The Ph.D. and M.Sc. by research/dissertation programmes provide a comprehensive training in research on specific fields of physics through exploration and experimentation. The duration of study for the M.Sc. programme is a minimum of 2 semesters not exceeding 10 semesters. For the Ph.D. programme, it is not less than 4 semesters and a maximum of 16 semesters. A M.Sc. student who finds that his/her research work shows promising potential for upgrading to a higher academic level after a duration of study of 12 months but not exceeding 15 months may request for conversion to Ph.D. candidature. The candidate is required to submit a proposal for the conversion and give a seminar which will be assessed by assessor(s) appointed by the Higher Degree Committee of the Faculty of Science. The final stamp of approval for the conversion is from the Senate on the advice of the Faculty of Science.

Upon completion of the research, the candidate is required to submit a dissertation on his/her research findings for examination. The M.Sc. dissertation will be examined by an external examiner and an internal examiner. Two external examiners (one of which must be from a renowned institution overseas) and an internal examiner are required to examine the Ph.D. thesis. The examiners are appointed by the Senate on the advice of the Faculty of Science.

The variety of the postgraduate research projects carried out in the Physics Department depends on the expertise of the academic staff. The various topics of research currently undertaken can be found in the webpage of the various research groups (http://fizik.um.edu.my/cgi-bin/turas?htf=+index.whtml&bhs=egl)

Entry requirements:

For Dissertation Master’s programme:
- Bachelor’s Degree (Hons.) in Physics or its equivalent, OR
- Bachelor’s Degree plus ≥ 3 yrs’ of relevant work experience plus proof of publication in related field.

For Ph.D. Programmes by research:
- Master’s Degree or its equivalent in the related field.

Special consideration – direct to PhD:
A Bachelor’s Degree with CGPA ≥ 3.7 plus satisfactory progress & seminar presentation of progress of research

For other details, please visit the Institute of Graduate Studies webpage at: http://ips.um.edu.my/