DISCLAIMER

Every attempt is made to ensure that the Information in this Handbook is correct at the time of production.

The University may from time need to make changes and improvement to the contents.

(August, 2017)

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<table>
<thead>
<tr>
<th>Bil</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dean’s Message</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Deputy Dean’s Message</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Postgraduate Administration</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Management, Head of Departments &amp; Units , Academic Staff</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Departments at The Faculty</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>Units of The Faculty</td>
<td>31</td>
</tr>
<tr>
<td>7</td>
<td>Educational Goals of The University of Malaya</td>
<td>35</td>
</tr>
<tr>
<td>8</td>
<td>Vision and Mission of Faculty of Medicine UM</td>
<td>36</td>
</tr>
<tr>
<td>9</td>
<td>History of the Faculty of Medicine UM</td>
<td>37</td>
</tr>
<tr>
<td>10</td>
<td>Academic Calendar</td>
<td>40</td>
</tr>
<tr>
<td>11</td>
<td><strong>Postgraduate’s Programme</strong></td>
<td>42</td>
</tr>
<tr>
<td>11.1</td>
<td>Master of Anaesthesiology (MAnaes)</td>
<td>42</td>
</tr>
<tr>
<td>11.2</td>
<td>Master of Clinical Oncology (MCO)</td>
<td>49</td>
</tr>
<tr>
<td>11.3</td>
<td>Master of Emergency Medicine (MEmMed)</td>
<td>55</td>
</tr>
<tr>
<td>11.4</td>
<td>Master of Family Medicine (MFamMed)</td>
<td>61</td>
</tr>
<tr>
<td>11.5</td>
<td>Master of Internal Medicine (MIntMed)</td>
<td>68</td>
</tr>
<tr>
<td>11.6</td>
<td>Master of Medical Physics (MMedPhysics)</td>
<td>75</td>
</tr>
<tr>
<td>11.7</td>
<td>Master of Medical Science in Clinical Pathology (MMedScClinPath)</td>
<td>83</td>
</tr>
<tr>
<td>11.8</td>
<td>Master of Nursing Science Degree (MNSc)</td>
<td>91</td>
</tr>
<tr>
<td>11.9</td>
<td>Master of Obstetrics and Gynaecology (MObGyn)</td>
<td>102</td>
</tr>
<tr>
<td>11.10</td>
<td>Master of Ophthalmology (MOphthal)</td>
<td>108</td>
</tr>
<tr>
<td>11.11</td>
<td>Master of Orthopaedic Surgery (MOrthSurg)</td>
<td>115</td>
</tr>
<tr>
<td>11.12</td>
<td>Master of Otorhinolaryngology - Head &amp; Neck Surgery (MSurOrl-HNS)</td>
<td>121</td>
</tr>
<tr>
<td>11.13</td>
<td>Master of Paediatrics (MPaeds)</td>
<td>127</td>
</tr>
<tr>
<td>11.14</td>
<td>Master of Paediatric Surgery (MPaedSurg)</td>
<td>133</td>
</tr>
<tr>
<td>11.15</td>
<td>Master of Pathology (Anatomical Pathology) / (Haematology) / (Chemical Pathology) / (Medical Microbiology) / (Forensic Pathology)</td>
<td>139</td>
</tr>
<tr>
<td>11.16</td>
<td>Master of Psychological Medicine (MPM)</td>
<td>145</td>
</tr>
<tr>
<td>11.17</td>
<td>Master of Public Health (MPH)</td>
<td>151</td>
</tr>
<tr>
<td>11.18</td>
<td>Master of Radiology (MRad)</td>
<td>168</td>
</tr>
<tr>
<td>11.19</td>
<td>Master of Rehabilitation Medicine (MRehabMed)</td>
<td>175</td>
</tr>
<tr>
<td>11.20</td>
<td>Master of Sports Medicine (MSpMed)</td>
<td>182</td>
</tr>
<tr>
<td>11.21</td>
<td>Master of Surgery (MSurg)</td>
<td>189</td>
</tr>
<tr>
<td>11.22</td>
<td>Master of Medical Science (MMedSc)</td>
<td>195</td>
</tr>
<tr>
<td></td>
<td>By Research</td>
<td>195</td>
</tr>
<tr>
<td></td>
<td>By Coursework and Research</td>
<td>197</td>
</tr>
<tr>
<td>11.23</td>
<td>Doctor of Medicine (MD)</td>
<td>203</td>
</tr>
<tr>
<td>12</td>
<td>Award For The Best Student</td>
<td>204</td>
</tr>
<tr>
<td>13</td>
<td>Statistics</td>
<td>207</td>
</tr>
<tr>
<td>14</td>
<td>Faculty Facilities</td>
<td>209</td>
</tr>
<tr>
<td>15</td>
<td>Campus Facilities</td>
<td>214</td>
</tr>
<tr>
<td>16</td>
<td>Faculty Building Plan</td>
<td>216</td>
</tr>
<tr>
<td>17</td>
<td>Map Campus</td>
<td>217</td>
</tr>
</tbody>
</table>
Welcome to the Faculty of Medicine.

I am delighted that you have chosen to study at the University of Malaya. The Faculty of Medicine University of Malaya prides itself in being the oldest medical school with the largest post graduate clinical and research based post graduate programs in the country.

Whether you are pursuing a Clinical Masters in Medicine program or a graduate research program ie an MSc, PhD or DrPH, you are now part of the largest Faculty in the University, joining over 3082 full-time and part-time undergraduate and postgraduate students including more than 500 postgraduate researchers.

The Faculty is fortunate to have a large number of very experienced academic staff who oversee high-quality teaching and research programmes provided at the Faculty. We are also privileged to have a large and busy tertiary care teaching hospital on site with the widest range of clinical specialities and subspecialties provided by any hospital in the country.

To those pursuing the Clinical Masters program, the experience and training that you will receive at the University Malaya Medical Centre and the Faculty of Medicine will certainly prepare you for your years ahead as a specialist.

For those undertaking a research based postgraduate programme you will join in a long tradition of research undertaken at the Faculty of Medicine that has made major contributions to the understanding of a wide range of diseases and conditions that has led to better patient outcomes and to improvement in public health policies. We pride ourselves in providing the highest quality laboratory and study facilities for our students and postgraduate researchers. The Faculty offers a stimulating study and research environment with recent investment in the state-of-the-art equipment and research facilities. The Faculty of Medicine have also developed a vast network of international collaborations which provide further opportunities to enrich your learning and research experience.

I wish you every success and enjoyment in your time here and warmly welcome you to the Faculty.

PROFESSOR DATO’ DR. ADEeba BINtI KAMARULZAMAN
Dean
Faculty of Medicine
Welcome to the University of Malaya and the Faculty of Medicine! To those of you from overseas, welcome to Malaysia!

I extend my warmest congratulations to you all on your fresh start. I hope that the next few years will turn out to be a most happy, meaningful and memorable time of your life.

Please always feel free to discuss any problem with your supervisors and academic staff. You are also most welcome to come to see us at the Dean’s office.

I would like to share with you an episode from Hikayat Abdullah (Abdullah’s Story), a Malay literary classic, about a son who was learning languages from his father. The boy did not want to study but instead wanted to have fun with his friends playing outside. At one point, he had enough and burst out saying “I'm sick of studying!”

Observing this, his mother calmly and gently, yet persuasively, said to him, “Even if we leave you an inheritance, if you are unlucky, it can vanish in an instant. But sound knowledge and learning are not like that. They stay with you until you die.” The boy’s name was Abdullah and he grew up to be a renowned language teacher who played an important role in shaping modern Malay literature.

I sincerely ask you to bear this story in mind as you go on to accumulate knowledge, skills and experience in the coming years. Whether in the hospital ward, in the outpatient clinic, in the community or in the laboratory, your subject of study in medicine is ultimately life itself. I hope you will take great pride in this fact and apply yourselves to your studies earnestly and with great humility.

The famous French novelist Victor Hugo wrote in the novel, Les Miserables, ”There is a prospect greater than the sea, and it is the sky; there is a prospect greater than the sky, and it is the human soul.” Indeed, life is the most precious treasure. I hope that in the course of your studies in the Faculty of Medicine, you will discover even more how fascinating and precious life is and dedicate yourselves to studying, protecting, supporting, healing and nurturing it.

With these words of encouragement, all of us in the Faculty of Medicine warmly welcome you once again, wishing you good health and every success in all your endeavours. Please also convey our gratitude and best wishes to your parents and family members who have continued to support you to this day.

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</tr>
</thead>
<tbody>
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Dr Yee Hway Ann @ Anne Yee  
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Dr Zuraida Ahmad Sabki  
MD (Mal), MPM (Mal)
2017/2018 POSTGRADUATE HANDBOOK

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Associate Professor Dr Vinod Pallath PhD (India), MSc (India), BSc (India)

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Graduates of the University of Malaya will be able to:

1. Demonstrate knowledge and skills in their field of study, appropriate research and professional practices, and the processes of critical thinking, creative thinking, and problem solving.

2. Use effective methods including contemporary technology to manage information, to achieve diverse professional goals aligned with professional standards and make decisions based on appropriate data and information.

3. Engage in continuous self-improvement and professional growth, support the professional development of others, and display positive leadership and professional behaviours and disposition for effective practice.

4. Communicate effectively with other professionals, and the community, and project a coherent vision of social responsibilities.

5. Appreciate and continue to be guided by the University’s core values of integrity, respect, academic freedom, open-mindedness, accountability, professionalism, meritocracy, teamwork, creativity and social responsibility.
VISION

To become a Centre of Excellence in Medicine

MISSION

To become a premier medical centre that is world renowned and to provide excellent health care, education, and research programmes delivered with efficiency, sensitivity and enthusiasm.
HISTORY OF FACULTY OF MEDICINE
The University of Malaya was established on 8 October 1949 as a national institution to serve the higher educational needs of the Federation of Malaya and of Singapore. In 1960, the Government of the Federation of Malaya indicated that the Kuala Lumpur Division of the University of Malaya should become the national University in the Federation with effect from the beginning session 1962/63. Likewise, the Singapore Division should become the national University of Singapore. Steps to achieve the establishment of these two separate universities were finalized during the year 1961 and the University of Malaya was established on 1st January 1962. The student population at that time was about 330. Since then, the University has grown and developed rapidly. Today, the student population has grown to almost 30,000.

Establishment of the Faculty of Medicine at the University of Malaya

Up to the 1950's, the Faculty of Medicine, University of Singapore, which was known previously as King Edward VII College of Medicine had been the only medical school in Malaya and Singapore. The output of doctors at that time was small: 60 per year. Many Malaysians had to go overseas to seek undergraduate medical education. It was not until 1960 that a determined effort was made to double the intake of students to 120 per year in Singapore. In 1960, a board of studies of the University of Malaya was appointed to study the feasibility of establishing a medical school with its own teaching hospital. The board recommended the early establishment of both.

To this end, the Government agreed and the Ministries of Education and of Health provided the necessary capital funds. In 1962, a Dean for the Faculty of Medicine was appointed.
The first batch of medical students was admitted to the Faculty in 1964. A year earlier, these students, 40 of them, were placed in the Faculty of Science as pre-medical students. Construction of the faculty building began in July 1963, was completed in 10 months, so that the pioneer students were able to begin their course in May 1964. The building programme continued and the second phase was ready in time for Year II teaching the following May. Throughout this period, planning, building, ordering and receiving of equipment, recruitment of staff, organization of the Faculty, and discussions on the curriculum continued unremittingly. Phase I of the University Malaya Medical Centre consisting of the main block together with podium or “technical box” (operating theatres, radio-diagnostic, accident and emergency, polyclinic, pharmacy, central sterile supply, cafeteria, administration and medical records) was completed in December 1966, and the first wards were opened as on March 1967. Phase II of the Hospital consisting of Paediatric, Maternity and Rehabilitation Units was completed in December 1967, and became functional in March 1968. The total construction period for the Medical Centre consisting of the faculty departments, hospital (740 beds), Hostel for Clinical Students, Nurses Quarters with Nursing School and Central Animal House was three and a half years. Over the past three decades, the medical centre has expanded tremendously, and today it has 900 beds (the number will be increased to 1200 beds after renovation).

**Philosophy of the Faculty of Medicine**

The philosophy of the Faculty is to mould students to be competent, highly-skilled and knowledgeable health professionals, who can work with others as a team, who are caring and concerned about their patients and society, and who can emerge as leaders in their community.
## TERM SYSTEM
(52 weeks including introduction week, revision and exam)

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction Week</td>
<td>30.5.2017 – 07.06.2017</td>
</tr>
<tr>
<td>Courses/Placement</td>
<td>08.06.2017 – 31.12.2017</td>
</tr>
<tr>
<td>Revision / Exam part I/II/III/Final*</td>
<td>October/November 2017</td>
</tr>
<tr>
<td>Courses / Placement</td>
<td>01.01.2018 – 31.5.2018</td>
</tr>
<tr>
<td>Revision / Exam I/II/III/Final*</td>
<td>April/May 2018</td>
</tr>
</tbody>
</table>

* Examination Schedule according to the program of study
<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction Week</strong></td>
<td>1 week</td>
</tr>
<tr>
<td>Lectures</td>
<td>7 weeks*</td>
</tr>
<tr>
<td>Mid Semester Break</td>
<td>1 week</td>
</tr>
<tr>
<td>Lectures</td>
<td>7 weeks*</td>
</tr>
<tr>
<td>Revision Week</td>
<td>1 week*</td>
</tr>
<tr>
<td>Examination</td>
<td>2 weeks*</td>
</tr>
<tr>
<td>Inter Semester Break</td>
<td>4 weeks*</td>
</tr>
<tr>
<td></td>
<td><strong>-------------------</strong></td>
</tr>
<tr>
<td></td>
<td><strong>22 weeks</strong></td>
</tr>
</tbody>
</table>

**SEMINAR II**

| Lectures                  | 7 weeks                                   |
| Mid Semester Break        | 1 week                                    |
| Lectures                  | 7 weeks*                                  |
| Revision Week             | 1 week*                                   |
| Examination               | 3 weeks                                   |
|                          | **-------------------**                      |
|                          | **19 weeks**                               |

**SESSION BREAK/SPECIAL SEMESTER**

| Session Break             | 12 weeks or                              |
| Lectures & Examination   | 12 weeks                                 |
|                          | **-------------------**                      |
|                          | **49 weeks**                              |

**NOTE**

* Aidil Adha Public Holiday on 01.09.2017
  Malaysia Day Public Holiday on 16.09.2017
  Awal Muharam on 14.10.2017
  Deepavali Public Holiday on 18.10.2017
  Maulidur Rasul on 1.12.2017
  Christmas Public Holiday on 25.12.2017
  New Year on 01.1.2018
  Thaipusam on 31.01.2018
  Chinese New Year Public Holiday 16 & 17.02.2018
  Labour Day on 01.05.2018
  Aidil Fitri Public Holiday on 15 & 16.06.2018
Name of Programme : Master of Anaesthesiology
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Anaesthesiology programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate;

and

(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.

(2) The maximum duration of study shall be seven years.

4. Structure of Programme

The programme of study comprises three stages as follows:

(1) Stage I in the first year of study encompassing clinical training in basic skills in anaesthesia and resuscitation for patient management

(2) Stage II comprising training in the second and third year of study in:

(a) clinical anaesthesiology and in non-anaesthesiology postings undertaken in rotation such as general medicine, radiology, emergency medicine, or any other posting as may be approved by the Department responsible for the candidate’s programme of study; and

(b) Research methodology, including the conduct of a research project in any field of anaesthesia, intensive care or pain management.

(3) Stage III comprising clinical training in the fourth year in specialised fields of anaesthesiology or intensive care or of anaesthesiology and intensive care.
(4) A candidate is required to maintain a log book throughout his period of study to document tasks undertaken.

5. Registration

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of the programme of study if he has -

(a) a minimum of two years experience in clinical anaesthesiology in a hospital recognised by the Faculty and passed any one of the examinations listed below-

(i) the Primary Examination of the Royal College of Anaesthetists;

(ii) the Primary Examination of the Australian and New Zealand College of Anaesthetists;

(iii) the Primary Examination of the Faculty of Anaesthetists of the Royal College of Surgeons of Ireland;

(iv) the Primary Examination for the degree of Master of Medicine in Anaesthesia of the National University of Singapore;

(v) the Part II Examination of the Royal College of Anaesthetists;

(vi) the Part II Examination of the Faculty of Anaesthetists of the Royal College of Surgeons of Ireland; or

(vii) any other examination as may be approved from time to time by the Senate on the recommendation of the Faculty; or

(b) a minimum of three years clinical anaesthesiology experience in a hospital recognised by the Faculty, but has not passed any of the above examinations.

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his programme of study in other hospitals or centres recognised by the Faculty;

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.
8. **Title of Research**

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. **Submission**

(1) A candidate is required to submit his log book and posting reports not later than one month before the Final Examination.

(2) A candidate is required to submit his research report not later than six months before the Final Examination.

10. **Examinations for the Degree**

(1) The Examinations leading to the degree shall be as follows:

   (a) the Part I Examination

   (b) the Final Examination

(2) No candidate shall be permitted to sit for the Final Examination unless he has –

   (a) passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he passed any one of the examinations listed below:

      (i) the Primary Examination of the Royal College of Anaesthetists;

      (ii) the Primary Examination of the Australian and New Zealand College of Anaesthetists;

      (iii) the Primary Examination of the Faculty of Anaesthetists of the Royal College of Surgeons of Ireland;

      (iv) the Primary Examination for the degree of Master of Medicine in Anaesthesia of the National University of Singapore;

      (v) the Part II Examination of the Royal College of Anaesthetists UK;

      (vi) the Part II Examination of the Faculty of Anaesthetists of the Royal College of Surgeons of Ireland; or

      (vii) passed any other examination as may be approved from time to time by the Senate on the recommendation of the Faculty;

   (b) submitted his log book and posting reports not later than one month before the Final Examination; and

   (c) completed and submitted his research report six months prior to the Final Examination.

(3) (a) The Part I Examination shall be held at the end of the first year of the programme of study. The Final Examination shall be held at the end of the fourth year of the programme of study.
(b) The theory examination will be held within six weeks before the VIVA examination.
(c) Only candidates who passed the theory examination will be invited for the VIVA examination.

(4) Examination Subjects and Allocation of Marks

(a) Part I Examination

The subjects of the Part I examination and the marks to be allocated to each subject shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject: Pharmacology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Written Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBGE6101 Paper I</td>
<td>Multiple Choice Questions</td>
<td>30</td>
</tr>
<tr>
<td>MBGE6102 Paper 2</td>
<td>Essay and Short Answer Questions</td>
<td>30</td>
</tr>
<tr>
<td>B. Oral Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBGE6121 Viva Voce</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Subject: Physiology and Clinical Measurements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Written Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBGE6104 Paper I</td>
<td>Multiple Choice Questions</td>
<td>30</td>
</tr>
<tr>
<td>MBGE6105 Paper 2</td>
<td>Essay and Short Answer Questions</td>
<td>30</td>
</tr>
<tr>
<td>B. Oral Section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBGE6122 Viva Voce</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

(b) Final Examination

The sections of the Final examination and the marks to be allocated to each section shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MBGE6236 Paper 1</td>
<td>Multiple Choice Questions</td>
</tr>
<tr>
<td></td>
<td>MBGE6237 Paper 2</td>
<td>Essay Questions</td>
</tr>
<tr>
<td>B. Clinical</td>
<td>MBGE6243 Long Case</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MBGE6250 Viva Voce</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has:

(a) Part I Examination
(i) On his first attempt, sat for both subjects; and

(ii) Obtained 50% or more of the marks for each subject of the examination; and

(iii) Passed both sections (written and oral) for each subject of the examination.

(b) Final Examination

Obtained 50% or more of the marks for each component of the Examination.

The written Examination will be held within six (6) weeks prior to the clinical Examination. Only candidate that passes the written Examination (component A), will be allowed to sit the Clinical Examination (Component B). A candidate who fails the clinical Examination will have to Re-Sit the written Examination before attempting the Clinical Examination again.

(6) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a Re-examination on three separate occasions at six monthly intervals.

(ii) The Part I Re-Examination shall consist of the same subjects and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A Candidate who has failed the Part I Examination/Re-Examination but whose marks on one of the two subjects has equaled or exceeded 50% shall be permitted to count the marks of that subject towards the marks for that subject in a subsequent Part I Re-Examination, subject to the approval of Faculty. The candidate is required to sit only for the subject in a subsequent Re-Examination in which he has failed.

(iv) A candidate who fails the Re-examination on the third occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a Re-examination on separate occasions at six monthly intervals until the maximum period of study is reached.

(ii) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.

Candidates that have passed the written examination but failed the clinical examination are only required to sit/repeat the clinical examination. The results of the written examination are valid only for one year.

(iii) A candidate who fails the Re-examination on the final occasion ie at maximum period of study shall be deemed to have failed the Final
Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(d) A candidate who has passed the Re-examination for the Examinations above shall be deemed to have passed the prescribed Examinations.

11. **Award of Degree**

No candidate shall be recommended for the award of the Degree of Master of Anaesthesiology unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

**(1) Award of Pass with Distinction for the Examination**

A candidate may be awarded a Pass with Distinction in the Part I Examination and the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

**(2) Award of the Degree with Distinction**

A candidate may be awarded the degree of Master of Anaesthesiology with Distinction if he –

(a) has passed with Distinction in the Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
### Master of Anaesthesiology Programme Schedule

<table>
<thead>
<tr>
<th>STAGE</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **STAGE I**
  - Year 1: Basic Anaesthesiology
  - Year 2: Clinical Anaesthesiology and Non-Anaesthesiology Posting in rotation
  - Year 3: Clinical Anaesthesiology and Non-Anaesthesiology Posting in rotation
  - Year 4: Clinical training in specialized fields of Anaesthesiology and/or intensive Care

- **Registration** (Entrance Evaluation)
- **Part I Examination**
- **Final Examination**
Name of Programme : Master of Clinical Oncology
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Clinical Oncology is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(b) At least two years of post-full registration clinical experience approved by the Senate including one year in one or more of the following disciplines:

- Internal medicine
- Any Surgical Specialty
- Obstetrics and Gynaecology
- Paediatrics

*This one year (minimum) must have been undertaken within the last 5 years from the point of entry into the programme.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.
(2) The maximum duration of study shall be seven years.

4. Structure of Programme

The programme of study comprises two stages as follows:

(1) Stage I in the first year of study comprising:

(a) teaching in basic oncological sciences, cancer pathology, radiotherapy physics and medical statistics;

(b) clinical training with continuous assessment and log book

(2) Stage II in the second, third and fourth years of study comprising:
(a) clinical training with continuous assessment to cover all aspects of “non-surgical” cancer treatment for different tumour sites with emphasis on radiation oncology and use of systemic therapy;

(b) research; and

(c) documentation in a log book of procedures and clinical skills undertaken.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the session.

6. Attendance

During his programme of study -

(1) A candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for the candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit his log book not later than two months before the Final Examination.

(2) A candidate is required to submit his research report not later than two months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination;
(b) the Part II Examination; and
(c) the Final Examination

(2) No candidate shall be admitted to the Part II Examination unless he has passed the Part I Examination at least six months before the Part II Examination.
(3) No candidate shall proceed to the Final Examination unless he has
(a) passed the Part II Examination;
(b) submitted his log book not later than two weeks before the Final Examination; and
(c) completed and submitted the research report not later than two months before the Final Examination.

(4) The Part I Examination shall be held at the end of Stage I of the programme of study. The Part II Examination shall be held at the end of twenty four months of Stage II of the programme of study. The Final Examination shall be held at the end of the thirty six months of Stage II of the programme of study.

(5) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>No</th>
<th>Subject Description</th>
<th>Component/Description/Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Short Answer Questions</td>
</tr>
<tr>
<td>1.</td>
<td>MAGT610 Radiotherapy Physics</td>
<td>100</td>
</tr>
<tr>
<td>2.</td>
<td>MAGT6108 Medical Statistics</td>
<td>100</td>
</tr>
<tr>
<td>3.</td>
<td>MAGT6109 Molecular Biology</td>
<td>100</td>
</tr>
<tr>
<td>4.</td>
<td>MAGT6110 Pathology</td>
<td>100</td>
</tr>
<tr>
<td>5.</td>
<td>MAGT6111 Pharmacology</td>
<td>100</td>
</tr>
<tr>
<td>6.</td>
<td>MAGT6112 Radiobiology</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total</strong></td>
<td></td>
</tr>
</tbody>
</table>

(b) Part II Examination

The components of the Part II Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Mark (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MAGT6236 Paper 1 Multiple Choice Questions</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MAGT6237 Paper 2 Case Orientated Questions</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>200</strong></td>
</tr>
<tr>
<td>B. MAGT6237 Clinical Cases</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>C. MAGT6250 Viva Voce</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total</strong></td>
<td><strong>400</strong></td>
</tr>
</tbody>
</table>

(c) Final Examination
The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. MAGT6371</td>
<td>Research report</td>
<td>100</td>
</tr>
<tr>
<td>B. MAGT6386</td>
<td>Log Book continuous assessment</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>200</td>
</tr>
</tbody>
</table>

(6) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribe below if he has obtained:

(a) Part I Examination

50% or more of the aggregate combined marks for the components in each Subject of the Examination and not less than 45% of the marks for each component in the Subject.

A candidate who does not fulfill the above requirement for a Subject shall be deemed to have failed the Subject concerned but shall be credited with the Subject or Subjects he has passed and be required to repeat only the Subject that he has failed.

(b) Part II Examination

50% or more of the marks for each component of the Examination.

(c) Final Examination

50% or more of the marks for each component of the Final Examination.

(7) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part I Re-Examination shall consist of all previously failed subjects and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed the Part II Examination may be permitted a re-examination on two separate occasions at yearly intervals.

(ii) The Part II Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part II Examination.
(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part II Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) Final Re-Examination

(i) A candidate shall be re-examined in only the component that he has failed.

(ii) A candidate who has failed in the research report and or log book continuous assessment component may be referred for further work in the component that he has failed, over a period of time to be determined by the Committee of Examiners except that such periods of time as determined shall not exceed six months on any one occasion. At the end of the prescribed period the candidate shall be required to submit the research report and/or relevant document for re-examination. A candidate who fails to submit the research report and/or the relevant document by the end of the prescribed period for re-examination shall be deemed to have failed the Examination.

(iii) A candidate shall be permitted to re-submit the research report and/or the relevant document for re-examination on not more than one occasion.

(iv) A candidate who fails the component(s) after the re-submission shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with approval of Senate.

