

**HOLOMORPHIC AND TOPOLOGICAL METHODS IN SYMPLECTIC GEOMETRY**  
**(SCHEDULE)**

**VENUE : NAB 1**

	10:00-11:30	11:45-1:15	2:30-4:00	4:30-5:30
03/06/24	KS1	ID1	MS1	Tutorial 1
04/06/24	KS2	SB1	ID2	Tutorial 2
05/06/24	YD1	MS2	Tutorial	
06/06/24	MS3	ID3	YD2	Tutorial/Q&A
07/06/24	MS4	YD3	SB2	Tutorial/Q&A
08/06/24	YD4	ID4	Tutorial	

*Speaker* **KS** – Kuldeep Saha.

**Title** – *Introduction to Symplectic Geometry.*

*Speaker* **ID** – Ipsita Datta.

**Title** – *Floer homology and Arnold conjecture.*

*Speaker* **MS** – Mohan Swaminathan.

**Title** – *Pseudo-holomorphic curves in symplectic manifolds with a focus on Gromov-Witten invariants.*

*Speaker* **SB** – Somnath Basu.

**Title** – *Introduction to String topology.*

*Speaker* **YD** – Yash Deshmukh.

**Title** – *Floer homotopy theory.*

**References**

1. McDuff-Salamon : Introduction to Symplectic topology.
2. McDuff-Salamon : J-holomorphic curves and symplectic topology.
3. Milnor : Morse theory.
4. Schwarz : Morse homology.
5. Wendl : Lectures on holomorphic curves in symplectic and contact geometry
6. Hatcher : Algebraic topology
7. Cohen : Floer homotopy theory, revisited
8. Audin, Damian : Morse Theory and Floer Homology