COURSE OBJECTIVES:

MSc in Petroleum Geology
And
MSc in Petroleum Geoscience
In Kuala Lumpur

OUR MISSION AND VISION

University of Malaya Petroleum Geology MSc Programme

Mission:
Develop a world-class Petroleum Geology MSc course at the University of Malaya, the principal one serving the needs of the Southeast Asian petroleum industry and fully preparing graduates for increasingly complex subsurface technical issues.

Vision:
In 5 years time the Geology Department at University Malaya will be serving the local petroleum industry with the expert geological graduates it needs, by attracting high-quality students from Malaysia and overseas, including a substantial proportion of BSc geoscientists already employed in Industry.

FOR FURTHER INFORMATION, CONTACT:
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Petroleum Geology MSc Programme
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INTERNATIONAL COOPERATION AND INDUSTRY SUPPORT

The Department utilizes state-of-the-art industry interpretation and analytical software in its classroom training and research programmes, through kind donations by Landmark, Midland Valley, Roxar, Schlumberger, Seismic Micro-Technology, and Senergy.

Data for classroom training and projects have been donated by Petronas, U.S. Department of Energy, Texas Bureau of Economic Geology, and government agencies in Australia and New Zealand.

ENTRY REQUIREMENTS

Students applying for this programme should have a bachelor's degree, or equivalent, in an earth science or other sciences/engineering degree from a Malaysian university, or its equivalent from an overseas academic institution as recognized by the University of Malaya Senate. We require a CGPA of 3.0 (out of 4) or above. Candidates with lower CGPA but with relevant work experience may be considered. A minimum working experience of 3 years is required for those applying for MSc in Petroleum Geoscience. Non-Malaysian students must have achieved a TOEFL score of 550 or above, or IELTS Band 6.

PERIOD OF CADIDATURE

Minimum of 2 semesters for MSc Petroleum Geology and 3 semesters for MSc Petroleum Geoscience. Maximum of 10 semesters for both programmes.

COURSE FEE

Approximately RM 17,000.00 for Malaysian and RM 22,000.00 for non-Malaysian students.

ONLINE APPLICATION

Please visit the University of Malaya’s Institute of Graduate Studies for an online application form and additional information: http://ips.um.edu.my/

Following an extensive investigation into the needs of Petroleum industry employers in Kuala Lumpur and a review of the most respected Petroleum Masters programmes world-wide, UM has developed new course structures that will satisfy the needs of:

- Malaysian and foreign students aiming for a successful domestic or international career in petroleum geology
- Industry employers seeking to upgrade young staff to International MSc level.

These new course structures will form the basis for the 2011 academic year programme.

We aim to provide world-class Masters programmes that will produce a new generation of well-trained geoscientists able to confront the technical and practical challenges of the petroleum industry, particularly as it is reflected in the Malaysian context. We are open to and attract both Malaysian and foreign students and are open to students with an appropriate science or engineering first degree other than geology.
PROGRAMME OPTIONS

At UM, we offer 2 options

1. MSc in Petroleum Geology (coursework) – a full-time taught course
2. MSc in Petroleum Geoscience (70% research) to be offered starting 2011/2012
   • International as well as local students are sought
   • Students with industry experience are sought
   • High-achieving students with degrees in other disciplines are accepted

MSc in PETROLEUM GEOSCIENCE PROGRAMME

<table>
<thead>
<tr>
<th>Core Subjects</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>Research Dissertation</td>
<td>34</td>
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<tr>
<td>Petroleum Business Ventures and Field Analysis</td>
<td>4</td>
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Minimum credit for this mixed mode of coursework and dissertation is 48 – i.e. core subjects are compulsory (38 cr.) and minimum of 10 credits of elective subjects (choose at least 3 subjects upon consultation with supervisor). Fieldwork will be conducted during mid-semester break (between semesters I & II).

The MSc by course work programme includes an 8 week project/internship, catered to the student’s interests or incorporated into an ongoing project. The internship period for the 70% research programme will be 6 to 9 months

Companies that have participated in the internship programme to date include, Petronas Carigali, Petronas Research, Baker Hughes, ExxonMobil, Murphy Oil, Schlumberger, Shell, Talisman, Roxar, Orogenic Resources, and Dugeo.

PROGRAMME STAFF

- Prof. Dr. Wan Hasiah Abdullah -- Programme Coordinator - Petroleum Geochemistry, Organic Petrology
- Prof. Dr. Harry Doust -- (Shell Professor - Free University of Amsterdam) - Basin and Petroleum Systems Analysis / Exploration
- Prof. (emeritus) Dr. Charles Hutchison -- Regional Geology
- Dr. Ralph L. Kugler --Development Geology, Reservoir Modeling, Sedimentology, Diagenesis/Reservoir Quality
- Prof. Dr. Lee Chai Peng -- Paleontology, Sedimentology
- Dr. Pedro Barbeito -- Biostratigraphy, Field Geology
- Assoc. Prof. Dr. Samsudin Taib -- Geophysics
- Assoc. Prof. Dr. Ng Tham Fatt -- Field Geology, GIS
- Assoc. Prof. Mustaffa Kamal Shuib -- Structural Geology
- Dr. M. Aminul Islam -- Seismic Interpretation, Seismic Modeling
- Dr. M. R. Shalaby -- Petrophysics, Well-Log Analysis, Formation Evaluation
- Nur Islami Rahman -- Borehole Geophysics / Seismic Interpretation
- Meor Hakif bin Amir Hassan -- Sedimentology, Reservoir Characterisation
- International Staff

TRAINING SUPPORT

The Geology department at UM has state-of-the-art computing and analytical facilities:

Current Infrastructure

- **Hardware**
  - PC workstations in recently upgraded training room and in research labs
  - Sun workstations

- **Software**
  - Petrel
  - IRAP RMS
  - SeisWorks
  - Interactive Petrophysics
  - PetroMod
  - Oilfield Manager (OFM)
  - Hamson-Russel
  - ArcGIS
  - Kingdom Suite
  - Norsar 2D/3D, SeisRoX
  - MOVE (Midland Valley)
  - TechLog

International Cooperation and Industry Support

The Department is actively seeking collaboration with major, recognized universities for research and student/staff exchange. This cooperation will continue to be reflected in the contributions of internationally-known experts to important elements of the programmes.

The Department seeks industry support in terms of internships as part of the programmes.

The Department has received generous support from industry in support of field trips, internships/student projects, specialist lectures, and equipment/hardware. Major financial donors to the department include ConocoPhillips, ExxonMobil, Murphy, Shell, and Talisman.