(d) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Clinical Oncology unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Part II Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examinations at the first attempt;

(b) has not repeated any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Clinical Oncology with Distinction if he has passed with Distinction in both the Part I and Part II Examinations.
### Master of Clinical Oncology Programme Schedule

<table>
<thead>
<tr>
<th>STAGE I</th>
<th>Year 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Teaching in basic oncological sciences, cancer pathology, radiotherapy physics and medical statistics, and ongoing clinical training with continuous assessment.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Documentation in a log book of procedures and clinical skills undertaken will be done throughout the whole duration of the programme.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE II</th>
<th>Year 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clinical training with continuous assessment to cover all aspects of non-surgical cancer treatment for different tumour sites with emphasis on radiation oncology and use of systemic therapy.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE II</th>
<th>Year 3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clinical training as per year 2 and 3, and in addition, the undertaking of a research project.</td>
<td></td>
</tr>
</tbody>
</table>

|          | Final Examination |
|          | Part II Examination |
|          | Part I Examination |
|          | Registration (Entrance Evaluation) |
Name of Programme: Master of Emergency Medicine
Faculty: Faculty of Medicine

1. Classification of Programme

The Master of Emergency Medicine programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate's programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four (4) years.

(2) The maximum duration of study shall be seven (7) years.

4. Structure of Programme

(1) The programme of study comprises three stages which are stage I in the first year, stage II in the second year and the third year and stage III in year the fourth year. These three stages are as follows:

(a) Stage I is to be carried out at University of Malaya. It comprises:

(i) The study of basic sciences relevant to the practice of Emergency Medicine.

(ii) Clinical postings under supervision with the emphasis on emergency situations in the specialties of Anaesthesia and Emergency Medicine.

(b) Stage II is to be carried out at University of Malaya or other centres recognised by Master of Medicine Conjoint Committee (Specialty). It comprises clinical postings in second year and third year:

(i) Clinical postings in second year comprises of postings internal medicine, general surgery, emergency medicine and paediatric.
(ii) Clinical postings in third year comprise postings in emergency medicine, obstetric and gynaecology, radiology, otorhinolaryngology, ophthalmology, elective, orthopaedic surgery and neurosurgery.

(iii) A Research Project must be started during the early phase of Stage II.

(iv) Must passed the Advanced Cardiac Life Support Course (ACLS), Advanced Trauma Life Support Course (ATLS), Paediatric Advanced Life Support Course (PALS) and/or equivalent courses recognized by Faculty.

(c) Stage III comprise of posting in Emergency Medicine in University of Malaya.

(2) A candidate is required to keep a log book throughout his period of study to document tasks undertaken.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study -

(1) A candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the total period of training does not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for the candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit one case report for each posting not later than one month before the Final Examination.

(2) A candidate is required to submit his log book and posting reports every six months for assessment by the Department responsible for the candidate’s programme of study.
(3) A candidate is required to submit his research report not later than six months before the Final Examination.

10. Examinations for the Degree

(1) The examinations leading to the Degree shall be as follows:

(a) the Part I Examination; and

(b) the Final Examination.

(2) No candidate shall be permitted to sit for the Final Examination unless he has:

(a) passed the Part I Examination.

(b) completed and submitted his research report six months prior to the Final Examination.

(c) passed the ‘Advanced Cardiac Life Support Course (ACLS)’, ‘Advanced Trauma Life Support Course (ATLS)’, ‘Paediatric Advanced Life Support Course (PALS)’ and/or other courses recognized by the Faculty.

(d) submitted two (2) case reports for every postings not later than one month before the Final Examination.

(e) submitted his log book not later than one month before the Final Examination.

(f) achieved satisfactory report in each continuous assessment.

(3) The Part I Examination shall be held at the end of Stage I. The Final Examination shall be held at the end of Stage III of the programme of study.

(4) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Supervisors’ reports</td>
<td>Satisfactory reports</td>
</tr>
<tr>
<td></td>
<td>Continuous Assessment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Case write-ups</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Log book assessment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Participation in the Continuous Medical Education (CME)</td>
<td></td>
</tr>
<tr>
<td>B. Written</td>
<td>MEGV6101 Paper 1 Multiple Choice Questions 400</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEGV6102 Paper 2 Multiple Essay Questions 200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total 600</td>
<td></td>
</tr>
<tr>
<td>C.</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEGV6111 Objective Structured Clinical Examination 200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MEGV6121 Viva Voce</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>Total 400</td>
<td></td>
</tr>
</tbody>
</table>

Grand Total 1000
Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Continuous</td>
<td>Supervisors’ reports</td>
<td>Satisfactory reports</td>
</tr>
<tr>
<td>Assessment</td>
<td>Case write-up</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Log book assessment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Participation in the Continuous Medical Education (CME)</td>
<td></td>
</tr>
</tbody>
</table>

| B. Written      | MEGV6236Paper 1 Multiple Choice Questions                                    | 200                           |
|                 | MEGV6237Paper 2 Multiple Essay Questions                                     | 50                            |
|                 | MEGV6238Paper 3 Short Answer Type Questions                                  | 150                           |
|                 | Total                                                                         | 400                           |

| C. Clinical     | MEGV6243Objective Structured Clinical Examination                          | 150                           |
|                 | MEGV6244 Short Cases                                                        | 300                           |
|                 | MEGV6250 Viva Voce                                                          | 150                           |
|                 | Total                                                                         | 600                           |

**Grand Total 1000**

(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the examination prescribed below if he has obtained:

(a) Part I Examination

50% or more for each of the components in the examination.

(b) Final Examination

(i) 50% or more for each of the components in the examination.

(ii) The candidate must pass the research project.

(6) Repeating an Examination

(a) Part I Re-examination

(ii) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six (6) monthly intervals.

(ii) A candidate is required to pass the written component before being allowed to sit for the clinical component.

(iii) A candidate who has failed the Part I Examination written component is required to re-sit the written and clinical components for two separate occasions at six (6) months intervals.

(iv) A candidate who has failed the Part I Examination Clinical component but has passed the written component is allowed to sit the clinical component only for two separate occasions at six (6) months interval.
(v) A candidate who has failed the Part I Examination written component for three occasion shall be deemed to have failed the Part I Examination and shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty and with the approval of Senate.

(vi) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the re-examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty and with the approval of Senate.

(b) Final Re-examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six (6) monthly intervals.

(ii) The Final Re-examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the course except in special circumstances on the recommendation of the Faculty and with the approval of Senate.

(c) A candidate who has passed the re-examination for the examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Emergency Medicine unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination and the Final Examination if he has obtained 75% or more of the aggregate marks in each of the prescribed examinations. No candidate shall be eligible for the award of a Pass with Distinction based on the performance at a re-examination.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree with Distinction if he:

(a) has passed with Distinction in the Part I Examination and the Final Examination;
(b) has not failed or repeated any portion of the course or Examination.
### Master of Emergency Medicine Programme Schedule

<table>
<thead>
<tr>
<th>Stage</th>
<th>Year</th>
<th>Schedule</th>
</tr>
</thead>
</table>
| I     | (at UM) | - The study of basic sciences relevant to the practice of Emergency medicine  
- Clinical postings under supervision with the emphasis on emergency situations in the specialties of Anaesthesia and Emergency Medicine |
| IIa   | (at UM or other centres) | - clinical postings in:  
  - internal medicine,  
  - general surgery  
  - emergency medicine  
  - paediatrics.  
- A Research Project must be started during the early phase in this stage |
| IIb   | (at UM or other centres) | - Clinical postings in:  
  - Emergency Medicine;  
  - Obstetrics and Gynaecology;  
  - Radiology;  
  - Otorhinolaryngology;  
  - Ophthalmology;  
  - Elective;  
  - Orthopaedic surgery;  
  - Neurosurgery.  
- Must passed the Paediatric Advanced Life Support Course (PALS), Advanced Cardiac Life Support Course (ACLS), Advanced Trauma Life Support Course (ATLS) and/or equivalent courses recognized by Faculty |
| III   | Year 3 | - comprise of posting in Emergency Medicine in University of Malaya  
- A research report to be submitted at least 6 months before Final Examination |
|       | Year 4 | Final Examination |

Registration (Entrance Evaluation)  
Part I Examination
Name of Programme : Master of Family Medicine
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Family Medicine programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation conducted by the Faculty of Medicine.

3. Duration of Study

(1) The minimum duration of study shall be four years.

(2) The maximum duration of study shall be seven years.

4. Structure of Programme

(1) The programme of study comprises three stages as follows:

(a) Stage I:

Clinical rotation in the first year of study in a hospital formally recognized by the Faculty in the following disciplines:

General Medicine;
Paediatrics; and
Obstetrics & Gynaecology

(b) Stage II:

(i) Six months of speciality posting, one month each in the following discipline:

Psychological medicine
Surgery
Orthopaedic Surgery
Ophthalmology
Otorhinolaryngology
Elective (e.g. dermatology)

(ii) Eighteen (18) months of clinical training in Family Medicine in the second and third year of study in centres formally recognized by the Faculty.

(c) Stage III:

(i) One year of advanced training in Family Medicine in the fourth year of study at a primary care setting, either in a health clinic or university-based primary care clinic.

(ii) family case studies;

(iii) keeping of a Practice Diary of selected cases from his clinical training; and

(iv) research

(2) A candidate is required to maintain a log book throughout his period of study to document tasks undertaken.

(3) (a) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed or been exempted from the Part I Examination.

(b) No candidate shall be permitted to proceed to Stage III of the programme of study unless he has passed the Part II Examination.

5. Registration

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of the programme of study if he possesses a postgraduate qualification in Family Medicine or any other such qualification recognised by the Senate.

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.
8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit his log book and posting reports for the respective period of study not later than 4 weeks prior to the Part I Examination. A candidate is also required to submit a family case study not later than 4 week prior to the Part I Theory Examination.

(2) A candidate is required to submit his log book and posting reports for the respective period of study before the Part II Examination.

(3) A candidate is required to submit his posting reports, family case studies a practice diary and research report for the respective period of study not later than one month before the Final Examination.

10 Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:
   (a) the Part I Examination;
   (b) the Part II Examination; and
   (c) the Part III Examination

(2) No candidate shall be permitted to sit for the Part I Examination unless he has satisfactorily completed and submitted his log book, family case study and posting reports for the respective period of study not later than 4 weeks before the Part I Examination.

(3) No candidate shall be permitted to sit for the Part II Examination unless he has:
   (a) passed or has been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he possesses a postgraduate qualification in Family Medicine or any qualifications of equivalent standard recognised by the Senate; and
   (b) satisfactorily completed and submitted his posting reports of the respective period of study before the Part II Examination.

(4) No candidate shall be permitted to sit for the Part III Examination unless he has:
   (a) passed the Part II Examination; and
   (b) satisfactorily completed and submitted his posting reports, family case studies, and research report not later than one (1) month before the Part III Examination.

   (i) A candidate whose research report is deemed unsatisfactory may be referred for further work over a period of time to be determined by the Department except that such period of time as determined shall not exceed one year on any one occasion. At the end of the prescribed period the candidate shall be required to submit the research report for re-examination.
(ii) A candidate who fails to submit a satisfactory research report by the end of the prescribed period shall be deemed to have failed the research report.

(iii) A candidate is permitted to re-submit the research report on not more than two occasions. Practice diary must be submitted not later than one (1) month before the Part III Examination.

(5) The Part I Examination shall be held at the end of the first year of the programme of study. The Part II Examination shall be held at the end of the third year of the programme of study. The Part III Examination shall be held at the end of the fourth year of the programme of study.

(6) The Component A for Part I Examination will be held not later than four (4) weeks before the examination for Component B. Those who fail the Component A will not be allowed to take the Component B.

The Component A for Part II Examination will be held not later than four (4) weeks before the examination for Component B. Those who fail the Component A will not be allowed to take the Component B.

(7) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks and percentage values to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>Multiple Choice Questions Paper (MCQ)</td>
<td>60%</td>
</tr>
<tr>
<td>MMGK6101</td>
<td></td>
<td>Total 60%</td>
</tr>
<tr>
<td>B. Clinical</td>
<td>Objective Structured Clinical Examination (OSCE)</td>
<td>40%</td>
</tr>
<tr>
<td>MMGK6126</td>
<td></td>
<td>Total 100%</td>
</tr>
</tbody>
</table>

(b) Part II Examination

The components of the Part II Examination and the marks and percentage values to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>Multiple Choice Questions Paper (MCQ)</td>
<td>16%</td>
</tr>
<tr>
<td>MMGK6238</td>
<td></td>
<td>Total 24%</td>
</tr>
<tr>
<td></td>
<td>Patient Management Problems (PMP)</td>
<td></td>
</tr>
<tr>
<td>MMGK6239</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Clinical</td>
<td>Objective Structured Clinical Examination (OSCE)</td>
<td>60%</td>
</tr>
<tr>
<td>MMGK6255</td>
<td></td>
<td>Total 60%</td>
</tr>
</tbody>
</table>
The components of the Part III Examination and the marks and percentage values to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMGK6381</td>
<td>Viva Voce/Practice Diary</td>
<td>100%</td>
</tr>
</tbody>
</table>

(8) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination
50% or more of the marks for each component of the Examination.

(b) Part II Examination
50% or more of the marks for each component of the Examination.

(c) Part III Examination
50% or more of the marks for each component of the Examination.

(9) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Component A of the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) A candidate who has passed the Component A of the Part I Examination but failed Component B may be permitted a re-examination of Component B at six monthly intervals.

(iii) The total number of attempts for all components of Part I Examination shall not exceed three (3) times. A candidate who fails the examination on the third attempt shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed Component A of the Part II Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) A candidate who has passed Component A of the Part II Examination but failed Component B may be permitted a re-examination of Component B on two separate occasions at six monthly intervals.

(iii) A candidate who fails the re-examination for Component A of the Part II Examination on the third attempt shall be deemed to have failed the Part II Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(iv) A candidate who passes the re-examination for Component A of the Part II Examination on the third attempt is allowed to sit the Component B for three times. A candidate who fails Component B of the Part II Examination on the third attempt shall be deemed to have failed the
Part II Examination and shall not be permitted to repeat programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) Part III Re-Examination

(i) A candidate who has failed the Part III Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part III Re-Examination shall consist of the components that the candidate had failed in and shall be assessed and graded in the same manner as prescribed for the Part III Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part III Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(d) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Family Medicine unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination, the Part II Examination or the Part III Examination if he -

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examinations;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Family Medicine with Distinction if he -

(a) has passed with Distinction in the Part II Examination and the Part III Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
# Master of Family Medicine Programme Schedule

<table>
<thead>
<tr>
<th>STAGE I</th>
<th>Year 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Clinical Training by rotation in:- General Medicine Paediatrics Obstetrics and Gynaecology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE II</th>
<th>Year 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Six months of speciality posting, one month each in the following discipline: Psychological medicine Surgery Orthopaedic Surgery Ophthalmology Otorhinolaryngology Elective (e.g. dermatology)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE II</th>
<th>Year 3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Clinical Training in Family Medicine – 18 months</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STAGE II</th>
<th>Year 4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Advanced Training in Family Medicine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Part I Examination</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Registration (Entrance Evaluation)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part II Examination</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part III Examination</td>
<td></td>
</tr>
</tbody>
</table>
Name of Programme : Master of Internal Medicine
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Internal Medicine programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.

(2) The maximum duration of study shall be seven years.

4. Structure of Programme

(1) The programme of study comprises three stages as follows:

(a) Stage I in the first year comprising:

(i) the study of basic sciences relevant to the practice of internal medicine; and

(ii) clinical clerkship under supervision with emphasis on emergency medicine.

(b) Stage II in the second and third year comprising:

(i) rotational postings of three months duration each in the following eight disciplines of clinical medicine:

   Cardiology
   Nephrology
   Neurology
   Respiratory Medicine
   Gastroenterology and Hepatology
   Haematology and Oncology
Endocrinology  
Rheumatology and Infectious Diseases and Dermatology 

(ii) a research project

(c) Stage III in the fourth year comprising posting in an approved subspeciality or in general medicine in the Faculty or a recognised centre outside the Faculty

(2) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed the Part I Examination.

(3) No candidate shall be permitted to proceed to Stage III of the programme of study unless he has passed the Part II Examination.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study -

(1) A candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for the candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit four (4) case report one month before the Part II Examination.

(2) A candidate is required to submit his research report not later than one month before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows: 
   (a) the Part I Examination;
(b) the Part II Examination; and
(c) the Final Examination

(2) No candidate shall be permitted to sit for the Part I Examination unless he has completed, submitted and performed satisfactorily in the continuous assessment prescribed by the Department.

(3) No candidate shall be permitted to sit for the Part II Examination unless he has -
(a) passed the Part I Examination; and
(b) performed satisfactorily in the Stage II of the programme of study consisting of evaluations by the supervisors and obtaining satisfactory grades on four case reports in publishable format. Submission of all 4 case reports before sitting Part II Examination.

(4) No candidate shall be permitted to proceed to the Final Examination unless he has submitted his Research Report not later than one month before the Final Examination.

(5) The Part I Examination shall be held at the end of Stage I of the programme of study. The Part II Examination shall be held at the end of the third year of the programme of study. The Final Examination shall be held at the end of the fourth year of the programme of study.

(6) The theory examination will be held 6 weeks before the clinical examination. The Theory examination is usually held in March/April and September/October. The Clinical examination will be held after the theory paper which is in May/June and November/December.

(7) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MPGF6104 Paper 1 One Best Answer</td>
<td>35%</td>
</tr>
<tr>
<td></td>
<td>MPGF6105 Paper 2 Problem Solving Questions</td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>60%</td>
</tr>
<tr>
<td>B. MPGF6111</td>
<td>Objective Structured Clinical Examination</td>
<td>40%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>40%</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

(b) Part II Examination

The components of the Part II Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MPGF6239 Paper 1 One Best Answer</td>
<td>20%</td>
</tr>
</tbody>
</table>
**Final Examination**

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. MPGF6371</td>
<td>Research Report</td>
<td>100</td>
</tr>
<tr>
<td>B. MPGF6381</td>
<td>Viva Voce</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 200</td>
</tr>
</tbody>
</table>

**Requirements for Passing an Examination**

A candidate shall be deemed to have passed the Examinations mentioned below if he has obtained:

(a) **Part I Examination:**

(i) 50% or more of the marks for each component of the Examination.

(ii) Must pass at least 2 OSCE cases from Component B (MPGF6111).

The theory examination will be held 6 weeks before the clinical examination. Only candidates that pass the theory examination, Component A, will be allowed to sit the clinical examination, i.e. Component B. A candidate who fails the clinical examination will not have to re-sit the theory examination before attempting the clinical examination again.

(b) **Part II Examination:**

(i) 50% or more of the marks for each component of the Examination; and

(ii) Must pass at least 2 short cases from Component B (MPGF6245); and

(iii) 2 or more short cases should not have a score of less then 3/10; and

(iv) obtain at least 45% in the long case (MPGF6244)

The theory examination will be held 6 weeks before the clinical examination. Only candidates that pass the theory examination, Component A, will be allowed to sit the clinical examination, i.e. Component B. A candidate who fails the clinical examination will not have to re-sit the theory examination before attempting the clinical examination again.
(c) Final Examination:

50% or more of the marks of the Final Examination.

(9) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed Component A (written) of the Part I Examination may be permitted a re-examination for Component A (written) on two separate occasions at six monthly intervals.

(ii) A candidate who has pass Component A (written) of the Part I Examination but failed Component B (clinical and viva) of the Part I Examination may be permitted a re-examination on two separate occasions within two years of passing the theory, at six monthly intervals without having to re-sit Component A (written) of the Part I Examination.

(iii) A candidate who has pass Component A (written) of the Part I Examination but attempts for Component B (clinical and viva) of the Part I Examination after two years of passing component A, he/she will have to re-sit Component A (written) of the part I Examination.

(iv) A candidate who fails the re-examination for Component A (written) of the Part I Examination on the third trial shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(v) A candidate who pass the re-examination for Component A (written) of the Part I Examination on the third trial is allowed to sit for Component B (clinical and viva) of the Part I Examination for three times. If candidate fails Component B (clinical and viva) of the Part I Examination on the third trial shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed Component A of the Part II Examination (written) may be permitted a re-examination for Component A on two separate occasions at six monthly intervals.

(ii) A candidate who has pass Component A of the Part II Examination (written) but failed Component B of the part II examination (clinical and viva) may be permitted a reexamination on two separate occasions within two years of passing the theory, at six monthly intervals without having to re-sit Component A (written) of the Part II Examination.

(iii) A candidate who has pass Component A (written) of the Part II Examination but attempts for Component B (clinical and viva) of the Part II Examination after two years of passing Component A, he/she will have to re-sit component A (written) of the Part II Examination.

(iv) A candidate who fails the re-examination for Component A (written) of the Part II Examination on the third trial shall be deemed to have failed
the Part II Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(v) A candidate who pass the re-examination for Component A (written) of the Part II Examination on the third trial is allowed to sit for Component B (clinical and viva) of the Part II Examination for three times. If candidate fails Component B (clinical and viva) of the Part II Examination on the third trial shall be deemed to have failed the Part II Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) Final Re-Examination

(i) A candidate whose research report is deemed unsatisfactory by the Committee of Examiners may be referred for further work over a period of time to be determined by the Committee of Examiners except that such periods of time as determined shall not exceed six months on any one occasion. At the end of the prescribed period the candidate shall be required to submit the research report for re-examination. A candidate who fails to submit his research report by the end of the prescribed period for re-examination shall be deemed to have failed the research report.

(ii) A candidate shall be permitted to submit the research report for re-examination on not more than two occasions.

(iii) A candidate who fails in the research report on the second resubmission shall be deemed to have failed the Final Re-Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(d) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Internal Medicine unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations and the Final Assessment.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination, the Part II Examination or the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) not less than 70% of the marks in the respective clinical examination for the Part I and the Part II Examination;

(c) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Internal Medicine with Distinction if he –

(a) has passed with Distinction in the Part I Examination, Part II Examination and the Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

Master of Internal Medicine Programme Schedule

<table>
<thead>
<tr>
<th>STAGE I</th>
<th>Year 1</th>
<th>▪ Applied Basic Medical Sciences and General Medicine and Emergency Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAGE II</td>
<td>Year 2</td>
<td>▪ Rotational posting in small specialities</td>
</tr>
<tr>
<td>STAGE III</td>
<td>Year 3</td>
<td>▪ Speciality training in one of the small speciality fields with at least 6 months in General Medicine</td>
</tr>
<tr>
<td>STAGE III</td>
<td>Year 4</td>
<td>Final Examination</td>
</tr>
</tbody>
</table>

Registration (Entrance Evaluation)
Name of Programme : Master of Medical Physics  
Mod : By Coursework  
Faculty : Faculty of Medicine  

1. Classification of Programme

The Master of Medical Physics is a programme by coursework in which the credit hours for the research component comprises less than thirty (30) percent of the total credit hours for the whole programme of study. After completion of the relevant programme of study specified in this Schedule, a candidate shall be eligible for the award of the Master of Medical Physics degree.

2. Entry Requirements

(1) Entry qualifications

(a) A Bachelor’s degree with Honours or equivalent in physical sciences; or

(b) A Bachelor’s degree with Honours or equivalent in a programme of study consisting a significant courses in physical sciences; or

(c) A Bachelor’s degree or equivalent in physical sciences and at least three years working experience in the relevant field; or

(d) An equivalent qualification approved by the Senate from time to time.

(2) Other requirement

Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be two (2) semesters

(2) The maximum duration of study shall be eight (8) semesters

4. Structure of Programme

(1) The Master of Medical Physics programme by coursework comprises of forty (40) credit hours namely.

(a) four (4) core courses, each of four (4) credit hours, totalling sixteen (16) credit Hours;

(b) a core course of two (2) credit hours;

(c) two (2) core courses, each of five (5) credit hours, totaling ten (10) credit hours; and

(d) a medical physics research project of twelve (12) credit hours.
Details of the courses offered are as approved by Senate from time to time on the recommendation of the Faculty and candidates shall be informed of such details at the beginning of each session.

The lists of courses for the programme of Master of Medical Physics are provided in List 1.

5. Registration

(1) Registration for the courses shall commence the week prior to the start of the relevant semester.

(2) A candidate is required to register for at least six (6) credit hours in any semester except:

   (a) in the final semester of his programme of study where he may register for less than the number of credits hours stated above; or

   (b) where the candidate has been permitted to withdraw from the semester concerned.

(3) A candidate may only register for medical physics research project after he has obtained at least ten (10) credit hours in the core courses.

6. Supervision

(1) The supervisor for a candidate shall be appointed when the area of research is approved.

(2) The co-supervisor and/or consultant may be appointed at any time when required.

7. Title of Research

The area of research shall be determined before the candidate commences the research part of his programme of study.

8. Submission

A candidate is required to submit his project report before the end of his maximum period of candidature.

9. Examination for the Degree

(1) The Examination leading to the degree of Master of Medical Physics by coursework shall consist of an examination or examinations in each of the courses prescribed for the Master of Medical Physics degree programme as follows:

   (a) four (4) core courses, each of four (4) credit hours, totalling sixteen (16) credit Hours;

   (b) a core course of two (2) credit hours;

   (d) two (2) core courses, each of five (5) credit hours, totaling ten (10) credit hours; and

   (e) a medical physics research project of twelve (12) credit hours.
(2) Examination Components and Allocation of Marks

(a) Taught Courses

(i) The components of the courses and the marks to be allocated to the components of the courses prescribed for the Part I Examination shall be:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A)</td>
<td>End of Semester Examination</td>
<td>40%</td>
</tr>
<tr>
<td>(B)</td>
<td>Continuous Assessment</td>
<td>60%</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

(a) MQGQ6113 Computing and Medical Informatics

Continuous Assessment. 100%

2. The Senate may on the recommendation of the Faculty, amend the allocation of marks for the components of a course for the Examination.

(3) Course Grade Requirements

Course grades are subjected to regulations prescribed in the Marking Scheme of the University of Malaya (Master's Degree) Rules 2014 and University of Malaya (Master's Degree) Regulations 2014.

(a) Award of Degree

No candidate shall be recommended for the award of the degree of Master of Medical Physics unless he has successfully completed all parts of the course and passed all the prescribed examination.

