

## OUTLINE:

### Lecture 1: High Energy Physics Detectors

- Introduction to High Energy Physics Detectors
- Interactions of Particles/radiation with matter

### Lecture 2: Vacuum-based detectors

- Detection Principles & its Applications

### Lecture 3: Gaseous detectors

- Characteristics of Gaseous detectors
- Brief History
- Detection Principles & its applications

### Lecture 4: Scintillators and Solid State detectors

- Types of Scintillators/Solid state detectors
- Detection principles & its application

### Lecture 5: Calorimetry and Particle Identification

- Types of Calorimetry
- Basics of Particle Identifications
- Detection principles & its application