

كلية: الطب

برنامج/ طب النساء والتوليد

*Republic of Yemen*  
**21 September University for Medicals & Applied Sciences**  
**Faculty of Medicine**

**Gynecology and Obstetric Medicine MD**  
**Program Specification**



**Preparation Committee:**

- 1-
- 2-
- 3-

**Program Coordinator:**

- 1-
- 2-

## Program Specifications of MD Gynecology and Obstetrics

### Introduction

The MD in Gynecology and Obstetrics is a five-year clinical doctorate program designed to prepare competent, ethical, and research-oriented specialists in women's reproductive health. The program offers comprehensive academic and clinical training in areas such as prenatal and postnatal care, high-risk pregnancy management, infertility, gynecologic surgery, and reproductive oncology. With a focus on hands-on experience, advanced diagnostics, and evidence-based practice, the program equips graduates to address maternal and neonatal health challenges locally and globally. Students also engage in scientific research and are expected to contribute to scholarly advancements in the field by publishing peer-reviewed work during their study.

### MD Gynecology and Obstetrics Program – General Information

Field	Information
Scientific name of the program	MD in Gynecology and Obstetrics
The body responsible for granting the degree	21 September University – Republic of Yemen
The body responsible for the program	Faculty of Medicine – 21 September University
Departments participating in the program	Department of Obstetrics and Gynecology, Department of Radiology, Department of Pathology, Department of Surgery, Department of Pediatrics
Study Language of the Program	English
Starting year of the program	2025–2026
Study methods in the program	Lectures, seminars, clinical rotations, skills labs, simulations, case-based learning, and research thesis
Location of Delivery	Faculty of Medicine – 21 September University and affiliated teaching hospitals
Study system	Semester-based credit hour system with clinical practicum and thesis
Number of years needed for completion of the program	5 years
Early exit option	Postgraduate Diploma in Reproductive Health Sciences (non-surgical track) after 2 years (if eligible)
Entry requirements	MBBS or equivalent medical degree, completion of internship
Minimum grade requirements	Minimum "Good" grade ( $\geq 2.5$ GPA or 75%)
Other admission requirements	Entry exam, interview, basic computer skills (ICDL), English language proficiency (TOEFL/IELTS)

<b>Prepared by</b>	Department of Obstetrics and Gynecology, Faculty of Medicine
<b>Year of the program Accreditation</b>	2025

University Vision, Mission and Aims	
<b>University Vision</b> ■	
A Contemporary University with National Responsibility and Faith Identity	
<b>University Mission</b> ■	
Leadership of transformation headway in managing and providing the health care with all partners via having the distinction standard in education and applied and medical researches that meet the needs of Yemeni people and regional influence.	
<b>Aims of the University</b> ■	
<ul style="list-style-type: none"><li>• Ensuring the application of quality standards and having the distinction standards in medical and applied sciences, scientific research and community service.</li><li>• Adopting student-centered learning, the partnership with them for life, consolidating the principles of national responsibility and faith identity, looking after them and developing their capabilities after graduation and during work.</li><li>• Attracting and Eemploying scientists, cadres and talents to gain minds and put an end for the “brain drain” in a way that promotes and ensures the availability of thinkers, businessmen and good citizens.</li><li>• Developing the distinguished academic infrastructure continuously and establishing modern research and service centers with high efficiency that can give a real effect locally and regionally.</li><li>• Enhancing the university status as a preferred partner for local, regional and international partnership through implementing creative styles of education, exchanging researches and knowledge, and providing real and effective outcomes for developing professional practices to benefit from them locally and regionally.</li></ul>	

<b>Faculty Vision, Mission and Aims</b>	
<b>Faculty Vision</b> ■	
A distinguished Medical Faculty capable of competing locally and regionally.	
<b>Faculty Mission</b> ■	أ
That the Faculty of Medicine be contemporary in providing a distinguished educational level based on creativity and innovation and a true partner in facing the main national health challenges and in treating patients with high quality based on research to solve problems that leads to integrated health care in an ethical context	
<b>Aims of the Faculty</b> ■	
<ul style="list-style-type: none"><li>• Finding effective solutions for the university hospital, the infrastructure of the College and its annual budget.</li><li>• Addressing the gap in human resources adequately and efficiently, and developing them on a professional basis.</li><li>• Improving the quality and quality of the human medicine program in accordance with quality standards and national and international academic accreditation.</li><li>• Strengthening governance and management systems, consolidating decentralization, and practicing transparency and accountability.</li><li>• Building the students' abilities to think, analyze and solve problems in research methods that qualify them for the labor market and achieve their practical and professional aspirations in the future.</li><li>• Contribute to supporting scientific research directed on the basis of planning related to comprehensive development goals in Yemen.</li><li>• Forming a real and effective partnership with the community, its institutions and its counterparts in a national, Arab and international context</li></ul>	

