School of Metallurgy and Materials

Study Abroad Module Lists 2020-21

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| **Module Code** | **Module Title** | **Level** | **Semester** | **Credits** |
| 17184 | Design Against Structural Failure | LH | 1 | 10 |
| 17186 | Control of Microstructure | LH | 1 | 10 |
| 17678 | Design Against Failure | LM | 1 | 10 |
| 17690 | Surface Engineering | LM | 1 | 10 |
| 18511 | Functional Materials | LM | 1 | 10 |
| 18512 | Introduction to Materials | LM | 1 | 10 |
| 18513 | Materials Characterisation | LM | 1 | 10 |
| 18515 | Polymer Science and Soft Matter | LM | 1 | 10 |
| 21364 | Sensors and Composites | LM | 1 | 10 |
| 31188 | LI Non-crystalline Materials 2 | LI | 1 | 20 |
| 31191 | LI Forefront of Materials Science and Engineering A | LI | 1 | 10 |
| 31192 | LI Forefront of Materials Science and Engineering B | LI | 1 | 10 |
| 31195 | LH Advanced failure analysis and Characterisation | LH | 1 | 20 |
| 31201 | LM Materials Modelling | LM | 1 | 10 |
| 34056 | LI Fracture, Fatigue and Degradation A | LI | 1 | 10 |
| 34065 | LI Physical Materials Science A | LI | 1 | 10 |
| 17188 | High Performance and Aerospace Materials | LH | 2 | 10 |
| 17190 | High Toughness Ceramics | LH | 2 | 10 |
| 17191 | Biomaterials | LH | 2 | 10 |
| 17192 | Advanced Materials in Sports Equipment | LH | 2 | 10 |
| 17193 | Advanced Electronic Materials | LH | 2 | 10 |
| 24362 | LM Advanced Polymer Systems | LM | 2 | 10 |
| 24365 | Intermetallics, Metal Matrix Composites and Ceramic Matrix Composites | LM | 2 | 10 |
| 24366 | Materials for Sustainable Environment Technology | LM | 2 | 10 |
| 24369 | LM Surface Engineering | LM | 2 | 10 |
| 27866 | Irradiation Materials Science | LM | 2 | 10 |
| 28745 | LM Nuclear Fuel Cycles, Life Extension and Nuclear Waste | LM | 2 | 10 |
| 31194 | LH High-performance Materials and Advanced Manufacturing | LH | 2 | 20 |
| 31198 | Materials for Challenging Environments | LH | 2 | 20 |
| 32194 | LM Introduction to Materials Modelling | LM | 2 | 10 |
| 34060 | LI Fracture, Fatigue and Degradation B | LI | 2 | 10 |
| 34066 | LI Physical Materials Science B | LI | 2 | 10 |
| 31173 | LC Fundamentals of Materials Science | LC | Full Term | 20 |
| 31174 | LC Design for Structural Applications | LC | Full Term | 20 |
| 31175 | LC Design for Functional Applications 1 | LC | Full Term | 20 |
| 31176 | LC Non-crystalline Materials I | LC | Full Term | 20 |
| 31186 | LI Design for Functional Applications 2 | LI | Full Term | 20 |