PROGRAM SPECIFICATION

Sohag University - Faculty of Medicine

A- Basic Information

1. Program title: Doctoral degree in Orthopedic Surgery and Traumatology
2. Program type: Single
3. Department: Department of Orthopedic Surgery and Traumatology
4. Coordinator: Dr. Ahmad Addosooki
5. Assistant Coordinator: Mohamed Abd El-hamid
6. External evaluator: Prof.Dr.Osama Farouk
7. Last date of program specifications approval: Faculty Council No. 182 decree NO. 7163 Dated 14/9/2009

B- Professional Information

1. Program aims
   The aim of that program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide further training and practice in the field of orthopedic surgery and traumatology through providing:
   1. Recent scientific knowledge essential for the mastery of practice of orthopedic surgery and traumatology according to the international standards.
   2. Skills necessary for proper diagnosis and management of patients in the field of orthopedic surgery and traumatology including diagnostic, problem solving, decision making and operative skills.
   3. Ethical principles related to practice in the highly sensitive specialty.
   4. Active participation in community needs assessment and problem identification.
   5. Maintenance of learning abilities necessary for continuous medical education.
   6. Updating research interest and abilities.

2. Intended learning outcomes (ILOs)
   a) Knowledge and understanding
      By the end of the program the student should be able to:
      a1. Mention the recent advances in the normal structure and function of the human musculoskeletal system and its relation to surgical procedures.
a2. Understand the normal growth and development of the human musculoskeletal system and the basic biomechanics of the body.

a3. List the recent advances in the abnormal structure, function, growth and development of human musculoskeletal system.

a4. Understand recent advances in the natural history of orthopedic diseases and traumatology problems.

a5. Understand recent advances in the causation of orthopedic diseases and their pathogenesis.

a6. Enumerate recent methods of fixation of different fracture pattern.

a7. List the clinical picture and differential diagnosis of orthopedic diseases.

a8. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of orthopedic diseases.

a9. Describe recent advances in the various therapeutic methods/alternatives used for orthopedic diseases.

a10. Understand basic knowledge of physiology, pathology and histology that is related to orthopedic diseases and fractures.

a11. Understand basic knowledge of the general surgery.

a12. Define recent advanced trauma management.

a13. Know principles, methodologies, tools and ethics of scientific research.

a14. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of orthopedic surgery and traumatology.

a15. Know the principles and fundamentals of quality assurance of professional practice in the field of orthopedic surgery and traumatology.

a16. Understand the effect of professional practice on the environment and the methods of environmental development and maintenance.

b) Intellectual skills

By the end of the program the student should be able to:

b1. Interpret data acquired through history taking to reach a provisional diagnosis for orthopedic diseases.

b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for orthopedic diseases.

b3. Conduct research studies, that adds to knowledge.

b4. Formulate scientific papers in the area of orthopedic surgery and traumatology.
b5. Assess risk in professional practices in the field of orthopedic surgery and traumatology
b6. Plan to improve performance in the field of orthopedic surgery and traumatology
b7. Identify orthopedic and traumatology problems and find solutions.
b8. Have the ability to innovate nontraditional solutions to orthopedic and traumatology problems.
b9. Mange scientific discussion based on scientific evidences and proofs.
b10. Criticize researches related to orthopedic surgery and traumatology

c) **Professional and practical skills**
   By the end of the program the student should be able to:
c1. C.1 Master the basic and modern professional skills in the area of orthopedic surgery and traumatology.
c2. Write and evaluate medical reports.
c3. Evaluate and develop methods and tools existing in the area of Orthopedic surgery and traumatology
   c4. Perform endoscopic and imaging evaluation of orthopedic problems.
c5. Train junior staff through continuous medical education programs.
c6. Design new methods, tools and ways of professional practice.

d) **General and transferable skills**
   By the end of the program the student should be able to:
d1. Present reports in seminars effectively.
d2. Use appropriate computer program package
   d3. Teach others and evaluate their performance.
d4. Assess himself and identify his personal learning needs.
d5. Use different sources for information and knowledge.
d6. Work coherently and successfully as a part of a team and team's leadership.
d7. Manage scientific meetings according to the available time.

3. **Academic Standards:**
   Sohag Faculty of Medicine adopted the general National Academic Standards (NARS) provided by the national authority for quality assurance and accreditation of education (naqae) for postgraduate programs. This was approved by the Faculty Council decree NO.6754, in its session NO. 177 Dated 18/5/2009, Based on these NARS; Academic Reference Standards (ARS) were suggested for this program. These ARS were approved by the Faculty Council decree NO.7528 , in its session NO. 191, dated 15/3/2010.

4. **Curriculum Structure and Contents**
   4.a- **Program duration:** 3.5 years (7 semesters)
### 4.b- Program structure

<table>
<thead>
<tr>
<th>Subject</th>
<th>Lectures</th>
<th>Practical</th>
<th>Clinical</th>
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<tbody>
<tr>
<td><strong>First Part:</strong></td>
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<tr>
<td>Research Methodology + Bio Statistics &amp; Computer</td>
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<tr>
<td>Biomechanics</td>
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<tr>
<td>Applied anatomy</td>
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<tr>
<td>Surgical pathology</td>
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<td>2</td>
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<tr>
<td>Clinical physiology</td>
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<tr>
<td><strong>Second Part:</strong></td>
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<tr>
<td>Orthopedic surgery</td>
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<tr>
<td>Traumatology</td>
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<td>6 h</td>
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</tbody>
</table>

### 5. Program courses: 9 Compulsory course

#### 5.1- Level of Program

**First Part:**

A. Compulsory

<table>
<thead>
<tr>
<th>Course Title</th>
<th>No. of Units</th>
<th>No. of hours/week</th>
<th>Program ILOs covered (By No.)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Lect</td>
<td>Lab.</td>
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<tr>
<td>Clinical Physiology</td>
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<tr>
<td>Applied Anatomy</td>
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<tr>
<td>Surgical Pathology</td>
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<tr>
<td>Biomechanics</td>
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<tr>
<td>Biostatistics, Computer</td>
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<tr>
<td>Research methodology</td>
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<tr>
<td>Primary medical reports</td>
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</tbody>
</table>

**Second Part:**

A. Compulsory

C. Optional

### 6. Program admission requirements

a. General Requirement

1. Candidates should have either:
   a. MBBCh Degree form any Egyptian Faculties of Medicine, or
   b. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.
2. Master Degree in Orthopedic Surgery and Traumatology
3. Follow postgraduate regulatory rules of Sohag Faculty of Medicine.

b. Specific Requirements:
   1. Candidates graduated from Egyptian Universities should have at least “Good Rank” in their final/cumulative year(s) examination, and grade “Good Rank” in General Surgery Course too.
   2. Master Degree in Orthopedic Surgery and Traumatology with at least “Good Rank”.
   3. Candidate should know how to speak & write English well.
   4. Candidate should have computer skills.

