



# وحدة ضمان الجودة Quality Assurance Unit (QAU)



Program Specifications of MS degree in Medical  
Parasitology,  
Qena Faculty of Medicine,  
South Valley University

كود البرنامج : PAR208

N.	Courses	Code	Coordinator		Head of the department	
			Name	Signature	Name	Signature
1	Biostatistics + Computer	PAR209	Aml omer		Prof/ Ahmed Han	
2-	Community medicine	PAR209	Aml omer		Prof/ Ahmed Han	
3	Microbiology and immunology	PAR207	Prof/Moham med Elfaky		Prof/Mohammed Elfaky	
4	Clinical Pathology	PAR231			Hana	
5	Biochemistry	PAR204	Dr /mohammed hosni		Prof/ Tahia	
6	Tropical medicine	PAR223	Dr/Hassan sedik		Prof/ ali abdelrahman	
7	Medical parasitology	PAR208	Eman Abdelazeem		Dr/ Osama hussein	

Program Coordinator  
Eman Abdelazeem

Head of medical parasitology  
department  
Dr/Osama hussein

رؤية كلية طب قنا : الريادة في التعليم والبحث العلمي الطبي لخدمة إقليم الجامعة والشراكة الفاعلة في الارتقاء بالمنظومة الطبية محلياً و دولياً.  
رسالة كلية طب قنا : نلتزم كلية طب قنا - جامعة جنوب الوادي بتخريج أطباء قادرين على تلبية الإحتياجات الطبية الإقليمية وإعداد باحثين قادرين على تطوير المنظومة الصحية بمستوى بحثى عالى تنافسي وتقديم خدمات متميزة فى إطار الحفاظ على ضوابط وأخلاقيات المهنة والقيم المجتمعية من خلال تطوير البحث العلمى والبرامج التعليمية واليات التعليم الطبي المستمر.



مصنوفه توافق المعايير القوميه القياسيه العامه لبرامج الدكتوراه مع المعايير الاكاديميه المعتمده من كليه الطب جامعه جنوب الوادي لدرجه الدكتوراه في الطفيليات الطبيه

## 1- Graduate attributes

### General Academic reference standards (GARS) versus program ARS

Faculty ARS	NAQAAE General ARS for Postgraduate Programs
1-Mastering the basics and principles of scientific research	1- إتقان اساسيات ومبادئ البحث العلمى
2-Work to add knowledge constantly in medical parasitology field	2- العمل علي زياده المعرفه العلميه في مجال الطفيليات الطبيه
3-Analysis and critique of knowledge to continuously update and related basic sciences in the medical parasitology field	3- التحليل والنقد للمعارف والمجالات ذاتن علاقه في مجال التخصص
4- Mixing the specialized knowledge with the knowledge of the underlying relationship in the basic biomedical clinical and behavioral and clinical and medical ethics and medical jurisprudence and developing the inter-relationship between them	4- المزج بين المعارف المتخصصه مع المعارف ذات العلاقه المستبطه وتطوير العلاقات البينيه بينهم
5- appropriate and effective dealing with health problems and health promotion Show deep awareness of all current problems and modern theoretical solutions in the field of specialization	5- اظهار الوعي العميق بكافه المشكلات الجاربه وطرق الحل الحديثه النظرية في مجال التخصص
6-Identify occupational problems and find innovative solutions to them	6- تحديد المشكلات المهنيه وايجاد حلول مبتكره لها



8-Improvement and development of update diagnostic methods for the field	8- التوجه نحو تطوير طرق وادوات واساليب جديده لمزاولة المهنة
9-Use of recent technology to improve the field practice and application	9-المهنة استخدام التكنولوجيا الحديثه المناسبه بما يخدم ممارسه
10-Showing leadership competencies including interpersonal and communication skills that ensure effective information exchange in different professions fields	10-القياده والتواصل بفاعليه لفريق العمل في مختلف السياقات المهنيه المختلفه
11-Master decision making capabilities in different solutions related to medical parasitology	11-استخدام المتوفر من المعلومات في اتخاذ القرار
12-Effective use and updating of already available information and make use of it effectively	12- تنميه وتوظيف المعلومات المتاحة بكفاءه والبحث عن الجديد
13-Demonstration of its role in community development and health policy issues for proper environmental maintenance	13- الوعي بدوره في تنميه المجتمع والحفاظ علي البيئه
14-Show model attitude and professionalism	14- التصرف بالنزاهه والمصداقيه مع مراعاة اداب المهنة
15-Share in updating and transfer knowledge and experience to others	15- الالتزام بالتنميه المستمره مع نقل العلم والخبرات للاخرين



## II- Program ILOs Vs NAQAEE general standard references

2-Program ILOs	NAQAEE general standard references
<b><u>A- Knowledge and understanding</u></b> المعرفة والفهم خريج برنامج الدكتوراه في أي تخصص يجب أن يكون قادرا على:	
<b><u>2-1- Knowledge and understanding</u></b> <b>2-1-A-</b> Demonstrate in-depth knowledge and awareness of hypotheses, basics and updated biomedical, clinical epidemiological and socio-behavioral sciences appropriate to his field of study as well as the proof – based implementation of this awareness to patient care.	1.1.2- النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة
<b>2-1-B-</b> Explain fundamentals of scientific medicine, clinical research, methods, tools and ethics.	2.1.2- أساسيات ومنهجيات وأخلاقيات البحث العلمي وأدواته المختلفة
<b>2-1-C-</b> Mention of ethical, medical, logical concepts and regulations appropriate to his medical parasitology practice	3.1.2- المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص.
<b>2-1-D-</b> Mention of concepts and measures of quality control and enhancement in quality in medical education and medical parasitology practice.	4.1.2- مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص.
<b>2-1-E-</b> Mention of system of healthcare, global health and health policy, topics related to his field, and program values and practices – focused on enhancing patient care in specific medical parasitology health problems.	5.1.2- المعارف المتعلقة بآثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها.
<b><u>B- Intellectual skills</u></b> ٢.٢ المهارات الذهنية	
<b>2-2-A-</b> Apply the fundamental and clinically effective sciences relevant for conditions / problem / themes related to medical parasitology	1.2.2- تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها.
<b>2-2-B-</b> Reveal a "question" of critical and logical thought-solving "clinical situation approaches related to medical parasitology	2.2.2- حل المشاكل المتخصصة استنادا على المعطيات المتاحة
<b>2-2-C-</b> Conduct research studies that add to knowledge.	3.2.2- إجراء دراسات بحثية تضيف إلى المعارف.
<b>2-2-D-</b> Drafting of scientific papers.	4.2.2- صياغة أوراق علمية.
<b>2-2-E-</b> Risk assessment of professional practices	5.2.2- تقييم المخاطر في الممارسات المهنية.



<b>2-2-F-</b> Plan for quality improvement in the field of medical education and clinical practice in his specialty.	<b>6.2.2-</b> التخطيط لتطوير الأداء في مجال التخصص.
<b>2-2-G-- Develop / develop plans, systems and other performance enhancement concerns in his practice.</b>	<b>7.2.2</b> اتخاذ القرارات المهنية في سياقات مهنية مختلفة .
<b>2-2-H-</b> Creativity / innovation in the field of specialty.	<b>8.2.2-</b> الإبداع/ الابتكار.
<b>2-2-I-</b> -- Revise management strategies and solutions in medical parasitology field	<b>9.2.2-</b> الحوار والنقاش المبني على البراهين والأدلة.
<b><u>C- Professional and practical skills</u></b>	
٣.٢ المهارات المهنية	
<b>2-3-1-A-</b> Provide a caring, reasonable and efficient standard of patient care for the treatment of health problems and for health promotion. P.s. Extensive level means an in-depth understanding of basic science to evidence-clinical implementation and skills-based management of all practical problems independently. <b>2-3-1-B-</b> Offer good comprehensive care for patients with all specific conditions and for uncomplicated field procedures <b>2-3-1-C-</b> Include an extensive level of patient safety for non-routine, complex and difficult patients and in extremely difficult conditions, while showing compassion, adequacy and effectiveness. <b>2-3-1-D-</b> Run diagnostic and therapeutic procedures that are considered important in medical parasitology <b>2-3-1-E-</b> Control unforeseen problems, thereby showing concern and attention to the needs and concerns of patients. <b>2-3-1-F-</b> Communicate effectively and display compassionate and supportive attitudes in circumstances related to medical parasitology	<b>1.3.2-</b> إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.



