

Primary Area of Specialization: Solid State Theory

Module No.: MN-P-SP-ThSol

Course: Disordered Systems

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Category	Type	Language	Teaching Hours	CP	Semester
Specialized Course	Lecture	English	4	8	ST

Requirements

Preparation:

training in theoretical physics at the B.Sc. level, solid state theory I

Form of Testing and Examination:

Written or Oral Examination

Length of Course:

1 semester

Aims of the course:

this course gives an introduction to the physics of disordered systems, together with an overview of various theoretical concepts and techniques applies to such systems.

Contents of the course:

- different types of disorder
- replica trick
- percolation
- diffusion
- random walks
- electrons in disordered media
- weak localization

Recommended literature: