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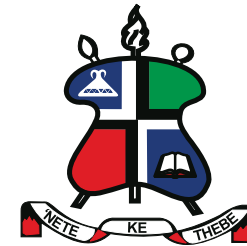
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NATIONAL UNIVERSITY OF LESOTHO



Science Education Department



Master of Science in Education (M.Sc.Ed.) 2015-2016

Themes:

Faculty of Education
Science Education
Mathematics Education
Environmental & Sustainability Education

M.SC.ED. PROGRAMME

Preamble

The Master of Science in Education (M.Sc. Ed.) is a two-year full-time programme offered mainly to degree holders with some background in education. The aim of this programme is to prepare highly qualified schoolteachers, researchers, education lecturers, curriculum developers, school administrators and school inspectors.

Entry Requirements

The minimum entry requirements shall be one of the following:

- [a] A Second Class, Second Division pass in B.Sc. Ed., or B.Sc. Ed. (Agric).
- [b] A B.Sc. or B.Sc. (agric) plus a Pass with Credit in PGCE or PGDE.
- [c] A B.Sc. (Agric) plus a Pass with Credit in Dip. Agric. Ed.
- [d] Any other equivalent qualification approved by the University.
- [e] Mode 1 applicants will be required to submit a preliminary research proposal/outline to the department for approval prior to admission.

Programme Structure

A student may study through:

[i] Mode I: Dissertation only

A student following **Mode I** of the study shall normally:

- [a] Take the research methods course within one academic year;
- [b] Complete a preliminary research project in Mathematics or Science Education prior to data collection;
- [c] Present a research proposal to the department through the supervisor for approval prior to data collection;
- [d] Complete required course work in the first year;
- [e] Undertake research and write a dissertation of 25 000 to 30 000 words within one academic year after completion of coursework.

3. Science Education with Focus on Environmental Education

Students focusing on environmental education will take the following courses:

EDF 600 – 3 or EDF 670 -3	Theory of Environmental Education and Sustainability* (SCE 626-4)
EDF 691 – 3	Global Environmental Issues and the Curriculum (SCE 627-3)
*EDF 670 – 3	History & Philosophy of Science Teaching (SCE 622 – 3) or Science, Technology and Society (SCE 623 -3) [15 Credit hours of SCE courses]
[9 Credit hours of EDF courses]	Professional Development in Agriculture, Mathematics and Science Teachers* (SCE 624 - 4)
	Minimum of 3 credit hours of relevant 3 rd or 4 th Year Science content
27 Credit Hours	

YEAR II

- SCE 699 - 30 Dissertation for Mode I Students
- SCE 698 –12 Dissertation for Mode II Students

2. Science Education Option

[a] Science Education with Focus on Teaching

Students majoring in mathematics education with focus on teaching will take the following courses:

EDF 600 – 3 or EDF 670 -3	Advanced Curriculum Studies in Science* (SCE 620 - 4)
EDF 691 – 3	Curriculum Development & Innovation in Science (SCE 621 - 4)
*EDF 670 – 3	History & Philosophy of Science Teaching (SCE 622 – 3) or Science, Technology and Society (SCE 623 -3) [15 Credit hours of SCE courses]
[9 Credit hours of EDF courses]	Professional Development in Agriculture, Mathematics and Science Teachers* (SCE 624 - 4)
	Minimum of 3 credit hours of relevant 3 rd or 4 th Year Science content
27 Credit Hours	

b] Science Education with Focus on Curriculum Development

Students majoring in science education with focus on curriculum development will take the following courses:

EDF 631 – 3	Advanced Curriculum Studies in Science (SCE 620 - 4)
EDF 685 – 3	Curriculum Development & Innovation in Science* (SCE 621 - 4)
*EDF 691 – 6	History & Philosophy of Science Teaching (SCE 622 – 3) or Science, Technology and Society (SCE 623 -3) [15 Credit hours of SCE courses]
	Professional Development in Agriculture, Mathematics and Science Teachers* (SCE 624 - 4)
[9 Credit hours of EDF Courses]	A minimum of 3 credit hours of relevant 3 rd or 4 th Year Science content
27 Credit Hours	

[ii] Mode II: Coursework and Dissertation

A student following **Mode II** of the study shall normally:

- [a] Take a minimum of 30 credit hours of coursework within one academic year;
- [b] Present a research proposal through the supervisor to the department prior to data collection;
- [c] Complete coursework within one academic year.
- [d] Undertake research and write a dissertation of 12 000 to 16 000 words within one academic year after completion of coursework.

