Course Outline

EDGDP6008 SCIENCE AND TECHNOLOGY

Title: SCIENCE AND TECHNOLOGY

Code: EDGDP6008

Formerly: TC477

School / Division: School of Education

Level: Advanced

Pre-requisites: Nil

Co-requisites: Nil

Exclusions: (TC477)

Progress Units: 15

ASCED Code: 070103

Objectives:

After successfully completing this course, students should be able to:

Knowledge:

- Develop an interest in and understanding of the nature of science/technology
- Understand the relationship that exists between scientific knowledge, technological development, and social issues.
- Develop an understanding of the roles of teachers and learners in a science and technology classroom.

Skills:

- Develop a sense of safety issues associated with the teaching and learning of science and technology.
- Experience and become aware of different approaches to teaching science and technology and link these with current learning theories.
- Develop an understanding of the use of ICTs in the science/technology classroom.

Values:

- Develop an attitude of enquiry that leads to an enjoyment of and enthusiasm for science and technology.
- Reflect critically on the role of science and technology teachers.

Content:

Topics may include:

- The focus of this unit will be to provide experiences that help pre-service teachers to

develop resources and skills that will allow them to deliver effective and engaging Science and Technology curriculum that is in line with current theories of teaching and learning in these areas. Use of the VELS will have a strong focus in the development of lessons and practical activities. Links to science/technology in everyday life will be highlighted and strategies in using these links in curriculum development will be a priority, as will the use of ICTs to enhance teaching and learning.

Learning Tasks & Assessment:

Learning Task	Assessment	Weighting
An electronic portfolio connecting the acquired skills gained from scheduled workshop activities. Will include regular reflective writing, forum discussions and weekly research topics.	Written – Individual. Assessment will be progressive throughout the semester by the tutor.	40-60%
Develop 4-5 sequential lesson plans in science and/or technology. Preparation and presentation of one Science/Technology practical lesson from this sequence.	Written and Oral – Pairs Assessment will be conducted by the tutor	40-60%%

Adopted Reference Style:

APA