

N19 Primary Circuit Materials and Manufacturing

Timetable

All lecture slides will be uploaded to Canvas. Teaching day will commence at 9:30am as indicated in the schedule below, and teaching will end by 5:00pm. There will be a 1-hour break for lunch each day. All the lectures for the week will all be held in **Conference Rooms A and B, 2nd floor, Schuster Building**.

Day	Time	Lecturer	Subject
Monday 12/1/2026	09:30-09:45	JF	Welcome and Overview
	09:45-12:30	JF	Welding Processes Part 1
	12:30 - 13:30	-	Break
	13:30 - 17:00	JF	Welding Processes Part 2
Tuesday 13/1/2026	09:30-12:30	JF	Introduction to Metallurgy
	12:30 - 13:30	-	Break
	13:30 - 17:00	JF	Welding Metallurgy
Wednesday 14/1/2026	09:30-12:30	JF	Residual Stresses in Nuclear Components
	12:30 - 13:30	-	Break
	13:30 - 17:00	JF	Weld Inspection and Quality Assurance Tutorial Session
Thursday 15/1/2026	09:30-12:30	JF	Tutorial Session
	12:30 - 13:30	-	Welding Practical Session
	13:30 - 17:00	SW	Break Trends in Manufacturing Practice
Friday 16/1/2026	09:30-12:30	JF	Tutorial Session Introduction to Coursework Exercise Wrap up

Lecturers

JF - John Francis <john.francis@manchester.ac.uk>

Professor of Materials Welding and Joining, The University of Manchester

SW - Simon Wakefield <simon.wakefield@rolls-royce-smr.com>

Manufacturing Engineer, Rolls-Royce SMR

Notes

On the Thursday Morning the class will be split into two halves, with half the class having a tutorial session while the other half does the welding practical session. The groups will then swap so that everyone has a tutorial session and everyone does the welding practical session.