when communicating with patients.	
<b>2-3-1-G-</b> Acquire important and reliable knowledge about the conditions applicable to medical parasitology field	<b>2.3.2-</b> كتابة وتقييم التقارير المهنية.
<b>2-3-1-H</b> Make better decisions on diagnostic and therapeutic measures based on patient information and inclinations, up-to-date scientific proof and clinical decision on conditions associated with medical parasitology <b>2-3-1-I-</b> Design and implement patient care plans for conditions specific to medical parasitology	<b>3.3.2-</b> تقييم وتطوير الطرق والأدوات القائمة في مجال التخصص.
<b>2-3-1-J.</b> Use information technology to support patient care decisions and patient education in all medical parasitology related clinical situations. <b>2-3-1-k-</b> Supply health care services to avoid health problems related to medical parasitology.	<b>4.3.2-</b> استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية.
<b>2-3-1-l-</b> Lead health care professionals to provide patient-focused care in situations related to medical parasitology including those from other disciplines.	<b>5.3.2-</b> التخطيط لتطوير الممارسة المهنية وتنمية أداء الآخرين.
<b>D- <u>General and transferable skills</u></b>	٢. ٤ المهارات العامة والمنقلة
<b>2-3-2-A-</b> Demonstrate the competency of continuous evaluation of different types of care provision to patients in the different area of medical parasitology <b>2-3-2-B-</b> Appraise scientific evidence. <b>2-3-2-C--</b> A continual enhancement in patient care focused on constant self-assessment and lifelong learning. <b>2-3-2-D.</b> -- Participate in research and clinical assessment projects	<b>1.4.2-</b> التواصل الفعال بأنواعه المختلفة.



<p><b>2-3-2-E-</b> Practice Evidence-based Medicine (EBM) skills.</p> <p><b>2-3-2-G-</b> Design logbooks.</p>	
<p><b>2-3-2-H-</b> Development of medical guidelines and standard management protocols.</p> <p><b>2-3-2-I-</b> Appraise facts specific to the physicians from scientific health problems studies</p> <p>.</p>	<p><b>2.4.2-</b> استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية.</p>
<p><b>2-3-2-J-</b> Connect experience of styles of research and statistical methods to the evaluation of clinical trials and Educate and evaluate all members related to the field.</p>	<p><b>3.4.2-</b> تعليم الآخرين وتقييم أداءهم.</p>
<p><b>2-3-2-K-</b> Use information technology to manage information, access on- line medical information; for the important topics.</p>	<p><b>4.4.2-</b> التقييم الذاتي والتعلم المستمر</p>
<p><b>2-3-2-L</b> Use different sources to obtain information and knowledge</p>	<p><b>5.4.2-</b> استخدام المصادر المختلفة للحصول على المعلومات والمعارف.</p>
<p><b>2-3-2-M</b> Lead health care professionals to provide patient-focused care in situations related to medical parasitology including those from other disciplines.</p>	<p><b>6.4.2-</b> العمل في فريق وقيادة فرق العمل.</p>
<p><b>2-3-2-N-</b> Interpersonal and communication skills mastering resulting in successful communication and cooperation with patients, their friends, and medical professionals</p> <p><b>2-3-2-O-</b> Establish and maintain a therapeutically and ethically sound relationship with patients.</p> <p><b>2-3-2-P-</b> Using powerful nonverbal, informative, questioning and writing skills to request and provide information.</p> <p><b>2-3-2-Q-</b> Work effectively with others as a health care team member or representative, or other professional group.</p> <p><b>2-3-2-R-</b> Prove respect, compassion and integrity; respond to patient and social needs.</p>	<p><b>7.4.2-</b> ادارة اللقاءات العلمية والقدرة علي إدارة الوقت..</p>



### III- Program ILOs Versus Courses ILOs

	Courses	Program ILOs			
		A- Knowledge and understanding	B- Intellectual skills	C- Professional and Practical skills	D- General and Transferable skills
1	<b>Applied Biostatistics and Computer use</b>	<p>-A1- Mention sufficient knowledge of the parasites affecting human beings all over the world and zoonosis.</p> <p>A2- Define the geographical distribution and life cycle of each, inside and outside the body..</p>	<p>b3- Differentiate between parasites inhabiting the same geographical location</p> <p>B6- Select from the different diagnostic tools the ones that help help reaching a final diagnosis in the field of medical parasitology.</p>	<p>c1- Identify the infective and the diagnostic stages of the parasites</p>	<p>d1 Use appropriate computer program packages.</p> <p>D3 Present reports in seminars effectively.</p> <p>d7- Collect data from medical centers and patients.</p>
2	<b>Research methods for health services</b>	<p>a1. Define terms of research methodology</p> <p>a2. Describe the spectrum of research methodology</p> <p>a3. Explain the strategies and design of researches</p> <p>a4. Describe the sampling methods</p> <p>a5. List at least four types of study design</p> <p>a6. Describe the study design, uses, and limitations</p> <p>a7. Define causation and association</p> <p>a8. Describe bias and confounding</p> <p>a9. Explain evidence</p>	<p>b1. Apply research methods to different community health problems</p> <p>b2. Identify and collect data variables impacting health and disease</p> <p>b3. Apply appropriate research strategies for use</p> <p>b4. Select and use appropriate research methods</p> <p>b5. Advocate</p>	<p>c1. Perform a research proposal for community diagnosis</p> <p>c2. Design questionnaires</p> <p>c3. Conduct researches</p> <p>c4. Diagnose bias and confounding factors</p> <p>c5. Detect association and causation</p>	<p>d1. Use standard computer programs for statistical analysis effectively.</p> <p>d2. Utilize computers in conducting researches.</p> <p>d3. Manage a group of data entry</p> <p>d4. Analyze and interpret data</p>





		<p>based Medicine</p> <p>a10. Calculate different samples sizes</p> <p>a11. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests</p> <p>a12. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values</p> <p>a13. Define the sources of data and methods of collection</p> <p>a14. Describe five sampling techniques and list at least three advantages of sampling</p> <p>a15. Summarize data, construct tables and graphs</p> <p>a16. Calculate measures of central tendency and measures of dispersion</p> <p>a17. Describe the normal curves and its uses</p> <p>a18. Interpret selected tests of significance and the inferences obtained from such tests</p> <p>a19. Build a model explaining the research methods and analysis of determinants of human diseases and health problems</p>	<p>appropriately in the research design</p> <p>b6. Activate and mobilize the community toward evidence based medicine</p>		
3	<b>Microbiology and immunology</b>	<p>A1- List the microorganisms affecting human beings all over the world particularly those related to parasites.</p> <p>A2- Describe the metabolism and genetics of organisms.</p>	<p>b1- Differentiate between the different microorganisms (Bacteria, viruses and fungi)</p> <p>B2- Differentiate between the</p>	<p>c1 Recognize micro-organisms on morphological bases.</p> <p>c2 Identify and perform the methods of staining,</p>	<p>D1-.Use the computer and internet to gather scientific informations.</p> <p>D2- Practice group co-ordination.</p>



