



Course Outline

EDGDS6013 SCIENCE CURRICULUM 1

Title:	SCIENCE CURRICULUM 1
Code:	EDGDS6013
Formerly:	TD770
School / Division:	School of Education
Level:	Advanced
Pre-requisites:	(Required level of undergraduate study in discipline as specified by VIT)
Co-requisites:	Nil
Exclusions:	(TD770)
Progress Units:	15
ASCED Code:	070301

Objectives:

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

Knowledge:

- understand and appreciate the nature of Science as a constantly developing field of knowledge and understanding, and the processes of science which support this development;
- develop an interest leading to the desire to increase knowledge of the scientific understandings and developments which impact on our lives;

Skills:

- identify, evaluate and develop particular teaching skills and strategies (including the use of learning technologies) needed to create optimum learning conditions in their classes;

Values:

- critically consider different models of teaching and learning, including inquiry based approaches, the value assumptions underlying them, and to relate these to their own teaching of science;
- consider the changing role of education and teachers in our society, constantly evaluate their own role and practice, and to defend the latter in terms of societal changes.

Content:

The course content includes the following:



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Topics may include:

- Science as a field of human knowledge and endeavour, the links between Science and other areas of knowledge and between the traditional Science disciplines;
- generic teaching skills and their application in the Science classroom;
- specific teaching and learning strategies in years 7 to 10 science; eg. constructivist learning, practical work, use of ICT, safety issues, discovery learning, excursions and critical evaluation of these;
- Science teaching - lesson planning, implementation, assessment and reflection
- • links between learning theories and practical teaching
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Learning Tasks & Assessment:

Learning Task	Assessment	Weighting
Practical demonstration and preparation of a teaching guide for class members showing links to the VELS	Presentation to science learners and evaluation.	30 - 40%
Lesson plans, reflections on lessons, Science department culture, and individual development of teaching skills	Preparation of a teaching journal	30 - 40%
Preparation of a teaching sequence that allows students to attain stated learning outcomes	Teaching sequence presented	30 - 40%

Adopted Reference Style:

APA