<b>Department Mission and Aims</b>	
<b>Department Mission</b> ■	
To advance women's health through excellence in teaching, clinical service, and scientific research in the field of Gynecology and Obstetrics, while upholding the highest standards of medical ethics and social responsibility.	
<b>Department Aims</b> ■	
<ol style="list-style-type: none"><li>1. Provide outstanding education and training in the diagnosis, management, and prevention of gynecologic and obstetric conditions.</li><li>2. Conduct and support research addressing local and regional reproductive health priorities.</li></ol>	

3. Deliver high-quality, compassionate care through university-affiliated hospitals and outreach programs.
4. Enhance faculty expertise through academic development and international collaboration.

### Program Mission and Aims

#### Program Mission ■

To provide specialized, research-based education and clinical training in Gynecology and Obstetrics that prepares graduates to deliver comprehensive, evidence-based reproductive healthcare, address maternal and neonatal challenges, and contribute to scientific advancements in women's health at both national and regional levels.

#### Program Aims ■

1. Equip students with advanced theoretical knowledge and clinical competencies in gynecology and obstetrics.
2. Train highly skilled professionals capable of handling routine and emergency reproductive health conditions.
3. Promote ethical medical practice and patient-centered care in women's health.
4. Develop research capacity among trainees to contribute to solutions for maternal, fetal, and neonatal health issues.
5. Foster professional development, lifelong learning, and leadership in clinical and academic gynecology and obstetrics.

### Program Benchmarks

The MD in Gynecology and Obstetrics program was developed according to national, regional, and international benchmarks to ensure academic excellence and global relevance. These include:

#### 1. National Standards:

- Ministry of Higher Education and Scientific Research – Yemen
- National Academic Reference Standards (NARS) for medical postgraduate programs

#### 2. Regional Accreditation Bodies:

- Arab Network for Quality Assurance in Higher Education (ANQAHE)

#### 3. International Universities with Similar Programs:

- [Cairo University– Egypt](#)

- [Home | Assiut University](#)
- [University of Toronto](#)
- [Harvard Medical School – USA](#)
- [King Saud University – Saudi Arabia](#)

#### 4. Professional Bodies:

- [Royal College of Obstetricians and Gynaecologists \(RCOG\)](#)
- [American College of Obstetricians and Gynecologists \(ACOG\)](#)

### Survey of Similar Accredited Programs at National and International Universities (Benchmarks)

Attribute	Program 1	Program 2	Program 3	Program 4	Program 5	Program 6	21 September University
<b>Program Title</b>	MD in Obstetrics & Gynecology	MD in Obstetrics & Gynecology	MD in Obstetrics & Gynecology	MD in Obstetrics & Gynecology	MD in Obstetrics & Gynecology	MD in Obstetrics & Gynecology	MD in Gynecology and Obstetrics
<b>College / Institute Name</b>	Faculty of Medicine	Faculty of Medicine	Faculty of Medicine	Faculty of Medicine	College of Medicine	Faculty of Medicine	Faculty of Medicine
<b>University Name</b>	Cairo University	Assiut University	Ain Shams University	King Saud University	University of Toronto	Harvard Medical School	21 September University
<b>Country</b>	Egypt	Egypt	Egypt	Saudi Arabia	Canada	USA	Yemen
<b>Study Mode</b>	Coursework + Thesis	Coursework + Thesis	Coursework + Thesis	Coursework + Thesis	Coursework + Thesis	Coursework + Thesis	Coursework + Thesis
<b>Attendance Mode</b>	Full-time	Full-time	Full-time	Full-time	Full-time	Full-time	Full-time
<b>No. of Semesters</b>	10	10	10	10	10	10	10
<b>Total Credit Hours (excluding thesis)</b>	43	43	43	43	43	43	43
<b>Credit Hours for</b>	43	43	43	43	43	43	43

