

PHYS820/NTEC N11: Radiation Shielding Module

TIMETABLE: We will use Zoom for all the live sessions

Zoom details: Radiation Shielding 2021

<https://liverpool-ac-uk.zoom.us/j/97507369727?pwd=YldldFJ4Y3p2N05Sd3VINm1La29pQT09>

Meeting ID: 975 0736 9727

Passcode: 5&Vi+.6g

Monday

09.15	Live: Introduction to the course
10:00	Recorded Lecture 1: Radiological Protection Principles
11.00	Break
11:30	Recorded Lecture 2: Neutron Detection and Measurement
12:30	Lunch
13:15	Recorded Lecture 3: An introduction to MCNP & Validation
14:30	Live Practical: Practical introduction to MCNP
17:00	Finish

Tuesday

09:15	Live: Q+A session 1
10:00	Recorded Lecture 4: Monte Carlo Simulation
11:00	Break
11:30	Recorded Lecture 5: Simple shielding calculations
12:30	Lunch
13:15	Live Practical: MCNP simulation of detector rig
15:30	Break
16:00	Live Practical: MCNP simulation of detector rig
17:00	Finish

Wednesday

09:15	Live: Q+A session 2
10:00	Recorded Lecture: Use of Deterministic Codes in Shielding
11:00	Break
11:30	Recorded Lecture: The shielding design process
12:30	Lunch
13:15	Live Practical: MCNP simulation of detector rig
15:45	Break
16:15	Live Practical: MCNP simulation of detector rig
17:00	Finish

Thursday

09:15	Review Lecture: Shielding Applications
10:00	Live: Q+A session 3 (Shielding design process)
10:45	Break
11:15	Review Lecture: Monte Carlo simulation with MCBEND
12:15	Lunch
13:00	Live: Q+A session 4 (Deterministic codes)
14:00	Live Practical: MCNP simulation of detector rig
15:30	Break
16:00	Live Practical: MCNP simulation of detector rig
17:00	Finish

Friday

09:15	Live Practical: MCNP simulation of detector rig
11:00	Break, discussion
11:30	Live Practical: MCNP simulation of detector rig
12:30	Lunch
13:30	Live: Q+A session 5
14:30	Open book class test
17:00	Finish