribution in blast furnace productivity Project Trainee at Rashtriya Ispat Nigam Limited, Visakhapatnam

## **CORE COURSES**

Physical Metallurgy, Metallurgical Thermodynamics, Mechanical Metallurgy, Powder Metallurgy, Casting and Solidification, Iron and Steel Making, Metal joining, Extractive Metallurgy, Reaction Kinetics, Transport phenomena, Nano Materials and Technology, Corrosion Engineering, Surface Engineering, Material Characterization, Aerospace Materials and Applications, Metallurgical Failure Analysis, Nanomaterials and Computational Material Science.

## **CERTIFICATIONS**

Defects in Crystalline Solids Part 1 – NPTEL 2023  
Thermo Mechanical and Thermo Chemical Processes – NPTEL 2022

## **EXPERIENCE**

Aug 2023 – May 2024 Secretary and Design Team Head, Resource Hub, NIT Andhra Pradesh  
Aug 2021 – May 2023 Executive Member, MME Association, NIT Andhra Pradesh  
Aug 2021 – May 2023 Design Team Head, Resource Hub, NIT Andhra Pradesh

## **KEY SKILLS**

Writing, Metallography, Synthesis of Nanoparticles, Optical microscopes, Image J, Scanning Electron microscopy, X-ray Diffraction, Python (Basic User), Scanning Electron Microscopy, Hardness Testing, Chemistry and Mathematics.

## **PERSONAL DETAILS**

Date of Birth: 08/06/2002  
Nationality: Indian  
Gender: Female