



Vascular surgery Program SPECIFICATION
Faculty of Medicine- Mansoura University
Vascular surgery MD

(A) Administrative information

(1) Program offering the course.	Vascular surgery
(2) Department offering the program.	Vascular surgery Department
(3) Head of the program	Prof. Hesham Ali Sharaf El-Din
(4) Coordinator	Dr. Ahmed Magdy Hamouda
(5) External Supervisor	Prof. Mostafa Soliman Abd Albary
(6) Date of last approval of program specification by Faculty council	26 July, 2016

(B) Professional information

(1) Program Aims:

The broad aims of the Program are as follows:

1. To prepare our candidates to acquire knowledge, competencies, skills and applications in different branches of Vascular Surgery by teaching the basic medical science related to Vascular Surgery.
2. – To give an update theoretical idea in vascular and endovascular Surgery.
3. To recognize the epidemiology, racial and gender distribution of each vascular surgical disease as an essential prerequisite for the development of effective control programs.
4. To acquire the pathogenic potential, pathogenesis, clinical picture and complications of Vascular Surgical problems.
5. To accept different options of management both for Urgent and Cold cases.
6. To acquire different presentations related to vascular problem that might happen in some specialties as: Orthopedics, Obstetrics & gynecology & how to manage it.
7. To accept basics of ethics, medicolegal aspects of health problems & malpractice.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

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

A- 'Knowledge and Understanding

- a1-Explain the anatomical and pathological processes underlying common vascular diseases and conditions
- a2-Explain the anatomical basis of vascular conditions, diseases and interventions
- a3-Describe the embryological basis of common congenital vascular diseases and conditions
- a4-Correlate common surgical & vascular infections with the causative pathogens
- a5-Describe the presentations of common vascular diseases
- a6-Define the relevant investigations required to reach an accurate diagnosis
- a7-Explain the medical treatment of vascular patients, its indications, contraindications, side effects, and mode of administration
- a8- Describe conservative management of vascular conditions, its indications, contraindications, and modalities
- a9-Explain the principles of operative surgery & endovascular surgery
- a10-Describe the appropriate technique and steps of common vascular & endovascular procedures
- a11- Outline the principles of advanced and complex operations of vascular & endovascular procedures
- a12- Outline the importance of patient education in vascular surgery

2- Intellectual activities (B)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

- b1- Classify vascular diseases and conditions
- b2 – Differentiate vascular diseases and conditions from each other
- b3 – Select appropriate laboratory and radiological investigations for each vascular condition
- b4 – Interpret the results of laboratory and radiological investigations
- b5- Select the proper line of treatment
- b6- Demonstrates the ability to solve common vascular problems

C- Professional/practical skills

The Postgraduate Degree provides opportunities for candidates to demonstrate the following professional/practical skills:

- C1- Examine different vascular systems of the body, including the arterial, venous, lymphatics, and extremities as well as different swellings & malformations.
- c2- Detect manifestations of clinical abnormalities
- c3- Construct a plan of management for a given clinical situation
- c4- Independently perform common vascular & endovascular Surgical Procedures with adequate proficiency
- c5- prepare the patient as regards the postoperative management and complications
- c6-Prepare the patient for vascular & endovascular procedures
- c7- Consult the patient as regards the surgical & endovascular options and outcome
- c8- Assist with efficiency and recognize challenges and difficulties during major vascular & endovascular procedures

D- Communication & Transferable skills

The Postgraduate Degree provides the opportunity to demonstrate the following transferable skills:

- d1- Apply sound communication skills in interviewing patients and their relatives
- d2- Apply team working skills in working with peers
- d3- communicate and cooperate efficiently and professionally with paramedical personnel
- d4- Maintain honesty and integrity in all interactions with lecturers, seniors, colleagues, patients and administrative task.

- d5- Be responsible towards oneself and others in the workplace and in the community at large
d6- Maintain a professional image concerning behavior, dress and speech

(3) Course content.

1st Part MD.

Total credit hours for the entire course is 5 hours divided as
3 hours for Anatomy and 2 hours for Pathology

B) Anatomy: (VSUR 601 , VSUR 620A)

Title: Anatomy of the vascular system Course

Credit Hours: 3

Lectures: 3 credit hour (45 actual hours)

A) Pathology : (VSUR 605, VSUR 620SSP)

Title: pathology of the vascular system Course

Credit Hours: 2

Lectures: 2 credit hour (30 actual hours)

2nd part MD (VSUR 620, VSUR 620VSP, VSUR 620 VSC)

Consists of:

Main educational course divided as

- *General and Basic knowledge of vascular surgery*
- *Arterial diseases management*
- *Venous and lymphatics system management*
- *Endovascular surgery*

All of these courses are educated as lectures of 24 hours total credit hours combined (or 6 Hours each). And 13 hours clinical or operative training combined (or 3 Hours each).

2 Hours are dedicated for attending seminars or conferences inside or outside Egypt.

Thesis which require a total of 15 credit hours.

With a total of 60 Credit hours for the whole course.

A) General and Basic knowledge of vascular surgery: (VSUR 620 Ta)

Credit Hours: 9

Lectures: 6 credit hour (90 actual hours)

Clinical Practice: 1 credit hours (30 actual hours)

Operative: 2 credit hours (60 actual hours)

3.c- References:

3.c.1: Text books:

- Rutherford *Vascular Surgery*.
- Wesley Moore's textbook on vascular surgery.
- Jamieson and Ruckley*, Surgical management of vascular disease.

3.c.2: Websites:

- Journal of vascular surgery.
- European journal of vascular surgery
- International angiology
- Annals of Vascular surgery

3.c.3: Recommended books

- Vascular and Endovascular Surgery: A Comprehensive Review by Wesley Moore
- Comprehensive Vascular and Endovascular Surgery: by John W. Hallett Jr.

