The University Of Sheffield.

Syllabus & Running Order

L1	Intro and overview…	RAH	15.10.
L2,3	Crystal structures, symmetry	TW	16.10., 22.10.
L4	Reciprocal lattice	TW	23.10.
L5	Electron Diffraction	TW	29.10
L6	30th October – Careers Day – Lecture Cancelled		
L7	X-ray diffraction	RAH	5.11.
L8	Phonons	RAH	6.11.
L9	Tutorial	TW	12.11.
L10	Doping	TW	13.11
L11	Defects, dislocations	TW	19.11.

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L12	Electronic band structure & DOS	RAH	20.11.
L13	Cancelled	RAH	26.11.
L14	Optical transitions	RAH	27.11
L15	Excitons, free carrier effects	RAH	3.12.
L16	Tutorial	RAH	4.12.
L17	Carrier lifetime and recombination	TW	10.12.
L18	Assignment description and scheduling	RAH	11.12.
L19	Conductivity, Conduction	RAH	17.12.
L20	Tutorial	TW	18.12.

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	Practical Lab	RAH/TW	9,11,16,18.2
L21, 22	p-n junction,	TW	23, 25.2
L23	Photo-detectors &II	TW	2.3
L24	Gain, and lasing	TW	4.3
L25-26	Quantum mechanics,	RAH	9,11.3
L27	DOS – lasers, LEDs,	RAH	16.3
L28	Nano –Technologies	TW	18.3
L29	Tutorial	RAH	13.4
L30	Tutorial	TW	15.4
L31,32	Revision	RAH	20, 22.4

