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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