7. Regulations for progression and program completion
Duration of program is 7 semesters (3.5 years), starting from registration till acceptance of the thesis; divided to:
First Part: (≥6 months=1 semester):
   1. Program-related basic science, Research Methodology, Ethics, primary medical reports Biostatistics and computer & SPSS.
   2. At least six months after registration should pass before the student can ask for examination in the 1st part.
   3. Two sets of exams: 1st in April — 2nd in October.
   4. For the student to pass the first part exam, a score of at least 60% in each curriculum is needed.
   5. Those who fail in one curriculum need to re-exam it only.

Second Part: (≥24 months=4 semesters):
   1. Program related specialized science Orthopedic Surgery and Traumatology Courses and ILOs. At least 24 months after passing the 1st part should pass before the student can ask for examination in the 2nd part.
   2. Fulfillment of the requirements in each course as described in the template and registered in the log book is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:

<table>
<thead>
<tr>
<th>Grand rounds</th>
<th>اجتماع علمي موسع</th>
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<tbody>
<tr>
<td>Training courses</td>
<td>دورات تدريبية</td>
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<td>Conference attendance</td>
<td>حضور مؤتمرات علمية</td>
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<tr>
<td>Thesis discussion</td>
<td>حضور مناقشات رسائل</td>
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<td>Workshops</td>
<td>حضور ورش عمل</td>
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<tr>
<td>Journal club</td>
<td>ندوة الدوريات الحديثة</td>
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<tr>
<td>Case presentation</td>
<td>تقييم حالة مرضية</td>
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<tr>
<td>Seminars</td>
<td>لقاء علمي موسع</td>
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<tr>
<td>Morbidity and Mortality conference</td>
<td>ندوة تحليل المخاطر المرضية أو الوفاة</td>
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<tr>
<td>Self education program</td>
<td>برنامج التعليم الذاتي</td>
</tr>
</tbody>
</table>

3. Two sets of exams: 1st in April— 2nd in October.
4. At least 60% of the written exam is needed to be admitted to the oral and practical exams.
5. 4 times of oral and practical exams are allowed before the student has to re-attend the written exam.
6. Thesis (24-48 months=4-8 semester):
   - Could start after registration and should be completed, defended and accepted after passing the 2nd part final examination, and after passing of at least 24 months after documentation of the subject of the thesis.
   - Accepting the thesis is enough to pass this part.

8. Methods of student's assessment

<table>
<thead>
<tr>
<th>Method of assessment</th>
<th>The assessed ILOs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Research assignment</td>
<td>general transferable skills, intellectual skills</td>
</tr>
<tr>
<td>2-Written Exams:</td>
<td>-knowledge</td>
</tr>
<tr>
<td>-Short essay</td>
<td>-knowledge, intellectual skills</td>
</tr>
<tr>
<td>-MCQs</td>
<td>-intellectual skills</td>
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<tr>
<td>-Commentary</td>
<td>-general transferable skills, intellectual skills</td>
</tr>
<tr>
<td>-Problem solving</td>
<td>-Practical skills, intellectual skills</td>
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<tr>
<td>3-Practical Exams</td>
<td>-Practical skills, intellectual skills</td>
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<tr>
<td>4-OSPE</td>
<td>-Practical skills, intellectual skills</td>
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<tr>
<td>5-Clinical Exams.</td>
<td>-Practical skills, intellectual skills</td>
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<td>6-Osce</td>
<td>-knowledge</td>
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<tr>
<td>7-Oral Exams.</td>
<td>-knowledge</td>
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<tr>
<td>8-Structured Oral Exams</td>
<td>--knowledge</td>
</tr>
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</table>

9. Evaluation of program

<table>
<thead>
<tr>
<th>Evaluator</th>
<th>Tool</th>
<th>Sample</th>
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</thead>
<tbody>
<tr>
<td>1- Senior students</td>
<td>Questionnaire</td>
<td>10</td>
</tr>
<tr>
<td>2- Alumni</td>
<td>Questionnaire</td>
<td>5</td>
</tr>
<tr>
<td>3- Stakeholders (Employers)</td>
<td>Questionnaire</td>
<td>5</td>
</tr>
<tr>
<td>4-External Evaluator(s)</td>
<td>Report</td>
<td>1</td>
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<tr>
<td>5- Other</td>
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<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>Agreement %</th>
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<tbody>
<tr>
<td>Programme aims &amp; ILOs</td>
<td></td>
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<tr>
<td>Did the program helped you to acquire skills</td>
<td>60 acceptable</td>
</tr>
<tr>
<td>needed to diagnose and manage the patients</td>
<td>10 good</td>
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<tr>
<td>Does the current program give you the skills</td>
<td>85</td>
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<tr>
<td>needed to reach a provisional diagnoses</td>
<td></td>
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<tr>
<td>Are Program alumni motivated to increase</td>
<td>30</td>
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<tr>
<td>their professional knowledge and skills</td>
<td></td>
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<tr>
<td>Does the teaching program give the acceptable</td>
<td>75</td>
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<tr>
<td>ethical behaviour</td>
<td></td>
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<tr>
<td>Does the current program motivate the alumni</td>
<td>80</td>
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<tr>
<td>for continuous medical education</td>
<td></td>
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<tr>
<td>Do program alumni perform good communication</td>
<td>75</td>
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<tr>
<td>with their patients</td>
<td></td>
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<tr>
<td>Question</td>
<td>Score</td>
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<tr>
<td>-------------------------------------------------------------------------</td>
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<tr>
<td>Do program alumni have computer skills needed for their work.</td>
<td>50</td>
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<tr>
<td>Do program alumni perform team work</td>
<td>80</td>
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<tr>
<td>Can program alumni react well to emergency</td>
<td>75</td>
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<tr>
<td>Can program alumni reach a satisfactory preliminary diagnosis</td>
<td>80</td>
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<tr>
<td>Can program alumni choose the proper diagnostic methods</td>
<td>75</td>
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<tr>
<td>Can program alumni distinguish complicated cases above his own and</td>
<td>30</td>
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<tr>
<td>establishment abilities</td>
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<tr>
<td>Do program alumni perform community health education</td>
<td>35</td>
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<tr>
<td>Do program alumni show scientific interest to widen their knowledge and</td>
<td>80</td>
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<tr>
<td>study for post graduate degrees</td>
<td></td>
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</tbody>
</table>
Course Specification of Biostatistics and Computer in MD degree in Orthopedic Surgery and Traumatology

University Sohag Faculty ...Medicine

1. Program(s) on which the course is given: Biostatistics and Computer in MD degree in Orthopaedic Surgery and traumatology
2. Minor element of program.
3. Department offering the course: Community Medicine Department
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part.

A. Basic Information
Title: : Biostatistics and Computer
Credit Hours:

B. Professional Information
1. Overall Aims of Course

   ● To influence the students to adopt an analytical thinking for evidence based medicine
   ● To use computer programs SPSS, Epi Info and Excel in data analysis

2. Intended Learning Outcomes of Courses (ILOs)
a) Knowledge and understanding:
By the end of the course, the student is expected to be able to:
   a1. Describe bias and confounding
   a2. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests
   a3. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values
   a4. Summarize data, construct tables and graphs
   a5. Describe the normal curves and its uses

b) Intellectual Skills
By the end of the course, the student is expected to be allowed to:
   b1. Select the appropriate statistical tests for a specific data
   b2. Calculate different samples sizes
   b3. Calculate measures of central tendency and measures of dispersion
   b4. Explain evidence based Medicine
c) **Professional and Practical Skills:**
By the end of the course, the student is expected to practice the following:
c1. Diagnose bias and confounding factors
c2. Interpret selected tests of significance and the inferences obtained from such tests

d) **General and Transferable Skills:**
By the end of the course, the student is expected to be able to:
d1. Use standard computer programs for statistical analysis effectively.
d2. Utilize computers in conducting researches.
d3. Manage a group of data entry

### 3. Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Tutorial/Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methodology &amp; statistics</td>
<td>45</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>Introduction to research</td>
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<tr>
<td>Terminology and rationale</td>
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<td>Data collection methods</td>
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<tr>
<td>Types of Data</td>
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<tr>
<td>Tabulation of data</td>
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<td>Graphical presentation of data</td>
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<tr>
<td>Measures of central tendency</td>
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<td>Measures of dispersion</td>
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<td>Normal distribution curves</td>
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<tr>
<td>Study design:</td>
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<tr>
<td>Cross sectional study and the prevalence rate</td>
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<tr>
<td>Cohort study, incidence rate, relative &amp; attributable risk</td>
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<tr>
<td>Case-control study, Odd’s ratio</td>
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<tr>
<td>Sampling</td>
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<tr>
<td>Tests of significance:</td>
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<tr>
<td>Proportion test</td>
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<td>Chi-square test</td>
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<td>Student T test</td>
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<tr>
<td>Paired T test</td>
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<tr>
<td>Correlation (simple and multiple)</td>
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<td>Regression</td>
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<td>ANOVA test</td>
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<td>Discrimination analysis</td>
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<td>Factor analysis</td>
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<td><strong>Total</strong></td>
<td><strong>45</strong></td>
<td><strong>15</strong></td>
<td><strong>30</strong></td>
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</tbody>
</table>

### 4. Teaching and Learning Methods
4.1- Lectures
4.2- Practical sessions

### 5. Student Assessment Methods
5.1 Written exams to assess knowledge
5.2 Oral exams to assess knowledge.
5.3 Observation of attendance and absenteeism.

**Assessment Schedule**

Assessment 1 … Written exam…Week: 24
Assessment 2…. Practical exam…Week: 24
Assessment 3..... Oral exam......Week: 24

Weighting of Assessments

Final-term written examination 50 %
Oral Examination. 30 %
Practical Examination 20 %
Total 100 %

6. List of References

6.1- Course Notes
Department notes, lectures and handouts

6.2- Essential Books (Text Books)
1-Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

6.3- Recommended Books
1- Dimensions of Community Health, Boston Burr Ridge Dubuque.

6.4- Periodicals, Web Sites, … etc
1-American Journal of Epidemiology
2-British Journal of Epidemiology and Community Health
3- WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning:
1- Adequate conditioned space for staff and assistants.
2- Adequate conditioned teaching facilities.
3- Audiovisual Aids: Data show, overhead and slide projectors and their requirements

Course Coordinator: Dr/Eman Abd El-Basit Mohammed

Head of Department: Prof. Mohammed Ali El-Torky

Date: 12/9/2009
Course Specification of Research Methodology in MD degree in Orthopedic Surgery and Traumatology

University Sohag  Faculty ...Medicine
1. Program(s) on which the course is given: Research Methodology in MD degree in Orthopaedic Surgery and traumatology
2. Minor element of program.
3. Department offering the course: Community Medicine Department
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part.

A. Basic Information
Title: Research Methodology
Credit Hours:
Lectures: 15h. (1 hour / week * 15 weeks)
Practical: 30h. (2 hours / week * 15 weeks)
Total: 45 h.

