



PROGRAMME SPECIFICATION
MSc Dermatology, Andrology &STDs
Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme Title & Code	MSc Dermatology, Andrology &STDs Code Derm 500
(2) Final award/degree	MSc Dermatology, Andrology & STDs
(3) Department (s)	Dermatology, Andrology, and STDs
(4) Coordinator	Samir Elhanbly, MD
(5) External evaluator (s)	Mai H Elsamahy, MD Professor of Dermatology, STDs and Andrology, Faculty of Medicine Ain Shams University
(6) Date of approval by the Department`s council	3/4/2016
(7) Date of last approval of programme specification by the faculty`s council	9/8/2016

(B) Professional information

(1) Programme Aims:

The broad aims of the Programme are as follows:

- 1- Provides the MSc student with knowledge about basic science related to Dermatology & Andrology.
- 2- Provides the MSc student with detailed knowledge about most of skin diseases probably seen by a skin specialist.
- 3- Provides MSc students with detailed dermatology clinical skills
- 4- Trains the MS candidate how to differentiate between similar skin diseases after making an appropriate differential diagnosis.
- 5- Trains the MS candidate how to perform certain diagnostic and therapeutic procedures for cases of skin diseases like skin biopsy, woods light examination, dermoscopy cases.
- 6- Trains the MS candidate how to plan a standard diagnostic algorithm for skin diseases
- 7- Trains the MS candidate how to propose treatment strategies for most cases of skin diseases
- 8- Trains the MS candidate how to acquire an ethical attitude in general and towards patients, relatives, seniors, tutors and colleagues.
- 9- Trains the MS candidate how to Perform certain treatment procedures for the skin like light therapy, dermabrasion, cry and electro cautery, excision of some skin lesions chemical peel, and laser therapy.
- 10- Trains the MS candidate how to carry out scientific research and community service
- 11- The MSc student will acquire knowledge about most of skin diseases, erectile dysfunction (ED), male infertility and sexually transmitted diseases (STDs)

12- Provides MSc students with detailed dermatology and andrology clinical skills such as obtaining a patient's full history, full clinical examination of skin and genital system.

13- Be able to differentiate between similar skin diseases, STDs and do precise diagnosis of cases of infertility and erectile dysfunction(ED).

14- The MSc student should be able to perform certain diagnostic and therapeutic procedures for cases of skin, STDs, ED, and male infertility cases.

15- Be able to plan a standard diagnostic algorithm and put treatment strategies for most cases of Skin and STDs diseases

16- The student should acquire an ethical attitude in general and towards patients, relatives, seniors, tutors and colleagues.

17- The MSc student should adopt a scientific way of thinking even in the presence of administrative or logistic limitations.

18- The MSc student will recognize the importance of scientific research and community service

19- Provides the student with advanced knowledge about ART (assisted reproductive techniques).

20- Provides the student with advanced knowledge about dermatopathology.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the programme, the candidate will be able to:

A-Knowledge and Understanding:

A 1- Recognize the following:

- a) Sensory Receptors and Cutaneous Sensations.
- b) Cutaneous Circulation, Temperature regulation, and Sweating.
- c) Sex Determination, Differentiation, and Development/ Puberty.
- d) Control of Testicular Function and Secondary Sex Characters

A 2- Recognize the following:

- a) Porphyrin metabolism.
- b) Oxidative stress & antioxidants.
- c) Lipoproteins metabolism.
- d) Steroid metabolism

A 3- Discuss the following:

- a) Laboratory aspects of cutaneous mycosis.
- b) Laboratory diagnosis of skin infections, sexually transmitted diseases.
- c) Molecular techniques for diagnosis of skin infections.
- d) Infection control measures.