List 1: Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQGQ6101</td>
<td>Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>MQGQ6112</td>
<td>Biostatistics</td>
<td>2</td>
</tr>
<tr>
<td>MQGQ6113</td>
<td>Computing and Medical Informatics</td>
<td>4</td>
</tr>
<tr>
<td>MQGQ6114</td>
<td>Applied Radiation Physics and Dosimetry</td>
<td>4</td>
</tr>
<tr>
<td>MQGQ6115</td>
<td>Radiobiology and Radiation Protection</td>
<td>4</td>
</tr>
<tr>
<td>MQGQ6116</td>
<td>Medical Imaging and Nuclear Medicine</td>
<td>5</td>
</tr>
<tr>
<td>MQGQ6117</td>
<td>Radiotherapy Physics</td>
<td>5</td>
</tr>
<tr>
<td>MQGQ6189</td>
<td>Medical Physics Research Project</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>40</td>
</tr>
</tbody>
</table>

*subject to amendment from time to time
MQGQ 6101
Anatomy and Physiology (4 credit hours)

Learning Outcomes

At the end of this course, students are able to have:
1. Knowledge and understanding of the anatomy and physiology of cells and fetus
2. Knowledge and understanding of the anatomy and physiology of the senses, lymphatics, and of the central and peripheral nervous system
3. Knowledge and understanding of the anatomy and physiology of the musculoskeletal and endocrine system
4. Knowledge and understanding of the anatomy and physiology of the cardiovascular, blood, peripheral circulation and respiratory system
5. Knowledge and understanding of the anatomy and physiology of the integumentary and urinary systems
6. Knowledge and understanding of the anatomy and physiology of the gastrointestinal tract
7. Knowledge and understanding of the anatomy and physiology of the reproductive system and the breast

Synopsis


Main Reference


Assessment Methods

Assignments, presentations, test (60%)
Examination (40%)
10. Understand the role of a biostatistician in research design and management.

Synopsis

Main Reference

Assessment Methods
Assignments, tutorials, Practicals, test (60%)
Examination (40%)

MQGQ6113
Computing and Medical Informatics (4 credit hours)

Learning Outcomes
At the end of this course, students are able to:
1. Understand fundamental topics of computing including terminology, organization, representation, and operations.
2. Understand and apply basic computer programming for scientific tasks.
3. Understand and apply basic numerical methods for solving mathematical functions.
4. Understand basic topics of signal processing including analog/digital, convolution and transforms.
5. Understand and apply basic digital image processing for biomedical imaging tasks.
6. Be familiar with the basics of artificial intelligence and its application in clinical systems.
7. Be familiar with the basics of medical imaging data visualization.
8. Understand the basics of medical informatics including medical data and communication standards and protocols.

Synopsis
Computing fundamentals, programming, numerical methods, signal and image processing, communication and medical informatics.

Main Reference

Assessment Methods
Practicals (60%)
Project (40%)

MQGQ6114
Applied Radiation Physics and Dosimetry (4 credit hours)

Learning Outcomes
At the end of this course, students are able to:
1. Understand the concepts and principles of radiation physics, radioactivity, and the interaction of radiation with matter.
2. Understand the principles, quantities and units of radiation dosimetry.
3. Be able to measure or calculate the radiation dose to different personnel in different circumstances.

Synopsis

Main Reference

Assessment Methods
Assignments, test (60%)
Examination (40%)

MQGQ6115
Radiobiology and Radiation Protection (4 credit hours)

Learning Outcomes
At the end of this course, students are able to:
1. Understand the concepts and processes involved in the interaction of radiation with living matter.
2. Understand the principles behind various radiation protection recommendations.
3. Be able to practise radiation protection in hospitals.

Synopsis

Main Reference
4. IAEA book

Assessment Methods
Assignments, test (60%)
Examination (40%)

MQGQ6116
Medical Imaging and Nuclear Medicine (5 credit hours)

Learning Outcomes
At the end of this course, students are able to:
1. Understand the basic concepts and principles of medical imaging and nuclear medicine.
2. Understand the theoretical basis needed for the clinical practice of medical imaging and nuclear medicine.
3. Be able to carry out and interpret the results of basic quality assurance procedures for the general diagnostic and therapeutic modalities in medical imaging and nuclear medicine.

Synopsis

Main Reference

Assessment Methods
Assignments, test (60%)
Examination (40%)

MQGQ6117
Radiotherapy Physics (5 credit hours)

Learning Outcomes
At the end of this course, students are able to:
1. Understand the basic concepts and principles of radiotherapy physics.
2. Understand the theoretical basis needed for the clinical practice of medical physics in radiotherapy.
3. Be able to carry out and interpret the results of basic quality assurance procedures for the radiotherapy modalities.

Synopsis

Main Reference

Assessment Methods
Assignments, test (60%)
Examination (40%)
# Master of Medical Physics Programme Schedule

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credit Hours</th>
<th>Examination</th>
<th>Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester II</td>
<td>Two (2) core courses, each of five (5) credit hours, totalling ten (10) credit hours; and</td>
<td>10</td>
<td>(i) End of Semester I (ii) End of Semester II</td>
<td>(Admission Evaluation)</td>
</tr>
<tr>
<td></td>
<td>A medical physics research project of twelve (12) credit hours. A candidate may only register for medical physics research project after he has obtained at least ten (10) credit hours in the core courses.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester I</td>
<td>Four (4) core courses, each of four (4) credit hours, totalling sixteen (16) credit hours.</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A core course of two (2) credit hours.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Name of Programme: Master of Medical Science in Clinical Pathology

Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)

Faculty: Faculty of Medicine

1. Classification of Programme

Master of Medical Science in Clinical Pathology; or Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) programme is a clinical coursework program in which the research component is less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) Master of Medical Science in Clinical Pathology

(i) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(ii) At least one year of supervised training after full medical registration, in a medical pathology laboratory approved by the Faculty, or at least one year of such alternative experience as recommended by the Faculty and approved by the Senate.

(b) Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)

(i) Possesses a Master’s degree in Clinical Pathology or an equivalent qualification approved by Senate; and

(ii) Candidate in the preceding academic session, passed Examination for the degree Master of Medical Science in Clinical Pathology; or

(iii) Has in the preceeding year, at least six month of practical experience in the chosen specialty.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

(c) International candidates are required to obtain a score of at least 550 in the TOEFL examination or band 6 in IELTS or attended and passed the UM English Language Programme For Postgraduate Students course if the Bachelor's Degree was obtain form a University that did not use English as the medium of instruction.
3. **Duration of Study**

(1) **Master of Medical Science in Clinical Pathology**

(a) The minimum duration of study shall be two years.
(b) The maximum duration of study shall be four years.

(2) **Master of Medical Science in Clinical Pathology (Haematology / Histopathology / Chemical Pathology / Forensic Pathology / Medical Microbiology)**

(a) The minimum duration of study shall be one year.
(b) The maximum duration of study shall be three years.

4. **Structure of Programme**

(1) **Master of Medical Science in Clinical Pathology**

The programme of study extends over two years and consists of:

(a) Studies and rotational practical work in the following disciplines of Clinical Pathology:
   
   (i) Anatomical pathology including Autopsy;
   (ii) Haematology including Transfusion Medicine;
   (iii) Chemical Pathology;
   (iv) Medical Microbiology (including Bacteriology, Mycology, Immunology and Virology) with Parasitology; and
   
(b) tasks as stipulated in the log book including posting reports.

(2) **Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)**

The programme of study is over a period of one year and consisting of advanced studies and practical work in any one of the following areas:

- Chemical Pathology
- Forensic Pathology
- Haematology
- Histopathology
- Medical Microbiology

5. **Registration**

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate had passed in the Examination for the degree of Master of Medical Science in Clinical Pathology in the preceding academic session, may be permitted to register directly for the programme of study for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) if he:

   (a) (i) possesses a Master’s degree in Clinical Pathology or an equivalent qualification approved by the Senate; and
   
   (ii) has, in the preceding year, at least six months of practical experience in the speciality subject he has chosen to pursue in Stage II of the programme of study.
Or

(b) in the preceding academic session, passed the Examination for the degree of Master of Medical Science in Clinical Pathology.

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Submission

A candidate is required to submit his log book and posting reports at the end of training, no later than one month before the Examination for the degree of Master of Medical Science in Clinical Pathology.

9. Examinations for the Degree

(1) The Examinations leading to the degrees shall be as follows:

(a) the Examination for the degree of Master of Medical Science in Clinical Pathology;

(b) the Examination for the degree Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)

(2) No candidate shall be permitted to sit for the Examination for the degree of Master of Medical Science in Clinical Pathology unless he has satisfactorily completed all the postings in Stage I of the programme of study, completed all the required tasks as set out in the log book and has submitted the log book and posting reports to the Department of Pathology not later than one month before the Examination.

(3) No candidate shall be permitted to sit for the Examination for the degree of Master of Medical Science in Clinical Pathology and Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) unless he has passed or been exempted from the Examination for the degree of Master of Medical Science in Clinical Pathology. A candidate may be exempted from the Examination for the degree of Master of Medical Science in Clinical Pathology if he possesses the degree of Master of Medical Science in Clinical Pathology of the University or an equivalent qualification approved by the Senate.
The examination for the degree of Master of Medical Science in Clinical Pathology; or the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) shall be held at the end the programme of study.

(5) Examination Components and Allocation of Marks

(a) Examination of the degree of Master of Medical Science in Clinical Pathology.

The components of the Examination and the marks to be allocated to each component of the Examination shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MKGS6101 Paper 1 Multiple Choice/Essay Questions</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MKGS6102 Paper 2 Multiple Choice/Essay Questions</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>200</td>
</tr>
<tr>
<td>B. Practical</td>
<td>MKGS6111 Practical 1 Objective Structured Tests</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MKGS6112 Practical 2 Objective Structured Tests</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>200</td>
</tr>
<tr>
<td>C. MKGS6121</td>
<td>Viva Voce</td>
<td>100</td>
</tr>
<tr>
<td>D. MKGS6131</td>
<td>Coursework Posting Assessment</td>
<td>100</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td>600</td>
</tr>
</tbody>
</table>

(b) Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)

The components of the Examination and the marks to be allocated to each component shall be as follows:

* MMA Master of Medical Science in Clinical Pathology (Haematology)
* MMB Master of Medical Science in Clinical Pathology (Medical Microbiology)
* MMC Master of Medical Science in Clinical Pathology (Forensic Pathology)
* MMD Master of Medical Science in Clinical Pathology (Chemical Pathology)
* MME Master of Medical Science in Clinical Pathology (Histopathology)

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>*MKGS6236 Paper 1 Essays and/or Short Answers Questions</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>*MKGS6237 Paper 2 Essays and/or Short Answers Questions</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>400</td>
</tr>
<tr>
<td>B. *MKGS6243</td>
<td>Practical</td>
<td>400</td>
</tr>
<tr>
<td>C. *MKGS6250</td>
<td>Viva Voce</td>
<td>100</td>
</tr>
<tr>
<td>D. *MKGS6266</td>
<td>Coursework Posting Assessment</td>
<td>100</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td>1000</td>
</tr>
</tbody>
</table>
(6) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Examination for the degree of Master of Medical Science in Clinical Pathology

(i) 50% or more of the aggregate combined marks for all the components of the Examination; and

(ii) not less than 50% of the marks for the practical component of the Examination.

(b) Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)

(i) 50% or more of the aggregate combined marks for all the components of the Examination; and

(ii) not less than 50% of the marks for the practical component of the Examination.

(7) Repeating an Examination

(a) Re-Examination for the degree of Master of Medical Science in Clinical Pathology

(i) A candidate who has failed the Examination for the degree of Master of Medical Science in Clinical Pathology may be permitted a re-examination after a period of one (1) year.

(ii) The Re-Examination for the degree of Master of Medical Science in Clinical Pathology shall consist of the components as mentioned below and shall be graded in the same manner as prescribed for the Examination for the degree of Master of Medical Science in Clinical Pathology.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKGS6101</td>
<td>Paper 1</td>
<td>Multiple Choice/Essay Questions</td>
</tr>
<tr>
<td>MKGS6102</td>
<td>Paper 2</td>
<td>Multiple Choice/Essay Questions</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
</tr>
<tr>
<td>B. Practical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKGS6111</td>
<td>Practical 1</td>
<td>Objective Structured Tests</td>
</tr>
<tr>
<td>MKGS6112</td>
<td>Practical 2</td>
<td>Objective Structured Tests</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
</tr>
<tr>
<td>C. MKGS6121</td>
<td>Viva Voce</td>
<td></td>
</tr>
</tbody>
</table>

Grand Total 500

(iii) Notwithstanding paragraph 9(7)(a) above, a candidate who has only failed in the practical component of the Examination may be permitted a re-examination on two separate occasions at six monthly intervals. Under the circumstances, the re-examination shall comprise the practical component and the viva-voce only.
A candidate who fails the re-examination for the degree of Master of Medical Science in Clinical Pathology on the second occasion shall not be permitted to repeat the program of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

A candidate who passed the Re-Examination shall be deemed to have passed the Examination for the degree of Master of Medical Science in Clinical Pathology.

Re-Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology)

(i) A candidate who has failed the Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) may be permitted a re-examination after a period of one (1) year.

(ii) The Re-Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) shall consist of the components and allocation of marks as mentioned below and shall be assessed and graded in the same manner as prescribed for the Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology).

Component | Description | Allocation of Marks (Maximum)
--- | --- | ---
A. Written<br>**MKGS6236** Paper 1<br>**MKGS6237** Paper 2 | Essays and /or Short Answers Questions<br>Essays and /or Short Answers Questions | 200<br>200 | Total 400
B. **MKGS6243** Practical | | 400
C. **MKGS6250** Viva<br>Voce | | 100 | Grand Total 900

A candidate who fails the re-examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) on the second occasion shall not be permitted to repeat the program of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.
(iv) A candidate who passed the re-examination shall be deemed to have passed the Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology).

10. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Medical Science in Clinical Pathology; or of the Degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) unless he has successfully completed all parts of the course, complete the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Examination for the degree of Master of Medical Science in Clinical Pathology; or the Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology / Histopathology / Chemical Pathology / Forensic Pathology / Medical Microbiology) if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examinations;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

(a) A candidate may be awarded the degree of Master of Medical Science in Clinical Pathology with Distinction if he -

(i) has passed with Distinction in the Examination for the degree of Master of Medical Science in Clinical Pathology;

(ii) has not failed in any component of the prescribed Examination; and

(iii) has not repeated the prescribed examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(b) A candidate may be awarded the degree of Master of Medical Science in Clinical Pathology or the Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology) with Distinction if he -

(i) has passed with Distinction in the Examination for the degree of Master of Medical Science in Clinical Pathology or the Examination for the degree of Master of Medical Science in Clinical Pathology (Haematology) / (Histopathology) / (Chemical Pathology) / (Forensic Pathology) / (Medical Microbiology);

(ii) has not failed in any component of the prescribed Examination; and

(iii) has not repeated the prescribed examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
## Master of Medical Science in Clinical Pathology

### Programme Schedule

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Posting for 10 weeks in each of these disciplines.</td>
<td>Posting for 14 weeks in each of these disciplines.</td>
</tr>
<tr>
<td></td>
<td>• Histopathology</td>
<td>• Histopathology</td>
</tr>
<tr>
<td></td>
<td>• Chemical Pathology</td>
<td>• Haematology</td>
</tr>
<tr>
<td></td>
<td>• Medical Microbiology</td>
<td>• Haematology</td>
</tr>
<tr>
<td></td>
<td>• Medical Microbiology/Parasitology</td>
<td>• Chemical Pathology</td>
</tr>
</tbody>
</table>

Posting for 7 weeks in each of these disciplines.

- Chemical Pathology
- Medical Microbiology

### Master of Medical Science in Clinical Pathology (Haematology/Histopathology/Chemical Pathology/Forensic Pathology/Medical Microbiology)

### Programme Schedule

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Extending over a period of one year and consisting of advanced studies and practical work in any one of the following specialised areas in the field of clinical pathology:</td>
</tr>
<tr>
<td></td>
<td>- Chemical Pathology</td>
</tr>
<tr>
<td></td>
<td>- Forensic Pathology</td>
</tr>
<tr>
<td></td>
<td>- Haematology</td>
</tr>
<tr>
<td></td>
<td>- Histopathology</td>
</tr>
<tr>
<td></td>
<td>- Medical Microbiology</td>
</tr>
</tbody>
</table>

Final Examination (At the end the programme of study)

Registration (Entrance Evaluation)
1. **Classification of Programme**

   The Master of Nursing Science programme is a coursework programme in which the credit hours for the research component comprises less than thirty (30) percent of the whole programme of study.

2. **Entry Requirements**

   Entry qualifications

   (1) A Bachelor’s degree in Nursing Science with a CGPA 3.0 and above or an equivalent qualification approved by the Senate; and

   (2) Registered with the Malaysian Nursing Board and possess current practising license; and

   (3) Possess a post basic course in clinical speciality which the duration of study should not be less than 6 months, or

   (4) At least two years working experience in the relevant field.

3. **Duration of Study**

   (1) The minimum duration of study shall be four (4) semesters.

   (2) The maximum duration of study shall be eight (8) semesters.

4. **Structure of Programme**

   (1) The Master of Nursing Science programme comprises of 42 credits hours.

   (2) The core courses identified are as follows:

   (a) Six (6) core courses each of three (3) credit hours, totalling eighteen (18) credit hours;

   (b) One (1) core course of two (2) credit hours;

   (c) Practicum in Nursing of ten (10) credit hours;

   (d) Nursing Research Project I and II totalling nine (9) credit hours; and

   (e) One (1) elective course each of three (3) credit hours.

   (3) Details of the courses offered are as approved by Senate from time to time on the recommendation of the Faculty and candidates shall be informed of such details at the beginning of each session.

   (4) The list of courses for the programme of Master of Nursing Science is provided in List 1.

5. **Registration**

   (1) Registration for the courses commence the week prior to the start of the relevant semester.
(2) A candidate is required to register for at least two (2) credit hours in any semester.

(3) A candidate may only register for Nursing Research Project I after she has passed MQD7001, MQD7004, MQD7005 and MQD7006.

(4) A candidate may only register for Nursing Research Project II after she has passed Nursing Research Project I.

6. Supervision

(1) The Faculty shall appoint at least one supervisor for each candidate for the research component. Supervisors for each candidate shall be appointed after the area of research is approved.

(2) The co-supervisor and/or consultant shall be appointed when required.

7. Title of Research

The area of research shall be determined before the candidate commences the research part of his programme of study.

8. Submission

A candidate is required to submit his Nursing Research Project II report before the end of his maximum period of candidature.

9. Examinations for the Degree

(1) The examination leading to the degree of Master of Nursing Science programme shall consist of an examination or examinations in each of the courses prescribed for the Master of Nursing Science degree programme as follows:

(a) six (6) core courses each of three (3) credit hours, totalling eighteen (18) credit hours;
(b) One (1) core course of two (2) credit hours;
(c) Practicum in Nursing of ten (10) credit hours;
(d) Nursing Research Project I and II totalling nine (9) credit hours; and
(e) One (1) elective course each of three (3) credit hours.

(2) Examination Components and Allocation of Marks

(a) Core courses and elective courses:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Continuous Assessment</td>
<td>30% - 40%</td>
</tr>
<tr>
<td>(ii) End of Semester Examination</td>
<td>60% - 70%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

(b) Nursing Research Project I & II and Nursing Practicum

(i) Continuous assessment – 100%

(3) Course Grade Requirements

Course grades are subjected to regulations prescribed in the Marking Scheme of the University of Malaya (Master’s Degree) Rules 2014 and University of Malaya (Master’s Degree) Regulations 2014.
10. **Award of Degree**

No candidate shall be recommended for the award of the Degree of Master of Nursing Science unless he has completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

**Master of Nursing Science Degree**

**List 1**

**Core Courses**

<table>
<thead>
<tr>
<th>CODE</th>
<th>TITLE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQD7001</td>
<td>Research Methodology in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>MQD7002</td>
<td>Nursing Research Project I</td>
<td>3</td>
</tr>
<tr>
<td>MQD7003</td>
<td>Nursing Research Project II</td>
<td>6</td>
</tr>
<tr>
<td>MQD7004</td>
<td>Qualitative Methods in Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>MQD7005</td>
<td>Medical Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MQD7006</td>
<td>Statistical Computing Module</td>
<td>2</td>
</tr>
<tr>
<td>MQD7007</td>
<td>Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>MQD7008</td>
<td>Issues and Trends in Nursing And Health Care</td>
<td>3</td>
</tr>
<tr>
<td>MQD7009</td>
<td>Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>MQD7010</td>
<td>Nursing Practicum</td>
<td>10</td>
</tr>
<tr>
<td>MQD7011</td>
<td>Reflection in Nursing Practice*</td>
<td>3</td>
</tr>
<tr>
<td>MQD7012</td>
<td>Principle &amp; Methods of Epidemiology*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Choose only ONE*  

**TOTAL** 42

**Note:**
1. The minimum passing grade is B.
2. A candidate must pass MQD7001, MQD7004, MQD7005 and MQD7006 before registering for MQD7002.
3. A candidate must also pass MQD7002 before registering for MQD7003.
MQD7001
Research Methodology in Nursing

Learning Outcomes
At the end of the course, students are able to:
1. Differentiate quantitative research process and the importance of quantitative research in nursing
2. Compare different quantitative research designs
3. Plan appropriate sampling, data collection and analyses methods according to research questions.
4. Critique research studies for evidence based practice.

Synopsis
In this course, the student will learn the definition of quantitative research, literature review, and research method, collection of data and analysis of quantitative research reports. This course will provide an overview on the quantitative research methodology in nursing. Practical reviews / critical analyses of quantitative research studies from international journals will be carried out by students.

Main Reference

Assessment Methods
Continuous Assessment: 40%
Final Examination: 60%

MQD7002
Nursing Research Project I

Learning Outcomes
At the end of this course, the students are able to:
1. Critique literature
2. develop one nursing research proposal in nursing specialty
3. present the research proposal
4. discuss the proposal during the presentation
5. manage application process for ethical approval to ensure the reserach is undertaken ethically.

Synopsis
In this course, student is required to prepare one nursing research proposal. The research topics can be in any one of the nursing clinical specialty which will be beneficial to the nursing profession. The student has to present her research proposal and submit for ethical approval.

Main Reference

Assessment Method
Continuous Assessment: 100%
MQD7003
Nursing Research Project II

Learning Outcomes
At the end of the course, the students are able to:
1. conduct one nursing research project in nursing education, management or clinical.
2. analyse research data.
3. produce a research project paper and a manuscript.
4. disseminate the research findings.
5. Produce a manuscript for publication.

Synopsis
In this course, students are required to carry out one nursing research project. The research can be carried out in any one of the nursing specialties. The specialties can be on nursing education, management or clinical practice. The student is encouraged to carry out a research which will be beneficial to the nursing profession. The findings of the research must be written as a research report and manuscript.

Main Reference

Assessment Method
Continuous assessment: 100%

MQD7004
Qualitative Methods in Nursing Research

Learning Outcomes
At the end of this course, students are able to:
1. Differentiate qualitative and quantitative research.
2. Compare different qualitative research designs.
3. Analyze ethical issues in qualitative research.
4. Plan qualitative data collection and qualitative data analysis.
5. Critique qualitative research study.

Synopsis
This course will focus on several qualitative approaches in health/nursing research. Topics will include various methodologies of quality research approaches and strategies related to qualitative data collection and data analysis. Common and current qualitative research which is applicable to nursing such as social critical theory, ethnography, feminist theory, grounded theory, phenomenological approaches and post-structuralism will be explored. Students will be expected to collect and analyse data qualitatively.

Main Reference
MQD7005
Medical Statistics

Learning Outcomes

At the end of this course, students are able to:
1. Explain the various statistical methods used in medical practice.
2. Apply the appropriate statistical method in medical practice.
3. Interpret the analysis of finding.

Synopsis

This course will cover basic statistical techniques that are important for analysing data arising from nursing research. Major topics include descriptive statistics, elements of probability, introduction to estimation and hypothesis testing, nonparametric methods, analysis of variance, and elements of study design. The concept and applications of statistical methods are stressed. At the end of the course, the students will also have the knowledge of the need for non-parametric statistical techniques as alternatives to parametric methods; acquired skills in their practical implementation and have an understanding of the underlying theory.

Main Reference


Assessment Methods

Continuous Assessment: 40%
Final Examination: 60%

MQD7006
Statistical Computing

Learning Outcomes

At the end of this course, students will be able to:
1. Construct a data file using data sets.
2. Use appropriate statistical methods to analyse the distribution of data.
3. Apply appropriate statistical methods to present the research data.
4. Interpret the test results accurately.

Synopsis

This course is to familiarize students with the commonly uses statistical program and exercises of applying statistical procedures. It also provides students opportunity to interpret findings of statistical analysis.
Main Reference


Assessment Methods

Continuous Assessment: 40%
Final Examination: 60%

MQD7007

Health Assessment

Learning Outcomes

At the end of this course, student is able to:
1. Develop a conceptual framework for conducting nursing assessment.
2. Discuss the legal and ethical aspect in health assessment.
3. Explain the steps in performing health assessment holistically for patients at any stage of their life span.
4. Apply clinical decision making and critical reasoning skill in health assessment.
5. Identify patients' problems based on history taking and physical examination findings scientifically.

Synopsis

The module will discuss functions of health framework and nursing diagnoses. The health assessment process presented will be based on nursing objectives which will focus on data collection and analysis related to the individual's capabilities, physical status, actual and potential responses to the health problems. The student will also be exposed to the importance of critical thinking, clinical reasoning, decision making and clinical evaluation. The emphasis is on competency in assessing, recognising and managing multiple variables within patient care.

Main Reference


Assessment Methods

Continuous Assessment: 40%
Final Examination: 60%
MQD7008
Issues and Trends in Nursing and Health Care

Learning Outcomes
At the end of this course, students are able to:
1. Identify current issues in nursing as they relate to health care trends.
2. Analyse critically current issues in nursing education and management.
3. Explain appropriate nursing measures toward current issues from an economic, legal and socio-political perspective.
4. Argue issues related to the preparation of advanced nursing practice in the aspects of nursing management and leadership and law.

Synopsis
The course will discuss issues/trends that emerged in the nursing field. As health care services become complex and costly, the course will focus on the challenges of the role, function and status of nursing in the context of changes in the health care system. Building on the knowledge and experience of the students, the course will discuss issues in health care and the role of nurses in the context of sociology, ethics, politics and economics. Reviews/critical analysis of relevant issues will be carried out by individuals/groups of students and will be presented as a written report/oral presentation. Students will be exposed to the importance of critical thinking skills, clinical reasoning, decision making and evaluation.

Main Reference

Assessment Methods
Continuous Assessment: 40%
Final Examination: 60%

MQD7009
Health Promotion

Learning Outcomes
At the end of this course, students are able to:
1. explain concepts, models and theories of health promotion and epidemiology
2. discuss health promotion strategies and policies in health promotion
3. analyze issues and factors influencing planning and development in health promotion
4. carry out health promotion activities

Synopsis
Health promotion is now a central force in the new public health movement in Malaysia and it is considered as essential aspect of the work of all health care professionals. This course is intended to introduce the students to a wide range of concerns ion the theory and practice of health promotion. Relevant sociology, ethical, political, psychological and economics issues will be discussed. It will give students the opportunity to consider broad issues in health promotion as well as nurses’ role.