B. Professional Information
1- Overall Aims of Course

- To influence the students to adopt an analytical thinking for evidence based medicine
- To use precisely the research methodology in researches and computer programs SPSS, Epi Info and Excel in data analysis

2- Intended Learning Outcomes of Courses (ILOs)
   a) Knowledge and understanding:
      By the end of the course, the student is expected to be able to:
      a1. Define terms of research methodology
      a2. Describe the spectrum of research methodology
      a3. Explain the strategies and design of researches
      a4. Describe the sampling methods
      a5. List at least four types of study designs
      a6. Describe the study design, uses, and limitations
      a7. Define causation and association
      a8. Define the sources of data and methods of collection
      a9. Describe five sampling techniques and list at least three advantages of sampling
      a10. Build a model explaining the research methods and analysis of determinants of human diseases and health problems
      a11. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of orthopedic surgery and traumatology.
      a12. Understand the effect of professional practice on the environment and the methods of environmental development and maintenance.
   b) Intellectual Skills
By the end of the course, the student is expected to be allowed to:

b1. Apply research methods to different community health problems

b2. Identify and collect data variables impacting health and disease

b3. Apply appropriate research strategies for use

b4. Select and use appropriate research methods

b5. Advocate appropriately in the research design

c) **Professional and Practical Skills:**
   By the end of the course, the student is expected to practice the following:

c1. Perform a research proposal for community diagnosis

c2. Design questionnaires

c3. Conduct researches

c4. Detect association and causation

d) **General and Transferable Skills:**
   By the end of the course, the student is expected to be able to:

d1. Lead a research team to conduct a specific study

d2. Work coherently with his associates to in researches

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<td>Tabulation of data</td>
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<td>Graphical presentation of data</td>
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<tr>
<td>Study design:</td>
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<tr>
<td>Cross sectional study and the prevalence rate</td>
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<tr>
<td>Cohort study, incidence rate, relative &amp; attributable risk</td>
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<tr>
<td>Case-control study, Odd’s ratio</td>
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<td>Sampling</td>
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<tr>
<td>Tests of significance:</td>
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<tr>
<td>Proportion test</td>
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<tr>
<td>Chi-square test</td>
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<td>Student T test</td>
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<td>Paired T test</td>
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<td>Correlation (simple and multiple)</td>
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<td>Regression</td>
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<td>ANOVA test</td>
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<td>Discrimination analysis</td>
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<td>Factor analysis</td>
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</table>

| Total                                                | 45           | 15      | 30                 |

### 4- Teaching and Learning Methods

4.1- Lectures

4.2- Practical sessions

### 5- Student Assessment Methods

5.1 Written exams to assess knowledge and understanding.

5.2 Oral exams to assess knowledge and understanding, attitude, communication skills and problem solving capabilities.
5.3 Observation of attendance and absenteeism.

**Assessment Schedule**

**Weighting of Assessments**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
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</thead>
<tbody>
<tr>
<td>Final-term written examination</td>
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<td>Oral Examination</td>
<td>30%</td>
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<td>Practical Examination</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

Any formative only assessments

**6- List of References**

**6.1- Course Notes**
Department notes, lectures and handouts

**6.2- Essential Books (Text Books)**
1-Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

**6.3- Recommended Books**
1- Dimensions of Community Health, Boston Burr Ridge Dubuque.
   New York, London and Tokyo.

**6.4- Periodicals, Web Sites, … etc**
1-American Journal of Epidemiology
2-British Journal of Epidemiology and Community Health
3- WWW. CDC and WHO sites

**7- Facilities Required for Teaching and Learning:**
1. Adequate conditioned space for staff and assistants.
2. Adequate conditioned teaching facilities.
3. Audiovisual Aids: Data show, overhead and slide projectors and their requirements

**Course Coordinator:** Dr/Eman Abd El-Baset Mohammed

**Head of Department:** Prof. Mohammed Ali El-Torky

**Date:** 12/9/2009
Course Specification of Primary Medical Report in MD degree in Orthopedic Surgery and Traumatology

University Sohag                         Faculty of  Medicine

1. Program (s) on which the course is given: MD degree in Orthopedic Surgery and traumatology
2. Minor element of program.
3. Department offering the course: Dept. of Forensic Medicine &Clinical Toxicology
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part of Doctoral degree

A- Basic Information
Title: Medicolegal Reports & Medical Ethics
Credit Hours:
Lecture: 12.5 hours,
Practical: 25 hours.
Total: 37.5 hours.

B- Professional Information
1. Overall Aims of Course
   1. Provide basic knowledge of medicolegal aspects of different types of general and special types of wounds
   2. Provide basic knowledge of different medicolegal aspects of medical practice.
   3. Provide basic knowledge of medical ethics and malpractice.
   4. Describe the theories and principles that govern ethical decision-making,
   5. especially of the major ethical dilemmas in medicine.

2. Intended Learning Outcomes of Courses (ILOs)
   a) Knowledge and understanding:
      By the end of the course, the student is expected to be able to:
      a1. Know principles and tools to write medical reports
      a2. Define different types of wounds
      a3. Identification of firearms injuries
      a4. Understand medicolegal aspect of professional practice

   b) Intellectual Skills
      By the end of the course, the student is expected to be allowed to:
      b1. Interpret data to write medical reports efficiently

c) Professional and Practical Skills:
      By the end of the course, the student is expected to practice the following:
c1. Write and evaluate medical reports

d) General and Transferable Skills:
By the end of the course, the student is expected to be able to:
d1. Teach others how to write medical report

3. Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>The pathology of wounds, chest and abdominal injuries, self inflicted injury</td>
<td>7.5</td>
<td>1.5</td>
<td>6</td>
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<tr>
<td>The systemic effect of trauma &amp; Permanent infirmity</td>
<td>3</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Head and spinal injuries</td>
<td>5</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>The medicolegal aspects of firearm injuries</td>
<td>5</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Burn and scold</td>
<td>5</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>How to write a medicolegal report &amp; How to write death certificate</td>
<td>4</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>The medicolegal aspects of deaths associated with surgical procedures and toxicological sampling</td>
<td>3</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Obligation of physicians (towards patients, colleagues, community)</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Consent, and professional secrecy</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Types of malpractice, and items of medical responsibility</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Medicolegal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques</td>
<td>1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Ethical considerations of medical research involving human subjects</td>
<td>1</td>
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<td>-</td>
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<tr>
<td>Total hours</td>
<td>37.5</td>
<td>12.5</td>
<td>25</td>
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</table>

