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
MLE4220 Two-Dimensional Materials
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.