Main Reference


**Assessment Methods**

Continuous Assessment: 40%

Final Examination: 60%

**MQD7010**

**Nursing Practicum**

**Learning Objectives**

At the end of this course, students are able to:

1. Discuss the advanced patient care and roles and responsibilities of an advanced practitioner according to the clinical specialty.
2. Demonstrate specialist nursing skills and competencies according to the clinical specialty.
3. Construct specific patient care protocols or guidelines based on problems or needs identified in the clinical area.
4. Criticise the nursing practice/patient care system in the current health context through application of principles of critical reflection and evidence-based nursing practice.
5. Practice the principles of team work, communication and leadership skill in patient care management.

**Synopsis**

This course is designed to enable experienced practitioners to draw on their practice experience to critically explore their health care practice in depth. Its focus is the development of the student’s clinical knowledge and competence in their field of practice. The aim is to advance practice to make contributions that are more effective to client outcome/experience according to student’s speciality. Fundamental to this course is the integration of clinical knowledge into practice and develop student’s potential to advanced practice.

**Main Reference**


**Assessment Methods**

Continuous Assessment: 100%

**MQD7011**

**Reflection in Nursing Practice**

**Learning Objectives**

At the end of this course, students are able to:

1. Write professional journal regarding their latest learning experiences
2. Identify specific situation from the clinical area as a case for reflection
3. Apply reflection process in learning situation.
4. Identify main concept / theory related to reflection for application of each learning situation.

Synopsis
In this module, student will acquire knowledge regarding the journaling concepts. Students will be guided to keep professionals journal. In this module, student will need to keep one study log and use the log to identify specific situation and the significant in basic reflection by group studying. The module content will involve the user of case study and reflection process.

Main Reference

Assessment Methods
Continuous Assessment: 40%
Final Examination: 60%

MQD7012
Principle and Methods of Epidemiology

Learning Outcomes
At the end of the course, students are able to:
1. Explain the principles and concepts of epidemiology.
2. Integrate the knowledge of methods in epidemiology in conducting nursing research.
3. Explain the use of epidemiology research design in clinical research.
4. Evaluate critically various clinical research designs.

Synopsis
This course gives the student opportunity to learn about the principle and method in epidemiology. The first part of the course introduces the principle and concepts that include principles of prevention and control, introduction to selected measures of health and disease occurrence, standardization, disease surveillance, epidemic management and screening test. Methods of epidemiology are taught in the second part of the course, students will learn about the study designs, measurements of risks, and errors in epidemiological studies, causation and association.

Main Reference

Assessment Methods
Continuous Assessment: 40%
Final Examination: 60%
<table>
<thead>
<tr>
<th>YEAR</th>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Two (2) core courses each of three (3) credit hours.</td>
<td>Four (4) core courses each of three (3) credit hours.</td>
</tr>
<tr>
<td></td>
<td>One (1) core course of two (2) credit hours.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One (1) elective course of three (3) credit hours.</td>
<td></td>
</tr>
<tr>
<td>Admission</td>
<td>End of Semester I Examination</td>
<td>End of Semester II Examination</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>Nursing Practicum of ten (10) credit hours.</td>
<td>Nursing Research Project II of six (6) credit hours.</td>
</tr>
<tr>
<td></td>
<td>Nursing Research Project I of three (3) credit hours.</td>
<td></td>
</tr>
<tr>
<td>End of Semester I Examination</td>
<td>End of Semester II Examination</td>
<td>Graduation</td>
</tr>
</tbody>
</table>
Name of Programme : Master of Obstetrics and Gynaecology
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Obstetrics and Gynaecology Programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry Qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or equivalent medical qualifications approved by the Senate; and

(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.

(2) The maximum duration of study shall be seven years.

4. Structure of Programme

(1) The programme of study comprises of two stages as follows:

(a) Stage I comprising:

(i) twelve (12) months of training in basic Clinical Obstetrics and Gynaecology.

(ii) plan and commence research project(s).

(b) Stage II comprising advanced clinical training in Obstetrics and Gynaecology for a period of thirty six (36) months during which the candidate shall:

(i) achieve satisfactory progress in the continuous assessment process from the department and supervisor;

(ii) keep a log book of cases managed under supervision and practical procedures performed and certified satisfactory by the supervisor; and

(iii) submit research report(s) or published article duly certified as satisfactory by the assessor(s) not later than six (6) months before the Final Examination.
(2) A candidate is required to pass Part I Master of Obstetrics and Gynaecology Degree prior to Advancement to Stage II of the programme.

(3) Candidate may undertake a maximum of six (6) months of elective training in a relevant discipline within/ outside department as approved by the Department of Obstetrics and Gynaecology, Faculty of Medicine, University of Malaya.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project(s) must be approved by the Department of Obstetrics and Gynaecology, Faculty of Medicine, University of Malaya and the ethics committee (where project is undertaken) prior to its commencement.

9. Submission

(1) A candidate is required to submit his research report(s) or published article duly certified as satisfactory by the assessor(s) not later than six (6) months before the Final Examination.

(2) A candidate is required to submit a log book of cases managed under supervision and practical procedures performed and certified satisfactory by the supervisor at least three (3) months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination;
(b) the Final Examination

(2) No candidate shall be permitted to sit for the Final Examination unless he has -

(a) pass the Part I Examination;
achieve satisfactory progress in the continuous assessment process from the department and supervisor;

(c) submit a log book of cases managed under supervision and practical procedures performed and certified satisfactory by the supervisor at least three (3) months before the Final Examination; and

(d) submit research report(s) or published article duly certified as satisfactory by the assessor(s) not later than six (6) months before the Final Examination.

(3) The Part I Examination shall be held at about of twelve (12) months into Stage I of the programme of study. The Final Examination shall be held at the end of the final year of the Stage II programme of study.

(4) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGGG6103</td>
<td>Multiple Choice Questions</td>
<td>40%</td>
</tr>
<tr>
<td>MGGG6104</td>
<td>Essay</td>
<td>20%</td>
</tr>
<tr>
<td>B. Clinical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGGG6105</td>
<td>Objective Structured Clinical Evaluation</td>
<td>40%</td>
</tr>
<tr>
<td>MGGG6106</td>
<td>Viva</td>
<td></td>
</tr>
</tbody>
</table>

Total 100%

(b) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows (using the close marking system):

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGGG6236</td>
<td>Paper 1 Multiple Choice Questions</td>
<td>40%</td>
</tr>
<tr>
<td></td>
<td>Modified Essay Questions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short Answer Questions</td>
<td></td>
</tr>
<tr>
<td>MGGG6237</td>
<td>Paper 2 Multiple Choice Questions</td>
<td>40%</td>
</tr>
<tr>
<td></td>
<td>Modified Essay Questions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Short Answer Questions</td>
<td></td>
</tr>
<tr>
<td>B. MGGG6243</td>
<td>Clincials I Long Case Short Cases</td>
<td>40%</td>
</tr>
<tr>
<td>(Obstetrics)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MGGG6244</td>
<td>Long Case Short Cases</td>
<td>40%</td>
</tr>
<tr>
<td>(Gynaecology)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. MGGG6255 Clinicals II</td>
<td>Objective Structured Clinical Evaluation</td>
<td>20%</td>
</tr>
</tbody>
</table>
(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained -

(a) Part I Examination

(i) 50% or more of the aggregate marks of the written components (Component A); and

(ii) 50% or more of the aggregate marks of the clinical components (Component B).

(b) Final Examination

(i) 50% or more of the aggregate marks of the written components (Component A); and

(ii) 50% or more of the aggregate marks of the clinical components (Component B); and

(iii) 50% or more of the aggregate marks of the clinical components (Component C).

Candidate must pass the written components (Component A) before being allowed to sit the clinical components.

Candidate must pass both the Long Case and Short Case sections separately (Component B).

Candidates also fail the Component B if they fail three or more cases in any of the six clinical cases regardless of the aggregate marks obtained.

The candidate shall be informed of the results of written components (Component A) at least two weeks before commencement of the clinical components.

(6) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a reexamination on two separate occasions after a period of six months.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the manner as prescribed for in the Part I Examination.

(iii) A candidate who fails the Part I Re-Examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination
(i) Candidate who has passed the written components (Component A) but failed the clinical components (Component B and/or Component C), is allowed to have TWO (2) more attempt in the subsequent clinical components, without having to repeat the written components (Component A).

Failing this third attempt of clinical components (Component B and/or Component C) or failed to appear for the examination for any reason, the candidate will have to resit the whole Final Examination Master of Obstetrics and Gynaecology (Component A, B and C).

(ii) There is no limit on the total attempts in Final Examination, as long as the candidate is still within the maximum duration of study which shall be seven years from the first date of registration.

(iii) After the maximum duration study is over the candidate is considered to have failed the Final Examination and shall not be permitted to repeat the programme of study.

(c) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the respective prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Obstetrics and Gynaecology unless he has successfully completed all parts of the course, fulfilled the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Obstetrics and Gynaecology with Distinction if he -

(a) has passed with Distinction in the Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
### Master of Obstetrics and Gynaecology

#### Programme Schedule

<table>
<thead>
<tr>
<th>Stage</th>
<th>Year</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Year 1</td>
<td>strate 12 months of training in basic Clinical Obstetrics and Gynaecology which may include a maximum six (6) months of elective training in a relevant discipline.</td>
</tr>
<tr>
<td>II</td>
<td>Year 2</td>
<td>Advanced Clinical training in Obstetrics and Gynaecology for a period of thirty six (36) months</td>
</tr>
<tr>
<td></td>
<td>Year 3</td>
<td>Final Examination</td>
</tr>
<tr>
<td></td>
<td>Year 4</td>
<td>Part I Examination</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Registration (Entrance Evaluation)</td>
</tr>
</tbody>
</table>
Name of Programme : Master of Ophthalmology
Faculty : Faculty of Medicine

1. Classification of Programme
The Master of Ophthalmology programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements
   (1) Entry qualifications
   (a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and
   (b) At least one year of post-full registration clinical experience approved by the Senate.
   (2) Other requirements
   (a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and
   (b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study
   (1) The minimum duration of study shall be four years.
   (2) The maximum duration of study shall be seven years.

4. Structure of Programme
   (1) The programme comprises three stages as follows:
   (a) Stage I, in the first year of study, comprising training in the basic medical sciences, basic ocular sciences, basic ophthalmology and related medical and surgical disciplines;
   (b) Stage II, in the second and third year of study, comprising clinical ophthalmology training, medical postings and preparation of a case studies report for the number of cases which shall be as determined by the Department from time to time; and
   (c) Stage III, in the fourth year of study comprising advanced clinical training in Ophthalmology and a research project.
   (2) A candidate shall keep a log book throughout his period of study to document tasks undertaken.
   (3) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed or been exempted from the Part I Examination.
   (4) No candidate shall be permitted to proceed to Stage III of the programme of study unless he has passed the Part II Examination.
5. **Registration**

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) All candidates must complete the minimum 4 years of training for the programme of the study.

6. **Attendance**

During his programme of study –

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. **Supervision**

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. **Title of Research**

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. **Submission**

A candidate is required to submit his -

(1) case studies report not later than two months before the Final Examination and research report not later than six months before the Final Examination; and

(2) log book one month before the Final Examination.

10. **Examinations for the Degree**

(1) The Examinations leading to the degree shall be as follows:

   (a) the Part I Examination;
   (b) the Part II Examination; and
   (c) the Final Examination.

(2) No candidate shall be permitted to sit for the Part II Examination unless –

   (a) he has passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he –

      (i) has passed Part III Examination for the membership of the Royal College of Ophthalmologists (London); or
(ii) has passed Part III Examination of Royal College of Surgeons of Edinburgh; or

(iii) holds a degree or diploma of equivalent standard acceptable to the Senate.

(b) his protocol for the research report presented and accepted by the department 6 months before the Part II Examination.

(c) he has submitted the first draft of the case report 3 months before the Part II Examination.

(3) No candidate shall be permitted to appear for the Final Examination unless he has-

(a) passed the Part II Examination;

(b) submitted the research report not later than six months and the case studies report not later than two months before the Final Examination; and

(c) submitted the log book that has been certified as satisfactory by the Department one month before the Final Examination.

(4) The Part I Examination shall be held at the end of Stage I of the programme of study. The Part II Examination shall be held at the end of the second year of Stage II of the programme of study. The Final Examination shall be held at the end of the fourth year of the programme of study.

(5) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>% contribution to total marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MHGM6101 Paper 1 Multiple Choice Questions</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MHGM6102 Paper 2 Multiple Choice Questions</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MHGM6103 Paper 3 Essay Questions</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>50</td>
</tr>
<tr>
<td>B. Practical</td>
<td>MHGM6122 Viva Voce</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>MHGM6126 OSPE Objective Structured Practical Examination</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>30</td>
</tr>
<tr>
<td>C. Refraction</td>
<td>MHGM6111 Clinical Refraction</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>MHGM6127 OSPE Objective Structured Practical Examination (Optics and Refraction)</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>100</td>
</tr>
</tbody>
</table>

(b) Part II Examination

The components of the Part II Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>% contribution to total marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MHGM6101 Paper 1 Multiple Choice Questions</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MHGM6102 Paper 2 Multiple Choice Questions</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>MHGM6103 Paper 3 Essay Questions</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>50</td>
</tr>
<tr>
<td>B. Practical</td>
<td>MHGM6122 Viva Voce</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>MHGM6126 OSPE Objective Structured Practical Examination</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>30</td>
</tr>
<tr>
<td>C. Refraction</td>
<td>MHGM6111 Clinical Refraction</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>MHGM6127 OSPE Objective Structured Practical Examination (Optics and Refraction)</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>100</td>
</tr>
</tbody>
</table>
**Total marks**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MHGM6236 Paper 1 Multiple Choice Questions</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>MHGM6237 Paper 2 Essay Questions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MHGM6238 Paper 3 Essay Questions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>40</td>
</tr>
<tr>
<td>B. Clinical</td>
<td>MHGM6243 Long Case Ophthalmology</td>
<td>15</td>
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<td></td>
<td>MHGM6244 Short Cases1 Ophthalmology</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>MHGM6245 Short Cases2 General Medicine in relation to Ophthalmology</td>
<td>10</td>
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<tr>
<td></td>
<td>Total</td>
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</tr>
<tr>
<td>C. Viva Voce</td>
<td>MHGM6251 Viva 1 Ophthalmology</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>MRGM6252 Viva 2 General Medicine in relation to Ophthalmology</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>20</td>
</tr>
</tbody>
</table>

**Grand Total 100**

(c) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>MHGM6371 Case Studies Based on Case Studies, Report the number to be determined by the Department</td>
<td>100</td>
</tr>
<tr>
<td>B.</td>
<td>MHGM6372 Research Report</td>
<td>100</td>
</tr>
</tbody>
</table>

**Total 200**

(6). Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribe below if he has obtained:

(a) Part I Examination

(i) 50% or more of the marks for each component of the Examination.

b) Part II Examination

(i) 50% or more of the marks for each component of the Examination;

(ii) The theory examination (Component A) will be held 1 month before the clinical and viva examination (Component B & C). Only candidates who pass the Component A will be allowed to sit for Component B & C.

(iii) A candidate who fails the Component B and / or C will not have to re-sit the Component A. Both components B and C have to be repeated.

(c) Final Examination

50% or more of the marks for each component for the Examination.
(7) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed the Component A (theory) of the Part II Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) A candidate who passes the Component A but failed Component B (Clinical) and/or C (Viva) may be permitted for re-examination on two separate occasions within two years of passing Component A, at six months intervals without having to re-sit Component A of the Part II Examination.

(iii) A candidate who fails Component B only or Component C only, will have to re-sit both components of the re-examination.

(iv) A candidate who passes Component A but attempts for Component B & C after two years of passing Component A, will have to re-sit Component A of the re-examination.

(v) A candidate who fails the re-examination for Component A on the third trial shall be deemed to have failed the Part II Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Senate.

(vi) A candidate who passes the re-examination for Component A on the 3rd trial is allowed to sit for Component B & C for three times. A candidate who fails Component B & C for the third trial shall be deemed to have failed the Part II examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Senate.

(vii) A candidate must pass the Part II examination before/on the sixth year of the the study to enable one year of study before the Final Assessment.

(c) Final Re-Examination

(i) A candidate whose research report or case studies report is deemed unsatisfactory by the Committee of Examiners may be referred for further work in his research report or case studies report over a period of time to be determined by the Committee of Examiners except that such period of time as determined shall not exceed six months on any
occasion. At the end of the prescribed period the candidate shall be required to submit his research report or case studies report for re-examination. A candidate who fails to submit his research report or case studies report by the end of the prescribed period for re-examination shall be deemed to have failed the research report or case studies report.

(ii) A candidate shall be permitted to submit research report or case studies report either separately or combined for re-examination on not more than two occasions.

(iii) A candidate who fails the research report or case studies report taken separately or combined after the second re-examination shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(d) A candidate who has passed the re-examination for the examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Ophthalmology unless he has successfully completed all parts of the course and has passed the prescribed Examinations, and the Final Assessment.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination, the Part II Examination or the Final Examination if he -

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examinations;

(b) has not failed in any component of the prescribed examination; and

(c) has not repeated the prescribed examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Ophthalmology with Distinction if he -

(a) has passed with Distinction in the Part II Examination and the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
### Master of Ophthalmology Programme Schedule

<table>
<thead>
<tr>
<th>Stage</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Basic Sciences</td>
<td>Clinical Ophthalmology</td>
<td>Clinical Ophthalmology</td>
<td>Advanced clinical Ophthalmology</td>
</tr>
<tr>
<td>II</td>
<td>Basic Ocular Sciences</td>
<td>Basic Ophthalmology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td></td>
<td></td>
<td>Part I Examination</td>
<td>Final Examination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Part II Examination</td>
<td></td>
</tr>
</tbody>
</table>

Registration (Entrance Evaluation)
Name of Programme : Master of Orthopaedic Surgery
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Orthopaedic Surgery programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications
(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and
(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements
(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and
(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.
(2) The maximum duration of study shall be seven years.

4. Structure of Programme

(1) The programme of study comprises two stages as follows:

(a) Stage I comprising twenty four (24) months in Orthopaedic Surgery providing teaching/training in basic and applied medical sciences, principles of surgery, basic orthopaedic surgery and orthopaedic traumatology.

(b) Stage II comprising twenty four (24) months in Orthopaedic Surgery including rotation through the following sub-specialities:

- Spinal Surgery
- Orthopaedic Oncology
- Paediatric Orthopaedics
- Upperlimb and reconstructive and micro surgery
- Arthroscopy sports and joint reconstructive surgery
- Arthroplasty
- Orthopaedic Traumatology
- Limb Lengthening and reconstructive surgery
(2) A candidate is required to keep a log book throughout his period of study to document tasks undertaken.

(3) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed the Part I Examination.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit his log book not later than two months prior to the Final Examination.

(2) A candidate is required to submit his research report not later than six months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination; and
(b) the Final Examination

A candidate may be exempted from the Part I examination if he or she has passed:

(i) Part I Fellowship Examination of The Royal Australasian College of Surgeons;

or

(2) No candidate shall be permitted to sit for the Final Examination unless he has submitted:

(a) his log book consisting of surgery observed, assisted and performed for the duration of the course and ten reports on cases managed under supervision in various subspecialities, to be certified by his supervisor and deemed satisfactory by a panel of assessors to be appointed by Head of Department responsible for the candidate’s programme of study, not later than two months before the Final Examination; and

(b) his research report not later than six months before the Final Examination. The research report must be certified as satisfactory by a panel of assessors to be appointed by Head of Department responsible for the candidate’s programme of study before the candidate is permitted to sit the Final Examination.

(3) The Part I Examination shall be held at the end of the first six (6) months of Stage I of the programme of study. The Final Examination shall be held at the end of Stage II of the programme of study.

(4) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MRGJ6104 Multiple Choice Questions</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>100</td>
</tr>
<tr>
<td>B. MGRJ6124</td>
<td>OSCE</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MGRJ6125 Viva Voce 1 - Anatomy</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MGRJ6126 Viva Voce 2 - Physiology</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MGRJ6127 Viva Voce 3 - Pathology</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Principles of Surgery, Biomaterials and Biomechanics</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>500</td>
</tr>
</tbody>
</table>

A candidate who obtains less than 50% or 50 marks in the Section A (written) of the Part 1 Examination will not be permitted to sit for the Section B (OSCE and Viva Voce).

(b) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MRGJ6236 Paper 1 Essay</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>MRGJ6237 Paper 2 Essay</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>MRGJ6238 Paper 3 Best Answer Question (BAQ)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>200</td>
</tr>
</tbody>
</table>
B. Clinical
MRGJ6243  Long Cases  100
MRGJ6244  Short Cases  100
Total  200

C. Viva Voce and OSCE
MRGJ6251  OSCE  Pathology, Biomechanics and
implants, Orthotics and
prosthetics, Imaging  100
MRGJ6252  Viva Voce 1  Principles of Orthopaedic Surgery  100
MRGJ6253  Viva Voce 2  Operative Orthopaedics  100
Total  300

Grand Total  700

(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he
has obtained:-

(a) Part I Examination

(1) Section A

(i) The total marks for this Component A examination is 100 marks. The
passing mark for this Component is 50 marks or 50%

(ii) Only those candidates who passed Component A will be allowed to proceed to Component B

(2) Section B

(i) The total marks for this OSCE examination is 100 marks. The passing mark for this OSCE examination will be 70 marks or 70%.

(ii) The total marks for all the three viva voces is 300 marks (100 marks each).

(iii) The passing mark for each viva voce will be 50 marks or 50%

(iv) The overall passing marks for the three viva voces will be 150 marks or 50%

Special Rules:
(i) 40 or less in any section is an unredeemable fail
(ii) 41 – 49 in 2 sections is an unredeemable fail

(b) Final Examination

50% or more of the marks for each component of the Examination

A minimum mark of 40% for both long cases and short cases in the clinical component

(6) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.
(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) A candidate who has passed the re-examinations for the shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Orthopaedic Surgery unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Orthopaedic Surgery with Distinction if he -

(a) has passed with Distinction in the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
# Master of Orthopaedic Surgery

## Programme Schedule

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Training in Orthopaedic Surgery including rotation through the following subspecialties and a research report:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spinal Surgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Orthopaedic Oncology</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Paediatric Orthopaedics</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Upperlimb and reconstructive and micro surgery</td>
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<td></td>
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<td>Arthroscopy sports and joint reconstructive surgery</td>
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<td>Arthroplasty</td>
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<td></td>
<td></td>
<td></td>
<td>Orthopaedic Traumatology</td>
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<td></td>
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<td>Limb Lengthening and reconstructive surgery</td>
</tr>
</tbody>
</table>

**STAGE I**

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Year 1</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Orthopaedic Surgery</td>
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<tr>
<td></td>
<td></td>
<td>(Basic and Applied Medical Sciences, Principles of Surgery, Basic Orthopaedic Surgery and traumatology)</td>
</tr>
</tbody>
</table>

**STAGE II**

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Year 4</th>
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</tbody>
</table>

**Final Examination**

**STAGE I**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Orthopaedic Surgery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Basic and Applied Medical Sciences, Principles of Surgery, Basic Orthopaedic Surgery and traumatology)</td>
</tr>
</tbody>
</table>

**STAGE II**

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Year 4</th>
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</tbody>
</table>

**Part I Examination**

(At the end of the first six months of Stage I)

**Registration**

(Entrance Evaluation)
Name of Programme : Master of Otorhinolaryngology – Head & Neck Surgery  
Faculty : Faculty of Medicine

1. **Classification of Programme**

The Master of Otorhinolaryngology – Head & Neck Surgery programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. **Entry Requirements**

   (1) **Entry qualifications**

   (a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

   (b) At least one year of post-full registration clinical experience approved by the Senate.

   (Priority to candidate’s who has completed six (6) months in General Surgery as a Medical Officer after the internship training in any government hospitals).

   (2) **Other requirements**

   (a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

   (b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. **Duration of Study**

   (1) The minimum duration of study shall be four years.

   (2) The maximum duration of study shall be seven years.

4. **Structure of Programme**

   (1) The programme of study comprises two stages as follows –

   (a) **Stage I comprising** –

      (i) eighteen months of study (for foreign candidates and Malaysians who have not done six (6) months of surgical posting prior to the entry of this programme); or

      (ii) twelve (12) months of study (for Malaysian candidates who have completed the six (6) months of surgical posting prior to the entry of this programme) in Basic Otorhinolaryngology including:

         (A) six (6) months in Basic and Applied Medical Sciences and Principles of Surgery; and

         (B) six (6) months in General Surgery (for foreign candidates and Malaysians who have not done six months (6) of surgical posting prior to the entry of this programme); and
(C) the keeping of a log book of the candidate’s surgical procedures.

(b) Stage II comprising –

(i) thirty (30) months of study (for foreign candidates and Malaysians who have not done six (6) months of surgical posting prior to the entry of this programme); or

(ii) thirty six (36) months of study (for Malaysian candidates who have completed the six (6) months of surgical posting prior to the entry of this programme) in Advanced Otorhinolaryngology including rotational postings in Oral and Maxillo-facial Surgery, Neuro-surgery and Plastic and Reconstructive Surgery and a research project in the field of Otorhinolaryngology.

(2) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed or been exempted from the Part I Examination.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study –

(1) A candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

A candidate is required to submit his research report and log book not later than three months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:
(a) the Part I Examination; and
(b) the Final Examination

(2) No candidate shall be permitted to sit for the Final Examination unless he has -

(a) submitted his research report and log book not later than three months before the Final Examination; and
(b) passed the Part I examination. In the event of the candidate taking the third attempt for the Part I examination, a minimum of 3 years is required, to sit for the final examination after this attempt; or

(c) been exempted from the Part I Examination.

A candidate may be exempted from the Part I Examination if he has passed –

(A) Final Examination for the Membership of any one of the following Royal Colleges:

The Royal College of Surgeons of Edinburgh
The Royal College of Surgeons of England
The Royal College of Physicians and Surgeons of Glasgow
The Royal College of Surgeons in Ireland

or

(B) Sections B and C or Part II Examinations for Fellowship of any one of the following Royal Colleges:

The Royal College of Surgeons of Edinburgh
The Royal College of Surgeons of England
The Royal College of Physicians and Surgeons of Glasgow
The Royal College of Surgeons in Ireland

or

(C) Part I Examination of the Royal Australasian College of Surgeons.

(3) The Part I Examination shall be held at the end of the first six months of Stage I of the programme of study. The Final Examination shall be held at the end of Stage II of the programme of study.

(4) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIGL6101</td>
<td>Paper 1</td>
<td>Essay</td>
</tr>
<tr>
<td>MIGL6102</td>
<td>Paper 2</td>
<td>Multiple Choice Questions</td>
</tr>
<tr>
<td>MIGL6103</td>
<td>Paper 3</td>
<td>Multiple Choice Questions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
</tr>
<tr>
<td>B.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIGL6121</td>
<td>Viva Voce</td>
<td></td>
</tr>
<tr>
<td>MIGL6122</td>
<td>Anatomy</td>
<td></td>
</tr>
<tr>
<td>MIGL6123</td>
<td>Physiology and Principles of Surgery</td>
<td>100</td>
</tr>
</tbody>
</table>
MIGL6124  Pathology (including Medical Microbiology)  100
Total 300
Grand Total 1000

A candidate who obtains less than 50% in the theory component of the Part I Examination will not be permitted to sit for the viva voce.