4. Teaching and Learning Methods

4.1- Lectures
4.2- Practical sessions with demonstration of specimens and photographs,
4.3- Small group teaching
4.4- Hospital (field) visits

5. **Student Assessment Methods**
5.1 Written exams to assess knowledge
5.2 Oral exams to assess knowledge.
5.3 Practical exam to assess **Practical skills, intellectual skills**

**Assessment Schedule**
Assessment 1: Final written exam ..........24 week
Assessment 2: Practical exam .................24 week
Assessment 3; Final oral exam .................24 week

**Weighting of Assessments**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final-term written examination</td>
<td>70%</td>
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<tr>
<td>Oral Examination</td>
<td>15%</td>
</tr>
<tr>
<td>Practical Examination</td>
<td>15%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

6. **List of References**
6.1- Course Notes made by the staff of the department
    Department notes, lectures and handouts
6.2- **Essential Books (Text Books)**
    - Simpson’s Forensic Medicine by Knight, B
    - Medical ethics. by Jones & Barlett
6.3- **Recommended Books**
6.4- Periodicals and websites:

7. **Facilities Required for Teaching and Learning:**
1- Adequate conditioned space for staff and assistants.
2- Adequate conditioned teaching facilities.
3- Audiovisual Aids: Data show, overhead and slide projectors and their requirements
4- Appropriate teaching accommodation, including museums, laboratory equipments and teaching aids (photographs, jars contain soft tissue specimens, bones, firearm cartridges and some instruments used in causing wounds).

**Course Coordinator:** Dr. Soheir Ali Mohamed
**Head of Department:** Dr. Maha Abdel Hamed Hilal
**Date:** 12/9/2009
Course Specification of Applied Anatomy in MD degree in Orthopaedic Surgery and Traumatology

University Sohag                         Faculty of Medicine
1. Program(s) on which the course is given: MD degree in Orthopaedic Surgery and traumatology
2. Minor element of program.
3. Department offering the course: Anatomy and Embryology Department
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part.

A. Basic Information
Title: Applied Anatomy
Credit Hours: 3 hs. Lecture: 15 hs.
Tutorial: Practical: 30 hs. Total: 45

B. Professional Information
1. Overall Aims of Course
By the end of the course the student should be able to have the have the professional knowledge about the anatomy and embryology upper limb, lower limb and vertebral column.

2. Intended Learning Outcomes of Course (ILOs):
   a. Knowledge and understanding:
      By the end of the course, the student is expected to be able to:
      a1. Mention the recent advances in the normal structure of the human musculoskeletal system.
      a2. Understand recent advances in the normal development of the human musculoskeletal system.
   
   b. Intellectual Skills
      By the end of the course, the student is expected to be allowed to:
b1. Interpret data acquired to understand applied anatomy of orthopedic diseases.
   
   c. Professional and Practical Skills:
      By the end of the course, the student is expected to practice the following:
c1. Master the basic and modern professional skills in surgical dissection on anatomical basis
   
   d. General and Transferable Skills:
      By the end of the course, the student is expected to be able to:
d2. Use of different sources for information and knowledge to learn more about abnormal anatomy of orthopedic diseases.
3. **Contents**

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>Introduction</td>
<td>2</td>
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<tr>
<td>Anatomy and embryology of the upper limb</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Anatomy and embryology of the vertebral column</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Anatomy of the muscles of the back</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Anatomy and embryology of the lower limb</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Anatomy and embryology of the spinal nerves</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Revision</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>30</strong></td>
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</tbody>
</table>

4. **Teaching and Learning Methods**

4.1-lectures.
4.2-practical lessons.
4.3- Assignments for the students to empower and assess the general and transferable skills

5. **Student Assessment Methods**

5.1- Assignments for the students to assess general transferable skills and intellectual skills
5.2- periodic written exam to assess Knowledge, understanding and intellectual skills.
5.3- periodic practical+ written examination to assess practical skills as well as Knowledge.
5.4 final written exam to assess Knowledge, understanding and intellectual skills.
5.5 final oral exam to assess understanding and intellectual skills.
5.6 final practical exam to assess practical skills.

**Assessment Schedule**

Assessment 1… Periodic 1… week: 10-12….
Assessment 2 … Assignment… Week: 15-16……..
Assessment 3….periodic. 2…. Week …18-20……..
Assessment 2 …Final practical exam… week: 26-28……..
Assessment 3…. Final written exam…. Week …26-28……..
Assessment 4…..Final oral exam…….. week….26-28

**Weighting of Assessments**

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<thead>
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<th>Periodic Examinations</th>
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<td>Periodic 1:</td>
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<tr>
<td>periodic. 2</td>
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<td>Final-term written examination</td>
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<td>Oral Examination</td>
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<tr>
<td>Practical Examination</td>
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<tr>
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</tbody>
</table>
6. **List of References**

6.1- **Course Notes**
Notes of the department and practical notebook

6.2- **Essential Books (Text Books)**
Gray's Anatomy

6.3- **Recommended Books**

7. **Facilities Required for Teaching and Learning**
Data show device for lectures.

Course Coordinator: Dr. Esam Salah Kamel.

Head of Department: Dr. Esam Salah Kamel.

Date: 12/9/2009
Course Specification of Surgical Pathology in MD degree in Orthopaedic Surgery and Traumatology

University Sohag                         Faculty of Medicine

1. Program (s) on which the course is given: MD degree in Orthopaedic Surgery and traumatology
2. Major or minor element of program: Minor
3. Department offering the course: Pathology Department
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part.

