COURSE DETAIL

NUCLEAR AND PARTICLE PHYSICS
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 116
UCEAP Course Suffix
UCEAP Official Title NUCLEAR AND PARTICLE PHYSICS
UCEAP Transcript Title NUCLR&PARTICLE PHYS
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description
This course focuses on the consequences of quantum physics at high energies and short distances. The course also explores topics such as relativistic and quantum physics, the symmetries of fermions and bosons, and forces within the nuclear and particle physics domain. Fundamental particles and composite states are introduced, along with investigating the quantum numbers and symmetries associated with the interactions of these particles. Models used to describe the phenomena observed on the subatomic scale are discussed, along with explaining their successes and shortcomings. Experimental methods associated with the subatomic world are also introduced. This course covers the same nuclear and particle physics concepts as the 20-credit course, "Relativity, Nuclear and Particle Physics", however relativity is not covered.

Language(s) of Instruction
English

Host Institution Course Number
PHYS10106

Host Institution Course Title
NUCLEAR AND PARTICLE PHYSICS

Host Institution Course Details

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics and Astronomy

Course Last Reviewed

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