		<p>A3- Describe the pathology, clinical symptoms and complications of each disease.</p> <p>A4- Summarize the laboratory tests needed for diagnosis of each case.</p> <p>A5- Name some of the drugs and instructions used for treatment of each case.</p> <p>A6- Describe some infection control methods</p> <p>A7- Describe the structure and function of immune system</p>	<p>different types of bacteria on the bases of staining and culturing methods.</p> <p>b3- Differentiate between organisms affecting the same body parts</p>	<p>culturing and biochemical reactions</p> <p>c3 Recognize and perform some serological tests used in diagnosis.</p> <p>c4 Handle of samples. demonstrating compassionate, appropriate and effective care.</p>	
5	<b>Genetics</b>	<p>a1: List and identify the stages of mitosis and meiosis, as well as the cell cycle, and explain the significance of each</p> <p>a.2: Know the chemical nature of genetic material (DNA &amp; RNA)</p> <p>a.3: Know how the DNA is organized to serve as genetic materials (gene and genome)</p> <p>a.4: Know the normal chromosome (structure &amp; number).</p> <p>a.5: Understand how the genetic information</p>	<p>b1-Integrate and evaluate genetic information and data from a variety of sources in order to gain a coherent understanding of theory and practice.</p> <p>b2- Find and evaluate new solutions to many kinds of Genetic problems</p>	<p>C1- Self-confidence.</p> <p>C2. Think scientifically.</p> <p>C3. Create the tendency to apply the knowledge in the clinical fields..</p>	<p>d- Plain research projects.</p>



		<p>transferred to RNA during the process of transcription.</p> <p>a.6: Identify the genetic code</p> <p>a.7: Know the translation of genetic information on mRNA into polypeptide chains</p> <p>.. 8: Understand gene mutation and DNA repair on the molecular levels.</p> <p>a.9: Identify chromosomal numerical and structural aberrations.</p> <p>a.10: know the basic concepts of Mendelian and non Mendelian inheritance.</p> <p>a.11: Identify the various types of chromosomal disorders and biochemical genetics.</p> <p>a.12: Understand the new concepts of DNA technology.</p> <p>A13: Gain the knowledge of the use of this technology in the advances disease diagnosis.</p>			
6	<p><b>Medical Parasitology</b></p>	<p>A1.Gain sufficient knowledge of the parasites affecting human beings all over the world and zoonosis.</p> <p>A2.Understand the geographical distribution and life cycle of each, inside and outside the body.</p> <p>A3.Differentiate between parasites on morphological bases.</p> <p>A4.Have the knowledge to recognize the pathology, clinical</p>	<p>B1.Differentiate between parasites affecting the same organ.</p> <p>B2.Differentiate between parasites present in the same sample.</p> <p>B3.Differentiate between parasites inhabiting the same geographical</p>	<p>c1.Identify the infective and the diagnostic stages of the parasites</p> <p>C2.Identify different stages of the parasites.</p> <p>C3.Identify some of the medically important intermediate host especially those present in Egypt.</p>	<p>D1.Use the computer to enter parasitological web sites.</p> <p>d2.Collect scientific data from the computer.</p> <p>d3. Work in groups, as a leader or as a college.</p> <p>D4.Collect data from medical canters and</p>



		<p>symptoms and complications of each parasite.</p> <p>A5. Have the knowledge of the recommended laboratory tests needed for diagnosis of each case.</p> <p>A6. Have the knowledge of some of the drugs and instructions used for treating each case.</p> <p>A7. Have the knowledge about control methods used against parasites.</p> <p>A8. Have sufficient knowledge about snails and their medical importance, especially of Egypt.</p> <p>a9. Have the knowledge of parasitic immunity basis</p>	<p>location.</p> <p>B4. Criticize in a scientific pattern at least 15 published papers in the different branches of Medical Parasitology (parasite distribution and public health or statistics, lab. Animals and pathology of parasites or drugs, parasites and immunology, snails....etc</p>	<p>C4. Perform some laboratory tests available in the department lab.</p> <p>C5. Perform available immunological tests.</p> <p>C6. Deal with lab animals: infecting, sacrifice, dissecting and examining.</p> <p>C7. collecting and rearing of snails or medically important arthropods.</p> <p>c8. A box of at least 75 prepared slides of different entities are required.</p> <p>c9. Attending and participating in scientific conferences, meetings, workshops and thesis discussion that update relevant recent topics in molecular biology, relevant biochemical and genotyping of parasites, and emerging parasitic problems</p>	<p>patients.</p> <p>D5. Compile a review article about a specific subject. (90 hs.)</p>
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**Course Coordinator**  
Eman Abdelazeem



**Head of Department**  
Dr. Osama Hussein



***Master (M.Sc.) Degree Program and Courses  
Specifications for Parasitology***

***Medical Parasitology Department  
Faculty of medicine South valley University  
2017-2018***

## **A. Basic Information**

1. Program title: MSc. Degree of Medical Parasitology
2. Program type: Multiple
3. Departments: (Major= 1 + minor= 1 +Optional =1) Medical Parasitology + Biostatistics and computer research + one of the optional courses: Biochemistry, Tropical Medicine, Clinical Pathology, Microbiology and immunity and Community Medicine.
4. Coordinator: Dr. **Asmaa mohammed ahmed Elkady**.
5. Academic year: 2017-2018

## **B. B- Professional Information:**

### **1. Program aims:**

The aim of this program is to provide the postgraduate student with the medical knowledge and skills essential for practice of speciality and necessary to gain further training and practice in the field of medical parasitology through providing:

1. Scientific knowledge essential for practice medical parasitology according to the international standard.
2. Skills necessary for applying the scientific analytic methods in medical parasitology using available resources and saving the environment.
3. Ethical principles related to the practice in this speciality.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education with ability to teach and train others to develop themselves in the field of medical Parasitology.
6. Maintenance of self-learning, modern technological aids and research abilities necessary for continuous professional development.

### **2. Intended learning outcomes (ILOs):**

#### **a- Knowledge and Understanding:**

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

- a1. Mention sufficient knowledge of the parasites affecting human beings all over the world and zoonosis.
- a2. Explain the geographical distribution and life cycle of each, inside and outside the body.
- a3. Describe the parasites on morphological bases.
- a4. Mention the pathology, clinical symptoms and complications of each parasite.
- a5. List the laboratory tests needed for diagnosis of each case.
- a6. List the drugs and instructions used for treating each case.
- a7. Define the control methods used against parasites.
- a8. Explain sufficient knowledge about snails and their medical importance, especially of



Egypt.

a9. Have the knowledge of parasitic immunity bases.

a10. Acquire sufficient knowledge about the environment.

a11. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of medical parasitology.

a12. know the principles and fundamentals of quality of professional practice in the field of medical parasitology.

a13. Understand the effect of professional practice on the environment and the methods of environmental development and maintenance .

a14. Know the basics and ethics of scientific research.

**b- Intellectual Skills:**

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

b1. conclude Different parasites affecting the same organ.

b2. Differentiate between parasites present in the same sample.

b3. Differentiate between parasites inhabiting the same geographical location.

b4. Analyze given data and use it in problem solving.

b5. Use self learning skills in solving problems.

b6. Select from the different diagnostic tools the ones that help reaching a final diagnosis in the field of medical parasitology.

b7. Conduct a research study and / or write a scientific study on a research problem.

b8. Use analytical skills in anticipating risks.

b9. Plan to improve performance in the field of medical parasitology.

b10. Identify parasitological problem and find solutions for it.

b11. Analyz research and issues related to the medical parasitology.

**c- Professional and Practical Skills:**

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

c1. Master the basic and modern professional skills in the area of medical parasitology

c2. Identify the infective and the diagnostic stages of the parasites

c3. Identify some stages of the parasites.

c4. Identify some of the medically important intermediate host especially those present in Egypt.

c5. Write and evaluate parasitological reports.

**Perform one or more of the following skills:**

c6. Perform some laboratory tests available in the department lab.

c7. Perform available immunological tests.

- c8. Deal with lab animals: infecting, sacrifice, dissecting and examining.
- c9. Collecting and rearing of snails or medically important arthropods.
- c10. A box of at least 75 prepared slides of different entities are required.
- c11. Attending and participating in scientific conferences, meetings, workshops and thesis discussion that update relevant recent topics in molecular biology, relevant biochemical and genotyping of parasites, and emerging parasitic problems.

**d- General and Transferable Skills:**

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

- d1. Use the computer to enter parasitological web sites.
- d2. Collect scientific data through the computer.
- d3. Work in groups, as a leader or as a college.
- d4. Use clear parameters in assessment of others.
- d5. Collect data from medical centers and patients.
- d6. Develop rules and indicators for assessing the performance of others.
- d7. Work in a team, and team's leadership in various professional contexts.
- d8. Manage time efficiently
- d9. Use the sources of biomedical information to remain current with advances in knowledge and practice (self learning).
- d10. Maintain a professional image in manner, dress, speech as well as the interpersonal relationships.
- d11. Work within limits of knowledge and experience.
- d12. Participate in the medical progress by having the basis of medical research studies.