A- Basic Information

Title: Pathology
Credit Hours: Lecture:
Tutorial: - Practical: hrs. Total:

B- Professional Information

1. Overall Aims of Course
By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of orthopedic diseases.

2. Intended Learning Outcomes of Course (ILOs):
According to the intended goals of the faculty

a- Knowledge and Understanding:
By the end of the course the student should be able to:
   a1. Develop understanding of recent advances of general and systemic pathology.
   a2. Become familiar with etiology, pathogenesis and pathologic manifestation of diseases especially musculoskeletal & soft tissue disorders.
   a3. Define and discuss the main disease categories that may affect the body (general pathology).

b- Intellectual Skills:
By the end of the course the student should have the ability to:
   b2. Correlate gross and histopathology with the clinical basis of diseases especially musculoskeletal & soft tissue disorders.
   b3. Interpret data acquired to understand pathophysiology of orthopedic disease
   b4. Interpret in a professional manner a pathology report.

c- Professional and Practical Skills:
By the end of the course the student should have the ability to:
c1. Identify the macroscopic and microscopic criteria of the altered structure (pathology) of the body and its major organs and systems that are seen in various diseases.

c2. Identify various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, and degenerative) and mechanisms of diseases and the way through which they operate in the body (pathogenesis).

c3. Write a report commenting on a pathological specimen

d- **General and Transferable Skills:**

   By the end of the course the student should have the ability to:

d1. Teach others the surgical pathology of orthopedic disease

d2. Effectively utilize various computer based instruction tools and E-learning of Pathology and utilize a variety of computer-based self assessment tools.

3. **Course contents:**

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- General Pathology:</td>
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<tr>
<td>1.1. Inflammation &amp; repair.</td>
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<tr>
<td>1.2. Cell response to injury and aging.</td>
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<tr>
<td>1.3. Disturbances of circulation.</td>
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<tr>
<td>1.4. Fractures.</td>
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<td>1.5. Bacterial infection.</td>
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<tr>
<td>1.6. Tuberculosis &amp; Pott’s disease.</td>
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<td>1.7. Osteoporosis, rickets &amp; osteomalacia.</td>
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<td>1.9. General pathology of tumors.</td>
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<td>1.10. Genetic diseases.</td>
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<td>2- Musculoskeletal system:</td>
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<tr>
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<tr>
<td>2.2. Tumor like lesions of bone &amp; soft tissue.</td>
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<tr>
<td>2.3. Tumors of bones.</td>
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<tr>
<td>2.4. Soft tissue tumors.</td>
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<tr>
<td>2.5. Osteodystrophies.</td>
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<tr>
<td>2.6. Artheritis &amp; synovitis.</td>
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<tr>
<td>2.7. Tumors of joints.</td>
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<tr>
<td>2.8. Plasma cell dyscrasis &amp; multiple myeloma.</td>
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<tr>
<td>2.9. Bone lymphoma.</td>
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<tr>
<td>Total</td>
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</table>

4. **Teaching and Learning Methods**

   4.1. Lectures.

   4.2. Practical lessons (Jars & slides).

5. **Student Assessment Methods**

   5.1. Written examination to assess knowledge

   5.3. Oral examination to assess knowledge

**Assessment Schedule**

Assessment 1. Written examination
Assessment 2. Oral examination

**Weighting of Assessments**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>Final-term written exam</td>
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<tr>
<td>Oral Examination</td>
<td>50 %</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100 %</td>
</tr>
</tbody>
</table>

6. **List of References**

6.1- Course Notes made by staff member of the department.
6.2- Essential Books (Text Books):
   2. Robbins pathologic basis of diseases.
6.3- Recommended Books:
6.4- Periodicals, American journal of pathology
Pathology
   Human pathology

7. **Facilities Required for Teaching and Learning:**
   a. Library & textbooks.
   b. Computer & data show.
   c. Internet connection.

**Course Coordinator:**
Fatma Elzhraa

**Head of Department:**
Eman Mohammed

**Date:** 12/9/2009
Course Specification of Clinical Physiology in MD degree in Orthopaedic Surgery and Traumatology

Sohag University                        Faculty of Medicine

1. Program on which the course is given: MD degree in Orthopaedic Surgery and Traumatology
2. Major or minor element of program: Minor
3. Department offering the course: Physiology Department
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part.

A. Basic Information

Title:   Clinical Physiology
Credit Hours:      Lecture: 
Tutorial:    Practical:  hrs. Total:

B. Professional Information

1. Overall Aims of Course
   By the end of the program the postgraduate student should be able to manage orthopedic disease patients and trauma cases, and perform all of the general surgical procedures and most of special surgical procedures. Also he should master the basics of scientific research and apply the analytic methods for knowledge in the orthopedic surgery field

2. Intended Learning Outcomes of Course (ILOs):
   According to the intended goals of the faculty
   a) Knowledge and Understanding:
      By the end of the course the student should be able to:
      a1. Understand recent advances of pain transmission
      a2. Identify the effect of spinal cord injury
      a3. Know Hormonal control of Calcium haemostasis
      a4. Understand recent advances in development of shock and how to correct
      a5. Identify body response to trauma
   b) Intellectual Skills:
      By the end of the course the student should have the ability to:
      b1. Interpret data acquired to understand pathophysiology of orthopedic disease
   c) Professional and Practical Skills:
      By the end of the course the student should have the ability to:
      c1. assess the function of the skeletal system.
      c2. identify the conditions with acid base disturbance
   d) General and Transferable Skills:
      By the end of the course the student should have the ability to:
      d1. Teach others the physiology of the musculoskeletal system and its relation to orthopedic disease

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3. **Course contents:**

4. **Teaching and Learning Methods**
   4.1. Lectures.

5. **Student Assessment Methods**
   5.1. Written examination to assess knowledge.
   5.3. Oral examination to assess knowledge.

   **Assessment Schedule**
   Assessment 1. Written examination……..24 Week
   Assessment 2. Oral examination……….24 Week

   **Weighting of Assessments**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Final-term written examination</td>
<td>50 %</td>
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<tr>
<td>Oral Examination</td>
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<tr>
<td>Practical Examination</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100 %</strong></td>
</tr>
</tbody>
</table>

6. **List of References**
   6.1- Course Notes made by physiology department
   6.2- Essential Books (Text Books):
         Guyton textbook of physiology

7. **Facilities Required for Teaching and Learning:**
   a. Library & textbooks.
   b. Computer & data show.
   c. Internet connection.