(b) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIGL6236</td>
<td>Paper 1</td>
<td>Essay and Short Answer Type Questions 100</td>
</tr>
<tr>
<td>MIGL6237</td>
<td>Paper 2</td>
<td>Multiple Choice Questions 100</td>
</tr>
<tr>
<td>Total</td>
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<td>200</td>
</tr>
<tr>
<td>B. MIGL6243</td>
<td>Clinical</td>
<td></td>
</tr>
<tr>
<td>MIGL6244</td>
<td>Long Case</td>
<td>100</td>
</tr>
<tr>
<td>C. MIGL6245</td>
<td>Short Cases</td>
<td></td>
</tr>
<tr>
<td>MIGL6246</td>
<td>Otology</td>
<td>100</td>
</tr>
<tr>
<td>MIGL6247</td>
<td>Rhinology</td>
<td>100</td>
</tr>
<tr>
<td>MIGL6248</td>
<td>Laryngology</td>
<td>100</td>
</tr>
<tr>
<td>MIGL6249</td>
<td>Head &amp; Neck Surgery</td>
<td>100</td>
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<tr>
<td>Total</td>
<td></td>
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<tr>
<td>D. MIGL6250</td>
<td>Viva Voce</td>
<td></td>
</tr>
<tr>
<td>MIGL6251</td>
<td>Otology including Audiology and Otoneurology</td>
<td>100</td>
</tr>
<tr>
<td>MIGL6252</td>
<td>Rhinolaryngology and Head &amp; Neck Surgery</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td>900</td>
</tr>
</tbody>
</table>

(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

(i) 50% or more of the aggregate combined marks of all the components for the examination; and

(ii) 50% or more of the marks for each component of the Examination; and

(iii) A minimum mark of 45% in each viva; and

(iv) At least two vivas with a mark of 50% or more

(b) Final Examination

(i) 50% or more of the marks for each component of the Examination; and
(ii) Not less than 50% marks in three short cases; and

(iii) Not less than 40% marks in any short cases; and

(iv) 40.00% and above marks in Multiple Choice Questions (MIGL6237);  
and

(v) Not less than 40% marks in each viva component.

(6) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination. However, a candidate who has passed the written components previously will not be required to resit these components at the subsequent Part I Re-Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances and on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination within seven (7) academic years at six monthly intervals.

(ii) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination. However, a candidate who passed Component A in the previous Final Examination, is allowed not to resit Component A, only twice in the next semester (six monthly) exam.

(iii) A candidate who fails the re-examination beyond seven (7) academic years shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Otorhinolaryngology – Head & Neck Surgery unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination
A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Otorhinolaryngology - Head & Neck Surgery with Distinction if he -

(a) has passed with Distinction in the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

<table>
<thead>
<tr>
<th>STAGE II</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Training comprising thirty (30) months of study in Advance Otorhinolaryngology including rotational posting in Oral and Maxillo-facial Surgery, Neuro-surgery and Plastic and Reconstructive Surgery and a research project in the field of Otorhinolaryngology.</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>STAGE I</th>
<th>Year 1</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Basic Otorhinolaryngology (18 months) including:</td>
</tr>
<tr>
<td></td>
<td>(i) Basic and Applied Medical Sciences and Principles of Surgery (6 months)</td>
</tr>
<tr>
<td></td>
<td>(ii) General Surgery (6 months)</td>
</tr>
</tbody>
</table>

Master of Otorhinolaryngology – Head & Neck Surgery Programme Schedule

Final Examination

Part I Examination
(At the end of the first six months of Stage I)

Registration
(Entrance Evaluation)
Name of Programme : Master of Paediatrics  
Faculty : Faculty of Medicine  

1. Classification of Programme  
The Master of Paediatrics programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements  
(1) Entry qualifications  
(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and  
(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements  
(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and  
(b) Satisfies the Department responsible for the candidate’s programme of study in Entrance Evaluation recognised by the Faculty.  
(c) A pass in the Entrance Evaluation is valid for two years to enrol into the program.

3. Duration of Study  
(1) The minimum duration of study shall be four years.  
(2) The maximum duration of study shall be seven years except in special circumstances.

4. Structure of Programme  
(1) The programme of study comprises three stages as follows:  
(a) Stage I comprising basic clinical training in Basic Medical Sciences and General and Emergency Paediatrics;  
(b) Stage II in the second and third year comprising of  
   (i) advanced training in the field of Paediatrics; and  
   (ii) a research project;  
   and  
(c) Stage III comprising further advanced training in the field of Paediatrics and completion of the research project.  
(2) A candidate is required to keep a log book throughout his period of study to document tasks undertaken.
(3) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed or has been exempted from the Part I Examination.

(4) No candidate shall be permitted to proceed to Stage III of the programme of study unless he has passed the Part II Examination.

5. Registration

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for the second year of Stage II of the programme of study if he has passed the Part II (theory-a&b) Examination for the Membership of –

(a) the Royal College of Paediatrics and Child Health;
(b) the Royal College of Physicians of the United Kingdom;
(c) the Royal College of Physicians of Ireland; or
(d) the equivalent of qualifications listed in (a), (b) or (c) above as approved by the Senate.

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit his log book for the respective period of study not later than one month before the Part I and Part II Examinations and the Final Examination.

(2) A candidate is required to submit his research report not later than two months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:
(2) No candidate shall be permitted to take the Part I Examination unless he has –

(a) satisfactorily completed Stage 1 of the programme of study;
(b) obtained written certification from the Head of Department responsible for his programme of study to confirm that he has satisfactorily completed the prescribed training under supervision; and
(c) submitted his log book not later than one month before the Part I Examination.
(d) completed one year of enrolment into the program (first attempt), but not later than two years after enrolment into the program.

(3) Part II Examination

(a) Candidate shall be permitted to take the Part II Examination after: –

(i) satisfactorily completed Stage II of the programme of study;
(ii) obtaining written certification from the Head of Department responsible for his programme of study to confirm that he has satisfactorily completed the prescribed training under supervision; and
(iii) submitting his log book not later than one month before the Part II Examination; and

(b) The first attempt of the Part II Examination can be taken six weeks after passing the Part I Examination but not later than three years after the enrolment into the program.

(4) No candidate shall be permitted to proceed to the Final Examination unless he has -

(a) satisfactorily completed Stage III of the programme of study;
(b) obtained written certification from the Head of Department responsible for his programme of study to confirm that he has satisfactorily completed the prescribed training under supervision;
(c) submitted his research report not later than two months before the Final Examination;
(d) submitted his log book not later than one month before the Final Examination; and
(e) passed the Part II Examination.

(5) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated for each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(b) Part II Examination

Part II Examination consists of the following components:

1. Long Case
2. Observed Long Case
3. Short Cases
4. Communication station
5. Emergency station

(c) Final Examination

The component of the Final Examination and the marks to be allocated for the component shall be as follows:

MLGH6371   Research report    100

(6) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

50% or more of the aggregate combined marks for all the components of the Part I Examination.

(b) Part II Examination

(i) total marks ≥ 90 and
(ii) Passes in either long case or observe long case

Allocation of Marks

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear pass</td>
<td>12</td>
</tr>
<tr>
<td>Pass</td>
<td>10</td>
</tr>
<tr>
<td>Bare fail</td>
<td>8</td>
</tr>
<tr>
<td>Fail</td>
<td>4</td>
</tr>
</tbody>
</table>

(c) Final Examination

50% or more of the marks in the research report.

(7) Repeating an Examination

(a) Part I Re-Examination

(i) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(ii) There is no restriction to the total number of attempts, but the candidate must pass Part I Examination within three years upon enrolment into the programme.
(iii) A candidate who fail the Part I examination within three years upon enrolment into the program shall be deemed to have failed the Part I examination and shall not be permitted to continue the program except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed the Part II examination may be permitted to sit for the examination at six monthly interval.

(ii) The candidate has to resit the whole examination (1 Long Case, 1 Long observed case, 5 Short Cases, 1 Communication Station and 1 Emergency Station).

(iii) There is no limit to the number of attempts for Part II examination, but the total duration of the course must not exceed seven years inclusive of the final year for the research project.

(iv) Part II Examination should be completed within two years after passing Part I. If the trainess failed to pass Part II more than two years after passing Part I, they have to re-sit the Part I, provided they do not exceed the overall training duration of seven years.

(c) Final Re-Examination

(i) A candidate whose research report is deemed unsatisfactory by the Committee of Examiners may be referred for further work in his research report over a period of time to be determined by the Committee of Examiners except that such period of time as determined shall not exceed six months on any one occasion. At the end of the prescribed period the candidate shall be required to submit his research report for re-examination. A candidate who fails to submit his research report by the end of the prescribed period for reexamination shall be deemed to have failed the research report.

(ii) A candidate shall be permitted to submit his research report for re-examination on not more than two occasions.

(iii) A candidate who fails the research report after the second re-examination shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(d) A candidate who has passed the Re-Examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Paediatrics unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations and the Final Assessment.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination, the Part II Examination or the Final Examination if he -
(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;
(b) has not failed in any component of the prescribed Examination; and
(d) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Paediatrics with Distinction if he -

(a) has passed with Distinction in the Part II Examination and the Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

### Master of Paediatrics Programme Schedule

<table>
<thead>
<tr>
<th>STAGE I</th>
<th>Year 1</th>
<th>Clinical Training in Basic Medical Science, General and emergency Paediatrics</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAGE II</td>
<td>Year 2</td>
<td>Advance training in Paediatrics and preparation of research project</td>
</tr>
<tr>
<td>STAGE III</td>
<td>Year 3</td>
<td>Advance training in Paediatrics and completion of research project</td>
</tr>
<tr>
<td></td>
<td>Year 4</td>
<td>Advanced Training in Paediatrics and completion of research project</td>
</tr>
</tbody>
</table>

Final Examination
Part II Examination
Part I Examination
Registration (Entrance Evaluation)
Name of Programme : Master of Paediatric Surgery  
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Paediatric Surgery programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(b) At least two years of post-full registration clinical experience in surgery (inclusive of subspecialties) approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation.

3. Duration of Study

(1) The minimum duration of study shall be four years.

(2) The maximum duration of study shall be seven years.

4. Structure of the Programme

The programme of study comprises of two stages as follows:

(1) Stage I in the first year of study comprising Applied Basic Sciences and General Principles of Surgery and/or subspecialties in Surgery.

(2) Stage II in the second, third and fourth years of study comprising:

(a) Six (6) months in Paediatric Medicine, with rotation postings in Neonatology, Paediatric Intensive Care and Paediatric Oncology. This part of the programme should be completed in the second year of the programme.

(b) Subsequent 2½ years (30 months): Training in Applied Basic Sciences relevant to Paediatric Surgery, including Embryology, Principles and Practice of Paediatric Surgery, and clinical problems in Paediatric Surgery with rotation postings in the University or other accredited Paediatric Surgery Unit. The last six months should be spent in the University.

(c) Research project report or case book:

At the beginning of Stage II, a candidate should either
(i) undertake a research project and submit a research report not later than three months before the Final Examination; or

(ii) submit a case book of 12 interesting cases in detail with review of the literature not later than three months before the Final Examination.

5. Registration

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of this programme provided he has:

(a) a Master's degree in Surgery or a Fellowship of one of the Royal Colleges of Surgeons or an equivalent qualification approved by Senate; or

(b) three (3) years of supervised training as a Medical Officer in Surgery, a log book certified by the consultant and passed the Part I Examination of Master of Surgery or FRCS or MRCS Part II.

6. Attendance

During his programme of study –

(1) A candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided that the total extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two (2) months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two (2) months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission

(1) A candidate is required to submit his log book and posting reports every six months for assessment by the Department responsible for the candidate’s programme of study.

(2) A candidate is required to submit his research report not later than six (6) months before the Final Examination.
10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination; and
(b) the Final Examination.

(2) No candidate shall be permitted to sit for the Final Examination unless he has passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he has passed:

(a) Section A or the Primary Fellowship of the following Royal Colleges:

(i) The Royal College of Surgeons of Edinburgh
(ii) The Royal College of Surgeons of England
(iii) The Royal College of Physicians and Surgeons of Glasgow
(iv) The Royal College of Surgeons in Ireland
(v) The Royal Australasian College of Surgeons

or

(b) Final Examination for the Membership of any one of the following Royal Colleges:

(i) The Royal College of Surgeons of Edinburgh
(ii) The Royal College of Surgeons of England
(iii) The Royal College of Physicians and Surgeons of Glasgow
(iv) The Royal College of Surgeons in Ireland
(v) The Royal Australasian College of Surgeons
(vi) Master of Surgery (University of Malaya) or its equivalent approved by the Senate

or

(c) Section B and C of the Primary Fellowship of any one of the following Royal Colleges:

(i) The Royal College of Surgeons of Edinburgh
(ii) The Royal College of Surgeons of England
(iii) The Royal College of Physicians and Surgeons of Glasgow
(iv) The Royal College of Surgeons in Ireland

(3) The Part I Examination shall be held at the end of stage I of the programme of study. The Final Examination shall be held at the end of Stage II of the programme of study.

(4) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated for each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSGU6101 Paper 1</td>
<td>Multiple Choice Questions</td>
<td>150</td>
</tr>
<tr>
<td>MSGU6102 Paper 2</td>
<td>Short Answer Type Questions</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>B. MSGU6121 Viva Voce</td>
<td>Applied Anatomy</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Applied Physiology &amp; Principles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of Surgery</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Applied Pathology</td>
<td></td>
</tr>
</tbody>
</table>
(b) Final Examination

The components of the Final Examination and the marks to be allocated to the various components of the Final Examination shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MSGU6236 Paper 1 Short Answer Type Questions &amp; Essays (Applied Basic Sciences in Paediatric Surgery)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MSGU6237 Paper 2 Short Answer Type Questions &amp; Essays (Principles and Practice of Paediatric Surgery)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MSGU6238 Paper 3 Short Answer Type Questions &amp; Essays (Problems in Paediatric Surgery)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>300</strong></td>
</tr>
<tr>
<td>B. MSGU6243</td>
<td>Clinical Long Case</td>
<td>150</td>
</tr>
<tr>
<td>MSGU6244</td>
<td>Short Cases</td>
<td>150</td>
</tr>
<tr>
<td>MSGU6245</td>
<td>Ward Rounds</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>550</strong></td>
</tr>
<tr>
<td>C. MSGU6250</td>
<td>Viva Voce</td>
<td>150</td>
</tr>
<tr>
<td>D. Continuous Assessment</td>
<td></td>
<td>500</td>
</tr>
<tr>
<td></td>
<td><strong>Grand Total</strong></td>
<td><strong>1500</strong></td>
</tr>
</tbody>
</table>

(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

(i) 50% or more of the aggregate combined marks of all the components for the examination; and

(ii) 50% or more of the marks for each component for the examination.

(b) Final Examination

(i) 50% or more of the aggregate combined marks of all the components for the examination; and

(ii) 50% or more of the marks for each component for the examination.

(iii) Sufficient standard in his research report or case book.

(6) Repeating an Examination

(a) Part I Re-examination
(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six months intervals.

(ii) The Part I Re-examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty and with the approval of Senate.

(b) Final Re-examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six months intervals.

(ii) The Final Re-examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty and with the approval of Senate.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Paediatric Surgery unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he-

(a) has obtained 75% or more of the aggregate combined marks in each of the prescribed Examinations;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Paediatric Surgery with Distinction if he -

(a) has passed with Distinction in the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
| Stage I | Year 1 | 12 months of Applied Basic Sciences & General Principles of Surgery and/or subspecialties in Surgery. |
| Stage II | Year 2 (6 months) | 6 months in Paediatric Medicine with rotation posting in Neonatology; Paediatric Intensive Care and Pediatric Oncology. This part of the programme should be completed in the second year of the programme. To start a research project or keep a case book. |
| Stage II | Year 3 & 4 (24 months) | Applied Basic Sciences in Paediatric Surgery including Embryology, Principles & Practice of Paediatric Surgery, and clinical problems in Paediatric Surgery with rotation in the University or other accredited Paediatrics Surgery Unit. The last six months should be spent in the University. To conduct a research project / keep a case book. To submit a report six months before the Final Examination. |
| | | Final Examination |
| | | Part I Examination (12 months after registration) |
| | | Registration (Entrance Evaluation) |
Name of Programme : Master of Pathology (Anatomical Pathology) / (Haematology) / (Chemical Pathology) / (Medical Microbiology) / (Forensic Pathology)

Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Pathology (Anatomical Pathology) / (Haematology) / (Chemical Pathology) / (Medical Microbiology) / (Forensic Pathology) programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study. After completion of the relevant programme of study specified in this schedule, a candidate shall be eligible for the award of the Master of Pathology in a speciality of the candidate’s choice, as the case may be.

2. Entry Requirements

(1) Entry qualifications

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

(b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.

(2) The maximum duration of study shall be seven years.

4. Structure of Programme

(1) The programme of study comprises two stages as follows:

(a) Stage I encompassing:

(i) clinical training in the first year of study by rotational posting in each of the following four disciplines of Pathology:

(A) Anatomical Pathology including Autopsy
(B) Haematology including Transfusion Medicine;
(C) Chemical Pathology including Immunology; and
(D) Medical Microbiology (Bacteriology, Mycology, Immunology, Virology) with Parasitology.

and

(ii) tasks as stipulated in the log book including posting reports.
(b) Stage II encompassing three years of study comprising:
   
   (i) advanced training in one of the following disciplines of Pathology:
   
   (A) Anatomical Pathology,
   (B) Haematology;
   (C) Chemical Pathology,
   (D) Medical Microbiology;
   (E) Forensic Pathology;

   and

   (ii) a research project

(2) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed or has been exempted from the Part I Examination.

5. Registration

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of the programme of study if he has
   
   (a) the Master of Medical Science in Clinical Pathology Degree of the University or an equivalent qualification approved by the Senate.
   
   (b) passed the Part I Examination for the Membership of the Royal College of Pathologists, United Kingdom; or
   
   (c) passed the Part I Examination for the Fellowship of the Royal College of Pathologists of Australasia.

6. Attendance

During his programme of study:

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty.

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department in the Faculty responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.
9. Submission

(1) A candidate is required to submit his log book and posting reports not later than one month before the Part I Examination.

(2) A candidate is required to submit his research report not later than three months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination; and
(b) the Final Examination.

(2) No candidate shall be permitted to sit for the Part I Examination unless he has satisfactorily completed all the postings prescribed for the first year of the programme of study, completed all the required tasks as set out in the log book and has submitted the log book and posting reports to the Department of Pathology not later than one month before the Part I Examination.

(3) No candidate shall be permitted to sit for the Final Examination unless he has –

(a) passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he possesses one of the following qualifications:

(i) The degree of Master of Medical Science in Clinical Pathology of the University or an equivalent qualification approved by Senate;

(ii) The Part I Examination for the Membership of the Royal College of Pathologists, United Kingdom; or

(iii) The Part I Examination for the Fellowship of the Royal College of Pathologists of Australasia.

(b) submitted his Research Report not later than three months before the Final Examination.

(4) The Part I Examination shall be held at the end of the Stage I of the programme of study. The Final Examination shall be held at the end of the final year of the Stage II programme of study.

(5) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

*MMH Master of Pathology (Haematology)
*MMK Master of Pathology (Medical Microbiology)
*MMJ Master of Pathology (Anatomical Pathology)
*MMG Master of Pathology (Forensic Pathology)
*MMI Master of Pathology (Chemical Pathology)
### Component  Description  Allocation of Marks (Maximum)

**A. Written**
- *MKGA6104 Paper 1  Multiple Choice & Essay Questions  150
- *MKGA6105 Paper 2  Multiple Choice & Essay Questions  150

Total  300

**B. *MKGA6111 Practical**
- *MKGA6111 Paper 1  Objective Structured Examination  150
- *MKGA6112 Paper 2  Objective Structured Examination  150

Total  300

**Grand Total  600**

---

(b) **Final Examination**

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

### Component  Description  Allocation of Marks (Maximum)

**A. Written**
- *MKGA6238 Paper 1  Essay or Short Answer Questions  225
- *MKGA6237 Paper 2  Essay or Short Answer Questions  225

Total  450

**B. *MKGA6243 Practical**
- Objective Structured Questions, Speciality Practicals and Others  450

**C. *MKGA6250 Viva Voce**
-  100

**Grand Total 1000**

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(6) **Requirements for Passing an Examination**

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) **Part I Examination**

(i) 50% or more of the aggregate combined marks of the written and practical components of the Examination;

(ii) at least 50% of the marks for the written component and not less than 40% of the marks in the written component for each discipline of Pathology; and

(iii) at least 50% of the marks for the practical component and not less than 40% of the marks in the practical component for each discipline of Pathology.

(b) **Final Examination**

50% or more of the aggregate combined marks for all the components of the Examination and not less than 50% of the marks for the written and practical components of the Examination.

---

(7) **Repeating an Examination**

(a) **Part I Re-Examination**
(i) A candidate who has failed the Part I Examination may be permitted only one re-examination after a period of one year.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination after a period of one year.

(iv) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the Final Re-Examination on the second occasion shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(iv) Notwithstanding regulations 10(7)(b) above, a candidate who has failed because of either the written or practical component of the Final Examination may be permitted a re-examination on four separate occasions at six monthly intervals. Under the circumstances, the re-examination shall comprise the written or practical component that the candidate has failed in the main Examination or the first re-examination and the viva voce. The examination shall be in the discipline of Pathology initially chosen by the candidate for the main Examination.

(c) A candidate who has passed the re-examination for the Examinations above shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Pathology (Anatomical Pathology/ Haematology/ Chemical Pathology/ Medical Microbiology/ Forensic Pathology) unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a pass with Distinction in the Part I Examination and the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction
A candidate may be awarded the degree of Master of Pathology (Anatomical Pathology/ Haematology/ Chemical Pathology/ Medical Microbiology/ Forensic Pathology) with Distinction if he –

(a) has passed with Distinction in the Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

### Master of Pathology (Anatomical Pathology) / (Haematology) / (Chemical Pathology) / (Medical Microbiology) / (Forensic Pathology)

#### Programme Schedule

<table>
<thead>
<tr>
<th>Stage</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAGE I</td>
<td>Intensive Course (3 weeks)</td>
<td>Posting for 10 weeks in each of these disciplines</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Anatomic Pathology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Haematology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Chemical Pathology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Medical Microbiology/ Parasitology</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| | | Part I Examination | Final Examination |
| | | Registration (Entrance Evaluation) | |
Name of Programme : Master of Psychological Medicine  
Faculty : Faculty of Medicine  

1. Classification of Programme  

The Master of Psychological Medicine programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.  

2. Entry Requirements  

(1) Entry qualifications  

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate;  
and  

(b) At least one year of post-full registration clinical experience approved by the Senate.  

(2) Other requirements  

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and  

(b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.  

3. Duration of Study  

(1) The minimum duration of study shall be four years.  
(2) The maximum duration of study shall be seven years.  

4. Structure of Programme  

(1) The programme of study comprises three stages as follows:  

(a) Stage I, in the first year of study comprising:  

(i) clinical training in basic attitudes;  
(ii) training in clinical skills and management in psychiatry;  
(iii) training in basic sciences relevant to psychiatry and training in psychiatric management and  
(iv) preparation of two case protocols in general psychiatry.  

(b) Stage II, in the second and third year of study comprising:  

(i) training in clinical psychiatry and rotational postings in psychiatric subspecialties;  
(ii) preparation of case protocols for the number of cases which shall be determined by the department from time to time.  

(c) Stage III, in the forth year of study comprising advanced training in psychiatry and completion of research project
(2) No candidate shall be permitted to proceed to Stage II of the programme study unless he has passed the Part I Examination.

(3) No candidate shall be permitted to proceed to Stage III of the programme study unless he has passed the Part II Examination.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study –

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) a candidate who has been absent for a period exceeding forty-two days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study. The research proposal shall be submitted to the ethics committee not later than four months before the Part II Examination.

9. Submission

(1) A candidate is required to submit two case protocols for Stage I of the programme of study not later than three months before the Part I Examination.

(2) A candidate is required to submit case protocols for Stage II of the programme study not later than three months before the Part II Examination.

(3) A candidate is required to submit a research report not later than three months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination
(b) the Part II Examination
(c) the Final Examination
(2) No candidate shall be permitted to sit for the Part I Examination unless he has satisfactorily completed and submitted case protocols for Stage I of the programme not later than three months before the Part I Examination.

(3) No candidate shall be permitted to sit for the Part II Examination unless he has:

(a) passed the Part I Examination; and
(b) satisfactorily completed and submitted case protocols for Stage II not later than three months before the Part II Examination and obtained 50% or more of the average marks of these case protocols.

(4) No candidate shall be permitted to sit for the Final Examination unless he has:

(a) passed the Part II Examination; and
(b) satisfactorily completed and submitted research report not later than three months before the Final Examination.

(5) The Part I examination shall be held at the end of the first year of the programme study. The Part II examination shall be held at the end of the third year of the programme study and the Final examination shall be held at the end of the fourth year of the programme study.

(6) The written component For Part I & II examination will be held before the clinical examination. Those who fail the written component will not be allowed to take the clinical examination.

(7) Examination Components and Allocation of Marks:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MNGC6101</td>
<td>Paper 1</td>
<td>Multiple Choice Questions 40</td>
</tr>
<tr>
<td>MNGC6102</td>
<td>Paper 2</td>
<td>Multiple Choice Questions 60</td>
</tr>
<tr>
<td>MNGC6103</td>
<td>Paper 3</td>
<td>Short Essay Questions 100</td>
</tr>
<tr>
<td>B. Clinical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MNGC6111</td>
<td>Short Case</td>
<td>Psychiatry 100</td>
</tr>
</tbody>
</table>

Grand Total 300

(b) Part II Examination

The components of the Part II Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MNGC6236</td>
<td>Paper 1</td>
<td>Essay Questions and Critical Review Paper 100</td>
</tr>
<tr>
<td>MNGC6237</td>
<td>Paper 2</td>
<td>Short Notes Questions 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 200</td>
</tr>
<tr>
<td>B. Clinical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MNGC6244</td>
<td>Long Case</td>
<td>Psychiatry 100</td>
</tr>
<tr>
<td>MNGC6245</td>
<td>Short Case</td>
<td>Psychiatry 50</td>
</tr>
<tr>
<td>MNGC6246</td>
<td>Short Case</td>
<td>Medicine/Neurology 50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total 200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grand Total 400</td>
</tr>
</tbody>
</table>
(c) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

(i) MNGC6261 Research report 70
MNGC6250 Dissertation Viva 30
Total 100

OR If the candidate’s research work has been accepted for publication in an indexed scientific journal (at least SCOPUS) he/she shall be exempted from submission of research report and dissertation viva 100.