**3. Academic Standards:**

Qena faculty of medicine adopted the general National Academic Reference Standards (NARS) provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs. Based on these NARS; Academic Reference Standards (ARS) were suggested for this program.

**4- Curriculum structure and contents:**

**4.a- Programme duration:** 6 semesters (3 years).

**4.b- Programme structure:**

4.b.i- Number of hours per week:

الساعات المعتمدة	عدد الساعات		مدة الدراسة	المقررات	البند
	عملي	نظري			
13	120	135	فصل دراسي واحد	١- يتم اختيار مقرر واحد فقط : - ميكروبيولوجيا - باثولوجيا إكلينيكية	PAR2 07
13	120	135		- كيمياء حيوية	PAR2 31
13	120	135		- طب مجتمع	PAR2 04
13	120	135		- طب مناطق حارة	PAR2 09
13	120	135		٢ - إحصاء طبي وكمبيوتر وأساليب بحث علمي	PAR2 23
2	30	15			PAR2 09
15	150	150			مجموع الساعات
			٣ فصول دراسية	مقرر علمي و عملي في الطفيليات الطبية و يشمل:- - ديدان طبية وقواقع طبية - حشرات طبية	PAR2 08
				- الطفيليات وحيدة الخلية	PAR2 08
				- المناعة والأمراض الطفيلية المشتركة	PAR2 08
24	300	210			مجموع الساعات
إجباري			لا تقل عن 36 شهراً	تدريب عملي في التخصصات السابقة	التدريب العملي
5				حضور الندوات العلمية والدورات التدريبية والمؤتمرات ومناقشة الرسائل العلمية بالقسم وكراسة العملية وعلبة الشرائح	كراسة الأنشطة
6				فصل دراسي واحد	يبدأ تسجيل موضوع البحث بعد النجاح في الفصل الدراسي الأول
50				مجموع الساعات	الإجمالي

#### 5- Programme Courses

- One optional course.
- One obligatory course.

### 5.1- Level of programme: First part: optional: 1/5

Course title	Programme ILO Covered
Biochemistry	a5,a9,c4,c5,d2,d4,d6
Tropical medicine	a4,a6,b1,d2,d4,d6,d8
Clinical Pathology	a5,a9,b2,c4,c5,d4,d6,d8
Microbiology & Immunology	a5,a9,b1,b2,c1,c2, d2,d8
Community Medicine	a1,a2, a7,a11, a12, b3,b4,b6, b7,b8, d2, d3, d4,d5, d6, d7,d8,d9

### **Second Part:**

#### **a-compulsory**

Course title	Programme ILO Covered
Medical Parasitology	a1,a2,a3,a4,a5,a6,a7,a8,a9, a10,a11,b1,b2,b3,b4,b6,b7, b8, c1,c2,c3,c4,c5,c6.,c7, c8,c9 c10,c11,d1,d2,d3,d4, d5 ,d7,d8, d9, d10

### **6- Programme admission requirements :**

#### **I. General requirements**

Candidates should have either:

1. MBBCh Degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.
2. Candidates should complete the house office training.
3. Follow postgraduate Regulatory rules of Qena Faculty of Medicine.

#### **II. Specific Requirements:**

1. Candidates graduated from Egyptian Universities should have at least “Good Rank” in their final year examination, and grade “Good Rank” in medical parasitology Course too.
2. Candidate should know how to speak & write English well.
3. Candidate should have computer skills.

### **7- Regulations for progression and programme completion**

Duration of program is 6 semesters (3years), starting from registration till the second part exam; divided to:

First Part: ( $\geq 6$  months=1 semester):

- Program-related basic science, Tropical medicine, Parasitology course, Research Methodology, Ethics and medical reports, Biostatistics and computer & SPSS.
- At least six months after registration should pass before the student can ask for examination in the 1<sup>st</sup> part.
- Two sets of exams: 1st in April — 2nd in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed (with at least 40% of the written exam).
- Those who fail in one curriculum need to re-exam it only.

**Thesis /Essay:**

- Start s after registration and should be completed, defended and accepted after passing 6month from documentation, and after passing the first part exam and at least one month before allowing to enter the second part final examination. of the subject of the thesis.
- Accepting the thesis is enough to pass this part.

**Second Part: (≥24 months=4 semester):**

- Program related specialized science medical parasitology Courses.
  - After passing at least actual work for 36ms as a demonstrator/trainee in the department.
- 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:
- Two sets of exams: 1st in April— 2nd in October.
  - For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 40% of the written exam).

**8- methods of achievements and assessments**

Method of assessment	The assessed ILOs
1-Research assignment	-general transferable skills, intellectual skills
2-Written Exams:	-knowledge
-Short essay	-knowledge, intellectual skills
-MCQs	- intellectual skills
-Commentary	-general transferable skills, intellectual skills
-Problem solving	- Practical skills, intellectual skills
3-Practical Exams	- Practical skills, intellectual skills
4-OSPE	- Practical skills, intellectual skills
5-Clinical Exams.	- Practical skills, intellectual skills
6-OSCE	- knowledge
7- Oral Exams.	-knowledge
8- Structured Oral Exams	

**9- Evaluation of program intended learning outcome**

Evaluator	Tool	Sample
1- Senior students	Questionnaire	5
2- Alumni	Questionnaire	5
3- Stakeholders ( Employers)	Questionnaire	-
4-External Evaluator(s) (External Examiner(s))	Report	1
5- Other		

**Course Specifications of Microbiology and immunology for MSc. degree in Medical Parasitology (first part)**

**Qena University**

**Qena Faculty Of Medicine..**

1. Program(s) on which the course is given: MSc. Medical Parasitology.
2. Optional element of program
3. Department offering the program: Medical Parasitology.
4. Department offering the course: Medical Microbiology & Immunology.
5. Academic year / Level: Post graduates registered for MSc degree of Medical Parasitology.

**A- Basic Information**

**Title:** Medical Microbiology & Immunology

**Credit Hours:** 13 hs.

**B- Professional Information**

**1 – Overall Aims of Course**

By the end of the course the student should be efficiently able to:

Have the professional knowledge of the microorganisms affecting human beings all over the world and the relations between them and the parasites. The student also should recognize the pathology, clinical symptoms, and complications and perform the laboratory tests needed for diagnosis of each disease. And should also gain the professional knowledge about the structure and function of the immune system so as to perform immunological studies needed in his/her main specialty.

**2 – Intended Learning Outcomes of Course (ILOs):**

**a) Knowledge and Understanding:**

**By the end of the course the student is expected to:**

- a1. List the microorganisms affecting human beings all over the world particularly those related to parasites.
- a2. Describe the metabolism and genetics of organisms.
- a3. Describe the pathology, clinical symptoms and complications of each disease.
- a4. Summarize the laboratory tests needed for diagnosis of each case.
- a5. Name some of the drugs and instructions used for treatment of each case.
- a6. Describe some infection control methods
- a7. Describe the structure and function of immune system

**b) Intellectual Skills:****By the end of the course the student is expected to:**

- b1. Differentiate between the different microorganisms (Bacteria, viruses and fungi)
- b2. Differentiate between the different types of bacteria on the bases of staining and culturing methods.
- b3. Differentiate between organisms affecting the same body parts

**c) Professional and Practical Skills:**

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

- c1. Recognize micro-organisms on morphological bases.
- c2. Identify and perform the methods of staining, culturing and biochemical reactions
- c3. Recognize and perform some serological tests used in diagnosis.
- c4. Handle of samples.

**d) General and Transferable Skills:**

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

- d1. Use the computer and internet to gather scientific informations.
- d2. Practice group co-ordination.