<b>Core Courses</b>							
<b>Credit Hours for Electives</b>	0	0	0	0	0	0	0
<b>No. of Core Courses</b>	14	14	14	14	14	14	14
<b>No. of Electives</b>	0	0	0	0	0	0	0
<b>Supplementary Courses (if any)</b>	As needed	As needed	As needed	As needed	As needed	As needed	As needed
<b>Thesis Credit Hours</b>	6	6	6	6	6	6	6
<b>Total Program Credit Hours</b>	49	49	49	49	49	49	49
<b>Thesis Duration</b>	1 year	1 year	1 year	1 year	1 year	1 year	1 year
<b>Minimum Program Duration</b>	5 years	5 years	5 years	5 years	5 years	5 years	5 years
<b>Maximum Program</b>							

## Intended Learning Outcomes (ILOs)

### A. Knowledge and Understanding

Upon completion of the program, the graduate will be able to:

- A1. Demonstrate deep knowledge of female reproductive anatomy, physiology, and pathology.
- A2. Understand the principles and management of normal and high-risk pregnancies.
- A3. Explain diagnostic and therapeutic strategies in gynecology and obstetrics.
- A4. Describe public health aspects of maternal and neonatal care.
- A5. Understand ethical, legal, and professional responsibilities in women's health.

### B. Cognitive (Intellectual) Skills

Graduates will be able to:

- B1. Analyze patient data and synthesize appropriate clinical diagnoses and plans.
- B2. Evaluate current research and apply evidence-based practice in clinical decisions.
- B3. Solve problems related to complex or emergent obstetric and gynecological conditions.
- B4. Design, conduct, and interpret scientific research relevant to reproductive health.

### C. Practical and Clinical Skills

Graduates will be able to:

- C1. Perform core clinical procedures in gynecology and obstetrics.
- C2. Use diagnostic tools and imaging in assessing maternal-fetal conditions.
- C3. Provide prenatal, intrapartum, postpartum, and gynecologic care.
- C4. Manage emergency conditions such as eclampsia, postpartum hemorrhage, and ruptured ectopic pregnancy.
- C5. Document and communicate patient cases effectively.

### D. General and Transferable Skills

Graduates will be able to:

- D1. Demonstrate leadership and collaboration within multidisciplinary healthcare teams.
- D2. Communicate effectively with patients, families, and professionals.
- D3. Apply critical thinking and self-learning in clinical settings.
- D4. Engage in continuous professional development and uphold medical ethics.

### ▪ Program Structure:

#### ▪ Program Structure

- ساعة 30 الحد الأدنى لعدد الساعات المعتمدة أو الوحدات الدراسية لنيل درجة الماجستير في تخصص معين هو ساعات معتمدة للرسالة العلمية 6 معتمدة، ويخصص إضافة لذلك:
- يتكون هيكل البرنامج من المتطلبات التالية:

المتطلبات	عدد المقررات	الساعات المعتمدة	الوزن النسبي
مقررات استدرائية	حسب الحاجة	-	-
مقررات إجبارية	13	43	87.7%
مقررات اختيارية	0	0	
رسالة الماجستير	1	6	12.3%
الإجمالي الكلي	14	49	100%

- أولاً: المقررات الاستدرائية (إن وجدت)
- يجب على المتقدمين غير الحاصلين على خلفيات أكاديمية طبية مناسبة أن يجتازوا دورات تمهيدية والتي قد تكون أي من أو جميع المقررات التالية (حسب قرار لجنة القبول):

اسم المقرر	Course Title	نظرية Th.	عملية Pr.	تمارين/Seminar	Total الإجمالي C.H	المتطلبات القبلية
-	-	-	-	-	-	-