(ii) MNGC624 Consultation Viva 100

Grand Total 200

(8) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

(ii) 50% or more of the written component
(iii) 50% or more of the average marks from the clinical component; and
(iv) not less than 45% of the marks in any of the clinical case of the clinical component.

(b) Part II Examination

(i) 50% or more of the written component
(ii) 50% or more of the clinical long case Psychiatry
(iii) 50% or more of the average marks from the clinical short cases: and
(iv) not less than 45% of the marks in any of the clinical shortcases

(c) Final Examination

50% or more of the marks in all component of the examination.

(9) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination. However if a candidate had achieved at least 50% (100/200) of the total marks of the “Written” component during the prior examination, he/she shall be exempted from sitting for the written component during the Re-examination.

(iii) A candidate who has passed written component but fail clinical component may be permitted a re-examination of clinical component only.
(iv) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed the Part II Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part II Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part II Examination.

(iii) A candidate who has passed written components but fail clinical component may be permitted a re-examination of clinical component only.

(c) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Final Re-Examination shall consist of only the failed component(s) and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(e) A candidate who has passed the re-examination for the Examinations above shall be deemed to have passed the prescribed Examinations.

(10) Supervisory Report

In the event that a candidate get an unsatisfactory report, the Department concerned may set up a special committee to deliberate and recommend the candidate to be terminated from the course, to repeat the year, to defer for 6 months or to be permitted for sitting in the examination.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Psychological Medicine unless he has successfully completed all parts of the course, fulfilled the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination, the Part II Examination or the Final Examination if he –

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree with Distinction if he –
(a) has passed with Distinction in the Part I Examination, Part II Examination and Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

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**Master of Psychological Medicine**

**Programme Schedule**

<table>
<thead>
<tr>
<th>STAGE</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
</table>
| STAGE I | Year 1 | ▪ Clinical training in basic attitudes  
▪ Training in clinical skills and management in psychiatry  
▪ Training in basic sciences relevant to psychiatry and training in psychiatric management  
▪ Preparation of two cases protocols in general psychiatry |  |  |  |
| STAGE II | Year 2 | ▪ Preparation of case protocols for the number of cases which shall be determined by the department from time to time | ▪ Training in clinical psychiatry and rotational postings in psychiatric sub-specialties |  |  |
| STAGE III | Year 3 |  | ▪ Advanced training in psychiatry and completion of research project |  |  |
|  | Year 4 |  |  | ▪ Final Examination  
Part II Examination  
Part I Examination  
Registration (Entrance Evaluation) |
1. **Classification of Programme**

The Master of Public Health programme is a coursework programme in which the credit hours for the research component comprises less than thirty (30) percent of the whole programme of study. After completion of the relevant programme of study specified in this Schedule, a candidate shall be eligible for the award of the Master of Public Health degree.

2. **Entry Requirements**

   (1) Entry qualifications

   (a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and

   (b) At least one year of post-registration general medical experience approved by the Senate; or

   (c) The degree of Bachelor of Dental Surgery of the University;

   (d) The degrees of Bachelor of Allied Health from University;

   (e) A Bachelor's degree of the University with at least a second class honours in a relevant discipline; or

   (f) An equivalent qualification approved by the Senate; And

   (g) At least one year of relevant work experience in clinical or health

   (2) Other requirements

   For Foreign students:

   a) Minimum TOEFL score of 600 (paper based), or 250 (computer based), or 100 (internet based) or IELTS band 6; or

   b) Satisfies the Department in the Faculty responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. **Duration of Study**

   (1) The minimum duration of study shall be two (2) semesters and one (1) special semester

   (2) The maximum duration of study shall be eight (8) semesters.

4. **Structure of Programme**

   (1) The Master of Public Health programme comprises forty two (42) credit hours namely:

   (a) Seven (7) core courses each of three (3) credit hours, totalling twenty-one (21) credit hours;
(b) One (1) core course that leads to one (1) Research Project of nine (9) credit hours;

(c) six (6) elective courses each of two (2) credit hours, totalling twelve (12) credit hours.

(2) Details of the courses offered are as approved by Senate from time to time on the recommendation of the Faculty and candidates shall be informed of such details at the beginning of each session.

(3) The list of courses for the programme of Master of Public Health is provided in List 1 & List 2.

5. Registration

(1) Registration for the courses of study shall commence the week prior to the start of the relevant semester.

(2) A candidate is required to register for at least three (3) credit hours in any semester except where the candidate has been permitted to withdraw from the semester concerned.

6. Attendance

During his programme of study a student may be permitted to undertake part of his training in other institutions or agencies recognised by the Faculty.

7. Supervision

(1) The Faculty shall appoint at least one supervisor for each candidate not later than two months after the registration of the candidate.

(2) The co-supervisor and/or consultant shall be appointed when required.

(3) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The title of the Research Project for a candidate shall be determined by the Department responsible for the candidate's programme of study not later than two months prior to the commencement of the research project.

9. Submission

A candidate is required to submit his research papers not later than one month before the end of the relevant semester for examination.

10. Examinations for the Degree

The Examination leading to the degree of Master of Public Health shall consist of an examination or examinations in each of the courses prescribed for the Master of Public Health degree programme as follows:

(1) seven (7) core courses each of three (3) credit hours, totalling twenty-one (21) credit hours;

(2) One (1) core course that leads to one (1) Research Project of nine (9) credit hours;
(3) six (6) elective courses each of two (2) credit hours, totalling twelve (12) credit hours;

(4) Examination Components and Allocation of Marks

(a) Taught Courses
The components of the taught courses and the marks to be allocated to the components of the courses prescribed for the Examination shall be:

<table>
<thead>
<tr>
<th>Component</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) Continuous Assessment</td>
<td>50-100%</td>
</tr>
<tr>
<td>(ii) End of Semester Examination</td>
<td>0-50%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

(b) Research Papers
The marks allocated to the components of the research papers shall be 100% on submission of the written report.

(c) The Senate may on the recommendation of the Faculty amend the allocation of marks for the components of a course for the Examination.

(6) Course Grade Requirements

Course grades are subjected to regulations prescribed in the University of Malaya (Master’s Degree) Rules 2014 and University of Malaya (Master’s Degree) Regulations 2014.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Public Health unless he has completed all parts of the course and has passed the prescribed Examinations.

List 1: Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQB7001</td>
<td>Research Method</td>
<td>3</td>
</tr>
<tr>
<td>MQB7002</td>
<td>Research Project</td>
<td>9</td>
</tr>
<tr>
<td>MQB7003</td>
<td>Principles of Family Health</td>
<td>3</td>
</tr>
<tr>
<td>MQB7004</td>
<td>Society, Behaviour and Health</td>
<td>3</td>
</tr>
<tr>
<td>MQB7005</td>
<td>Principles and Methods of Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>MQB7006</td>
<td>Principles of Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>MQB7029</td>
<td>Principles of Management in Health</td>
<td>3</td>
</tr>
<tr>
<td>MQB7034</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

List 2: Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MQB7010</td>
<td>Epidemiology of Diseases in Malaysia</td>
<td>2</td>
</tr>
<tr>
<td>MQB7012</td>
<td>Producing Better Evidence</td>
<td>2</td>
</tr>
<tr>
<td>MQB7014</td>
<td>Health Economics</td>
<td>2</td>
</tr>
<tr>
<td>MQB7015</td>
<td>Law and Health</td>
<td>2</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credit</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>MQB7016</td>
<td>Women, Child and Adolescent Health</td>
<td>2</td>
</tr>
<tr>
<td>MQB7026</td>
<td>Public Health Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>MQB7027</td>
<td>Qualitative Inquiry in Public Health</td>
<td>2</td>
</tr>
<tr>
<td>MQB7028</td>
<td>Health Risk Assessment</td>
<td>2</td>
</tr>
<tr>
<td>MQB7030</td>
<td>Comparative Health System</td>
<td>2</td>
</tr>
<tr>
<td>MQB7031</td>
<td>Global Health</td>
<td>2</td>
</tr>
<tr>
<td>MQB7032</td>
<td>Primary Health Care</td>
<td>2</td>
</tr>
<tr>
<td>MQB7033</td>
<td>Social Determinants of Health</td>
<td>2</td>
</tr>
<tr>
<td>MQB7035</td>
<td>Occupational Health</td>
<td>2</td>
</tr>
<tr>
<td>MQB7036</td>
<td>Occupational Medicine</td>
<td>2</td>
</tr>
<tr>
<td>MQB7037</td>
<td>Medical Surveillance and Fitness for Work</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL: 12 credit hours

MQB7001
Research Method (3 Credits)

Learning Outcomes
1. Formulating a good research questions.
2. Choose the design and research methods appropriate to the research question is formulated.
3. Evaluate critically various epidemiologic studies the basic study design.

Synopsis
This course introduces candidates to the critical appraisal. Journal readings and exercises in journal critiques are used to illustrate methodological issues in epidemiological studies. This course also introduces the candidate to the basic principles of research methods. The course takes the candidate through the steps of the research process and provides the candidate a hands-on experience to write critique on an article and a research proposal.

Main Reference

Assessment Methods
Continuous Assessment: Oral presentation (15%), Report submission (group) (15%), Submission of journal article critique – Individual (70%)

MQB7002
Research Project (9 Credit)

Learning Outcomes
1. Conduct all steps of research process
2. Develop a research proposal
3. Collect data
4. Manage and analyse data
5. Write up the report

Synopsis
The course takes the candidate through the steps of research process and provides the candidate a hands-on experience to develop a research project, carry out the research and write up the report.

Main Reference

Assessment Methods
Continuous Assessment:100%

MQB7003
Principles of Family Health (3 Credits)

Learning Outcomes
1. Describe the Family Health concepts and principles in the promotion of health in the population.
2. Illustrate in depth, methods of assessing the population health status in the community using various health statistics.
3. Solve the problems faced by population subgroups e.g. women, children, adolescents, disabled and elderly; and the recommended strategies needed.

Synopsis
This course is an introduction to the principles of Family Health. The course will cover basic programmes of reproductive health such as safe motherhood and high-risk approach in MCH care. It will also include child survival and development strategies and common conditions seen in mothers and children. Nutrition topics and wellness promotion programmes will also be covered.

Main Reference
6) Lawrence S.Neinstein. 2007. Adolescent health care : a practical guide (5th eds). Lippincott Williams & Wilkins

Assessment Methods
Continuous assessment (seminar presentation) : 50%
Final Examination : 50%
MQB7004
Society, Behaviour and Health (3 Credits)

Learning Outcomes
1. Describe the influences of society and behaviour on health.
2. Illustrate models of health behaviour of individuals and community.
3. Solve problem related to society, behaviour and health

Synopsis
This course will discuss the influence of behaviour, cultural and social class on health and illness. Issues of socialization, social control, deviance and stigma will also be covered. Models of health behaviour in the individual and community levels will be covered. The planning, managing and research on health promotion programs will also be discussed.

Main Reference

Assessment Methods
Continuous assessment (seminar presentation): 50%
Final Examination : 50%

MQB7005
Principles and Methods of Epidemiology (3 Credit)

Learning Outcomes
At the end of this course, the candidate is able to:

1. Apply the epidemiological concepts to explain disease occurrence and transmission
2. Apply the principles of prevention and control to manage health problems
3. Demonstrate ability to calculate population statistics and measures of association

Synopsis
This course introduces candidates to the principles and methods of epidemiology which will form the basis to other courses in epidemiology. This course also demonstrates the applications of epidemiologic principles and methods

Main Reference

Assessment Methods
Continuous assessment (Tests: 50%)
Final examination (50%)

MQB7006
Principles of Biostatistics (3 credits)

Learning Outcomes
1. Describe principles of Biostatistics.
2. Apply the appropriate statistical techniques in problem solving.
3. Solve the problems of biostatistics in the issues by applying the basic concepts.

Synopsis
This will cover basic statistical techniques that are important for analyzing data arising from public health research. Major topics include descriptive statistics, elements of probability, introduction to estimation and hypothesis testing, nonparametric methods, analytical techniques for categorical data, regression analysis, analysis of variance, and elements of study design. The concept and applications of statistical methods are stressed. At the end of the module, the candidate will also have the knowledge of the need for non-parametric statistical techniques as alternatives to parametric methods; acquired skills in their practical implementation and have an understanding of the underlying theory.

Main References

Assessment Methods
Continuous Assessment 60%
Final examination: 40%

MQB7029
Principles of Management in Health (3 Credits)

Learning Outcomes
1. Apply the concepts on management functions and principles and able to utilise their application in any healthcare programmes.
2. Review current health management practise based on individual and group experiences.

3. Able to solve problem regarding current health management practise based on individual and group experiences.

**Synopsis**
This course is designed to expose the student the basic principles of Management and its application to the Health Services delivery. It will also expose issues in management as applicable to Primary Health Care and Hospitals.

**Main Reference**

**Assessment Methods**
Continuous Assessment 50%
Final examination: 50%

MQB7034
**Environmental Health (3 Credits)**

**Learning Outcomes**

At the end of the course, the candidate is able to:
1. Describe environmental health issues
2. Relate environmental health issues to individual and public health
3. Solve basic environmental health issues.

**Synopsis**
This course is an overview of the environmental health issues in the local and global perspective, addressing the current and future issues. The course covers core topics that prepare students to understand and address environmental health issues; air pollution; water pollution; housing environments and health impact assessment.

**Main Reference**

**Assessment Methods**
Continuous Assessment 50%
ELECTIVE COURSES

MQB7010
Epidemiology of Diseases in Malaysia (2 Credits)

Learning Outcomes
1. Describe the characteristics of communicable (CDs) and non-communicable diseases (NCDs) diseases.
2. Illustrate a network factors that contribute to the emergence of NCDs and re-emergence of CDs.
3. Solve problem in term of prevention and control measures for CDs and NCDs.

Synopsis
This course provides a broad introduction to the epidemiology, prevention and control of the major communicable (including emerging and re-emerging) diseases. Other emphasis is epidemiology of major non-communicable diseases and their methods of prevention and control.

Main Reference

Assessment Methods
Continuous Assessment: 50%
Final examination: 50%

MQB7012
Producing Better Evidence (2 Credits)

Learning Outcomes
1. Describe method to produce scientific evidence
2. Illustrate method to produce scientific evidence
3. Solve problems using the scientific method "Systemic review/meta-analysis"

Synopsis
Introduction to performing systematic search and critically appraising the literature / evidence. Systematic reviews and meta-analyses produce the highest hierarchy of evidence should be used to inform clinical decision-making and health care policy. The principles of meta-analytic statistical methods are reviewed, and the application of these to data sets is explored. Application of methods includes considerations for clinical trials and observational studies. The use of meta-analysis to explore data and identify sources of variation among studies is emphasized, as is the use of meta-analysis to identify future research questions.

Main Reference

Assessment Methods
Continuous Assessment 50%
Final Examination: 50%

MQB7014
Health Economics (2 Credits)

Learning Outcomes
1. Describe the economic concepts to the evaluation of performance of a health care system
2. Illustrate appropriate economic evaluation tool to be applied to different problems of resource allocation, management, evaluation and planning in health services.
3. Solve the problem related strengths and weaknesses of different health financing mechanisms and different provider payment methods

Synopsis
This course is designed to introduce students to the aims, concepts, theories and methods of economic analysis as well as to give an appreciation of how these methods are being applied to problems of resource allocation, management, evaluation and planning in health services.

Main Reference

Assessment Methods
Continuous assessment : 50%
Final examination: 50%

MQB7015
Law and Health (2 Credits)

Learning Outcomes
1. Describe the principle of medical ethics, Malaysian federal system & health governance.
2. Apply the concept of medical ethics in Doctor-Patient relationship.
3. Apply the public health laws in implementing health care programme

Synopsis
This course is designed to provide the candidate with the basic knowledge of legal issues related to medical and public health practice. It will introduce the working of a legal system in a country and explore current issues in medical ethics, Doctor – Patient relationship and Public Health Law.

Main References

Assessment Methods
Continuous assessment (seminar): 50%,
Final Examination: 50%

MQB7016
Women, Child and Adolescent Health (2 Credits)

Learning Outcomes
1. Identify the leading public health issues that are facing men, women, child and adolescents
2. Elaborate the factors affecting men, women, child, and adolescent health.
3. Apply the concepts and principles of family health in the management of public health issues facing men, women, child and adolescents

Synopsis
This course provides an introduction to the principles of women, child and adolescent's health. The course will include the women’s reproductive health, chronic conditions among women as well as infertility and contraception. The children’s growth and development, immunization and breast-feeding and the common diseases of the children will be covered. High risk behaviour and counselling of children and adolescents will be discussed.

Main Reference

Assessment Methods
Continuous assessment (seminar presentation): 50%
Final Examination: 50%
MQB7026
Public Health Nutrition (2 Credits)

Learning Outcomes
1. Evaluate methods of nutritional assessment for all age groups.
2. Analyse the importance of nutrition in health promotion and disease prevention.
3. Propose appropriate strategies to improve community nutrition programs in the country you serve.

Synopsis
The course will focus on the nutrition related problems throughout the life cycle, various methods of nutritional assessments, public health nutrition approach in health promotion and primary prevention of diseases as well as community programs in nutrition carried out in the country. Current nutritional issues affecting health will also be discussed.

Main Reference

Assessment Methods
Continuous assessment: 50%
Final Examination: 50%

MQB7027
Qualitative Inquiry in Public Health (2 Credits)

Learning Outcomes
1. Practice of qualitative research and produce a qualitative research proposal
2. Perform qualitative interview and data analysis.
3. Critically appraise of qualitative research in the literature

Synopsis
This unit is mainly concerned with the development of capacities and skills in using a range of qualitative research techniques in public health. It is expected that the students will be familiar with the theoretical foundations of qualitative research and common methods of data collection, sampling techniques, validity, ethical issues, and data analysis. The unit also seeks to enhance students’ knowledge and skills to critically assess qualitative research by the end of the course.

Main Reference
Assessment Methods
Continuous assessment: 100%

MQB 7028
Health Risk Assessment (2 Credits)

Learning Outcomes
1. Analyse the adverse effects of chemical, physical, biological, ergonomics and psychosocial hazards;
2. Evaluate the adverse effect of hazards to individual health and public health;
3. Conduct basic health risk assessment
4. Communicate health risk to specific audience.

Synopsis
The course focus on the three component of health risk assessment; which is risk assessment, risk management and risk communication. It will include overview on methods and modalities for qualitative and quantitative risk assessment in the workplace. The courses will stress on the assessment of health risk related to exposure to chemicals, physical, biological, ergonomics and psychosocial hazards.

Main Reference

Assessment Methods
Continuous assessment: Assignment 1 (10% - 30%), Assingment 2 (30% - 60%), Quiz/test (10% - 30%)
Seminar / Presentation (10% - 30%)

MQB7030
Comparative Health System (2 credits)

Learning Outcomes
1. Describe the framework, actors and services of different health system
2. Identify the challenges of health care delivery to achieve universal coverage
3. Evaluation of different component of health system

Main references:
1. Comparative Health System: Global Perpectives; James A. Johnson; Carleen Stoskopf; Wiley 2011.
2. Global Health System: Comparing Strategies for Delivering Health Services; Margie Lovett-Scott and Faith Prather; Michael Brown Publisher; 2012.
Synopsis
This course provides the knowledge and assessment of health system

Assessment Methods
Continuous Assessment: 100%

MQB7031
Global Health (2 credits)

Learning Outcomes
1. Describe the concepts and theoretical perspectives in global health
2. Illustrate the governance of global health including the key institutions involved
3. Solve the problem about understanding of concepts, theory and governance to analysis of current and emerging issues in global health

Main references
1. Global Health 101 (Essentials Public Health); Richard Skolnik; Jones and Bartlett, USA; 2015
2. Comparative Health System: Global Perpectives; James A. Johnson; Carleen Stoskopf; Wiley 2011.
3. Global Health Care: Issues and Policies (Holtz, Global Health Care); Carol Holtz, 2012
4. Introduction to Global Health; Kathryn H. Jacobsen; Jones and Bartlett, USA; 2013

Synopsis
This course is designed to increase student understanding of current and emerging transnational issues in population health through application of concepts and theories and through an understanding of governing structure of global health. Topics include health impact of global climate changes, trade liberalisations and increased population mobility.

Assessment Methods
Continuous Assessment (seminars and written assignments): 100%

MQB7032 Primary Health Care
(2 credits)

Learning Outcomes
1. Describe the principles and practice of
2. Apply the participatory approach of delivering PHC services in line with the concept of Universal Health Coverage (UHC).
3. Demonstrate the integration of health care services within the concept of PHC.

Main references:
1. Advanced Health Assessment & Clinical Diagnosis in Primary Care; Joyce E. Dains; Linda Ciofu Baumann; Elsevier Publication, 5th Edition; 2015.
2. Current Practise Guidelines in Primary Care; Joseph S. Esherick, Daniel S. Clark, Lange, 2015

Synopsis
This course is designed to expose the students the basic principles of the delivery of health services to the disadvantaged community. It will also expose issues in community empowerment and the development of partnering relationships between the communities and the providers of care.
Assessment Methods
Continuous assessment: 100%

MQB7033 Social Determinants of Health (2 credits)

Learning Outcomes
1. Examine pathways through which social determinants operate in different population groups.
2. Apply the major conceptual and measurement issues in conducting research into the effects of key social factors on individual, community and population health.
3. Determine policy responses and interventions to promote health or reduce health inequalities through structural interventions.

Main references:
1. Social Determinants of Health: A Comparative Approach; Alan Davidson; Oxford University Press; 2015

Synopsis
Social epidemiology is the study of the distribution of health outcomes and their social determinants that contribute to or detract from the health of individuals and communities. This course will provide an overview of the major conceptual and measurement issues in conducting research into the effects of key social factors on individual, community and population health and examine pathways through which social determinants operate at different stages of the life course and in different population groups. Policy responses and interventions to promote health or reduce health inequality will also be introduced. The course also includes developing an understanding of a research methods used in social epidemiology.

Assessment Methods
Continuous assessment: 100%

MQB7035 Occupational Health (2 credits)

Learning Outcomes
1. Identify occupational health issues
2. Relate occupational health issues to workers, workplace and community
3. Conduct basic workplace assessment
4. Solve basic occupational health issues

Main references:

Synopsis
This course is an overview of the occupational health issues in the local and global perspective. The course covers core topics that prepare students to understand and address occupational health issues; toxicology; exposure assessment; risk assessment, occupational disease and disability, accident and safety at work

Assessment Methods
Continuous Assessment: 50%
Final examination: 50%

MQB7036 Occupational Medicine (2 Credits)

Learning Outcomes
1. Describe diseases related to work
2. Diagnose work related diseases
3. Manage work related diseases as a Public Health Specialist

Main references:

Synopsis
This course will provide the student with the basic to intermediate knowledge of diseases related to workplace exposure, diagnosis and management of work aggravated and occupational diseases, and an introduction to the principle of occupational toxicology. It will also cover the principle of methods and modalities used in the establishment of those diseases in the workplace and community.

Assessment Methods
Continuous Assessment: 100%
MQB7037 Medical Surveillance and Fitness for Work (2 credits)

Learning Outcomes
1. Identify the appropriate tests used in medical surveillance
2. Analyse and draw conclusions from the medical surveillance results
3. Conduct fitness for work evaluation
4. Propose appropriate workplace recommendations based on medical surveillance results and evaluate fitness for work

Synopsis
This course is complementary to the OM course. The course focuses on the use of clinical diagnostic methods and equipment to access the effect from exposure to occupational hazards. It will also include fitness for work assessment and issues related to rehabilitation and return to work.

Main Reference

Assessment Methods
Continuous Assessment: 100%)

<table>
<thead>
<tr>
<th>Master of Public Health Programme Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 2</td>
</tr>
<tr>
<td>• Seven core courses each of three credit hours, totalling twenty one (21) credit hours;</td>
</tr>
<tr>
<td>• One core course that leads to a Research Project of nine (9) credit hours;</td>
</tr>
<tr>
<td>• Six elective courses each of two credit hours, totalling twelve (12) credit hours.</td>
</tr>
<tr>
<td>Semester 1</td>
</tr>
<tr>
<td>Examination</td>
</tr>
<tr>
<td>End of Semester 1</td>
</tr>
<tr>
<td>End of Semester 2</td>
</tr>
<tr>
<td>Registration</td>
</tr>
<tr>
<td>(Admission Evaluation)</td>
</tr>
</tbody>
</table>
1. **Classification of Programme**

   The Master of Radiology programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. **Entry Requirements**

   (1) **Entry qualifications**
   
   (a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and
   
   (b) At least one year of post-full registration clinical experience approved by the Senate.

   (2) **Other requirements**
   
   (a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and
   
   (b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. **Duration of Study**

   (1) The minimum duration of study shall be four years.
   
   (2) The maximum duration of study shall be seven years.

4. **Structure of Programme**

   The programme of study comprises three stages as follows:

   (1) **Stage I** in the first year of study comprising:
   
      (a) basic training in Radiological Medical Physics, Radiological Anatomy and Radiography, Radiological Technique, Contrast Media and Drugs, Basic Trauma Radiology and any other disciplines of Radiology that may be determined by the Department from time to time;
   
      (b) training in cognate subjects of radiology that may be determined by the department from time to time; and
   
      (c) the keeping of a log book by the candidate to document radiological procedures performed by him.

   (2) **Stage II** in the second and third year of study comprising:
   
      (a) training in all aspects of diagnostic radiology, imaging techniques and interventional radiology;
(b) training in cognate subjects as may be determined by the Department from time to time;

(c) the keeping of a log book by the candidate to document radiological procedures performed by him; and

(d) the commencement of a research project.

(3) Stage III in the fourth year of study comprising:

(a) advanced training in all aspects of diagnostic radiology, imaging techniques and interventional radiology;

(b) advanced training in cognate subjects as may be determined by the Department from time to time;

(c) case studies; and

(d) a research project.

5. **Registration**

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of the programme of study if he possesses qualification an equivalent to Part I Master of Radiology recommended by Faculty and acceptable to the Senate.

6. **Attendance**

During his programme of study -

(1) A candidate may be permitted to undertake part or all of his training in other hospitals or centres recognised by the Faculty;

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. **Supervision**

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part or all of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. **Title of Research**

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. **Submission**
(1) A candidate is required to submit a log book of radiological procedures performed, certified by his supervisor for the respective period of study one month before the Part I Examination.

(2) A candidate is required to submit a log book consisting of special radiological procedures observed and performed, certified by his supervisor for the respective period of study two months before the Part II Examination.

