

SYLLABUS :-

Low- and ultralow-temperature physics continue to be lively with wide array of fascinating properties, most prominent examples are superfluidity, superconductivity, quantum hall effect. Course presents basic facts concerning the low-temperature properties of liquid and solid matter. The lectures are organized in two sections, entitled quantum fluids with aspects of the extraordinary liquid, superfluid ^3He and solids at low temperatures covering thermal and electrical aspects of metals, phenomenon of superconductivity and quantum hall effect.