Curriculum

Year I

- [a] All **Mode I** students shall take the following courses:

EDF 691 - 6	Educational Research Methods
SCE 697 - 3	<i>Preliminary Research Project in Mathematics or Science Education</i>
SCE 699 - 30	<i>Dissertation for Mode I Students</i>

- [b] All **Mode II** students shall take the following courses:

- [i] **Educational Foundations Courses:** Depending on their areas of interest, all students will take a minimum of 9 credit hours of EDF courses, including ***EDF 691-6: Educational Research Methods** from the following:

EDF 600-3	Testing and Measurement
EDF 601-3	Advanced Testing and Measurement in Education
*EDF 631-3	Curriculum Development
*EDF 670-3	Advanced Psychology of Learning
EDF 685-3	Education and National Development
*EDF 691-6	Educational Research Methods

- [ii] **Science Education Courses:** Depending on their areas of specialization, students shall choose a minimum of 15 credit hours of SCE courses from the following:

M.SC.ED. DEGREE – COURSES FOR MODE II

In years I and II Mode II students will take a minimum of 42 credit hours of courses, including dissertation.

YEAR I

1. Mathematics Education Option

[a] Mathematics Education with Focus on Teaching:

Students majoring in mathematics education with focus on teaching will take the following courses:

EDF600-3 or EDF 670 -3	Advanced Curriculum Studies in Mathematics* (SCE 610 - 4)
*EDF 691-6	Curriculum Development & Innovation in Mathematics (SCE 611 - 4)
	History & Philosophy of Mathematics Teaching (SCE 612 – 3) or Science, Technology and Society (SCE 623-3) [15 credit hours of SCE courses]
[9 hours of EDF]	Professional Development in Agriculture, Mathematics and Science Teachers* (SCE 624 - 4)
	Minimum of 3 credit hours of relevant 3 rd or 4 th Year Mathematics content
27 Credit Hours	

[b] Mathematics Education with Focus on Curriculum Development

Students majoring in mathematics education with focus on curriculum development will take the following courses:

EDF 600 – 3	Advanced Curriculum Studies in Mathematics* (SCE 610 - 4)
EDF 631 – 3	Curriculum Development & Innovation in Mathematics (SCE 611 - 4)
*EDF 691 – 6	History & Philosophy of Mathematics Teaching (SCE 612 – 3) or Science, Technology and Society (SCE 623-3) [15 Credit hours of SCE Courses]
[9 hours of EDF courses]	Professional Development in Agriculture, Mathematics and Science Teachers* (SCE 624 - 4)
	Minimum of 3 credit hours of relevant 3 rd or 4 th Year of Mathematics content
27 Credit Hours	

- *SCE 610-4 Advanced Curriculum Studies in Mathematics
- *SCE 611-4 Curriculum Development & Innovation in Mathematics
- SCE 612-3 History & Philosophy of Mathematics Teaching
- *SCE 620-4 Advanced Curriculum Studies in Science
- *SCE 621-4 Curriculum Development & Innovation in Science
- SCE 622-3 History & Philosophy of Science Teaching
- SCE 623-3 Science, Technology and Society
- *SCE 624-4 Professional Development in Agriculture, Mathematics and Science Teachers
- *SCE 625-4 Advanced Curriculum Studies in Agriculture
- SCE 626-4 Theory of Environmental Education and Sustainability
- *SCE 627-3 Global Environmental Issues and the Curriculum
- SCE 628-3 Alternative Conceptions in Environmental Learning
- *SCE 629-4 Environmental Education Teaching Strategies
- *SCE 630-4 Environmental Learning and Teaching Resources
- SCE 631-4 Indigenous “Environmental” Thought, Education and Research

Content Courses All **Mode II** students will be required to take a minimum of 3 credit hours of content courses from a relevant faculty depending on the area of specialization.

Year II

- [i] All **Mode I** students shall take **SCE 699 – 30**: Dissertation for Mode I Students
- [ii] All **Mode II** students shall take **SCE 698 - 12**: Dissertation for Mode II Students

M. SC. ED. DEGREE

The symbol “*” shows core courses.

M.Sc.Ed. Degree – Courses for First Year of Mode I
*EDF 691 - 6
*SCE 697 - 3
*SCE 699 - 30
39 credit hours