

4M Sub Themes – 20th March, 2018

Sub Theme	Illustrative domains	Examples
Materials Design	Materials genomics, Computational Mater. Sc., Big Data Analytics etc. Light Weighing Materials Selection	Under preparation
Materials Development	Mining, Extraction and Synthesis of Materials : Raw Materials Minerals & Beneficiation Extraction & Refining etc.	
Materials Engineering	Functional and Engineered Materials Smart Materials Nanostructured Materials Surface Engineering Biomimetic Materials etc.	
Materials Manufacturing	Advanced Materials and Manufacturing Processes : Net-shape manufacturing Composites manufacturing Spheroidal powder manufacturing etc.	
Materials Sustainability	Life Cycle Analysis and life extension, NDT, SHM	