A 4- Identify the histopathology of the following:

- a) Non-infectious vesicular and bullous diseases.
- b) Non-infectious erythematous, papular and squamous diseases
- c) Non-infectious granulomas.
- d) Skin infections
- e) Metabolic diseases.
- f) Pigmentary disorders.
- g) Tumors and cysts of skin.
- h) Connective tissue diseases.
- i) Vasculitis.
- j) Degenerative diseases.
- k) Inflammatory diseases of the epidermal appendages, due to physical agents and foreign substances.
- l) Systemic pathology

A 5- Recognize the following:

- a) Congenital Adrenal Hyperplasia
- b) Diabetes Mellitus
- c) Cardiac Emergencies & Critical Care Medicine
- d) Shock, Fluid and Electrolyte Disorders
- e) Systemic lupus erythematosus
- f) Systemic vasculitis.
- g) Bleeding disorders.

A 6- Recognize the following:

- a) Wound Healing & skin graft.
- b) Chronic Leg Ulcer.
- c) Inguinoscrotal Swellings.
- d) Varicose vein & Deep vein thrombosis.
- e) Burns & dressing
- f) Lymphoedema.
- g) Surgical infections & Antibiotics.

A 7- Recognize the following:

- a) Psychosocial Development/ Psychosocial Problems of Puberty and the Aged
- b) Symptomatology and psychological Evaluation
- c) Body Image and Self-esteem/ Hysteria, Somatization, and the Sick Role
- d) Psychotic Disorders (Schizophrenia)
- e) Mood Disorders (Depression)
- f) Anxiety Disorders
- g) Personality Disorders
- h) Psychocutaneous Skin Diseases

- i) Psychopathological mechanisms of Sexual Disorders
- j) Psychological aspects of Infertility and Assisted Reproductive Techniques
- k) Perversions and Gender Identity Disorders
- l) Psychological Therapeutic Techniques: Psychotherapy, Behavioral Therapy

A8- Recognize the etiology, pathogenesis, clinical features, investigations, differential diagnosis, complications and treatment of different skin diseases.

A9- Outline the relations between the systemic diseases & the skin

A 10- Explain the different diagnostic tests to be used in identification of most skin diseases.

A11- Discuss the lines of treatment of skin diseases including topical and systemic therapy, phototherapy, and basics of dermatological surgery & Laser therapy.

A12- Recognize Physiology of Testicular Function and Sperm Maturation and Fertilization.

A13- Outline the Classification of Andrological Disorders

A14- List different diagnostic techniques:

1. Imaging Diagnostics
2. Endocrine Laboratory Diagnosis.
3. Cytogenetic and Molecular Genetic Investigations.
4. Semen Analysis.
5. Sperm Quality and Function Tests
6. Testicular Biopsy and Histology: role and indications.

A15- Describe Normal and Abnormal pubertal development.

A16- Explain Diseases of the Hypothalamus and the Pituitary Gland:

A17- Discuss Disorders at the Testicular Level.

A 18- Explain Disorders of Androgen Target Organs.

A19- Outline Diseases of the Seminal Ducts:

A 20- List Testicular Dysfunction in Systemic Diseases and Iatrogenic factors and effect of STDs on male infertility.

A21–Describe different types of therapy of Male Infertility

A22- Identify Male contribution to contraception.

A23- Recognize Andrological emergencies:

1. Testicular torsion
2. Testicular trauma
3. Penile trauma.

A24- Explain the Psychology and physiology of sexual desire, arousal and response regarding the following subjects:

- a. Central nervous mechanisms
- b. Role of hormones
- c. Genital responses
- d. Orgasm, emission and ejaculation

A25- Describe Ageing and Sexuality regarding:

- a. The effect of physiological, psychological and social factors throughout life
- b. Changes in sexuality throughout life

A26- Recognize Sexual Dysfunctions in men and women regarding:

- a. Definitions and classification
- b. Epidemiology, pathophysiology and risk factors
- c. Differentiation between sexual dysfunction and short term, or transient, alterations of sexual function.

- d. Diagnosis and treatment of sexual dysfunctions
 - i. Desire disorders
 - ii. Arousal disorders including erectile dysfunction and priapism.
 - iii. Orgasmic disorders
 - iv. Ejaculatory disorders
 - v. Genital pain and pelvic floor disorders
 - vi. Structural / anatomical abnormalities including congenital and acquired penile deformities
 - vii. Priapism

A27- Identify the following deviant sexual behaviour:

- a. Paraphilias (exhibitionism, voyeurism, paedophilia, sadomasochism, fetishism etc.)
- b. Sexual offences (abuse, assault and rape)
- c. High risk, compulsive and / or addictive sexual behavior
- d. Homosexuality.