**3- Contents**

Topic	Lecture	Tutorial/Practical	Course ILO,s
General bacteriology	14	20	a1,a2,b1,
Systemic bacteriology	45	50	a3,a4,a5,b1,b2,b3,c1,c2,c4
Mycology	10	10	a3,a4,a5,a6, b1,b2,b3,c1,c2,c4
Virology	20	5	a3,a4,a5,a6, b1,b2,b3
Nosocomiology	16	5	a3,a4,a5,a6, b1,b2,b3, c1,c2, c4
Immunology	30	30	a7,c3,c4,d1,d2
Total	135	120	

**4– Teaching and Learning Methods 4.1-lectures.****4.2-departement practical class and notes. 4.3-practical lessons.****4.4- Practical assignments and sample collection.****5- Student Assessment Methods**

- 5.1 final written exam to assess Knowledge, understanding and intellectual skills.
- 5.2 final oral exam to assess understanding and intellectual skills.
- 5.3 final practical exam to assess practical skills.



## Assessment Schedule

### Weighting of Assessments

Periodic Examination	15%
Final-term Examination	50%
Oral Examination.	15%
Practical Examination	20 %
<hr/>	
Total	100%

## 6- List of References

### 6.1- Course Notes

Notes of the department and practical notebook

### 6.2- Essential Books (Text Books)

Medical Microbiology. Essential Immunology.

### 6.3- Recommended Books

A coloured Atlas of Microbiology.

### 6.4- Periodicals, Web Sites, ... etc

Microbiology Immunology <http://mic.sgmjournals.org/>

## 7- Facilities Required for Teaching and Learning

Data show, for lecture.

Over-head projector For lectures. Slides projector for practical lessons. Laboratory microscopes. <http://www.microbes.info/>

<http://mansvu.mans.edu.eg/moodle/course/category.php?id=64>

**Facilities used for isolation, staining and culturing the different microbes.**

## **Course Specifications of Clinical Pathology For Master Degree of Parasitology**

**South valley University**

**Faculty of Medicine**

1. Program on which the course is given: Master degree in Parasitology
2. Optional element of program: 1st part
3. Department offering the program: Department of Medical Parasitology
4. Department offering the course: Clinical Pathology
5. Academic year / 1st part of Master degree of Medical Parasitology

### **A- Basic Information**

**Title: Clinical pathology**

**Lecture 4 hs/w**

**Tutorial/ Practicals: 6h/w**

### **B- Professional Information**

#### **1. Overall Aims of Course**

By the end of this course the student should have the professional knowledge and skills of haematology, immunology, clinical chemistry and microbiology to support his /her study of the main specialty.

#### **2. Intended Learning Outcomes of Course (ILOs)**

The curriculum consists of theoretical, practical and training courses.

##### **a) Knowledge and understanding:**

By the end of this course the student should be expected to

- a.1- Review their information about the physiology of blood cells (RBCs, WBCs and platelets) and homeostasis.
- a.2- Review their information about the anatomy of the lymphatic and hematopoietic organs.
- a.3-Know the important causes, presentation and management of various types of anemias.
- a.4- Know causes, manifestation and management of bleeding and coagulation disorders.
- a.5- Recognize various parasitic diseases in different samples.
- a.6- Recognize chemical and immunological changes associated with various diseases especially parasitic diseases.
- a.7-To know recent advances in diagnosing various hematological disorders as bone marrow transplantation, immunological treatment.

**b) Intellectual skills:**

By the end of this course the student should be expected to

b.1-To interpret lab investigations as blood picture, bone marrow examination, results of lymph node, spleen biopsy,.....and tests for coagulation disorders.

b.2- Examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.

b.3- differentiate between samples of parasitic infection and other samples.

**c) Practical skills:**

By the end of this course the student should be able to:

c.1- Perform a complete haematological examination.

c.2- Perfect different staining methods.

c.3- Perform complete urinary, sputum and fecal examinations.

c.4- Perform serological tests for detection of parasitic antibodies or antigens

**d) General and Transferable Skills**

By the end of this course the student should be expected to

d1- Work in a team

d2-Communicate well with his colleagues, top management and subordinates

d3- Use computers in conducting researches

**3- Contents****A- lectures:.**

Topics	Hours of lectures (135hs)	Practical (120hs)	Course ILO's covered
Clinical haematology: -Indications for blood transfusion. -Hazards of blood transfusion. -Parasites in blood. -Anemias: -Iron deficiency anemia -Megaloplastic anemia -Hemolytic anemias -Aplastic anemia.	30	20	a1, a2, a3,a5, b1, b2, b3, c1

- ERS. - WBCs production. - Pathological changes in the WBCs (lymphomas and leukemias)			
Normal haemostasis. Disorders of coagulation and thrombosis: -Hemophilias -Thrombophilias -How to investigate a case of bleeding.	15	5  10	a4,a4
Anticoagulants	5		a4

Topics	Hs. (10) lectures	Practical (35 h)	Course ILO's covered
Clinical Chemistry: - Carbohydrates.	7	10	a6, a7, b3
-Body fluids -Plasma proteins and liver disorders.	4	15	a6,a7, b3
- Kidney function	4	10	a6, a7, b3,c2,c

Topics	Hs. (30) lectures	Practical (40)	Course ILO's covered
Clinical microbiology: - Methods of collecting samples and criteria of rejection. - Staining and culture media.	4 6	10 10	a5,a7,b3, c2,
- Parasites in urine and stools	8	15	a5,b3,c2
- Medically important cases: - a- fever b- diarrhea. c- UTLs. d- Meningitis.	12	5	a7,b2, d1,d2,d3

Topics	Hs. (20) lectures	Practical (10 h)	Course ILO's covered
Clinical immunology: - Types of antigen and antibody reactions.	14		a6,a7
- Diagnosis of infectious diseases	14	4	a5,a6,a7,b1, b2
- Immunological aspects of parasitic diseases	12	6	a6,a7,c4, d1,d2,d3

#### **4– Teaching and Learning Methods**

4.1 - Lectures

4.2- practical lessons (in the University hospital lab.)

4.3-searches in the library for Text Books in case taking...

4.4-searches in computers

#### **5- Student Assessment Methods**

5.1 Written exams to assess basic medical knowledge

5.2 Clinical exams to assess his intellectual, professional and practical skills.

5.3 Oral exams to assess intellectual skills

#### **Weighting of Assessments**

Final written Examination 50 %

Oral Examination. 50 %

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Total

100%

Any formative only assessments regular oral exams

#### **6- List of References**

6.1- Cheesbrough, M. (1987): Medical laboratory manual for tropical countries. 6.3-

Recommended Books:

6.4- Periodicals, Web Sites, ... etc <http://www.ncbi.nlm.gov> <http://www.google.com>  
<http://Freemedicaljournals.com>

### **7- Facilities Required for Teaching and Learning**

1. Appropriate teaching classes (wide, adequately ventilated).
2. Computers and data show.
3. Appropriately equipped lab.

**Course coordinator:**

**Head of the department:**

**Date:12/9/2009**

## **Course Specifications of Biochemistry for MSc. degree in Medical parasitology**

**South Valley University**

**Qena Faculty Of Medicine.**

1. Program(s) on which the course is given: MSc. in Medical parasitology
2. Optional element of program
3. Department offering the program (Medical parasitology Department)
4. Department offering the course (Medical Biochemistry Department)
5. Academic year / Level: Post graduate, master degree in Medical parasitology (first part)

### **A- Basic Information**

**Title: Medical Biochemistry Lecture:** 4 hour/w

**Hours:** 13 credit hours

### **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 biochemistry and the metabolic bases of the parasitological diseases, and able to diagnose any vitamin and calcium regulating hormones deficiency.

#### **2. Intended Learning Outcomes of Course (ILOs) a- Knowledge and Understanding:**

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

- a1- To know the biochemical importance of intermediary metabolism (Anabolic and catabolic)
- a2- The importance of clinical biochemistry
- a3- Explain the role of vitamin, Minerals
- a4- To know and explain hormonal action

#### **b- Intellectual Skills**

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

- b1-Diagnosis the affected biochemical deficiency
- b2- Integrate basic biochemical and physiological facts with clinical data
- b3- How to diagnose and treat as early as possible

#### **c- Professional and Practical Skills**

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

- c1- To identify the biochemical defect
- c2- To perform some laboratory tests for early diagnosis.

