

List of Materials Science and Engineering courses offered in AY 2024/2025, Semester 1

MLE Level 1000

MLE1001B Materials Science & Engineering Principles & Practice 1

MLE Level 2000

MLE2102 Principles of Renewable Energy

MLE2103 * Phase Transformation and Kinetics *(For cohort AY2020/2021 and before)*

MLE2103A Materials Kinetics & Processing *(For cohort AY2021/2022 and onwards)*

MLE2301 Introduction to Materials Science & Engineering
(for students who are unable to take MSE Engineering Principles & Practice courses which may include students who wish to take Minor in Engineering Materials or transfer major to MSE)

MLE Level 3000

MLE3101 Materials Characterization Laboratory

MLE3101A Materials Characterization *(For cohort AY2021/2022 and onwards)*

MLE3103 Materials Design: Aerospace to Biomedical Applications *(For cohort AY2021/2022 and onwards)*

MLE3104 Polymeric and Composite Materials

MLE3111A Materials Properties & Processing Laboratory *(For cohort AY2021/2022 and onwards)*

MLE3203 Engineering Materials

MLE Level 4000

MLE4101 B.Eng. Dissertation *(For cohort AY2020/2021 and before-RfP)*

- MLE4101A B.Eng. Dissertation *(For cohort AY2020/2021 and before-PPP)*
- MLE4101B B.Eng. Dissertation *(For cohort AY2021/2022 and onwards)*
- MLE4102 Design Project *(For cohort AY2020/2021 and before-RfP)*
- MLE4102A Design Project *(For cohort AY2020/2021 and before-PPP & for cohort AY2021/2022 and onwards)*
- MLE4201 Advanced Materials Characterisation
- MLE4202 Selected Advanced Topics on Polymers
- MLE4203 Polymeric Biomedical Materials
- MLE4207 Microfabrication Process and Technology
- MLE4208 Photovoltaics Materials
- MLE4210 Materials for energy storage and conversion
- MLE4219 Materials for Optics: from Quantum Light to Nanodevices
- MLE4221 Emerging materials for renewable fuels and clean water

MLE Level 5000

- MLE5104 Physical Properties of Materials *(For cohort AY2020/2021 and before)*
- MLE5212 Energy Conversion & Storage *(For cohort AY2020/2021 and before)*
- MLE5214 Advances in Polymeric Materials *(For cohort AY2020/2021 and before)*
- MLE5216 Introduction to Microscopy for Materials Research *(For cohort AY2020/2021 and before)*

Timetable refers to <https://nusmods.com/timetable/>

* View webcast lecture recording. There is no timetable for lecture.

All courses are subjected to change without prior notice