A28- Outline different Gender Identity Disorders.

A 29- List the clinical management of sexual disorders regarding:

- 1. Principles
 - i. Evidence based medicine
 - ii. Combination of psychosomatic and somato-medical approach
 - iii. Interdisciplinarity
 - iv. Patient and couple centered
- 2. Methods
 - i. Establishing a sexual medicine clinic
 - ii. Counselling, Sex therapy, Psychotherapy
 - iii. Pharmacological
 - iv. Physical and surgical

A30 -Discuss the History and epidemiology of sexually transmitted infections

A31- Explain Sexually transmitted viral pathogens:

A32-Describe Sexually transmitted bacterial pathogens

A33 - ListSexually transmitted protozoa, fungi, and ectoparasites

A34- Describe the Overview of STDs care management includig the following:

1. Anatomy and physical examination of the genital tract
2. Principles of treatment of sexually transmitted diseases .
3. principles of laboratory diagnosis of STDs
4. Management of STIs syndromes in women
 - a. lower genital tract infection syndromes in women
 - b. Pelvic inflammatory disease
5. Management of STIs syndromes in men
 - a. -Urethritis in males .
 - b. -Epididymitis .
 - c. -Prostatitis syndromes .
6. Management of dermatologic and extragenital manifestations of STDs and HIV infection
 - a. Generalized cutaneous manifestations of STDs and HIV infection
 - b. Genital ulcer .
 - c. Genital dermatoses .
7. Clinical management of HIV infectionand Counseling and Testing for HIV Infection

A35- Describe Prevention and control of STDs and HIV infection including control measures and STDs vaccinesand special aspects of STDs/HIV prevention and control in developing countries

- A36 - Outline conventional IVF and related techniques (GIFT, ZIFT, embryo transfer).
- A37 - Explain different types of sperm preparation (for IUI, IVF, ICSI)
- A38 - Discuss ART for male infertility (indications, assessment, and genetic counseling)
- A39 - Recognize different methods of sperm collection [surgical and nonsurgical].
- A40- Discuss the cryopreservation (sperms, tissue, embryo)
- A41- Recognize the outcome and complications of ART
- A42- Explain the legal aspects of ART
- A43 –Identify the artificial insemination
- A44- Describe the gamete micromanipulations (zona drilling, post-zona drilling, sub zona sperm injection, ICSI, assisted hatching)
- A45 - Outline Histopathology of normal skin and diagnostic procedures in skin diseases.
- A 46- Explain different types of Skin granulomas
- A47 - Discuss the histopathology of different groups of dermatoses (Psoriasiform, Lichenoid, Spongiotic, Neutrophilic, Eosinophilic, and Vesiculobullous)
- A 48- Recognize different types of skin tumors [Epidermal skin tumors, Tumors of skin appendages, Lymphoma and related disorders, and Soft tissue tumors (vascular, fibrous, subcutaneous fat, nerves, and muscles)].

B- Intellectual skills

- B1-** Distinguish different stages of sex development and Puberty.
- B2-Compare between types of Sensory Receptors and Cutaneous Sensations.
- B3- Illustrate steps of the following:
- a) Porphyrin metabolism