#### d- General and Transferable Skills

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

d1- Acquiring skills to use computer to enter biochemistry web sites and self learning.

d2- Team working for accurate diagnosing of diseases using internet.

d3- Utilize computers in conducting research and to Collect scientific data.

d4- Use standard computer programs effectively (window, office programs).

3- Contents:

Topics	Hours	Practical	Course ILOs covered
(1) Biological oxidations include: -General consideration. -Electron transport. -ATP-synthesis. -Translocations. -Superoxide dismutase.	5		a1,a2
(2) Glycolysis and citric acid cycle: - General consideration. -Enzyme structure and reaction mechanisms. -Regulation mechanisms and biomedical importance.	10		a1,a2
3) Other Pathways Carbohydrate Metabolism: a- Pentose –phosphate pathway and Gluconeogenesis. -General considerations -Enzyme reaction mechanisms. -Regulation mechanisms -Genetic diseases. B-Glycogen Metabolism: -General considerations -Glycogen Synthetase and phosphorylase: structure and catalytic activities. -Regulation -Genetic diseases C-Metabolism of other hexoses and biosynthesis of mucopolysaccharides.	25	25	a1,a2, d2



(4) Fat metabolism) General considerations. -Fatty acid oxidation and fatty acid biosynthesis. - Enzymes and reaction mechanisms for biosynthesis of cholesterol and related derivatives, phospholipids, glycolipids and related compounds. -Eicosanoids metabolism. -Adipose tissue metabolism. -Lipid transport in plasma: Lipoproteins: assembly and degradation, biomedical importance. -Genetic diseases.	5		a1,a2
(5)Protein metabolism: -General consideration -Amino acids degradation: General reaction, nitrogen disposal and ammonia disposal. -Nitrogen fixation. -One carbon metabolism. -Individual amino acids metabolism.	10	15	a1,a2, b1, b2,b3, c1,c2, d2
6) Integration of metabolism: - Mechanisms and regulation	5	5	a1,a2, b1, b2,b3,c1,c2
7) Metabolism of nucleotides: -General considerations -Purin and pyrimidine biosynthesis. -Ribonucleotide reductase –thioredoxin and Glutaredoxin, Thymidylate synthase and dihydrofolate reductase -Uric acid -Genetic diseases.	15	5	a1,a2, b1, b2,b3, c1,c2
8) Porphyrin metabolism and heme biosynthesis and catabolism (9) Mineral metabolism Tissue chemistry	15	10	a1,a2, a3, b1, b2,b3, c1,c2

<p>A- Eukaryotic chromosomes Gene Expression :</p> <ul style="list-style-type: none"> <li>-Nucleosome and chromatin.</li> <li>-Mitochondrial DNA.</li> <li>-DNA structure :replication and repair:</li> <li>-Structure.</li> <li>-Nucleases and ligases.</li> <li>-DNA topology and topoisomerases.</li> <li>-DNA polymerases.</li> <li>-Origin and direction of replication.</li> <li>-Biochemistry of osteoarthritis</li> </ul>	15		a1,a2, b1, b2,b3, c1,c2
<p>(11)Hormones</p> <ul style="list-style-type: none"> <li>-Classification, mechanisms of actions.</li> <li>-Pituitary and hypothalamic hormones.</li> <li>-Thyroid and parathyroid hormones.</li> <li>-Hormones of the adrenal cortex and medulla.</li> <li>-Hormones of the Gonads.</li> <li>-Hormones of the pancreas and G.I.T tract.</li> <li>- Biochemistry of osteoporosis</li> </ul>	5		a1,a2,a4. b1, b2, c1
<p>12)-Tumour markers. 13)Metabolism of xenobiotics.</p> <p>(14)Body fluid :</p> <ul style="list-style-type: none"> <li>-Blood, urine,-semen, C.S.F, bile, gastric juice, milk.</li> </ul> <p>(15)Minerals: (calcium. phosphate, Na, k, mg, Cu, iron, zinc, iodine ,mercury, Cd, florid, lead and others trace elements.</p> <p>(16) Immnoglobulines</p> <p>(17) Physical chemistry</p> <p>(18)Free radicals (19)Enzymes:</p> <ul style="list-style-type: none"> <li>-kinetics</li> <li>-Mechanism of action Regulation</li> </ul> <p>- (20)Vitamin:</p> <ul style="list-style-type: none"> <li>-Water soluble vitamin. Fat soluble vitamin</li> <li>-Immunoglobulin</li> <li>-Steatorhea</li> <li>-Fate of ammonia</li> </ul>	10	25	a1,a2, a4, b1, b2,b3, c1,c2
	10	25	
	5		
		15	
Total	135	120	

#### **4– Teaching and Learning Methods**

4.1- Lectures

4.2- Searches in computers (assignments) (d1,d3,d4) 4.3- practical

#### **5- Student Assessment Methods**

5.1- Oral exam to assess intellectual skills (50%).

5.4- Final written exam to assess understanding (50%),

#### **6- List of References**

6.1- Course Notes, Department books.

6.2- Essential Books (Text Books).

1. Text book of medical biochemistry with clinical Devlin, JM 1994

2. Harper's biochemistry, Murray, RK 2005

6.3- Recommended Books.

1. Lectures notes on clinical biochemistry, Whitby et al 1993

2. Lippincott's illustrated reviews biochemistry, Champe, PC, Harvey, RA, 2005

3. Periodicals, Web Sites, ... etc

1. <http://www.ncbi.nlm.gov/>

2. <http://www.vlib.org/>

3. [www.genome.ad.jp/kegg/regulation](http://www.genome.ad.jp/kegg/regulation).

4. Findarticle.com

5. Freemedicaljournals.com

#### **7- Facilities Required for Teaching and Learning**

1. Appropriate teaching class

2. Laboratory equipment and safety

3. Computers and data show

**Course Coordinator:**

**Head of Department:**

**Date:**

## **Course Specifications of Tropical Medicine For Master Degree of Parasitology**

**South Valley University**

**Qena Faculty of Medicine**

1. Program on which the course is given: Master degree in Parasitology
2. Optional element of program: 1st part
3. Department offering the program: Department of Medical Parasitology
4. Department offering the course: Tropical Medicine and Gastroenterology
5. Academic year / 1st part of Master degree of Medical Parasitology

### **A- Basic Information**

- Title: Tropical Medicine and gastroenterology
- Credit hours: 13 hours

### **B- Professional Information**

#### **1. Overall Aims of Course**

1. To have basic knowledge about fevers and its common causes.
2. To have basic knowledge about etiology, pathogenesis, clinical picture, complications and management of the most common infectious diseases.
3. To understand the most common gastrointestinal and hepatic diseases especially those prevalent in our country and be able to diagnose and manage them.
4. To be able to take a complete medical history from patients
5. To know the symptomatology of gastrointestinal system and how to analyze them to reach a provisional diagnosis
6. To have a basic knowledge about different methods of clinical examinations of patients and details of abdominal examination
7. To be able to link clinical to laboratory data.

#### **2. Intended Learning Outcomes of Course (ILOs)**

##### **a- Knowledge and Understanding:**

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

- a1- To know the common infectious, hepatic and gastrointestinal diseases Worldwide and the most common diseases and public health problems in our country.
- a2- To understand the causation of diseases and new concepts in their pathogenesis.
- a3- To study the clinical picture, complications and differential diagnosis of common infections
- a4- To know the importance of good history taking as a first step to solve a medical problem.
- a5- To know how to be a good observer
- a6- To learn how to look for physical signs and how to interpret them.

- a7- To know the common diagnostic, laboratory, radiological and other techniques
- a8- To know the various therapeutic methods/ alternatives used for common diseases (supportive therapy, nutrition, pharmacotherapy, surgical treatment etc...)
- a9- To know general methods for health promotion and disease prevention.