**Course Coordinator:** Dr. Nawal Badawy Ali

**Head of Department:** PROF: Maneriva Fahmy Kamel

**Date:** 12/9/2009
Course Specification of Biomechanics in MD degree in Orthopaedic Surgery and Traumatology

University Sohag
Faculty of Medicine

1. Program on which the course is given: MD degree in Orthopaedic Surgery and Traumatology
2. Major or minor element of program: Minor
3. Department offering the course: Orthopaedic Surgery and Traumatology Department
4. Department offering the program: Orthopedic Surgery and Traumatology Department
5. Academic year / Level: 1st part.

A. Basic Information

Title: Biomechanics

B. Professional Information

1. Overall Aims of Course
   By the end of the course the post graduate students should be able to have the professional knowledge of the biomechanics of orthopedic diseases.

2. Intended Learning Outcomes of Course (ILOs):
   According to the intended goals of the faculty
   a- Knowledge and Understanding:
      By the end of the course the student should be able to:
      a1. Mention the recent advances in the normal function of the human musculoskeletal system from the mechanical point of view

   b- Intellectual Skills:
      By the end of the course the student should have the ability to:
      b1. Interpret data acquired to understand biomechanics of orthopedic diseases.

   c- Professional and Practical Skills:
      By the end of the course the student should have the ability to:
      c1. Design new methods and tools to evaluate biomechanics of orthopedic disease.

   d- General and Transferable Skills:
      By the end of the course the student should have the ability to:
      d1. Teach others the biomechanics of orthopedic disease

3. Course contents:

4. Teaching and Learning Methods
   4.1. Lectures.
   4.2. Practical lessons

5. Student Assessment Methods
   5.1. Written examination to assess knowledge
   5.3. Oral examination to assess knowledge.
Assessment Schedule

Assessment 1. Written examination…..24 Week
Assessment 2. Oral examination………24 Week

Weighting of Assessments

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>Final-term written examination</td>
<td>50 %</td>
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<tr>
<td>Oral Examination</td>
<td>50 %</td>
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<tr>
<td>Total</td>
<td>100 %</td>
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6. List of References

7. Facilities Required for Teaching and Learning:
   a. Library & textbooks.
   b. Computer & data show.
   c. Internet connection.

Course Coordinator: Dr. Ahmad Addosooki

Head of Department: Prof. Dr. Anis Shiha

Date: 12/9/2009
Course Specification of Orthopaedic Surgery and Traumatology in MD degree in Orthopaedic Surgery and Traumatology

Sohag University Faculty of Medicine

1. Program (s) on which the course is given: MD degree in Orthopaedic Surgery and Traumatology

2. Major element of program.

3. Department offering the course: Orthopaedic Surgery and Traumatology department

4. Department offering the program: Orthopedic Surgery and Traumatology Department

5. Academic year / Level: 1st part.


A- Basic Information

Title: Orthopaedic Surgery and Traumatology
Credit Hours: 3 hs. Lecture: 15 hs.
Tutorial: Practical: 30 hs. Total: 45

B- Professional Information

1. Overall Aims of Course

By the end of the program the student should be able to manage orthopedic disease patients and trauma cases, and perform all of the general surgical procedures and most of special surgical procedures. Also he should master the basics of scientific research and apply the analytic methods for knowledge in the orthopedic surgery field.

2. Intended Learning Outcomes of Course (ILOs):

a. Knowledge and understanding:

By the end of the course, the student is expected to be able to:

a1. Mention the relation of the recent advances in the normal structure and function of the human musculoskeletal system to surgical procedures.

a2. Understand recent advances in the normal growth of the human musculoskeletal system.

a3. List the recent advances in the abnormal structure, function, growth and development of human musculoskeletal system.

a4. Understand recent advances in the natural history of orthopedic diseases and traumatology problems.

a5. Understand recent advances in the causation of orthopedic diseases and traumatology problems and their pathogenesis.

a6. Enumerate recent methods of fixation of different fracture pattern.

a7. List the clinical picture and differential diagnosis of orthopedic diseases.

a8. Enumerate recent advances in the common diagnostic and laboratory techniques necessary to establish diagnosis of orthopedic diseases.

a9. Describe recent advances in the various therapeutic methods/alternatives used for orthopedic diseases.

a10. Understand recent advances in the knowledge of the general surgery.

a11. Define recent advances in the trauma management.
a12. Know the principles and fundamentals of quality assurance of professional practice in the field of orthopedic surgery and traumatology.

b. **Intellectual Skills**
   By the end of the course, the student is expected to be able to:
   b1. Interpret data acquired through history taking to reach a provisional diagnosis for orthopedic diseases.
   b2. Select from different diagnostic alternatives the ones that help reaching a final diagnosis for orthopedic diseases.
   b3. Conduct research studies that add to knowledge.
   b4. Formulate scientific papers in the area of orthopedic surgery and traumatology.
   b5. Assess risk in professional practices in the field of orthopedic surgery and traumatology.
   b6. Plan to improve performance in the field of orthopedic surgery and traumatology.
   b7. Identify orthopedic and traumatology problems and find solutions.
   b8. Have the ability to innovate nontraditional solutions to orthopedic and traumatology problems.
   b9. Criticize researches related to orthopedic surgery and traumatology.

c. **Professional and Practical Skills:**
   By the end of the course, the student is expected to be able to:
   c1. Master the basic and modern professional clinical and surgical skills in the area of orthopedic surgery and traumatology.
   c2. Evaluate and develop methods and tools existing in the area of orthopedic surgery and traumatology.
   c3. Perform endoscopic and imaging evaluation of orthopedic problems.
   c4. Train junior staff through continuous medical education programs.
   c5. Design new methods, tools and ways of professional practice.

d. **General and Transferable Skills:**
   By the end of the course, the student is expected to be able to:
   d1. Present reports in seminars effectively.
   d2. Use appropriate computer program packages for computer assisted navigation surgery.
   d3. Teach others orthopedic surgery and traumatology and evaluate their performance.
   d4. Assess himself and identify his personal learning needs.
   d5. Use of different sources for information and knowledge of orthopedic diseases and traumatology.
   d6. Manage scientific meetings according to the available time.

