

PMRF-ISSS Teaching Programme

Prime Minister Research Fellowship students' teaching requirement
facilitated by the Institute of Smart Structures and Systems



Module PMRF-ISSS002/2023

Quantum Mechanics-Problems Solving Sessions

Name of the PMRF student

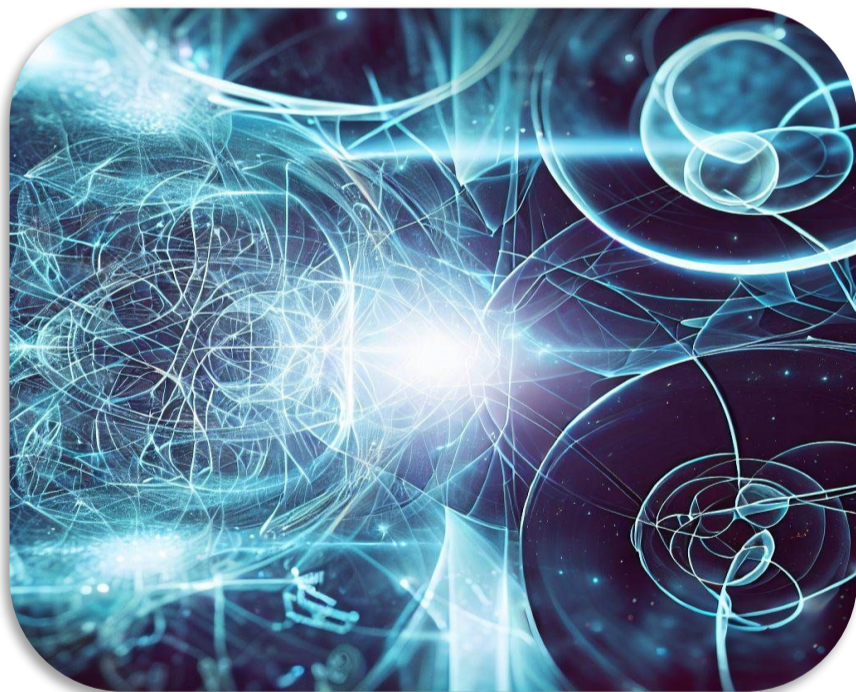
Priyanshi

Course Relevant for

- 1st and 2nd year undergraduates in Physics and technology/engineering related streams.
- Beneficial for GATE, JAM, NET aspirants.

Online session coordinator

Will be chosen from the list of registrants



Details of the content of the module

Welcome to our problem-solving course on quantum mechanics! Throughout the course, you will engage in various problem-solving sessions to gain a deep understanding of quantum mechanical concepts and techniques. We will cover a range of topics, including wave-particle duality, Schrödinger's equation, quantum states and measurements, quantum mechanics of systems with spin, and many more as mentioned in the list below,

1. Free Particle
2. Single Step Potential: Scattering Problem
3. Particle in a Well
4. Potential Barrier: Quantum Mechanical Tunnelling
5. Double Potential Well
6. Quantum Harmonic Oscillator

By the end of this course, you will have a solid foundation in quantum mechanics and be able to tackle complex problems with confidence.

Schedule of the module

Timings: Saturday, 5:30 PM (IST)

Lecture Duration: 1.5 hours

Start Date: April 29, 2023

Total number of sessions: 33

Meeting link: Will be shared later with the registrants

Contact email ID: priyanshi1@iisc.ac.in

Registration link:

<https://forms.gle/rdBav3LNzPxB37AC6>