**b- Intellectual Skills**

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

- b1- To make a good doctor-patient relationship
- b2- To take a thorough medical history.
- b3- To interpret data acquired through history taking to reach a provisional diagnosis
- b4- To interpret physical findings and correlate them with patient's symptoms.
- b5- Identify problems and find solutions
- b6- Select from different diagnostic techniques the ones that help to reach a final diagnosis.
- b7- Select the most helpful laboratory investigation to confirm the diagnosis.
- b8- To have the ability to innovate nontraditional solutions to problems.

**c- Professional and Practical Skills**

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

- c1- Perform general and abdominal examination of patients .
- c2- Interpret, conclude and discuss data collected from history and examination
- c3 Diagnose common infectious diseases(parasitic, bacterial and viral) and be able to differentiate them clinically and laboratory.
- c4- Perform basic diagnostic and therapeutic techniques and measures (pulse, temperature, giving injections and intravenous fluids, taking aspirations from pathological body fluids....)....
- c5- Recognize patients with life threatening conditions and initiate the proper management and change it according to patient's needs.

**d- General and Transferable Skills**

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

- d1- Work in a team
- d2-Communicate well with his colleagues, top management and subordinates.....
- d3- Establish a good patient-physician relationship.
- d4- Use computers in conducting researches

**3. Contents: Lectures (135 hours + 120 clinical)**

Diagnosis of a case of fever

Pyrexia of unknown origin

Nosocomial infections

**Helminthic Diseases:**

- Schistosomiasis
- Paragonimus westermani
- Fascioliasis
- Clonorchis sinensis
- Heterophyes heterophyes Taeniasis
- Hymenolepis nana, diminuta Diphylobothrium latum
- Hydatid disease
- Ancylostomiasis
- Ascariasis

**Protozoal Diseases**

- Enterobiasis
- Strongyloidiasis
- Cappilariasis
- Tissue larva migrans
- Trichinosis Filariasis
- Loaisis Onchocerciasis
- Dracanculus medinensis
- Treatment of helminthic infections
  
- Malaria
- Babesiosis
- Amaebiasis
- Giardiasis
- African Trypanosomiasis
- American Trypanosomiasis
- Toxoplasmosis
- Leshmaniasis
- Balantidiasis
- Arthropod borne infections
- Infectious and non-infectious diarrhea Salmonella infections

- Brucellosis Shigellosis
- Tuberculosis of the GIT Cholera
- Cholestasis Zoonoses
- Tropical Liver Diseases
- Cardiovascular Diseases in the Tropics
- Neurological Manifestations of Tropical Diseases
- Haematological Disorders in the Tropics Emergencies in Fevers
- Infections in the immunocompromized host Immunizations
- Precautions taken by travelers to tropical areas.

#### **4– Teaching and Learning Methods**

4.1 - Lectures

4.2- practical lessons (ward and class rounds)

4.3- Searches in the library for Text Books in case taking... 4.4- searches in computers.

#### **5- Student Assessment Methods**

5.1 Written exams to assess basic medical knowledge....

5.2 Clinical exams to assess his intellectual, professional and practical skills.

5.3 Oral exams to assess intellectual skills .....

#### **Assessment Schedule**

Assessment 1: oral at 12w

Assessment 2.: practical at 20 w.

#### **Weighting of Assements**

Final written Examination	50 %
Oral Examination.	50 %

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Total	100%
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#### **6- List of References**

6.1- Davidson text Book of Medicine.

6.2- Essential Books (Text Books): Hutchison Book for case taking.

6.3- Recommended Books

Hunter's Tropical Medicine

Current diagnosis & Treatment in Gastroenterology. Sheilla Sherlock (Text Book) of  
Hepatology

6.4- Periodicals, Web Sites, etc <http://www.ncbi.nlm.gov> <http://www.google.com>.  
<http://Freemedicaljournals.com>

**7- Facilities Required for Teaching and Learning**

- a. Appropriate teaching classes (wide, adequately ventilated).
- b. Computers and data show.

**Head of the Department: Dr. Ghada Moustafa Galal Date:12/9/2009**



**Course Specifications of Community Medicine for MSc. degree in Medical parasitology**  
**South valley University                      Qena Faculty Of Medicine.**

1. Program on which the course is given: MSc. in Medical Parasitology
2. Optional element of program
3. Department offering the program (Medical Parasitology Department)
4. Department offering the course (Community Medicine Department)
5. Academic year / Level: Post graduate, master degree in Medical parasitology (first part)

**A- Basic Information**

**Title: Community health**

**Credit Hours: 13 hours**

**B- Professional Information**

**1. Overall Aims of Course**

By the end of the course the post graduate students should be able to:

- a- Have the professional knowledge of the a community-oriented physician capable of – skillfully- anticipating and responding to community health needs within the MOHP setting according to the policies, regulations, and guidelines of the MOHP.
- b- Apply the knowledge and skills learned, and to take leadership in motivating the community served as regards the preventive aspects concerning parasites and its relation to Medicine.
- c- Adopt a healthy lifestyle and sound behaviors to become role models for the individuals, families, and the communities they will serve in the future.

**2. Intended Learning Outcomes of Course (ILOs)**

**a- Knowledge and Understanding:**

By the end of this course the student should be able to:

- a1- Describe the spectrum of parasitic diseases.
- a.2- Explain the three interacting ecological factors—agent, host, and environment— affecting the occurrence of disease
- a.3- Describe the determinants of health on the individual, the family, and the community levels
- a.4- Describe the epidemiology and public health importance of human parasitic infections on the individual, the family and community levels.
- a.5- Define patterns of care as preventive and curative, and describe the levels of preventive care.

- a.6- List at least four uses for health indicators in Parasitology.
- a.7- Describe the public health surveillance system and its use in the community setting
- a.8- Define data sources for vital statistics.
- a.9- Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- a.10- List at least four types of study designs.
- a.11- Describe the study design, uses, and limitations
- a.12- Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values

**b- Intellectual Skills:**

By the end of this course the student should be able to:

- b.1- Evaluate indicators of health and disease
- b.2- Identify prevalent health problems in a community, using various epidemiological strategies
- b.3- Anticipate and participate in investigation of an epidemic/outbreak as part of a health team
- b.4- Identify trends in health and disease
- b.5- Apply appropriate health promotion, disease prevention, and control measures
- b.6- Apply disease prevention and control measures to identified priority communicable and non-communicable diseases
- b.7- Apply health behavior theories to different community health problems**
- b.8- Identify behavioral and social variables impacting health and disease
- b.9- Apply appropriate communication strategies for use with clients, the health care team, and the community
- b10- Select and use appropriate health education methods and materials
- b11- Counsel effectively in the health care environment and prevention of parasitic diseases.

**c- Professional and Practical Skills**

By the end of this course the Student should be practice the following:

- c1- Perform community diagnosis for health problems (of parasitic origin) in the locality.
- c.2- Participate in conducting public health surveillance.
- c.3- Advocate appropriately in the health care setting

### d- General and Transferable Skills

By the end of this course the Student should be practice the following:

d1- Communicate well with his colleges, top management and subordinates.

d2- Team working for accurate diagnosing of diseases using internet.

d3- Use standard computer programs effectively (window, office programs).

d4- Utilize computers in conducting research and to Collect scientific data.

### 3- Contents:

Topic	lectures	practical	Course ILO's
Epidemiology of selected parasitic diseases:	10		a1,a2,a3, a4,a5,a6,
Situations in Egypt and globally	10		b1,b2,b3,b4,
Importance and methods of prevention.	10		b5,b6,b7, c1,c2,c3
Parasitic infections; types, cycles of life.	10		
Risk factors	10		
Schistosomiasis	10		
Fascioliasis			
Amowbiasis, Giardiasis.	10		
Malaria, Filaria. ... Etc			
Parasitic zoonotic and occupational diseases	10		
Arthropode born parasitic diseases			
Emerging and remerging parasites	5	20	a4,a5,a6, b2, c2
Investigations of a parasitic epidemic, the attack rates	5	10	a4,a5,a6, a7, b8,b9, d1,d2,d3, d4,
Methodology	5	30	a10,a11, a12, b10, d2,d3, d4
Statistics	5	20	a8, a9,
Terminology and rationale	5		a9
Data collection Types of data Tabulation of data Graphical presentation of data Measures of dispersion Normal distribution curves	5	10	a7,a8,a9, b3, b9, b10, b11, c1, c2, d1, d2, d3, d4
International classification of diseases.	5	10	a3,a4,b1
International death certificate.			