3. **Contents**

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>GENERAL PRINCIPLES</td>
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<tr>
<td>* Surgical Techniques and Approaches</td>
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<tr>
<td>ARTHRODESIS</td>
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<tr>
<td>* Arthrodesis of Ankle, Knee, and Hip</td>
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<td>* Arthrodesis of Shoulder, Elbow, and Wrist</td>
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<td>ARTHROPLASTY</td>
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<td>*Introduction and Overview</td>
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<td>* Arthroplasty of Ankle and Knee</td>
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| AMPUTATIONS |
| General Principles of Amputations |
| Amputations About Foot |
| Amputations of Lower Extremity |
| Amputations of Hip and Pelvis |
| Amputations of Upper Extremity |
| Amputations of Hand |

| INFECTIONS |
| General Principles of Infection |
| Osteomyelitis |
| Infectious Arthritis |
| Tuberculosis and Other Unusual Infections |

| TUMORS |
| *General Principles of Tumors |
| *Benign Tumors of Bone |
| *Benign (Occasionally Aggressive) Tumors of Bone |
| *Malignant Tumors of Bone |
| * Soft Tissue Tumors and Nonneoplastic Conditions Simulating Bone Tumors |

| NONTRAUMATIC SOFT TISSUE DISORDERS |
| * Nontraumatic Soft Tissue Disorders |
| * Miscellaneous Nontraumatic Disorders |

| CONGENITAL ANOMALIES |
| * Congenital Anomalies of Lower Extremity |
| * Congenital and Developmental Anomalies of Hip and Pelvis |
| * Congenital Anomalies of Trunk and Upper Extremity |

| OSTEOCHONDROSIS |
| Osteochondrosis or Epiphysitis and Other Miscellaneous Affections |
NEUROUS SYSTEM DISORDERS IN CHILDREN

Cerebral Palsy
Paralytic Disorders
Neuromuscular Disorders

FRACTURES AND DISLOCATIONS IN CHILDREN

THE SPINE

* Spinal Anatomy and Surgical Approaches
* Fractures, Dislocations, and Fracture-Dislocations of Spine
* Arthrodesis of Spine
* Pediatric Cervical Spine
* Scoliosis and Kyphosis
* Lower Back Pain and Disorders of Intervertebral Discs
* Infections of Spine
* Other Disorders of Spine

SPORTS MEDICINE

Ankle Injuries
Knee Injuries
Shoulder and Elbow Injuries
Recurrent Dislocations
Traumatic Disorders

ARTHROSCOPY

General Principles of Arthroscopy
Arthroscopy of Lower Extremity
Arthroscopy of Upper Extremity

FRACTURES AND DISLOCATIONS

General Principles of Fracture Treatment
Fractures of Lower Extremity
Fractures of Hip
Fractures of Acetabulum and Pelvis
Fractures of Shoulder, Arm, and Forearm
Malunited Fractures
Delayed Union and Nonunion of Fractures
Acute Dislocations
Old Unreduced Dislocations
### PERIPHERAL NERVE INJURIES

### MICRO SURGERY

### THE HAND

- Basic Surgical Technique and Aftercare
- Acute Hand Injuries
- Flexor and Extensor Tendon Injuries
- Fractures, Dislocations, and Ligamentous Injuries
- Nerve Injuries
- Wrist Disorders
- Special Hand Disorders
- Paralytic Hand
- Cerebral Palsy of the Hand
- Arthritic Hand
- Compartment Syndromes and Volkmann Contracture
- Dupuytren Contracture
- Carpal Tunnel, Ulnar Tunnel, and Stenosing Tenosynovitis
- Tumors and Tumorous Conditions of Hand
- Hand Infections
- Congenital Anomalies of Hand

### THE FOOT AND ANKLE

- Surgical Techniques
- Disorders of Hallux
- Pes Planus
- Lesser Toe Abnormalities
- Rheumatoid Foot
- Diabetic Foot
- Neurogenic Disorders
- Disorders of Nails and Skin
- Disorders of Tendons and Fascia
- Fractures and Dislocations of Foot

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4. **Teaching and Learning Methods**

4.1 Lectures.

4.2 Practical / surgical /clinical lessons

4.3 Discussion sessions.

4.4 Information collection from different sources.

4.5 Attending and participating in scientific meeting and workshops

5. **Student Assessment Methods**
5.1- Student assignments: to assess general transferable skills and intellectual skills
5.2 Written examination: to assess knowledge.
5.3 Clinical examination: to assess practical and intellectual skills.
5.4 Oral examination: to assess knowledge.

**Assessment Schedule**

Assessment 1 … Assignment…. .Week: 30-31
Assessment 2 … Written exam…Week: 96
Assessment 3…. Clinical exam…Week: 96
Assessment 4….. Oral exam……..Week: 96

**Weighting of Assessments**

Final-Written Examination …………… Separate exam
Passing in the written exam is a condition to attend the following exams

<table>
<thead>
<tr>
<th>Assessment</th>
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<tbody>
<tr>
<td>Oral Examination</td>
<td>50%</td>
</tr>
<tr>
<td>Clinical Examination</td>
<td>50%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Formative only assessment: single research assignment, log book, attendance and absenteeism

6. **List of References**

6.1- Essential Books (Text Books)
Campell"s Operative Orthopedic

6.2- Recommended Books:
- Manual of internal fixation
- Stanley"s Surgical approaches

7. **Periodicals and Web Sites:**
Spine Journal
British bone and joint Journal
American bone and joint Journal
Journal of hand and microsurgery
Clinical Orthopedic Journal

8. **Facilities Required for Teaching and Learning**

- Adequate infrastructure including teaching rooms, comfortable desks.
- Teaching tools including screen, slide Projector, computer and data show.

**Course Coordinator:** Dr .Ahmad Addosooki

**Head of Department:** Prof.Dr.Anis Shiha

**Date:** 12/9/2009