

Department of Metallurgical & Materials Engineering

Research Expertise List

Sl. No.	Research Area	Name of Faculty
1	3D printing of metals and ceramics, Cellular/Porous metals, Lattice Metals, Functionally graded composites, Composite structures for aerospace applications, High temperature structural ceramics, Armor ceramics, Dynamic compression failure studies.	Dr Neha Gupta
2.	Structure-property correlations in metals/alloys (ii) Low dimensional nanostructured materials for functional application (iii) Thin film deposition (iv) Chemical sensing of semiconductor metal oxides (v) Nano-composites for structural and biomedical applications.	Dr. Sudip K. Sinha
3.	Extractive Metallurgy: Hydrometallurgical route of recycling industrial wastes, Generation of valuable products, Valorization of products, Application of the products, Aluminium dross, E-waste and other metallurgical wastes are studied for metal recovery	Dr. Arunabh Meshram
4	Foundry Technology, Solidification, Design and Manufacturing of Advanced Casting Technology, Materials Testing, Structure Property Correlation, Metal Matrix Composites, Physical Metallurgy, Aluminium and Magnesium Alloys	Dr. Sanjeev Das
5	Structure-property correlations, Composite materials, Tribology, Joining of Metals and alloys	Dr. M K Manoj
6	Physical Metallurgy, Alloy Development, Aluminium and its Alloys, Heat Treatment.	Mr. Gaurav Shukla
7	Applications of Electrochemistry in Corrosion, Energy Storage Materials, Density Functional Theory based materials modelling and Molecular Dynamics Simulations, Data Driven Modelling, Amorphous Alloys	Dr Manwendra Kumar Tripathi