- إجمالي الساعات المعتمدة: حسب الحاجة

■ **Compulsory Courses Summary Table**

Course Title	Code	Th.	Pr.	Seminar	Total C.H.	Study Days	Pre-Requisites
Reproductive Anatomy & Embryology	GYN 601	2	1	0	3	حسب الجدول	-
Endocrinology & Female Physiology	GYN 602	2	1	0	3	حسب الجدول	-
Research Methodology & Biostatistics	GYN 603	2	1	0	3	حسب الجدول	-
Pathology of Female Reproductive System	GYN 604	2	1	0	3	حسب الجدول	GYN 601
Applied Obstetric Physiology	GYN 605	2	1	0	3	حسب الجدول	GYN 602
Obstetric Medicine & Antenatal Care	GYN 606	2	2	0	4	حسب الجدول	GYN 605
Gynecologic Disorders	GYN 607	2	1	0	3	حسب الجدول	GYN 604
Reproductive Infections and STDs	GYN 608	2	1	0	3	حسب الجدول	GYN 607
Family Planning & Public Health	GYN 609	2	1	0	3	حسب الجدول	GYN 606
Infertility & Assisted Reproduction	GYN 610	1	2	0	3	حسب الجدول	GYN 607
Obstetric Emergencies	GYN 611	2	1	0	3	حسب الجدول	GYN 606
Gynecologic Oncology	GYN 612	2	1	0	3	حسب الجدول	GYN 607
Medical Ethics & Professionalism	GYN 613	2	0	0	2	حسب الجدول	-
Clinical Residency in Gyn/Obstetrics	GYN 614	0	6	0	6	حسب الجدول	GYN 606–613

ساعة معتمدة 43 :إجمالي الساعات المعتمدة للمقررات الإجبارية

ثالثاً: المقررات الاختيارية  
لا توجد مقررات اختيارية في هذا البرنامج.  
رابعاً: رسالة الماجستير

على الطالب إعداد ومناقشة رسالة علمية في تخصص طب النساء والتوليد، بواقع 6 ساعات معتمدة

**Curriculum Map – Mapping ILOs with Courses (Summary)**

Course Code	Course Title	A 1	A 2	A 3	A 4	A 5	B 1	B 2	B 3	B 4	C 1	C 2	C 3	C 4	C 5	D 1	D 2	D 3	D 4	
GYN 601	Reproductive Anatomy &	✓									✓									

	Embryology																	
GYN 602	Endocrinology & Female Physiology	✓	✓															
GYN 603	Research Methodology & Biostatistics					✓			✓								✓	✓
GYN 604	Pathology of Female Reproductive System	✓		✓					✓		✓							
GYN 605	Applied Obstetric Physiology		✓					✓										
GYN 606	Obstetric Medicine & Antenatal Care		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓		✓	
GYN 607	Gynecologic Disorders	✓		✓		✓	✓	✓	✓		✓		✓	✓			✓	
GYN 608	Reproductive Infections & STDs			✓	✓	✓	✓	✓	✓		✓		✓	✓			✓	
GYN 609	Family Planning & Public Health			✓	✓	✓	✓	✓	✓				✓	✓			✓	✓
GYN 610	Infertility & Assisted Reproduction	✓		✓		✓	✓	✓	✓		✓	✓	✓	✓			✓	
GYN 611	Obstetric Emergencies		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓
GYN 612	Gynecologic Oncology	✓		✓		✓	✓	✓	✓		✓		✓	✓		✓	✓	

GYN 613	Medical Ethics & Professio nalism				✓	✓									✓	✓	✓	✓	✓
GYN 614	Clinical Residenc y in Gyn/Obst etrics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GYN 700	MD Thesis					✓	✓			✓					✓			✓	✓

### Teaching and Learning Strategies

Strategy	Description
Lectures	Used to deliver theoretical foundations in basic and clinical sciences.
Clinical Rotations	Supervised hands-on training in obstetrics and gynecology wards and clinics.
Simulation and Skills Labs	Practice procedures and emergency responses in controlled settings.
Problem-Based Learning (PBL)	Encourages critical thinking and group discussion of clinical cases.
Case Presentations & Seminars	Enhance diagnostic reasoning and communication through case reviews.
Self-Directed Learning	Independent study with guided readings, online resources, and assignments.
Research Projects	Development of proposals, data collection, analysis, and paper writing.

### Assessment Strategies

Assessment Method	Purpose and Scope
Written Exams	Test comprehension and knowledge application in theoretical domains.
Objective Structured Clinical Exams (OSCEs)	Evaluate clinical skills, decision-making, and communication.
Logbooks & Clinical Checklists	Record clinical procedures and skill competencies during rotations.
Direct Observation	Supervisors assess procedural competence and professionalism.
Research Paper & Thesis	Assess student's research ability and scientific writing.
Presentations & Viva Voce	Test ability to defend knowledge, cases, and research outputs.
Peer & Self-Evaluation	Encourage reflection and personal/professional growth.

