

M.ED. (SCIENCE EDUCATION)

FACULTY OF EDUCATION, UNIVERSITY OF MALTA

For all science teachers who wish to develop their practice and enhance their professional development.

M.ED. (SCIENCE EDUCATION)

The M.Ed. (Science Education) course is intended for science education professionals who wish to develop their experiences of teaching science in schools. The main aim is for science teachers to develop their skills and reflect critically and constructively on their practical experiences in schools. These practical experiences are then linked to both research as well as to the theoretical, social and cultural implications of science education.

The course offers science teachers the opportunity to:

- Reflect on the aims and purposes of science education.
- Evaluate current research trends.
- Update knowledge of pedagogic practices.
- Critically evaluate current policy decisions in the area of science education.

COURSE CONTENT

The M.Ed. (Science Education) includes a number of core study units in Research Methods.

The course then includes four study units in the area of Science Education. Three of these study units are compulsory and one study unit is an elective.

Students will also be asked to complete a dissertation based on original research carried out in a specific area of Science Education.



Science Education Study Units

Compulsory:

- The Science Curriculum
- Learning and Assessment in Science Education
- Current Trends in Research in Science Education

Elective:

Students can choose **one** of the following study units:

- Science Education for Sustainable Development
- Science & Society

M.Ed.(Science Education) Course Tutors:
Dr. Deborah Chetcuti (Co-ordinator); Dr. Charles Bonello; Dr. Patrick Camilleri;
Dr. Josette Farrugia; Dr. Suzanne Gatt; Dr. Martin Musumeci; Prof. Paul Pace &
Prof. Frank Ventura.



Selection of candidates will be based on the following criteria (each awarded 20%):

- **Qualifications**
Degree and classification
- **Teaching Experience**
Years of teaching science
- **Research and Professional Development**
Dissertation, seminars and conferences attended
- **Professional Development Portfolio**
Evidence and reflection
- **Interview**
Clear intentions for professional development

ENTRY INTO THE COURSE REQUIRES DEVELOPMENT OF A PROFESSIONAL PORTFOLIO

Section 1: A detailed curriculum vitae.

This should include details of your degree, classification, teaching experience and other interests and contributions to teaching and the community.

Section 2: A philosophical statement.

This should be around 500 words and should include:

- How has your teaching experience contributed to your views about science education?
- How do you view your role as a science educator?

Section 3: Research and Professional Development.

This should include:

- Any research projects or curriculum development which you have been involved in.
- The abstract of the dissertation or long essay you presented for your first degree, together with the name of the supervisor and the grade obtained.
- A list conferences or any other professional activities which you have been involved in.

Write how these have helped you to grow professionally as a science teacher.

Section 4: A piece of reflective writing on the reasons for entering the course.