COURSE DETAIL

COMPOSITES AND FUNCTIONAL MATERIALS

Country Australia

Host Institution University of New South Wales

Program(s) University of New South Wales

UCEAP Course Level Upper Division

UCEAP Subject Area(s) Materials Science Engineering

UCEAP Course Number 127

UCEAP Course Suffix

UCEAP Official Title COMPOSITES AND FUNCTIONAL MATERIALS

UCEAP Transcript Title COMPOSITS&MATERIALS

UCEAP Quarter Units 6.00

UCEAP Semester Units

4.00

Course Description

Topics covered in this course include polymer matrix, metal matrix, and ceramic matrix composites; nanocomposites; mechanical behaviour of composites; physico-chemical characterisation; fabrication techniques; design with composites; applications; fundamentals of semiconductor physics; material processes used in the fabrication of electronic devices such as single crystal growth, implantation, lithography, etching, and thin film growth; sources of failure and methods of fault diagnosis in devices; and application of dielectric materials in semiconductor devices.

Language(s) of Instruction English

Host Institution Course Number MATS4005

Host Institution Course Title COMPOSITES AND FUNCTIONAL MATERIALS

Host Institution Campus sydney

Host Institution Faculty

Host Institution Degree

Host Institution Department Materials Science and Engineering

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