



1. **Title** : **Spintronic Materials and Devices**

2. **Objectives** :

The session will be focused on novel reports on materials/nanomaterials pertaining to spin-polarized conduction at low/room temperatures. Fabrication of state-of-the-art spintronic devices will form the core of the session.

3. **Topics of the Session**

- (a). Novel Spintronic Materials
- (b). Half-metal Spintronics
- (c). Nanotechnology & Spintronics
- (d). Semiconductor Spintronic Materials
- (e). Graphene/SWCNT Spintronics
- (f). Spintronic Devices
- (g). Magnetic Tunnel Junctions (MTJs)
- (h). Spin Field Effect Transistors (Spin-FETs)
- (i). Hybrid, Active and Passive Spintronic Devices
- (j). Superconductivity

4. **Name and Affiliation of The Proposer**

Chair : Dr. Sudhanshu Dwivedi
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