- b) Lipoproteins metabolism.
- c) Steroid metabolism
- B4- Compare between types of antioxidants.
- B5- Set up an algorithm for diagnosis of sexually transmitted diseases
- B6- Compare between different Molecular techniques for diagnosis of skin infections
- B7- Differentiate between types of skin Pigment disorders according to their levels in the skin.
- B8- Compare between types of Non-infectious vesicular and bullous diseases.
- B9- Compose an algorithm of enzymes defects in different types of Congenital Adrenal Hyperplasia
- B10- Compare between clinical picture of types of Electrolyte Disorders.
- B11- Compose an algorithm for diagnosis of Inguinoscrotal Swellings.
- B12- Compare between types of skin grafts
- B13- Differentiate between types of Depression.
- B14- Compare between types of Personality and its Disorders
- B15- Set up an algorithm for steps of use of each Psychological Therapeutic Technique.
- B16- Assimilate scientific data and bring it into his clinical dermatology practice
- B 17- Interpret clinical data on approaching cases.
- B 18- Summarize the appropriate tests to diagnose a dermatology case
- B 19- Analyze data obtained from history, clinical examination and laboratory reports to approach cases.
- B 20- Prioritize the different patient's problems and Set up an appropriate algorithm for proper problems management.

B 21- Propose good and interesting points for clinical studies in the field.

B 22- Plan a safe treatment strategy after discussion with the patient or a relative.

B22- Compare between different skin diseases categorized together e.g. immunobullous diseases according to levels of cleavage.

B 23- Interpret clinical data on approaching different andrology cases.

B 24- Summarize the appropriate tests to diagnose a case with andrologic problem.

B 25- Analyze data obtained from history, clinical examination and laboratory reports to approach andrology cases management.

B 26- Prioritize the different patient's problem and Set up an appropriate algorithm for these problems management.

B 27- Plan a safe treatment strategy after discussion with the patient or a relative.

B28- Differentiate between diseases categorized together e.g. urethral discharges, genital ulcers.

B29- Compare between different types of IVF

B30- Differentiate between different types of gamete micromanipulations.

B31- Plan a standard diagnostic algorithm for steps of usage of ART

B32- Compare between characteristic features of different groups of dermatoses

B33- Differentiate between characteristic features of different groups of Skin granulomas

C- Professional/practical skills:

C1- Evaluate a case of Diabetes Mellitus

C2- Assess a case of Systemic lupus erythematosus

- C3- Evaluate a case of varicose vein
- C4- Assess a case of Inguinoscrotal Swelling
- C 5- Construct and record a detailed and structured dermatology history sheet.
- C 6-Utilize most of the information obtained from history, clinical examination, and laboratory investigations.
- C 7- Conduct a standard skin, hair, and nail examination.
- C 8- Practice some therapeutic modalities for skin problems, like intralesional injections electro, cryotherapy, UV therapy, dermabrasion and LASER treatments, chemical peeling, fillers and Botox injections
- C 9- Advocate for quality and optimal patient care.
- C10- Apply data from literature into the specialty.
- C11- Make clinical decisions based on evidence & obtained findings.
- C12- Select appropriate investigations.
- C13- Interpret results obtained from history, clinical examination & diagnostic testing.
- C14- Plan a safe management after discussion with the patient himself or a relative.
- C15- Fully document the patient's history & examination findings and present information clearly in different, written, oral or electronic forms.
- C16- Take care sexually transmitted infections using universal precautions.
- C17- Make benefit of available data from history, clinical examination, and laboratory investigations
- C18-Record a detailed and structured andrology & STDs history
- C19- Perform a standard male genital examination.
- C 20- Perform certain diagnostic tests important in the field of Andrology like microscopic examination of semen(conventional and computer assisted

semen analysis (CASA) and prostatic fluid, testicular biopsy, intracavernosal injection (ICI), monitoring of nocturnal penile erections (using the Rigiscan) and look for varicocele using the Doppler US and some diagnostic tests for STDs like urethral swabs, prostate examination and expressed prostatic fluid microscopic exam and two glasses test..

C 21- Practice certain therapeutic procedures like: semen processing, correction of priapism, testicular sperm extraction (TESE) and percutaneous sperm aspiration (PESA)

D-Communication & Transferable skills:

D 1- Work effectively within the team of colleagues and tutors.

D 2- Manages time, services and resources effectively.

D 3- Sets priorities, skills and needs for lifelong learning.

D 4- Deal professionally with scientific organizations, journals, and associations.

D 5- Explain to the patients and/or relatives the nature of the disease.

