

# Study Guide Gynecology & Obstetrics



## Syllabus MBBS at the AIMC

## SYLLABUS- COMMITTEE

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## Context/ Preamble:

Obstetrics and Gynaecology is an integral part of the undergraduate curriculum. Basis of Obstetrics and Gynaecology is established in the initial years through contribution from basic sciences. It is being taught as a major subject in the last two years of undergraduate program. A minimum of 300 hours have been allocated for Obstetrics and Gynaecology as per latest PMDC rules and regulations.

## Mission:

Our academic mission is to train and develop medical students to practice as a safe Obstetrician and Gynaecologist and to advance in the field of Obstetrics and Gynaecology.

## Competencies:

Communication skill

Critical thinking

Problem solving

Clinical decision making

Examination skill

Procedural skill

## Methodology:

Learning Strategies and situations:

A variety of pedagogies are used in this course, including didactic teaching, team-based and evidence-based learning in class room and patient side environment. Students are encouraged to adopt and inculcate self-learning strategies during the course.

### Learning opportunities:

Teaching ward round  
Case presentation  
Case based discussion  
Short cases in OPD  
Bedside discussion  
Small group discussion  
Self-learning activities  
Observation of operation in OT

### Attendance and discipline:

A record of attendance of medical students, class/test results, end of module/ rotation test result, workshop marks should be updated regularly.  
Head of unit would keep a log of all clinical activities.  
Attendance of each students would be endorsed in his logbook as well.  
Overall 75% attendance is mandatory to appear in final professional exam.

### Course Contents

#### Obstetrics:

Maternal anatomy/ Physiology in pregnancy and labour.

Fertilization, implantation and early development

Physiological changes of pregnancy

Pre-pregnancy care

Antenatal care

Prenatal Diagnosis of fetal abnormalities

Medical Disorders In Pregnancy

Hypertension in pregnancy

Diabetes in pregnancy

Anemia in pregnancy

Heart diseases in pregnancy

Infections in pregnancy

Venous thrombosis and pulmonary embolism

Miscellaneous medical disorders

Obstetrical complications

Antepartum Haemorrhage

Fetomaternal blood group incompatibility

Intrauterine growth retardation

Intrauterine fetal death

Multiple gestation  
Amniotic fluid and its abnormalities  
Preterm labour  
Prolonged pregnancy  
Antenatal Imaging and Assessment Of Fetal Well Being  
Labour  
Birth canal and fetus  
First stage of labour  
Pain relief during first stage of labour  
Abnormal First Stage of labour  
Second Stage of Labour  
Abnormal Second Stage Of Labour  
Third stage of labour and its complications  
Malpresentations ( Breech presentation, transverse lie, Brow , Face and shoulder presentation,  
Cord presentation and prolapse, Malpositions)  
Operative Interventions In Obstetrics  
Obstetric Emergencies  
The Puerium  
Psychiatric Disorders In Pregnancy and The Puerium  
Neonatology  
Maternal And Perinatal Mortality

### GYNAECOLOGY

The development and anatomy of female sexual organs and pelvis  
Gynaecological history , examination and investigations  
Puberty ,menstruation and ovulation  
Abnormal uterine bleeding  
Other disorders related to menstruation  
Amenorrhea  
Abortions  
Ectopic pregnancy  
Endometriosis and adenomyosis  
Uterovaginal prolapse  
Other displacement of uterus  
Subfertility  
Contraception  
Post Menopausal bleeding and Post Coital Bleeding  
Menopause and post reproductive health  
Genitourinary

Lower genital tract infection/ upper genital tract infection  
Fistulae  
Gestational trophoblastic disease  
Benign diseases of vulva , vagina and uterus  
Diseases of cervix  
Malignant diseases of uterus  
Malignant diseases of ovary  
Premalignant and malignant diseases of lower genital tract  
Gynaecological surgery and therapeutics  
Dyspareunia and backache

## Learning objectives:

### General:

To equip them with essential knowledge ,skill and attitude in order to enable them to :  
Diagnose common Obstetrics and Gynaecological problems, suggest and interpret appropriate investigations, rationalize treatment plan and if appropriate refer patients for specialist opinion/ management.  
Suggest preventive measures for the common public health problems in the community  
Perform relevant procedures.  
Convey relevant information and explanation accurately to the patient, families, colleagues and other professionals  
Participate actively and appropriately in an interprofessional health care team  
Understand medical ethics and its application pertaining obstetrics and gynaecology and maintain confidentiality of the patient.  
Adapt research finding appropriately to the individual patient situation or relevant patient.