B) Vascular Arterial Course specifications (VSUR 620 Tb)

Title: Vascular Arterial Course

Credit Hours: 10

Lectures: 6 credit hour (90 actual hours)

Clinical Practice: 2 credit hours (30 actual hours)

Operative: 2 credit hours (120 actual hours)

3.c- References:

3.c.1: Text books:

- Rutherford *Vascular Surgery*.
- Wesley Moore's textbook on vascular surgery.
- Jamieson and Ruckley*, Surgical management of vascular disease.

3.c.2: Websites:

- Journal of vascular surgery.
- European journal of vascular surgery
- International angiology
- Annals of Vascular surgery

3.c.3: Recommended books

- Vascular and Endovascular Surgery: A Comprehensive Review by Wesley Moore
- Comprehensive Vascular and Endovascular Surgery: by John W. Hallett Jr.

C) Vascular Venous and lymphatics Course specifications (VSUR 620 Tc)

Credit Hours: 9

Lectures: 6 credit hour (90 actual hours)

Clinical Practice: 2 credit hours (60 actual hours)

Operative: 1 credit hours (100 actual hours)

3.c- References:

3.c.1: Text books:

- Rutherford *Vascular Surgery*.
- Wesley Moore's textbook on vascular surgery.
- *Jamieson and Ruckley*, Surgical management of vascular disease.

3.c.2: Websites:

- Journal of vascular surgery.
- European journal of vascular surgery
- International angiology
- Annals of Vascular surgery

3.c.3: Recommended books

- Vascular and Endovascular Surgery: A Comprehensive Review by Wesley Moore
- Comprehensive Vascular and Endovascular Surgery: by John W. Hallett Jr.

D) Advanced Surgeries in Vascular (Endovascular Course) specifications (VSUR Td)

Credit Hours: 9

Lectures: 6 credit hour (90 actual hours)

Clinical Practice: 1 credit hours (30 actual hours)

Operative: 2 credit hours (120 actual hours)

3.c- References:

3.c.1: Text books:

- Rutherford *Vascular Surgery*.
- Wesley Moore's textbook on vascular surgery.
- *Jamieson and Ruckley*, Surgical management of vascular disease.

3.c.2: Websites:

- Journal of vascular surgery.

- European journal of vascular surgery
- International angiology
- Annals of Vascular surgery

3.C.3: Recommended books

- Vascular and Endovascular Surgery: A Comprehensive Review by Wesley Moore
- Comprehensive Vascular and Endovascular Surgery: by John W. Hallett Jr

E) Elective Courses

Title: Medical statistics course
Credit Hours: 1 hour
Lecture: 1 h/week **Total:** 30 hours

1-General Surgery Course (Elective course). VSUR 620 CS

2-Cardiothoracic Surgery Course (Elective course). VSUR 620 CS

Teaching methods:

- 4.1: Lecture
- 4.2: Practical class
- 4.3: Small group discussion

(5) Assessment methods:

5.1:Written Examination for assessment of knowledge ILOs and intellectual

5.2: Structured Oral examination for assessment of knowledge and intellectual ILOs.

5.3:MCQ exam for assessment on knowledge and intellectual skills

5.4 Clinical exam (OSCE) for assessment of knowledge; intellectual; practical skills, clinical and communication skills

5.5 Log book for activities for assessment of: Practical skills which are acquired through attending various conferences, thesis discussions, seminars, workshops, scientific lectures as well as self-learning.

5.6: Seminars: The candidate should prepare and present at least one seminar in the weekly Journal club in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

Assessment schedule:

Assessment 1: written exam After 36 months from the start of the job.

Assessment 2: Oral exam After 36 months from the start of the job.

Assessment 3 : MCQ at the end of the semester (15th week)

Assessment 4 : Practical tests After 36 months from the start of the job.

Assessment 5: The candidate should prepare and present at least one seminar in a topic related to the course and determined by the supervisors in front of the department staff (without marks).

Percentage of each Assessment to the total mark:

1st Part MD assessment:

Written exam: 200 Marks including 20% MCQ

2nd Part MD assessment:

Written exam: 252 Marks

MCQ: 63 Marks

Structured Oral exam: 100 Marks

OSCE exam: 100 Marks

Operative exam: 100 Marks

(6) Facilities and resources mandatory for course completion.

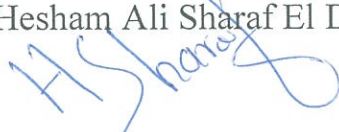
A. Lecture hall: In the Auditorium of Surgery department and lecture hall of the outpatient clinic (Jehan Street). Each hall is equipped with white board, overhead projector, computer, LCD projector, laser pointers, remote slide advancer, DVD player and wireless phones. It is air conditioned.

Library:

The library is located on the 4th floor of Faculty of medicine, Mansoura University

Head of the department:

Name: Hesham Ali Sharaf El Din



.S. All courses' specifications are attached in Appendix III.

Course	a1	a2	a3	a4	a5	a6	a7	a8	a9	a1(a1)	a1	b1	b2	b3	b4	b5	b6	C1	C2	C3	C4	C5	C6	D1	D2	D3	D4	D5	D6	D7
Surgical Anatomy	√				√			√		√		√					√													
Pathology	√	√	√	√	√	√	√	√							√															
Basics of vascular surgery	√		√		√			√		√		√	√			√						√			√					
Arterial course	√	√					√			√					√		√					√				√				√
Venous and lymphatic course			√				√		√						√		√		√		√		√				√			√
Advanced vascular surgery course	√	√		√			√			√		√			√		√		√		√		√		√		√			√