D 6- Presents information clearly in different, written, oral or electronic forms.

D 7- Interact effectively with dermatology patients, their families and the public respecting their socioeconomic and cultural backgrounds.

D 8- Value the patient's concerns and worries.

D 9- Respect patients' privacy and autonomy.

D 10- Interact effectively with team work, other physicians & other health care providers.

(3) Academic standards:

Academic standards for the programme are attached in **Appendix I**. in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used. External reference points/Benchmarks are attached in **Appendix II**.

3.a-External reference points/benchmarks are selected to confirm the appropriateness of the objectives, ILOs and structure of assessment of the programme:

Boston university medical college

(www.bnmc.bu.edu/derm/training/programs/overview)

3.b- Comparison of the specification to the selected external reference/ benchmark:

- 1-They teach only dermatology and not andrology to their postgraduate students**
- 2- Melanoma skin cancers are studied extensively**
- 3- Assessment tools include daily faculty observation of clinical activities, participation in student conferences**
- 4- Education resources includes web based curriculum**

(4) Curriculum structure and contents:

4.a- Duration of the programme: 36 months

4.b-programme structure:

Candidates should fulfill a total of **45** credit hours

●4.b: Number of credit hours:

- 1-First part:5**
- 2-Second part:18**
- 3-Thesis: 6**
- 4-Log Book: 16**
 - a- Clinical training: 14**
 - b-Different scientific activities:2**

(5) Programme courses:

First part

Compulsory courses:

Course Title &CODE	credit hours	Teaching hours	Programme ILOs covered (REFERRING TO MATRIX)
Physiology related to Dermatology & Andrology DERM 503	0.5	7.5	A1 and B1,2
Biochemistry related to Dermatology & Andrology DERM 504	0.5	7.5	A2 and B1,2
Microbiology & Immunology related to Dermatology & Andrology DERM 507	0.5	7.5	A3 and B1,2
Dermatopathology Pathology related to Andrology DERM 505	1.5	22.5	A4 and B1,2
Internal Medicine DERM 510	0.5	7.5	A5 and B1,2
Surgery DERM 520	0.5	7.5	A6 and B1,2
Psychiatry DERM 513	1	15	A7 and B1,2

Second part

Course Title & CODE	credit	Teaching hours	Programme ILOs covered

		hours		(REFERRING TO MATRIX)
Dermatology DERM 515 DMT		8.5 hours lectures & 7 clinical	127.5 lectures & 210 clinical	8-11 & B1-11 C1-6 & D1-10
Andrology & STDs DERM 515 STT		8.5 hours lectures & 7 clinical	127.5 lectures & 210 clinical	A12-35 & B1-11 & C7-17 & D1-10
Elective course:				
1. course in ART (assisted reproductive techniques) DERM 515 ART	Advanced	1 (lectures)	15 (lectures)	A36-44 & B 1,2
2. course in Dermatopathology DERM 515 ADP	Advanced	1 (lectures)	15 (lectures)	A 45 -48 & B 1,2

Programme-Courses ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc.), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses` specifications are attached in [Appendix III](#).

Course Title	Programme ILOs									
	A1	A2	A3	A4	A5	A6	A7	B1	B2	
Physiology related to Dermatology & Andrology	x							x	x	
Biochemistry related to Dermatology & Andrology		x						x	x	
Microbiology & Immunology related to Dermatology & Andrology			x					x	x	
Dermatopathology Pathology related to Andrology				x				x	x	
Internal Medicine					x			x	x	
Surgery						x		x	x	
Psychiatry							x	x	x	

Course Title/Code	Programme ILOs																
	A8	A9	A10	A11	A30	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B2
Dermatology	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Course Title/Code	Programme ILOs																
	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	
Dermatology	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	

Course Title/Code	Programme ILOs															
	A36	A37	A38	A39	A40	A41	A42	A43	A44	A45	A46	A47	A48	B1	B2	
Advanced course in ART (assisted reproductive techniques)	x	x	x	x	x	x	x	x	x						x	x
Advanced course in Dermatopathology										x	x	x	x	x	x	x