Study design	10	20	a10,a11, a12, b9,
Cross sectional study and the prevalence rate cohort study, incidence rate, Odd ratio.	5		c1, d1,d2, d3, d4
Sampling	5	20	a7, b9,c2
Total	135	120	

#### **4– Teaching and Learning Methods**

4.1- Lectures

4.2- Computers searches (assignments) (d2, d3, d4) 4.3- practical

#### **5- Student Assessment Methods**

5.1- Oral exam to assess intellectual skills.(50%).

5.4- Final written exam to assess understanding(50%),

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.

2- Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.

3- Epidemiology in medical practice, 5<sup>th</sup> edition. Churchill Livingstone. 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

4 Transport and full board facilities for students during the community campaigns

**Course Coordinator:**

## **Second Part:**

### **Course Specifications For MSc. Of Medical Parasitology Degree (second part)**

#### **South valley University Qena Faculty of Medicine**

1. Program on which the course is given: MSc. Medical Parasitology
2. Major element of program.
3. Department offering the program: Medical Parasitology
4. Department offering the course: Medical Parasitology
5. Academic year / Level: graduates, passed 1st part, registered MSc. Medical Parasitology (2nd part).

#### **A- Basic Information**

**Title:** Medical Parasitology

**Credit Hours: 24 hs. (in 18 month)**

#### **B- Professional Information**

##### **1 Overall Aims of Course**

By the end of the course the student should be able to have the professional knowledge of the parasites affecting human beings all over the world and particularly in Egypt, so to be able to efficiently diagnose and teach medical Parasitology to undergraduates.

##### **2 Intended Learning Outcomes of Course (ILOs):**

The student is to be armed with Professional knowledge about the human parasites present in his locality as well as Egypt, surrounding countries and some idea to parasites all over the world. Each student should be able to recognize the morphological characteristics of each parasite to perform some laboratory tests needed for diagnosis and learn how to fix and examine properly parasitic slides.

##### **a- Knowledge and Understanding:**

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

- a1. Gain sufficient knowledge of the parasites affecting human beings all over the world and zoonoses.
- a2. have the understanding the geographical distribution and life cycle of each, inside and outside the body.
- a3. have the ability to differentiate between parasites on morphological bases.
- a4. have the knowledge to recognize the pathology, clinical symptoms and complications of each parasite.
- a5. have the knowledge of the recommended laboratory tests needed for diagnosis of each

case.

a6. have the knowledge of some of the drugs and instructions used for treating each case.

a7. have the knowledge about control methods used against parasites.

a8. have sufficient knowledge about snails and their medical importance, especially of Egypt.

a9. have the knowledge of parasitic immunity basis.

**b- Intellectual Skills:**

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

b1-Differentiate between parasites affecting the same organ.

b2- Differentiate between parasites present in the same sample.

b3- Differentiate between parasites inhabiting the same geographical location.

**c- Professional and Practical Skills:**

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

c1 identify the infective and the diagnostic stages of the parasites

c2 identify some stages of the parasites.

c3 identify some of the medically important intermediate host especially those present in Egypt.

**Perform one or more of the following skills:**

c4 Perform some laboratory tests available in the department lab.

c5 Perform available immunological tests.

c6 deal with lab animals: infecting, sacrifice, dissecting and examining.

c7 collecting and rearing of snails or medically important arthropods.

A box of at least 75 prepared slides of different entities are required.

c8 attending and participating in scientific conferences, meetings, workshops and thesis discussion that update relevant recent topics in molecular biology, relevant biochemical and genotyping of parasites, and emerging parasitic problems.

**d- General and Transferable Skills:**

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

d1- Use the computer to enter parasitological web sites.

d2- Can collect scientific data from the computer.

d3- Can work in groups, as a leader or as a college.

d4- Can collect data from medical centers and patients.

d5- can compile a review article about a specific subject. (90 hs.)

### 3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical	Course ILO'S
Introduction	2	2		a1-a7,b1-b3,c1-c4,c6, c7
Helminthes Introduction+Trematoda introduction.	2	2		
Fasciola	5	3	2	
Dicrociliium+ Fasciolopsis buski	2	2	2	
H. heterophyes	2	2	2	
Schistosoma	4	2	4	
Snails	8	4	14	
Cestoda+ D. latum	6	4	2	a1-a7,b1-b3, c1-c4,c6,c7
Taenia	4	2	2	
Echinococcus+ Hymenolepis+ Dipylidium	8	4	4	
Nematoda+ Eterobius+ T. trichura+	8	4	4	
Capillaria+ T. spiralis	4	2	2	
Ascaris	4	2	2	
Hook worms	8	6	2	

S.stercoralis	6	4	2	
Larva migrans	4	2	2	
D. medenensis	4	2	2	
Filarial; worms	8	6	2	
Slide preparation	80	40	35	
Helminthes total	180	95	85	
Arthropoda Introduction	2	2	-	
Dieptera+ Mosquitoes	15	6	3	
Culicoides+ Phlebotomas	12	6	1	
Brachycera	14	4	2	
Myiasis & M. producing flies	16	6	5	
Siphonaptera	6	2	4	
Hemiptera	6	2	4	
Anoplura	6	2	4	
Arachnida introduction	12	2	5	
Ticks	8	6	2	
Mites	10	4	2	
Pentastomida	8	4	2	
Cyclops	10	4	1	
Slide preparation	85	35	10	
Arthropods total	120	75	45	
Protozoa Introduction+ Amoebidae	18	18	5	
Luminal flagellates	14	16	6	
Haemoflagellates	10	6	4	
Apicomplexa (Malaria + Babesia)	18	10	5	
Apicomplexa (Toxoplasma+ others)	14	14	5	
Ciliata+Microsporidia	16	6	5	
Slide preparation	50	20	10	
Protozoa	130	90	40	
General immunology and Parasitology	60	20	15	a9, c5
Immunology and helminthes	27	27	10	
Immunology and protozoa	38	26	10	
Immunology and arthropods	8	7	5	
Immunology	125	80	40	
Total	510	300	210	



#### 4– Teaching and Learning Methods

4.1- lectures.

4.2- practical lessons.

4.3- Assignments.

4.4- attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed. (c8)

#### 5- Student Assessment Methods

5.1- review article about a specific subject. (90 hs.) to assess knowledge, general and transferable skills.(d1-d5)

5.2- slides box (75) to assess practical skills.(c6)

5.3- Log book to assess practical, general and transferable skills.

5.4 practical notebook to assess practical skills

5.5 final written exam to assess Knowledge, understanding and intellectual skills.

5.6 final practical exam to assess practical skills.

5.7 final oral exam to assess understanding and intellectual skills. Assessment Schedule

Assessment 1 ...Review

Assessment 2..... Log book

Assessment 3.....slides box (75)

Assessment 4.....practical notebook

Assessment 5.... Final written exam

Assessment 6....Practical exam.

Assessment 7.....Final oral exam

#### Weighting of Assessments

Periodic Examinations =10 % including: Review...

Log book...week: 100 = 3%

slides box (75) = 5% practical notebook 120=2%

Final Examination 40%

Oral Examination. 20% Practical Examination 20 %

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Total 100%

## **6- List of References**

6.1- Lecture notes

6.2- Essential Books (Text Books) Medical Parasitology.

Essential Parasitology.

6.3- Recommended Books

A coloured Atlas of tropical Medicine and Parasitology.

6.4- Periodicals, Web Sites:

Parasitology Research Division of Biology, Kansas State University

**[mri.sari.ac.uk/parasitology.asp](http://mri.sari.ac.uk/parasitology.asp) British Society of Parasitology And others**

## **7- Facilities Required for Teaching and Learning**

PC device for pp. lectures. Laboratory microscopes.

Laboratory equipments

**Course Coordinator: Dr . Asmaa Elkady**