(3) A candidate is required to submit a research report and a case studies report for the respective period of study three months before the Final Examination.

10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination;
(b) the Part II Examination; and
(c) the Final Examination

(2) No candidate shall be permitted to sit for the Part I Examination unless he has submitted a log book of radiological procedures performed, certified by his supervisor for the respective period of study one month before the Part I examination.

(3) No candidate shall be permitted to sit for the Part II Examination unless he has -

(a) submitted a log book of special radiological procedures, observed and performed, certified by his supervisor for the respective period of study one month before the Part II Examination; and

(b) passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he possesses qualification an equivalent to Part I Master of Radiology recommended by Faculty and acceptable to the Senate.

(4) No candidate shall be permitted to sit for the Final Examination, unless he has -

(a) passed the Part II Examination; and

(b) submitted the case studies report and the research report three months before the Final Examination;

(5) The Part I Examination shall be held at the end of Stage I of the programme of study. The Part II Examination shall be held at the end of stage II of the programme of study. The Final Examination shall be held at the end of stage III of the programme of study.

(6) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. MQGN6102</td>
<td>MCQ Multiple Choice Questions Paper</td>
<td>100</td>
</tr>
<tr>
<td>B. MQGN6121</td>
<td>Vica Voce</td>
<td>100</td>
</tr>
<tr>
<td>C. MQGN6126</td>
<td>OSCE Objective Structured Clinical Examination</td>
<td>100</td>
</tr>
</tbody>
</table>
D. MQGN6127 OSPE Objective Structured Practical Examination

Total 400

(b) Part II Examination

The components of the Part II Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MQGN6236 Paper 1 SBA</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>MQGN6237 Paper 2 SBA</td>
<td>100</td>
</tr>
<tr>
<td>B. MQGN6266 Film Reporting</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>C. MQGN6250 Viva Voce</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>400</td>
</tr>
</tbody>
</table>

(c) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. MQGN6371 Case Studies Report</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>B. MQGN6372 Research report</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>C. MQGN6374 Viva Voce</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>D. MQGN6373 Rapid Film reporting</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>400</td>
</tr>
</tbody>
</table>

(7) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

50% or more of the marks for each component of the Examination.

A candidate who does not fulfill the above requirement for a component shall be deemed to have failed the component concerned but shall be credited with the component or components he has passed and be required to repeat only the component that he has failed.

(b) Part II Examination

60% or more of the marks of component A.
50% or more of the marks for components B, C of the Examination

A candidate who does not fulfill the above requirement for a component shall be deemed to have failed the component concerned but shall be credited with the component or components he has passed and be required to repeat only the component that he has failed.

(c) Final Examination

50% or more of the marks for each component of the Examination.
A candidate who does not fulfill the above requirement for a component shall be deemed to have failed the component concerned but shall be credited with the component or components he has passed and be required to repeat only the component that he has failed.

(8) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part I Re-Examination shall consist of the same component and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who has passed one or more of the component of the Part I Examination shall be deemed to have passed those component and shall not be required to repeat those component.

(iv) A candidate shall be required to repeat those component that he has failed in the Part I Examination.

(v) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances and on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Part II Re-Examination

(i) A candidate who has failed the Part II Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Part II Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part II Examination.

(iii) A candidate who has passed one or more of the components of the Part II Examination shall be deemed to have passed those components and shall not be required to repeat those components.

(iv) A candidate shall be required to repeat those components that he has failed in the Part II Examination.

(v) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part II Examination and shall not be permitted to repeat the programme of study except in special circumstances and on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six monthly intervals.

(ii) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.
(iii) A candidate who has passed one or more of the components of the Final Examination shall be deemed to have passed those components and shall not be required to repeat those components.

(iv) A candidate shall be required to repeat those components that he has failed in the Final Examination.

(v) A candidate whose research report and/or case studies report is deemed unsatisfactory by the Committee of Examiners may be referred for further work over a period of time to be determined by the Committee of Examiners except that such periods of time as determined shall not exceed six months on any one occasion. At the end of the prescribed period the candidate shall be required to submit the research report and/or case studies report for re-examination. A candidate who fails to submit his research report and/or case studies report by the end of the prescribed period for re-examination shall be deemed to have failed the research report and/or the case studies report.

(vi) A candidate shall be permitted to resubmit the research report and/or case studies report for re-examination either singly or jointly on not more than two occasions.

(vii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

11. **Award of Degree**

No candidate shall be recommended for the award of the Degree of Master of Radiology unless he has successfully completed all parts of the course, fulfilled the minimum duration of study and has passed the prescribed Examinations and the Final Assessment.

(1) **Award of Pass with Distinction for the Examination**

A candidate may be awarded a Pass with Distinction in the Part I Examination, the Part II Examination or the Final Examination if he-

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examinations;

(b) has not failed in any module of the Part I Examination, or component of the Part II Examination or the Final Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) **Award of the Degree with Distinction**

A candidate may be awarded the degree of Master of Radiology with Distinction if he-

(a) has passed with Distinction in the Part II Examination and the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
## Master of Radiology Programme Schedule

<table>
<thead>
<tr>
<th>Stage</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Advanced training in all aspects of Diagnostic Radiology, Imaging Technique and Interventional Radiology</td>
</tr>
<tr>
<td>Stage I</td>
<td>Year 1</td>
<td></td>
<td></td>
<td>Training in all aspects of Diagnostic Radiology, Imaging Technique and Interventional Radiology</td>
</tr>
<tr>
<td>Stage II</td>
<td>Year 2</td>
<td></td>
<td></td>
<td>Basic training in Radiological Medical Physics, Radiological Anatomy and Radiography, Radiological Technique, Contrast Media and Drugs, Basic Trauma Radiology and any other disciplines of Radiology.</td>
</tr>
<tr>
<td>Stage III</td>
<td></td>
<td></td>
<td></td>
<td>Final Examination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Part II Examination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Part I Examination</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Registration (Entrance Evaluation)</td>
</tr>
</tbody>
</table>
Name of Programme : Master of Rehabilitation Medicine  
Faculty : Faculty of Medicine  

1. Classification of Programme  

The Master of Rehabilitation Medicine programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements  

(1) Entry qualifications  

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and  

(b) At least two years of post-full registration clinical experience approved by the Senate of which at least one year is spent in in-patient care.

(2) Other requirements  

(a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and  

(b) Satisfies the Department responsible for the candidate's programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study  

(1) The minimum duration of study shall be four years.  

(2) The maximum duration of study shall be seven years.

4. Structure of Programme  

The programme of study comprises two stages as follows:  

(1) Stage I in the first year of study covering:  

(a) Basic and Applied Sciences of Rehabilitation Medicine;  

(b) Principles, Concepts and Practice of Rehabilitation Medicine;  

(c) Rotational postings in disciplines related to Rehabilitation Medicine;  

(d) The keeping of a log book by the candidate to document tasks undertaken  

(e) Continuous assessments as prescribed by the Department

(2) Stage II of study covering:  

(a) Rotational postings in specialised Rehabilitation Medicine disciplines and disciplines related to Rehabilitation Medicine;  

(b) research report;  

(c) assignments;  

(d) the keeping of a log book by the candidate to document tasks undertaken; and
(e) continuous assessments as prescribed by the Department.

(3) No candidate shall be permitted to proceed to Stage II of the programme of study unless he has passed or been exempted from the Part I Examination.

5. **Registration**

(1) Registration for the programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of the programme of study if he has passed the Part I Examination for any one of the following degrees of the University or has obtained an equivalent qualification recognised by the Senate:

- Master of Internal Medicine
- Master of Family Medicine
- Master of Orthopaedic Surgery
- Master of Paediatrics
- Master of Surgery

6. **Attendance**

During his programme of study -

(1) A candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. **Supervision**

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate

(2) A consultant shall be appointed a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. **Title of Research**

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. **Submission**

(1) A candidate is required to submit his log book and assignments for the respective period of study not later than one month before the Part I Examination

(2) A candidate is required to submit his log book and assignments for the respective period of study not later than one month before the Final Examination

(2) A candidate is required to submit his research report not later than three months before the Final Examination.
10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination;
(b) the Final Examination.

(2) No candidate shall be permitted to sit for the Part I Examination unless he has –

(a) satisfactorily completed the continuous assessments prescribed by the Department; and

(b) submitted his log book and assignments deemed satisfactory by the Department not later than one month before the Part I Examination.

(3) No candidate shall be permitted to sit for the Final Examination unless he has –

(a) passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he has passed the Part I Examination for any one of the following degrees of the University or has obtained an equivalent qualification recognised by the Senate:

- Master of Internal Medicine
- Master of Family Medicine
- Master of Orthopaedic Surgery
- Master of Paediatrics
- Master of Surgery

(b) satisfactorily completed the components of the continuous assessments as specified by the Department;

(c) submitted his log book and assignments deemed satisfactory by the Department not later than one month before the Final Examination; and

(d) submitted a research report on an aspect of Rehabilitation Medicine not later than three months before the Final Examination. A candidate must obtain a pass grade in the research report before he is permitted to sit for the Final Examination.

(4) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGP6101</td>
<td>Paper 1 Multiple Choice Questions</td>
<td>150</td>
</tr>
<tr>
<td>MTGP6102</td>
<td>Paper 2 Short Answer Type Questions</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>300</td>
</tr>
<tr>
<td>B. Practical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGP6126</td>
<td>Paper 3 Objective Structural Practical</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>Examination</td>
<td></td>
</tr>
</tbody>
</table>

C. Clinical
MTGP6121 Clinical 500

Grand Total 1000

(b) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGP6236</td>
<td>Paper 1 Essay</td>
<td>100</td>
</tr>
<tr>
<td>MTGP6237</td>
<td>Paper 2 Short Answer Type Questions</td>
<td>100</td>
</tr>
<tr>
<td>MTGP6238</td>
<td>Paper 3 Multiple Choice Questions</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>300</td>
</tr>
<tr>
<td>B. Practical</td>
<td>Paper 4 Objective Structured Practical Examination</td>
<td>200</td>
</tr>
<tr>
<td>C. Clinical</td>
<td>Clinical</td>
<td>350</td>
</tr>
<tr>
<td>D. Viva Voce</td>
<td>Viva Voce</td>
<td>150</td>
</tr>
</tbody>
</table>

Grand Total 1000

(5) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

50% or more of the marks for each component.

The theory examination (Written and Practical) will be held before the Clinical Examination. Only candidates that passes the Theory Examination will be allowed to sit the Clinical Examination.

Theory Examination consist of two component which are:

(i) Component A (Written) : Paper MCQ and SAT
   (A) 50% or more of the total marks
   (B) Compulsory to pass

(ii) Component B (Practical) : Paper OSPE
    (A) 50% or more of the marks
    (B) Compulsory to pass

Clinical Examination is:

(i) Component C (Clinical): Short Case & Long Case
   (A) 50% or more of the total marks
   (B) Compulsory to pass all the clinical cases
A candidate who fails the clinical exam will not have to re-sit the theory examination before attempting the clinical examination again.

(b) Final Examination

50% or more of the marks for each component of the Final Examination.

The theory examination (Written and Practical) will be held before the Clinical Examination (Clinical and Viva Voce). Only candidates that passes the Theory Examination will be allowed to sit the Clinical Examination.

Theory Examination consist of two component which are:

(i) Component A (Written): Paper Essay, MCQ & SAT
   (A) 50% or more of the total marks
   (B) Pass 2 out of 3 of the papers

(ii) Component B (Practical): Paper OSPE
   (A) 50% or more of the marks
   (B) Compulsory to pass

Clinical Examination consist of two component which are:

(i) Component C (Clinical): Short Case & Long Case
   
   Short Case
   
   (A) 50% or more of the total marks
   (B) Pass 2 out of 3 of the cases

   Long Case
   
   (A) 50% or more of the total marks
   (B) Compulsory to pass

(ii) Component D (Viva Voce): 

   (A) 50% or more of the total marks
   (B) Compulsory to pass

A candidate who fails the clinical exam will not have to re-sit the theory examination before attempting the clinical examination again.

(6) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six months interval.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special
circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six months intervals.

(ii) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Rehabilitation Medicine unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he -

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Rehabilitation Medicine with Distinction if he –

(a) has passed with Distinction in the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
# Master of Rehabilitation Medicine

## Programme Schedule

| STAGE I | Year 1 (12 months) | (a) Basic and Applied Sciences of Rehabilitation Medicine.  
(b) Principles, Concepts and Practice of Rehabilitation Medicine.  
(c) Rotational postings in disciplines related to Rehabilitation Medicine.  
(d) The keeping of a log book by the candidate to document tasks undertaken.  
(e) Continuous assessments as prescribed by the Department. |
| STAGE II | Year 4  
Year 3  
Year 2 (36 months) | (a) Rotational postings in specialised Rehabilitation Medicine disciplines and disciplines related to Rehabilitation Medicine.  
(b) Research report.  
(c) Assignments.  
(d) The keeping of log book by the candidate to document tasks undertaken.  
(e) Continuous assessments as prescribed by the Department. |

## Final Examination

## Part I Examination

## Registration (Entrance Evaluation)
Name of Programme : Master of Sports Medicine
Faculty : Faculty of Medicine

1. Classification of Programme

The Master of Sports Medicine programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications
   (a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and
   (b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements
   (a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and
   (b) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.
(2) The maximum duration of study shall be seven years.

4. Structure of Programme

The programme of study comprises two stages as follows:

(1) Stage I in the first year of study comprising:
   (a) Basic Sciences related to Sports Medicine and any other clinical discipline in relation to Sports Medicine;
   (b) assignments;
   (c) The keeping of a log book by the candidate to document tasks undertaken; and
   (d) Continuous assessments as prescribed by the Department.

(2) Stage II in the second, third and fourth years of study comprising:
   (a) advanced training and clinical postings in areas related to Sports Medicine including an elective posting or postings of the candidate’s choice subject to the approval of the Department responsible for the candidate’s programme of study;
(b) advanced training in areas of Sports Medicine Management, Ethics and Special Population;

(c) assignments;

(d) the keeping of a log book by the candidate to document tasks undertaken;

(e) research report; and

(f) continuous assessments as prescribed by the Department.

5. Registration

(1) Registration for this programme of study shall commence the week prior to the start of the academic session.

(2) A candidate may be permitted to register directly for Stage II of the programme of study if he has passed the Part I Examination for any one of the following degrees of the University or has obtained an equivalent qualification recognised by the Senate -

- Master of Internal Medicine
- Master of Orthopaedic Surgery
- Master of Family Medicine
- Master of Rehabilitation Medicine
- Master of Paediatrics
- Master of Psychological Medicine
- Master of Surgery
- Master of Radiology

6. Attendance

During his programme of study -

(1) a candidate may be permitted to undertake part of his training in other hospitals or centres recognised by the Faculty;

(2) a candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The supervisor for a candidate shall be appointed not later than two months after the registration of the candidate.

(2) A consultant shall be appointed for a candidate who undertakes part of his training outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Title of Research

The research project for a candidate shall be determined by the Department responsible for the candidate’s programme of study not later than one month prior to the commencement of the research.

9. Submission
10. Examinations for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination;
(b) the Final Examination.

(2) No candidate shall be permitted to sit for the Part I Examination unless he has –

(a) satisfactorily completed the continuous assessments prescribed by the Department; and

(b) submitted his log book and assignments deemed satisfactory by the Department one month before the Part I Examination.

(3) No candidate shall be permitted to sit for the Final Examination unless he has –

(a) passed or been exempted from the Part I Examination. A candidate may be exempted from the Part I Examination if he has passed the Part I Examination for any one of the following degrees of the University or has obtained an equivalent qualification recognised by the Senate:

Master of Family Medicine
Master of Internal Medicine
Master of Orthopaedic Surgery
Master of Paediatrics
Master of Psychological Medicine
Master of Rehabilitation Medicine
Master of Surgery
Master of Radiology

(b) satisfactorily completed the components of the continuous assessments as specified by the Department

(c) submitted his supervisor appraisal reports from the rotational and elective posting, log book and assignments deemed satisfactory by the Department not later than two months before the Final Examination; and

(d) submitted a satisfactory published research paper or research report six months before the Final Examination.

(4) The Part I Examination shall be held at the end of the first year of the programme of study. The Final Examination shall be held at the end of the fourth year of the programme of study.

(5) Examination Components and Allocation of Marks

(a) Part I Examination
The components of the Part I Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
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</tr>
<tr>
<td>MTGO6104</td>
<td>One Best Answer</td>
<td>200</td>
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<tr>
<td></td>
<td>Total</td>
<td>200</td>
</tr>
<tr>
<td>B. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGO6105</td>
<td>Short answer Type Questions 1</td>
<td>100</td>
</tr>
<tr>
<td>MTGO6106</td>
<td>Short Answer Type Questions 2</td>
<td>100</td>
</tr>
<tr>
<td>Clinical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGO6107</td>
<td>Objective Structured Clinical Examination</td>
<td>200</td>
</tr>
<tr>
<td>MTGO6125</td>
<td>Short Cases</td>
<td>200</td>
</tr>
<tr>
<td>Viva Voce</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGO6121</td>
<td>Anatomy</td>
<td>50</td>
</tr>
<tr>
<td>MTGO6122</td>
<td>Physiology</td>
<td>50</td>
</tr>
<tr>
<td>MTGO6123</td>
<td>Pathology, Microbiology and Pharmacology</td>
<td>50</td>
</tr>
<tr>
<td>MTGO6124</td>
<td>Principles of Surgery and General Medicine</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>800</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>1000</td>
</tr>
</tbody>
</table>

(b) Final Examination

The components of the Final Examination and the marks to be allocated to each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGO6236</td>
<td>Essay Questions</td>
<td>100</td>
</tr>
<tr>
<td>MTGO6237</td>
<td>Short Answer Type Questions</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>300</td>
</tr>
<tr>
<td>B. Clinical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGO6243</td>
<td>Long Case</td>
<td>100</td>
</tr>
<tr>
<td>MTGO6244</td>
<td>Short Cases</td>
<td>200</td>
</tr>
<tr>
<td>MTGO6245</td>
<td>Objective Structured Clinical Examination</td>
<td>200</td>
</tr>
<tr>
<td>Viva Voce</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTGO6254</td>
<td>Clinical Sports Medicine</td>
<td>50</td>
</tr>
<tr>
<td>MTGO6255</td>
<td>Sports Rehabilitation</td>
<td>50</td>
</tr>
<tr>
<td>MTGO6256</td>
<td>Exercise Testing and Exercise Prescription</td>
<td>50</td>
</tr>
<tr>
<td>MTGO6257</td>
<td>Sports Emergency</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>700</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>1000</td>
</tr>
</tbody>
</table>

(6) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:
(a) Part I Examination

50% or more of the marks for each sub component of the Part I Examination.

Only candidates that passed the Component A examination, will be allowed to sit for the Component B examination.

(b) Final Examination

50 % or more of the marks for each sub component of the Final Examination.

Only candidates that passed the Component A examination, will be allowed to sit for the Component B examination.

For the clinical long case and short case examination, the passing criteria for this part is determined by the majority of the examiner’s votes and not by the marks. But in case of even votes encountered, then the average marks will be considered as the passing criteria.

(7) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six months intervals.

(ii) The Part I Re-Examination shall consist of the components that has failed and shall be assessed and graded in the same manner as prescribed for the Part I Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) A candidate who has failed the Final Examination may be permitted a re-examination on two separate occasions at six months intervals.

(ii) The Final Re-Examination shall consist of the components that has failed and shall be assessed and graded in the same manner as prescribed for the Final Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Final Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(c) A candidate who has passed the re-examination for the Examinations shall be deemed to have passed the prescribed Examinations.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Sport Medicine unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.
(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he -

(a) has obtained 75% or more of the aggregate marks in each of the prescribed Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

(2) Award of the Degree with Distinction

A candidate may be awarded the degree of Master of Sports Medicine with Distinction if he -

(a) has passed with Distinction in both the Part I and the Final Examination;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
### Master of Sports Medicine Programme Schedule

<table>
<thead>
<tr>
<th>Stage</th>
<th>Year 1 (12 months)</th>
<th>Year 2 (36 months)</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Final Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Basic Sciences related to Sports Medicine and any other clinical discipline in relation to Sports Medicine</td>
<td>(a) advanced training and clinical postings in areas related to Sports Medicine including an elective posting or postings of the candidate’s choice subject to the approval of the Department responsible for the candidate’s programme of study;</td>
<td>(b) advanced training in areas of Sports Management, Ethics and Special Population;</td>
<td>(c) assignments;</td>
<td>(d) the keeping of a log book by the candidate to document tasks undertaken; and (e) research</td>
</tr>
<tr>
<td></td>
<td>Registration (Entrance Evaluation)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Name of Programme: Master of Surgery  
Faculty: Faculty of Medicine

1. Classification of Programme

The Master of Surgery programme is a clinical coursework programme in which the research component comprises less than thirty (30) percent of the whole programme of study.

2. Entry Requirements

(1) Entry qualifications
   (a) The degrees of Bachelor of Medicine and Bachelor of Surgery of the University or an equivalent medical qualification approved by the Senate; and
   (b) At least one year of post-full registration clinical experience approved by the Senate.

(2) Other requirements
   (a) Qualifies for registration as a medical practitioner under the Medical Act 1971 (Act 50) of Malaysia; and
   (b) Satisfies the Department in the Faculty responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four years.
(2) The maximum duration of study shall be seven years.

4. Structure of Programme

The programme of study comprises three stages as follows:

(1) Stage I, comprising:
   (a) six (6) months of General Surgery posting including courses in Applied Basic Sciences and Principles of Surgery;
   (b) the option of a further six (6) months of General Surgery OR two posting of three (3) months each in Accident and Emergency, Orthopaedic Surgery, Intensive Care, Anaesthesiology, Obstetrics and Gynaecology, Radiology or any other surgical specialty not covered in Stage II, subject to approval by the Department of Surgery and Faculty of Medicine.
   (c) initiation of a research project

(2) Stage II, comprising:
   (a) twelve (12) months of rotation in surgical specialties comprising four (4) postings of three (3) months each: two compulsory postings in Urology and Neurosurgery, and a further two postings in any of the following: Cardiothoracic
Surgery or Critical Care Medicine, Plastic and Reconstructive Surgery, Paediatric Surgery.

(b) continuation of a research project

(3) Stage III, comprising:

(a) Twenty four (24) months in General Surgery including rotating through which may include Colorectal, Upper Gastrointestinal, Hepatobiliary, Breast, Endocrine, Vascular and Trauma Surgery general surgical sub-specialities;

(b) submission of a research report.

(4) A candidate is required to keep a log book throughout his period of study to document tasks undertaken.

5. Registration

Registration for the programme of study shall commence the week prior to the start of the academic session.

6. Attendance

During his programme of study -

(1) A candidate may be permitted to undertake part of his programme of study in other hospitals or centres recognised by the Faculty;

(2) A candidate who has been absent for a period exceeding forty-two (42) days in any academic year shall be required to undertake an extended period of training to be determined by the Faculty; provided always that the extended period of training shall not exceed the maximum period of candidature.

7. Supervision

(1) The clinical supervisor for a candidate shall be appointed not later than two months after the registration of the candidate. The research supervisor shall be appointed subsequent to the candidate passing the Part I examination.

(2) A consultant shall be appointed for a candidate who undertakes part of his programme of study outside the University. The consultant shall be appointed not later than two months after the candidate has commenced training in the outside location.

8. Research Report

The research project for a candidate shall be proposed by the candidate in discussion with their supervisor not later than six months after passing the Part I Examination. Research proposals must be vetted by the Department in the Faculty responsible for the candidate's programme of study.

9. Submission

(1) A candidate is required to submit his log book and end-of-posting reports every six months for assessment by the Department in the Faculty responsible for the candidate’s programme of study.

(2) A candidate is required to submit his research report not later than three months before the Final Examination.
10. Examination for the Degree

(1) The Examinations leading to the degree shall be as follows:

(a) the Part I Examination; and
(b) the Final Examination.

(2) No candidate shall only be permitted to sit for the Final Examination if he has:

(a) Passed or been exempted from the Part I Examination
(b) Passed the annual clinical evaluation
(c) Submitted three satisfactory case write-ups, and
(d) Submitted a research report that has been assessed as of sufficient standard not later than three months before the Final Examination.

(3) A candidate may be exempted from the Part I Examination if he has passed:

UK Intercollegiate MRCS Examination (Part A and B)

(4) The Part I Examination shall be held at the end of the first six months of the Phase I of the programme of study. The Final Examination shall be held at the end of the Phase III of the programme of study.

(5) Examination Components and Allocation of Marks

(a) Part I Examination

The components of the Part I Examination and the marks to be allocated for each component shall be as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MSGD6104 Paper 1  Applied Basic Sciences (Single Best Answer)</td>
<td>135</td>
</tr>
<tr>
<td></td>
<td>MSGD6105 Paper 2  Principle of Surgery (Single Best Answer and Extended Matching Question)</td>
<td>135</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>270</td>
</tr>
<tr>
<td>B. Clinical</td>
<td>MSGD6124 OSCE</td>
<td>360</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>630</td>
</tr>
</tbody>
</table>

A candidate who does not pass the written component of the Part I Examination will not be permitted to sit for the clinical examination.

(b) Final Examination

The components of the Final Examination and the marks to be allocated to the various components of the Final Examination shall be as follows:

Component A is marked using an open system on a continuous scale, where the maximum combined mark of Paper 1 and Paper 2 is 360.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Allocation of Marks (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Written</td>
<td>MSGD6236 Paper 1</td>
<td>180</td>
</tr>
<tr>
<td></td>
<td>MSGD6237 Paper 2</td>
<td>180</td>
</tr>
</tbody>
</table>
Components B and C are marked using a closed system, in which the category of marks is as follows:

- 12 : Distinction
- 11 : Good Pass
- 10 : Pass
- 9 : Borderline
- 8 : Fail

Number of marks awarded for the Viva voce : 16
Maximum mark for Viva voce : 16 x 12 = 192
Pass mark for Viva voce : 16 x 10 = 160

Number of marks awarded for Clinical Long Cases : 6
Maximum mark for Clinical Long Cases : 6 x 12 = 72
Pass mark for Clinical Long Cases : 6 x 10 = 60

Number marks awarded for Clinical Short Cases : 9
Maximum mark for Clinical Short Cases : 9 x 12 = 108
Pass mark for Clinical Short Cases : 9 x 10 = 90

B. Viva Voce

- MSGD6250 Principles of Surgery (including critical care) 1 40
- MSGD6251 Surgical Pathology 40
- MSGD6252 Operative Surgery 40

Total required to pass component 160

C. Clinical

- MSGD6243 Long case 1 30
- MSGD6243 Long case 2 30

Total required passing component: 60

- MSGD6244 Short cases 90

Total required to pass component: 90

(6) Requirements for Passing an Examination

A candidate shall be deemed to have passed the Examinations prescribed below if he has obtained:

(a) Part I Examination

   (i) 50% or more of the aggregate combined marks of all the components; and

   (ii) 50% or more of the marks for each component for the Examination.

