COURSE DETAIL

PARTICLE PHYSICS
Country United Kingdom - England
Host Institution University of London, Royal Holloway
Program(s) University of London, Royal Holloway
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 109
UCEAP Course Suffix
UCEAP Official Title PARTICLE PHYSICS
UCEAP Transcript Title PARTICLE PHYSICS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course covers energy loss processes, particle detectors, accelerators, spin-off applications. Strange particles, quantum numbers, the simple quark model. Heavy quarks. Leptons and lepton number. Electroweak unification, W and Z bosons, the Higgs mechanism, QCD. Extended topics selected from: deep inelastic scattering, supersymmetry, beyond the Standard Model, dark matter, Neutrino oscillations, and applications to industry and medicine.

Language(s) of Instruction
English

Host Institution Course Number
PH3520V

Host Institution Course Title
PARTICLE PHYSICS

Host Institution Course Details
https://ssb-prod.ec.royalholloway.ac.uk/PROD/bwckctlg.p_disp_catalog_syllabus?c...

Host Institution Campus
Royal Holloway

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics

Course Last Reviewed
2022-2023

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