### Study Plan (5-Year Distribution)

## Year 1 – Basic Sciences and Foundations

### Total Year 1 – Semester 1: 9 Credit Hours

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 601	Reproductive Anatomy and Embryology	تشريح وتخلق الجهاز التناسلي	2	1	0	3	None
GYN 602	Endocrinology and Female Physiology	فيزيولوجيا الغدد الصماء والأنثوية	2	1	0	3	None
GYN 603	Research Methodology and Biostatistics	منهجية البحث والإحصاء الحيوي	2	1	0	3	None

### Total Year 1 – Semester 2: 6 Credit Hours

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 604	Pathology of Female Reproductive System	أمراض الجهاز التناسلي الأنثوي	2	1	0	3	GYN 601
GYN 605	Applied Obstetric Physiology	فيزيولوجيا الحمل والولادة التطبيقية	2	1	0	3	GYN 602

## Year 2 – Core Clinical Concepts

### Total Year 2 – Semester 1: 7 Credit Hours

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 606	Obstetric Medicine and Antenatal Care	طب التوليد ورعاية الحوامل	2	2	0	4	GYN 605
GYN 607	Gynecologic Disorders	اضطرابات أمراض النساء	2	1	0	3	GYN 604

**Note:** By the end of Year 2, students must submit and publish **two scientific research papers**.

### Total Year 2 – Semester 2: 6 Credit Hours

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 608	Reproductive Infections and STDs	الأمراض المنقولة جنسياً والالتهابات النسائية	2	1	0	3	GYN 607
GYN 609	Family Planning and Public Health	تنظيم الأسرة وصحة المجتمع	2	1	0	3	GYN 606

## Year 3 – Specialized Clinical Training

### Total Year 3 – Semester 1: 6 Credit Hours

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 610	Infertility and Assisted Reproduction	العقم وتقنيات الإخصاب المساعد	1	2	0	3	GYN 607
GYN 611	Obstetric Emergencies	طوارئ التوليد	2	1	0	3	GYN 606

### Total Year 3 – Semester 2: 5 Credit Hours

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 612	Gynecologic Oncology	الأورام النسائية	2	1	0	3	GYN 607
GYN 613	Medical Ethics and Professionalism	الأخلاقيات الطبية والمهنية	2	0	0	2	None

### Year 4 – Clinical Practicum

Course Code	Course Title	Arabic Title	Th	Pr	Tut	Total C.H.	Pre-requisite
GYN 614	Clinical Residency in Gyn/Obstetrics	الإقامة السريرية في أمراض النساء والولادة	0	6	0	6	GYN 606–613

### Year 5 – Thesis

Course Code	Course Title	Arabic Title	Credit Hours
GYN 700	MD Thesis in Gynecology and Obstetrics	رسالة الدكتوراه في أمراض النساء والولادة	6

✓ Total Credit Hours Required for Graduation: 49

### Graduation Requirements

To be eligible for graduation, students must:

- Successfully complete all required courses (core and clinical) and earn at least **43 credit hours**.
- Complete and defend a **thesis worth 6 credit hours**.
- Achieve a **minimum passing grade** in each course as per university regulations.
- Maintain an **overall GPA of at least 2.5 out of 4.0 or 75%**.
- Fulfill all **clinical practicum hours and logbook requirements**.

## Resources and Equipment

To ensure quality delivery of the MD in Gynecology and Obstetrics program, the following resources are required:

- Well-equipped **gynecology and obstetrics skill labs** and operating rooms.
- Simulation units and **training mannequins** for procedures and delivery techniques.
- Advanced **ultrasound and fetal monitoring devices**.
- Access to **maternity wards, NICUs, and gynecology clinics**.
- **Medical libraries** with journal access and reproductive health references.
- IT infrastructure for **e-learning**, virtual case simulations, and research.

## Faculty and Staff Requirements

Academic Rank	Required	Available	Notes
Professors	2	TBD	At least 1 with specialization in obstetrics
Associate Professors	3	TBD	Includes gynecology, reproductive health
Assistant Professors	4	TBD	For imaging, endocrinology, and ethics
Teaching Assistants	4	TBD	Support during labs and clinical sessions

## Program Evaluation and Improvement

Target Group	Evaluation Method	Sample Type
Students	Course feedback surveys	All enrolled students
Faculty	Peer reviews, academic audits	All teaching staff
Alumni	Graduate tracer studies	Selected graduates from past 3 years
Employers	Structured feedback forms/interviews	Hospitals, health institutions
Curriculum Committee	Annual program review meetings	Committee m

**وصف مقررات البرنامج:**