Course Title/Code	Programme ILOs																																		
	A1	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	
ology & STDs	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Course Code	Programme ILOs																																		
	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10														
ology & STDs	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x														

(6) Programme admission requirements:

•General requirements:

According to the faculty rules and by laws

•Specific requirements (if applicable):

Training in the department for at least one year

(7) Regulations for progression and programme completion:

First part

Assessment Rules

1- Attendance Criteria:

Minimum acceptance attendance in each course is 75%

2- Log book should be fulfilled and signed by Heads of the departments teaching the course

3- Assessment tools:

إجمالي	الدرجة				الاختبار	المقرر
	إكلينيكي	شفهي	MCQ	تفريدي		
١٠٠		٤٠	١٢	٤٨	اختبار تحريري مدته ساعة واحدة + اختبار شفهي	الفسبولوجيا
١٠٠		٤٠	١٢	٤٨	اختبار تحريري مدته ساعة واحدة + اختبار شفهي	الكيمياء الحيوية
١٠٠		٤٠	١٢	٤٨	اختبار تحريري مدته ساعة واحدة + اختبار شفهي	الميكروبيولوجيا والمناعة
٣٠٠		١٢٠	٣٦	١٤٤	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	باطولوجيا الجلد و طب الذكورة
١٥٠	٣٠	٣٠	١٨	٧٢	اختبار تحريري مدته ساعة ونصف + اختبار شفهي + اختبار إكلينيكي	الأمراض الباطنة
١٥٠	٣٠	٣٠	١٨	٧٢	اختبار تحريري مدته ساعة ونصف + اختبار شفهي + اختبار إكلينيكي	الجراحة
٢٠٠		٨٠	٢٤	٩٦	اختبار تحريري مدته ساعة + اختبار شفهي	الطب النفسي
١١٠٠	إجمالي الدرجة					

Classification of Final Result for the MSc

To qualify for the award of the MSc with distinction, candidates must achieve an overall average mark of an85% or more, with a mark of at least 85% being achieved in each course. To qualify for the award of the MSc, candidates must pass at least 60% of the final exam.

Second part

Assessment Rules

1- Attendance Criteria:

Minimum acceptance attendance in each course is 75%

2- Log book should be fulfilled and signed by Head of the Dermatology & Andrology department.

3- Assessment tool:

إجمالي	الدرجة				الاختبار	المقرر
	إكلينيكي	شفهي	MCQ	تحريري		
٦٠٠	١٥٠	١٥٠	٣٠ + ٣٠	١٢٠ + ١٢٠	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	الأمراض الجلدية
٦٠٠	١٥٠	١٥٠	٣٠ + ٣٠	١٢٠ + ١٢٠	إختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي	الأمراض التناسلية وطب الذكورة
١٥٠			٣٠	١٢٠	اختبار تحريري مدته ثلاث ساعات	المقرر الاختياري
١٣٥٠	إجمالي الدرجة					

Classification of Final Result for the MSc:

To qualify for the award of the MSc with distinction, candidates must achieve an overall average mark of an85% or more, with a mark of at least 85% being achieved in each course. To qualify for the award of the MSc, candidates must pass at least 60% of the final exam.

(8) Evaluation of Programme's intended learning outcomes (ILOs):

Evaluator	Tools*	Sample size
Internal evaluator (s): Ibrahim Abdel Hamid, MD Mohamed Elmogy, MD Fawzia Saafan, MD	Personal communications Interviews Emails	
External Evaluator (s) Mai H Elsamahy, MD Professor of Dermatology, STDs and Andrology, Faculty of Medicine Ain Shams University	Workshops Interviews Personal communications	
Senior student (s)		
Alumni		
Stakeholder (s)		
others		

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specifications for this programme are in place.	
Programme coordinator: Samir Elhanbly, MD	Signature & date:
Dean: Name:	Signature & date:
Executive director of the quality assurance unit: Name:	Signature & date:

P.S. The programme specification should have attached to it all courses specifications for all courses listed in the matrix.