### Specific:

At the end of session students should be able to:  
Take and present an obstetric history  
Perform general physical examination, examination of heart, lung, breast and thyroid of pregnant women.  
Perform obstetric examination of pregnant patient.  
Take a relevant gynaecological history and examination, examination of prolapse  
Counselling of a pregnant patient regarding balanced diet, and effects of drug abuse/ smoking on fetus  
Interpret CBC, renal function test, liver function test, coagulation test, urine microscopy and culture, OGTT,  
Interpret the results of down syndrome screening test and report of an anomaly scan  
Prepare and interpret partogram of normal laboring woman  
Predict fetal distress on CTG



Insert an IV canula, air way, Foleys catheter, IM /IV / subcuticular injection  
 Participate in management of labour  
 Conduct normal vaginal delivery  
 Observe/ assist operative vaginal delivery  
 Demonstrate the delivery of placenta by controlled cord traction  
 Conduct and assist 3<sup>rd</sup> stage of labour  
 Observe/ assist assisted breech delivery, VBAC  
 Council a woman on breast feeding  
 Council a woman regarding contraception  
 Counselling of a couple with subfertility  
 Interpret the results of hormonal profile and semen analysis.  
 Assist/ perform PAP smear, pipelle endometrial biopsy, HVS  
 Observe/ assist cesarean section, Evacuation and curettage, abdominal and vaginal hysterectomy, IUCD insertion.

### Procedural Skill to be acquired in clinical training:

For 4<sup>th</sup> year students

Level of competency	Procedures
Observe or ideally assist	Female urinary catheterization
Observe or ideally assist	Passage of nasogastric Tube
Observe or ideally assist	Surgical Dressing
Observe or ideally assist	Preparation of iron sucrose solution
Observe or ideally assist	Removal of sutures
Performs under direct supervision	Intra Muscular injection
Performs under direct supervision	Subcutaneous injection
Performs under direct supervision	Obstetrical examination
Performs under direct supervision	Intravenous line

## For Final year students

Level of competency	Procedures
Observe or ideally assist	Female urinary catheterization
Observe or ideally assist	Passage of nasogastric Tube
Observe or ideally assist	Surgical Dressing
Observe or ideally assist	Preparation of iron sucrose solution
Observe or ideally assist	Removal of sutures
Observe or ideally assist	Pippee
Observe or ideally assist	HSG
Observe or ideally assist	Conduct of delivery
Observe or ideally assist	Stitching of episiotomy
Observe or ideally assist	Scrub and assist in C-section, hysterectomy and laparotomy
Observe or ideally assist	Wound closure
Observe or ideally assist	Performing CTG and its interpretation
Observe or ideally assist	Vaginal placement and vaginal ultrasound
Observe or ideally assist	Cervical Foley
Observe or ideally assist	Assisted vaginal delivery

Observe or ideally assist	Cervical and vulvar biopsy
Observe or ideally assist	Vaginal packing of UV prolapse
Observe or ideally assist	Bimanual uterine massage
Performs under direct supervision	Intra muscular Injection
Performs under direct supervision	Subcutaneous injection
Performs under direct supervision	Obstetrical examination
Performs under direct supervision	Intravenous line
Performs under direct supervision	HVS
Performs under direct supervision	Pap smear

### Allocation of Units:

The class will be divided into batches and each batch will be of 15 to 17 students each. Students will have beds allocation. Students will be responsible for seeing all the patients admitted to these beds. And will Record the history, exam findings and results of any investigations.

### Log Book:

Each student will be provided a Log Book. It will be compulsory for the students to maintain the proper record of the Log book and get it signed by the respective teacher on daily basis. Log books will be evaluated during ward tests and professional examinations and marks will be included in internal assessment.

### Assessment/ Feedback of clinical placement:

Assessment is an important aspect of any training program which not only includes assessment of students but also of the training program itself. The performance of each student would be marked and counted toward final internal assessment. The following tools/methods would be used for this purpose.

### Theory:

- Periodical class test
- End modular/ End of Rotation Exams: At the end of each clinical rotation, a theory exam would be held concurrently for the entire class from the syllabus covered during this period.



## Practical:

- Log Book: Each student would complete his log book and get it countersigned from HOD at the end of each rotation. Log book is maintained during the rotation.
- End of Rotation Exam: At the end of each clinical rotation, the whole group would have a clinical exam.

## Examination Format:

Theory paper will consist of:

MCQ's: 50%

Short Essay Question: 50%

Clinical/ practical:

Clinical	240 Marks
OSCE	30 Marks
Internal evaluation	30 Marks
Total	300 Marks

Paper I	90 marks
Internal Evaluation	10 marks
Paper II	90 marks
Internal evaluation	10 marks
Oral & practical	180 marks
Internal evaluation	20 marks
Total	400 marks

## Recommended Reading:

Post office Abbottabad public school islamkot main mansehra road Abbottabad

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Web Site: [www.aimi.edu.pk](http://www.aimi.edu.pk).

- Obstetrics by Ten Teachers
- Gynaecology by Ten Teachers

## Reference Books:

- Evidence based text for MRCOG by David M. Luesley
- Royal college of Obs & Gynae and American College of Obs & Gynae guidelines
- PM&DC approved journals

