APPLICATION FOR ADMISSION

Students wishing to apply for admission to taught Masters degree programmes must do so in good time (about three months) before the commencement of Semester 1 (in the month of May) or Semester 11 (in the month of November) in any given academic session. However, fees are required to be paid on a semester basis.

For further information, please contact:

Head
Department of Physics
Faculty of Science
University of Malaya
50603 Kuala Lumpur
Malaysia
Tel: 603-79674206/4385 Fax: 603-79674146
E-mail: ketua_fizik@um.edu.my
E-mail: cswong@um.edu.my
Website: http://fizik.um.edu.my

Applications must be made using the appropriate application form obtainable from:

The Post Graduate Admissions Unit
Institute of Postgraduate Studies
University of Malaya
50603 Kuala Lumpur
MALAYSIA
Tel: 603-79674600/4601 Fax: 603-79568940/79594606
E-mail: unitmas@um.edu.my
Website: http://ips.um.edu.my

MASTER OF SCIENCE
(APPLIED PHYSICS)
Postgraduate Degree by Coursework

Department of Physics
Faculty of Science
University of Malaya
50603 Kuala Lumpur
MALAYSIA
INTRODUCTION TO FACULTY
The Faculty of Science is one of the first faculties to be set up at University of Malaya in 1959. Today, it has a student population of more than 5000 with a thriving postgraduate community that is multi-national. Over 95% of its academic staff have a PhD qualification and the faculty continues to build on their talent and experience to enhance the quality of its research and teaching. Research findings by members of the faculty are published in refereed local and international journals. In addition, the Faculty is known for its cutting-edge research which is supported by well-equipped laboratories and advanced equipment and facilities.

The Faculty has two institutes and four departments: the Institute of Biological Sciences, Institute of Mathematical Sciences, Department of Chemistry, Department of Geology, Department of Physics and Department of Science and Technology Studies.

The Department of Physics
The Department of Physics has seen tremendous growth since its inception in 1959. The academic staff members are actively involved in many areas of physics research. The strength of the Department lies in the areas of solid state physics, plasma physics, applied radiation, laser physics, photonics, solid state ionics, advanced materials, polymer physics, space physics as well as theoretical physics. The quality of research is of international standing with staff members regularly publishing in highly reputed international. Beside research, some of the staff members also carry out consultancy work for local as well as international companies such as Tenaga Nasional Research & Development (TNRD), Nippon Glass (Japan) and Ciba Vision (USA). All the academic and consultancy activities provide the essential background for postgraduate training.

FACILITIES (includes library)
There are 16 laboratories in the Physics Department, some of which are designated as teaching laboratories while others as research laboratories or both. The department is fortunate to have a mechanical workshop equipped with state-of-the art machines such as the CAD-CAM tool and an electronics workshop which are essential in supporting the research works carried out.

PROGRAMME
MASTER OF SCIENCE (Applied Physics)
Programme Objective:
Masters of Science (Applied Physics) programme is made up of a coursework component and a short research component.

Period of Candidature:
2 semesters (minimum)
10 semesters (maximum)

LANGUAGE REQUIREMENTS
The medium of instruction is in English. International students are required to attend and pass a basic course in Bahasa Melayu before the degree can be conferred. If they intend to write their dissertation/thesis in English they must possess at least band 5 IELTS or a score of 550 TOEFL if they had obtained their Bachelor's degree from a university in which the medium of instruction is other than English.

ADMISSION REQUIREMENTS
Applicants should possess:
1. Bachelor of Science with Honours in Physics or equivalent; or
2. Bachelor of Science in Physics with at least 3 years of working experience in a relevant field; or
3. Professional qualification from a recognised professional body.

COURSE MODULE
Core Courses (24 credits)
SMGS6111 Measurement Techniques and Instrumentation (3)
SMGS6112 Computational Techniques (3)
SMGS6113 Industrial Management (3)
SMGS6161 Case Study Seminar (3)
SMGS6191 Research Project (10)
SMGS6171 Applied Physics Laboratory (2)

Elective Courses (choose at least 12 credits)
Two modules to be selected from the following:
Semiconductor Technology
SMGS6341 Semiconductor Devices (3)
SMGS6411 Semiconductor Technology (3)
Lasers & Photonics
SMGS6412 Photonics Technology (3)
SMGS6342 Optoelectronics (3)
Materials Science
SMGS6343 Materials Science (3)
SMGS6413 Advanced Materials Science (3)
Plasma Technology
SMGS6344 Plasma Technology (3)
SMGS6414 Plasma Devices (3)
Radiation Technology
SMGS6345 Radiation Technology (3)
SMGS6415 Radiation Protection (3)