(b) Final Examination

   (i) 50% or more of the aggregate combined marks for Component A; and

   (ii) The pass mark for Component B; and

   (iii) The pass marks for component C.
(7) Repeating an Examination

(a) Part I Re-Examination

(i) A candidate who has failed the Part I Examination may be permitted a re-examination on two separate occasions at six (6) monthly intervals.

(ii) The Part I Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Part I Examination. However, a candidate who has passed the written components previously will not be required to re-sit these components at the subsequent Part I Re-Examination.

(iii) A candidate who fails the re-examination on the second occasion shall be deemed to have failed the Part I Examination and shall not be permitted to repeat the programme of study except in special circumstances on the recommendation of the Faculty of Medicine and with the approval of Senate.

(b) Final Re-Examination

(i) There is no limit on the total attempts in the Final Examination, as long as the candidate is still within the maximum duration of study which shall be seven years from the first date of registration.

(ii) The Final Re-Examination shall consist of the same components and shall be assessed and graded in the same manner as prescribed for the Final Examination. However, a candidate who has passed Component A previously will not be required to re-sit this component for two subsequent Final Re-Examinations. Should the candidate fail the two subsequent Final Re-Examinations, he will be required to re-sit Component A at the third subsequent Final Re-Examination.

(iii) After the maximum duration of study is over the candidate is considered to have failed the Final Examination and shall not be permitted to repeat the programmes of study.

11. Award of Degree

No candidate shall be recommended for the award of the Degree of Master of Surgery unless he has successfully completed all parts of the course, completed the minimum duration of study and has passed the prescribed Examinations.

(1) Award of Pass with Distinction for the Examination

A candidate may be awarded a Pass with Distinction in the Part I Examination or the Final Examination if he

(a) has obtained 75% or more of the aggregate combined marks in each of the prescribed Examinations;

(b) has not failed in any component of the prescribed Examination; and

(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.
(2) **Award of the Degree with Distinction**

A candidate may be awarded the degree of Master of Surgery with Distinction if he -

(a) has passed with Distinction in the Final Examination;
(b) has not failed in any component of the prescribed Examination; and
(c) has not repeated the prescribed Examination or any part of the programme of study except on medical or compassionate grounds acceptable to the Faculty.

### Master of Surgery Programme Schedule

<table>
<thead>
<tr>
<th>STAGE</th>
<th>Year 1</th>
<th>Part I Examination (At the end of the first six months of Stage I)</th>
</tr>
</thead>
</table>
| I     | General Surgery (6 months)  
Accident and Emergency (3 months)  
Orthopaedic Surgery or any surgery – related elective posting (3 months)| Registration (Entrance Evaluation) |
| II    | Year 2 | (12) months of rotation in surgical specialties;  
        |  
        |        | four (4) postings of three (3) months each: two compulsory postings in Urology and Neurosurgery, and a further two postings in any of the following: Cardiothoracic Surgery or Critical Care Medicine, Plastic and Reconstructive Surgery, Paediatric Surgery. |
| III   | Year 3 | (24) months in General Surgery including rotating through general surgical sub-specialties, namely Colorectal, Upper GI, Hepatobiliary, Breast, Endocrine and Vascular;  
        |        | Final Examination |
Name of Programme : Master of Medical Science  
Mod : By Research  
Faculty : Faculty of Medicine

1. Classification of Programme
The Master of Medical Science by Research is a programme in which the research component comprises one hundred (100) percent of the programme of study.

2. Entry Requirements
The qualification for admission into the Degree programme of study are as follows:

(1) The degrees of Bachelor of Medicine and Bachelor of Surgery or the degree of Bachelor of Dental Surgery of the University; or

(2) The Bachelor of Science in the relevant field of the University and a CGPA of not less than 3.0 (or its equivalent); or

(3) An equivalent qualification approved by the Senate from time to time; and

(4) Evidence of adequate training and ability to undertake the Degree programme of study; and

(5) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study
(1) The minimum duration of study shall be two (2) semester
(2) The minimum duration of study shall be eight (8) semester

4. Structure of Programme
(1) This programme is a research programme leading to the submission of a dissertation and the format is as provided in the University of Malaya (Master’s Degree) Rules 2014 and University of Malaya (Master’s Degree) Regulations 2014.

(2) Where the Faculty deems it necessary a candidate may be required to follow or follow and pass such course or course(s) as determined by the Faculty.

5. Course Registration
Except where he has been permitted to withdraw from the semester concerned, a candidate for the programme by dissertation who is required to follow or follow and pass such course or courses shall be required to register for the course or courses in the semester the course or courses is or are offered.

6. Supervision
(1) The supervisor for a candidate shall be appointed when the area of research is approved.

(2) The co-supervisor and/or consultant may be appointed at any time when required.
7. **Title of Research**

The area of research for the dissertation shall be determined when the candidate is accepted for admission to the programme of study.

8. **Submission**

(1) A candidate who is required to follow such course or courses as determined by the Faculty shall not be permitted to submit the dissertation until the Dean confirms that he has followed the course or courses to his satisfactions.

(2) A candidate shall submit his dissertation for examination within the period of candidature.
Name of Programme: Master of Medical Science
Mode: By Coursework and Research
Faculty: Faculty of Medicine

1. Classification of Programme

The Master of Medical Science by Coursework and Research is a programme by coursework and dissertation in which the credit hours for the research component comprises seventy (70%) percent or more of the total credit hours for the whole programme of study.

2. Entry Requirements

The qualification for admission into the Degree programme of study are as follows:

(a) The degrees of Bachelor of Medicine and Bachelor of Surgery or the degree of Bachelor of Dental Surgery of the University; or
(b) The Bachelor of Science in the relevant field of the University and a CGPA of not less than 3.0 (or its equivalent); or
(c) An equivalent qualification approved by the Senate from time to time; and
(d) Evidence of adequate training and ability to undertake the Degree programme of study; and
(e) Satisfies the Department responsible for the candidate’s programme of study in an Entrance Evaluation recognised by the Faculty.

3. Duration of Study

(1) The minimum duration of study shall be four (4) semester
(2) The minimum duration of study shall be eight (8) semester

4. Structure of Programme

(1) The Master of Medical Science programme by coursework and research comprises fifty six (56) credit hours and consists of two parts, namely:

(a) Part I consisting of six core courses totalling sixteen (16) credit hours;
(b) Part II involving research leading to the submission of a dissertation totaling forty (40) credit hours.

(2) Details of the courses offered are as approved by Senate from time to time on the recommendation of the Faculty and candidates shall be informed of such details at the beginning of each session.

(3) The lists of courses for the programme of Master of Medical Science are provided in List 1.

(4) Course grades are subjected to regulations prescribed in the Marking Scheme of the University of Malaya (Master’s Degree) Rules 2014 and University of Malaya (Master’s Degree)(Regulations 2014).
5. Registration

(1) Registration for the courses shall commence the week prior to the start of the relevant semester.

(2) A candidate is required to register for at least nine credit hours in any semester except:
   
   (a) in the final semester of his programme of study where he may register for less than the number of credits hours stated above; or
   
   (b) where the candidate has been permitted to withdraw from the semester concerned.

(3) A candidate may only register for Part II of the programme of study after he has obtained at least nine credit hours.

6. Supervision

(a) The supervisor for a candidate shall be appointed when the area of research is approved.

(b) The co-supervisor and/or consultant may be appointed at any time when required.

7. Title of Research

The area of research for the dissertation shall be determined before the candidate commences the research part of his programme of study.

8. Submission

(1) A candidate is allowed to submit the dissertation when he has conducted research for at least one semester after registering for Part II of this programme.

(2) A candidate shall submit his dissertation for examination within the period of candidature.

List 1

List 1: Core Courses (Module Physiology)

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>Seminars and Literature Review II</td>
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Subject to change from time to time
MWGN 6108
Human Physiology I (3 credits)

Learning Outcomes

At the end of the course, students are be able to:
1. Use knowledge pertaining to the discipline of Physiology regarding core topics and cardiovascular and respiratory systems
2. Apply practical skills for research purposes in the discipline of Physiology
3. Perform social skills and responsibility toward fellow humans and animals in the discipline of Physiology

Synopsis

Human Physiology is the study of how the human body functions under normal conditions. The human body is organised into various organ systems namely: nervous, musculoskeletal, cardiovascular, respiratory, gastrointestinal, renal, endocrine and reproductive systems.

The Physiology course in Semester 1 is taught based on core subjects and system blocks, namely:

- Cell transport and membrane potentials
- Blood
- Muscle contractions and functions
- Physiology of the cardiovascular system
- Physiology of the respiratory system

Main Reference


Assessment Methods

Continuous Assessment : 30%
Final Examination : 70%

MWGN 6107
Human Physiology II (3 credits)

Learning Outcomes

At the end of the course, students are able to:
1. Use knowledge pertaining to the discipline of Physiology regarding gastrointestinal, renal, endocrine and reproductive systems and neurophysiology
2. Apply practical skills for research purposes in the discipline of Physiology
3. Perform social skills and responsibility toward fellow humans and animals in the discipline of Physiology

Synopsis

Human Physiology is the study of how the human body functions under normal conditions. The human body is organised into various organ systems namely: nervous, musculoskeletal, cardiovascular, respiratory, gastrointestinal, renal, endocrine and reproductive systems.

The Physiology course in Semester 2 is taught based on system blocks, namely:

- Gastrointestinal system
• Renal system
• Endocrine system
• Reproductive system
• Neurophysiology

Main Reference


Assessment Methods

Continuous Assessment : 30%
Final Examination : 70%

MWGN 6109
Advanced Medical Physiology (3 credit hours)

Learning Outcomes

At the end of the course, students are able to:
1. Use knowledge pertaining to the discipline of Physiology in unique settings
2. Apply practical skills for research purposes in the discipline of Physiology
3. Perform social skills and responsibility toward fellow humans and animals in the discipline of Physiology

Synopsis

Current and research information on: Hearing and balance, Vision, Neuropeptide, Pain, Locomotion, Exercise Physiology, Cardiovascular System, Blood Volume/Pressure Regulation, Hormone Receptor Mechanisms, Ion Channel Physiology, EEG, Neurotransmitters and Endocrine Functions, High altitude and diving physiology

Main Reference


Assessment Methods

Continuous Assessment: 50%
Final examination: 50%
MQGO 6112
Biostatistics (2 credit hours)

Learning Outcomes

At the end of this course, students are able to:
1. Use knowledge pertaining to biostatistical methods
2. Solve problems in a scientific manner

Synopsis


Main References


Assessment Methods

Continuous Assessment : 40%
Final Examination : 60%

MWGN 6170
Seminar and literature review I (2 credit)

Learning Outcomes

At the end of the course, students are able to:
1. Develop ability to gather current information in the discipline of Physiology pertaining to core topics and cardiovascular and respiratory systems
2. Use skills for information management and lifelong learning in the discipline of Physiology

Synopsis

Students are trained to search the literature and prepare reviews of current topics. They are also required to make oral presentations and submit concise written reports of the topics they have presented.

Main Reference

4. Current medical journals

Assessment Methods

Continuous assessment: 100%
MWGN 6173  
Seminar and literature review II (3 credit)

Learning Outcomes

At the end of the course, students are able to:
1. Develop ability to gather current information in the discipline of Physiology pertaining to gastrointestinal, renal, endocrine and reproductive systems and neurophysiology
2. Use skills for information management and lifelong learning in the discipline of Physiology

Synopsis

Students are trained to search the literature and critique reviews of current topics. They are also required to make oral presentations and submit concise written reports of the topics they have presented.

Main Reference

4. Current medical journals

Assessment Methods

Continuous assessment: 100%
Name of Programme : Doctor of Medicine
Mode : Research
Faculty : Faculty of Medicine

This programme offered for Malaysian applicant only especially for University Malaya Medical Center (UMMC) Staff.

The Medicine Doctor or Doctor of Medicine (MD) is a doctorate level degree held by medical doctors. In the United Kingdom and many other Commonwealth countries, the M.D. is a higher doctoral degree reserved for those who have contributed significantly to the academic study of medicine and surgery, respectively. This is not to be confused with the Doctor of Medicine (M.D) offered by U.S medical schools. That is a degree programme, whereas this is a doctorate programme.

The Doctor of Medicine programme offered by the Faculty of Medicine, University of Malaya is a higher doctoral degree programme, to which the candidate must already have the necessary medical experience before application to this programme.

1. Entry Requirements

To be registered as a candidate for the degree of Doctor of Medicine, a candidate must:

(1) be a graduate of at least two years standing in medicine and surgery of the University of Malaya, or of another approved University;

Or

(2) possess such other qualifications and experience as the Senate may specially approve.

2. Duration of study

(1) The minimum duration of study shall be four (4) semesters.

(2) The maximum duration of study shall be ten (10) semesters.

3. Structure of Programme

To supplicate for the degree of Doctor of Medicine, a candidate shall submit a thesis which must be original work on a subject approved by the Senate on the recommendation of the Faculty and at the discretion of the examiners be examined in such manner as the examiners think fit on the subject matter of the thesis and related subjects;

A candidate may not submit this thesis earlier than twenty four (24) months nor later than five (5) years after the date of his initial registration except with the approval of the Senate. A candidate shall give at least three (3) months notice in writing to the Registrar of his intention to submit his thesis for Examination.
K. PATHMARAJAH MEMORIAL AWARD

The K. Pathmarajah Memorial Award is an annual award established from the income of a fund of RM10,800.00 donated by members of the Manipal Alumni Association, family and friends in memory of the late Dr. K. Pathmarajah formerly lecturer in the Faculty of Medicine.

Rules

1. The K. Pathmarajah Memorial Award shall be awarded to the best student in the Part II Examination for the Degree of Master of Anesthesiology.
2. The award shall be made by the Senate on the recommendation of the Board of Examiners for the examination concerned.
3. The award shall take the form of a gold medal up to a value of RM500.00.
4. The gold medal shall not be awarded in any academic year if no candidate is deemed worthy of the award. In such event the funds available for that academic year shall be carried forward for additional awards in any subsequent academic year if there is more than one candidate worthy of the award.

DR. RANJEET BHAGWAN SINGH AWARD

The Dr. Ranjeet Bhagwan Singh Award has been established form the income of a fund of Ringgit 5,000 donated to the University of Malaya by Dr. Ranjeet Bhagwan Singh for award to the best student in the Master of Pathology Examination.

Rules

1. The Dr. Ranjeet Bhagwan Singh Award shall take the form of a gold medal which shall be awarded annually by the Senate of the University of Malaya to the best student in the Master of Pathology Examinations.
2. The award shall be made by the Senate on the recommendation of the Board of Examiners concerned.
3. No award shall be made if there is no candidate of sufficient merit in any academic year. In such event, the fund available shall be carried forward to provide for an additional award in another year if there are more than one candidate of sufficient academic merit.
4. The cost of the award shall be met from the income derived annually form the donation.

MASTER OF RADIOLOGY PRIZE

The Master of Radiology Prize was established with a donation of Ringgit Ten Thousand from Pribumi Sdn. Bhd. and Ringgit Five Thousand from Meditel Electronics Sdn. Bhd. to the University of Malaya. The prize will be awarded annually to a student with the best overall achievement in the Master of Radiology Program based on the final examination for the degree of Master of Radiology. The cost of the prize will be met from the income derived annually form this donation.
**Rules**

1. The Master of Radiology Prize shall be awarded annually to one student with the best achievement in the Program based on the final examination for the Degree of Master of Radiology.

2. The award shall be made by the Senate on the recommendation of the Board of Examiners concerned.

3. A candidate who has failed in any of the Part I, Part II or Final Assessment shall not be considered for this prize.

4. The first award shall commence based on the academic achievement of the student in the examination for the 2001/2002 Academic Session.

5. The prize will be in the form of cash with a value of RM600.00.

6. No award shall be made in any academic year if there is no candidate of sufficient academic merit. In such an event, the funds available will be carried forward to provide for additional awards in any subsequent academic year where there is more than one candidate of sufficient merit.

**MASTER OF MEDICAL PHYSICS PRIZE**

The Master of Medical Physics Prize was established with a donation of Ringgit Ten Thousand from Primabumi Sdn. Bhd. and Ringgit Five Thousand from Meditel Electronics Sdn. Bhd. to the University of Malaya. The prize will be awarded annually to a student with the best overall achievement in the Master of Medical Physics Program based on the final examination for the degree of Master of Medical Physics. The cost of the prize will be met from the income derived annually from this donation.

**Rules**

1. The Master of Medical Physics Prize shall be awarded annually to one student with the best achievement in the Program based on the final examination for the Degree of Master of Medical Physics.

2. The award shall be made by the Senate on the recommendation of the Board of Examiners concerned.

3. A candidate who has failed in any of the Semester I or Semester II Examination shall not be considered for this prize.

4. The first award shall commence based on the academic achievement of the student in the examination for the 2001/2002 Academic Session.

5. The prize will be in the form of cash with a value of RM600.00.

6. No award shall be made in any academic year if there is no candidate of sufficient academic merit. In such an event, the funds available will be carried forward to provide for additional awards in any subsequent academic year where there is more than one candidate of sufficient merit.
DR. JOHN BOSCO AWARD

The John Bosco Award is an annual award established from the John Bosco Memorial Fund which was started with donations from family and friends of the late Professor John Bosco, former head of the Department of Medicine.

Rules

1. The John Bosco Award is to be given to the best and most worthy candidate who passes the part II and final examination for the degree of Master of Internal Medicine. He or she must not fail in any section of the exams clinical or written and the candidate should show consistent performance through his or her training.

2. The award shall be in the form of a book prize and the total value of RM2000.00.

3. Dr. John Bosco award shall be made on every session by the Senate on the recommendation of the Board of Examiners concerned.

4. The award may be withheld if no candidate is deemed to be of sufficient merit in any academic year. In such event, the fund shall be carried forward to provide for an additional award in another year if there is more than one candidate of sufficient academic merit.
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<th>NO</th>
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<td>26</td>
<td>M25</td>
<td>MGV Nursing Science</td>
<td>2006/2007</td>
<td>42</td>
<td>17</td>
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<tr>
<td>27</td>
<td>M26</td>
<td>MGG Medical Science (Research)</td>
<td>2007/2008</td>
<td>246</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medical Science (Mix Mode)</td>
<td></td>
<td>0</td>
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</tbody>
</table>

**DOCTORATE DEGREE**

| 28 | M28  | MHB Doctor of Medicine | | 35 | 1 | 0 | 0 | 0 | 0 | 36 | 0 | 36 |
| 29 | M29  | MHA Doctor of Philosophy | | 106 | 37 | 27 | 33 | 41 | 38 | 189 | 93 | 282 |
| 30 | M30  | MHC Doctor of Public Health | | 0 | 5 | 2 | 3 | 15 | 7 | 31 | 1 | 32 |
|    |      | TOTAL | | 3136 | 334 | 289 | 311 | 402 | 319 | 4034 | 757 | 4791 |

Notes:
- Programmes offered for International candidates only.
- Update: 17082017
<table>
<thead>
<tr>
<th></th>
<th>FACULTY FACILITIES</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>TAN SRI DANARAJ MEDICAL LIBRARY</td>
</tr>
<tr>
<td>2</td>
<td>IMAGING LABORATORY</td>
</tr>
<tr>
<td>3</td>
<td>BIOMEDICAL IMAGING DEPARTMENT</td>
</tr>
<tr>
<td>4</td>
<td>MULTIDISCIPLINARY LABORATORIES</td>
</tr>
<tr>
<td>5</td>
<td>CLINICAL SKILLS LABORATORY</td>
</tr>
<tr>
<td>6</td>
<td>COMPUTER LABORATORIES</td>
</tr>
<tr>
<td>7</td>
<td>MEDICAL ILLUSTRATION AND MULTIMEDIA DEVELOPMENT UNIT</td>
</tr>
<tr>
<td>8</td>
<td>ANATOMY RESOURCE</td>
</tr>
<tr>
<td>9</td>
<td>CENTRAL PATHOLOGY MUSEUM</td>
</tr>
<tr>
<td>10</td>
<td>UNIVERSITY BOOK STORE (MEDICAL)</td>
</tr>
</tbody>
</table>
SERVICES

Academic Services
Tan Sri Danaraj Medical Library

The Medical Library on the 3rd floor of the faculty contains around 100,000 volumes and subscribes to around 2,000 current journals. An extensive collection of reference works, printed indexing and abstracting services are maintained. It permits access to a number of databases both on-line and on compact disk in the various fields of medicine and allied health care. In addition, the library offers cassette-tape, tape-slide, video-viewing and discussion room facilities, inter-library loan, photocopying and document binding services. Branch libraries are at the Klang and Kuala Langat District Complexes. These libraries aim to provide good quality and friendly service in a pleasant environment. Care of all library material is essential to maintaining this standard. Instructions regarding the use of facilities should be obtained from library staff.

The Main UM Library situated in the main campus contains more than 1 million volumes, a microfilm processing unit and photostating facilities.

Library times:
Mon-Fri: 0800 – 2230 hr
Sat & Sun: 0800 – 1530 hr

MULTI-DISCIPLINARY LABORATORIES

A special facility at FOM is the multidisciplinary laboratories commonly known as the MD Labs (I and II). As their name implies, these labs serve various purposes which include wet and dry laboratory practical’s, tutorials, self-directed learning stations, structured paraclinical examinations as well as for tutorial and self learning. It also serves as a home-based for the students.
CLINICAL SKILLS LABORATORIES

The Clinical Skill Laboratory (CSL) of Faculty of Medicine provides facilities for the teaching of clinical skills and procedures. It is equipped with wide range of simulators. The centre allows medical and paramedical students and doctors to use these simulators for learning and practicing the clinical skills and procedures in a safe, controlled environment. For detail information check its webpage: http://www.ummc.edu.my/csl.

COMPUTER LABORATORIES

The computers laboratories equip with a total of 90 computers are available to students of UMMC for various computer-aided learning programmes. These laboratories are opened up to 11.30 pm on working days.
MEDICAL ILLUSTRATIONS AND MULTIMEDIA DEVELOPMENT UNIT

This unit is a centre for the production of media and resources to support teaching and research at the faculty. Comprehensive photographic and graphic services are offered as well as a fully equipped video unit. Other services include management of the Faculty’s lecture theatres and audiovisual equipment.

ANATOMY RESOURCE CENTRE

The Anatomy Resource Centre (ARC) has been designed to emphasise clinically relevant anatomy and stimulate ‘active learning’ in students in a pleasant conducive environment. Although designed as a multidisciplinary resource primarily for medical students, it also serves the needs of dental students and others from the allied health sciences as well as postgraduate health professionals. In addition, the ARC plays a very vital role in educating the public about the importance of anatomy in clinical medicine (see below).

Key features include potted and plastinated cadaveric specimens, a range of diagnostic images and clinical scenarios quizzes. In addition, activity stations have been designed to focus on interactive learning through multimedia computers, educational anatomy software/ medical websites as well as anatomy videotapes. Dedicated timetable slots in the Phase I medical course encourage self-learning in the ARC by medical students. All regular ARC users are issued with security smart cards to enter and exit the centre. User profile of the ARC is continuously recorded and analysed from computerised door entry records. Student perception of ARC educational value is assessed regularly through feedback questionnaires surveys.
CENTRAL PATHOLOGY MUSEUM

UNIVERSITY BOOK STORE (MEDICAL)

Located on the ground floor of Menara Timur in UMMC, the Medical Book Store stocks a comprehensive supply of medical textbooks in all medical disciplines. It also stock student’s clinical learning aids and stationaries.

MEDSOC

You can have complete information on the Medical Society and their activities at the FOM website.
| 1 | ACCOMODATION              |
| 2 | STUDENT SCHOLARSHIP AND LOAN |
| 3 | STUDENT HEALTH SERVICES   |
| 4 | STUDENT COUNSELING SERVICES |
| 5 | UNIVERSITY BOOK STORE     |
| 6 | PEKANSISWA                |
| 7 | SHOPS                     |
| 8 | BANKING SERVICES          |
| 9 | MAIN LIBRARY              |
| 10| SPORTS AND RECREATION     |
| 11| MOSQUE                    |
| 12| ANNUAL PLANNER & NOTES    |
ACCOMMODATION

The Ibnu Sina Residential College houses 700 Faculty of Medicine students. A branch hostel in
Klang, next to the Hospital is specially for medical students in Phase III. Full board and lodging
is provided at reasonable rates.

Further information for on-campus or off-campus accommodation can be obtained from the
Student Affairs Section, UM.

STUDENT SCHOLARSHIP/LOANS UNIT

This unit, located in the Student Affairs Section, UM handles applications for scholarship/loans
from national, state and statutory bodies, including private companies and philanthropic
organizations.

STUDENT HEALTH CLINIC

Mon-Fri: 0800 – 1230
Sat: 0800 – 1245 hr
No service on Sun/public holiday
This service is available to all students throughout the year.

UM MEDICAL CENTRE

A 24-hour emergency medical service is available to all UM students at the Accident &
Emergency Unit of the UM Medical Centre.

STUDENT COUNSELING SERVICE

Mon-Fri: 0900 – 1230hr
Sat: 0900 hr

A confidential counseling service available for all UM students, is offered by the Student
Development Section, which is situated at the Perdanasiswa Complex.

The UM Medical Center provides an added counseling service for its students. For further
information, please refer to current faculty notices on Counseling Service.
PEKAN BUKU (0900 – 1700 hr)

A large bookshop is strategically placed at the Perdanasiswa complex (C). Prices are competitive and the range is wide. A branch outlet for medical books is available on the ground floor of the main hospital block.

PEKAN SISWATA (0900 – 1700 hr)

A minimarket on the ground floor of the Baktisiswa building is available for foodstuff, porting and electrical goods.

MOSQUE

Masjid Al-Rahman is situated at the main entrance to UM. A surau is situated adjacent to the hospital. A newly built surau is situated in the Faculty of Medicine at level 4 between the Department of Anatomy and Molecular Medicine.

SHOPS - PHARMACY, FRUITSHOP & FLORIST

These shops are available on the first and ground floor of the main hospital block.

BANKING FACILITIES

A CIMB is situated on the ground floor of the new administrative building in the campus. A CIMB and a Bank Islam auto-teller machine is available on the ground floor of the main hospital block. A Maybank branch is situated in the Siswarama building on the main campus. Bank Islam is situated on the ground of the new examination building in the campus.
NOTES......

THANK YOU

PREPARED BY;

POSTGRADUATE SECTION, DEAN'S OFFICE
ICT SECTION [MULTIMEDIA & IT], DEAN'S OFFICE.

FACULTY OF MEDICINE
UNIVERSITY OF MALAYA