

**DEPARTMENT OF OBSTETRICS AND GYNECOLOGY**  
**TEACHING PROGRAM FOR THE FINAL MBBS (PART II) CLINICAL POSTING**

***GENERAL PRINCIPLES***

***GOAL:***

The broad goal of teaching of the undergraduate student in Obstetrics & Gynecology is to empower the student with the necessary knowledge in anatomy, physiology and pathophysiology of the reproductive system and to acquire the necessary skill to manage normal pregnancy and delivery and related problems and to diagnose and treat the common gynecological diseases.

***OBJECTIVES:***

The following theoretical skills have to be acquired by the student at the end of the course.

1. Outline the anatomy, physiology and pathophysiology of reproductive system and the common conditions affecting it, including the preventive aspects.
2. To diagnose and manage normal pregnancy, labour, puerperium and the problems related to these conditions.
3. To list the common causes leading to maternal and perinatal mortality and morbidity and to be aware of the remedial measures for the same.
4. Identify the use and side effects of drugs during pregnancy and to be aware of indiscriminate use of antibiotics and other drugs during obstetric & gynaecological practice.
5. To be aware of the common indications, technique and complications of usually performed operations like caesarean section, hysterectomy etc.
6. Aware of the principles of contraception and the various techniques employed in family welfare practice including medical termination of pregnancy, male and female sterilization.
7. To be familiar with the various National Programmes in relation to maternal and child health, Apart from the above theoretical knowledge, the following practical skills have to be acquired at the end of the course of studies:

- Examine a pregnant woman and diagnose abnormalities like preeclampsia, anaemia, GDM, abnormal presentations and to make appropriate referrals if necessary.
- Conduct a normal labour and to provide postnatal care.
- Resuscitation of newborn babies.
- Perform a pelvic examination and to diagnose common gynaecological diseases.
- Examine a vaginal smear for trichomonas and fungus, and to take a pap smear.
- To offer appropriate contraceptive advice to a couple, and to assist in insertion of
- IUCD.
- Interpret common investigation results (biochemical, histopathological, ultrasound etc)

***INTEGRATION:***

At the end of the training period the student must be able to integrate activities with other departments like community medicine and paediatrics, in programmes like newborn care, immunization, nutrition, and other maternal & child health activities

***General Guidelines for training:***

1. Training in the department of Obstetrics & Gynaecology with facilities prescribed by MCI, for a period of 5 months with due exposure to antenatal, intranatal and postnatal care and family planning and general gynaecological care
2. Of this period of clinical instruction, not less than one month be spent as resident pupil in the department.
3. During this period, the student shall conduct at least 10 normal deliveries under supervision, and assist in 10 cases including abnormal deliveries and obstetric emergencies.  
These cases include postnatal follow up also.
4. The student shall maintain a record of the work done in the department, get it certified from the department and submit for the Final University examination

### ***Syllabus Details***

Duration of course Postings in 5 Semesters (III, V, VI, VIII, IX)

192 Days

Total number of hours:

Theory 300

Lectures 100

Innovative sessions: 200

## **LIST OF 'MUST KNOW' CONDITIONS**

### **A. OBSTETRIC SKILLS**

#### **Clinical skill**

- Assessment of fundal height
- Measurement of symphysis fundal height
- Measurement of girth
- Application of Leopold maneuver
- Application of Crichton maneuver
- Auscultation of fetal heart by Pinard stethoscope
- Auscultation of fetal heart by Doppler
- Diagnosis of abnormal conditions by inspection, palpation, percussion and auscultation
- Diagnosis of PROM by per speculum examination
- Conduct normal deliveries 10
- Assist high risk deliveries 10
- Watch cesarean delivery
- Watch other obstetric procedures

#### **Special skills**

- NST recording
- CST recording
- Partogram plotting

#### ***Ultrasound***

- Diagnosis of pregnancy
- Diagnosis of number of gestations
- Diagnosis of chorionicity
- Reliable gestational age assessment
- Nuchal translucency determination
- Ruling out congenital anomalies
- Study of placenta
- Position
- Retroplacental clot
- Maturity assessment
- Biophysical profile
- Doppler study of important vessels

## **B. GYNECOLOGICAL SKILLS**

- Examination of abdomen
- Examination of external genitalia
- Per speculum examination
- Pap preparation (conventional)
- Wet prep examination

### *Ultrasound*

- Proliferative endometrium
- Secretory endometrium
- PCO, necklace pattern
- Fibroid uterus diagnosis
- Ovarian mass diagnosis
- Copper T location

### *X-Ray*

- Watch HSG Procedure
- Dermoid cyst assessment

### *Other skills*

- Colposcopic study of vulva, vagina and cervix
- Watch minor surgeries
- Endometrial sampling
- FC
- Cervical biopsy
- Copper T insertion
- Polypectomy
- Marsupialization
- TOT

### ***SUGERY WATCHING***

- Watch major surgeries
- Abdominal hysterectomy
- Vaginal hysterectomy
- Ward Mayo surgery
- Staging laparotomy
- Cystectomy
- Laparoscopic procedures
- Ectopic pregnancy
- LAVH
- Sling procedures

### **CLINICAL TEACHING PROGRAMME UNITWISE**

*The in-patient programme comprises of morning bedside clinics.*

*Students ARE posted for obstetric case at 4:00pm, the previous day of presentation*

*The cases are worked out and ready for presentation at 10.30 am on the next morning.*

*Gynecological cases are given on the day of presentation before 0930 AM*

*Here also presentation start at 1030 AM as short case*

*The respective faculty member guides the teaching programme*

*The assigned Junior Resident posts the short and long cases and decides the candidates for presentation*

*Students are graded on their performance.*

*Cases presented are recorded in the log book and marks awarded by the respective faculty member*

### **LABOUR ROOM TRAINING**

#### ***Objectives***

Identification of risk factors by clinical evaluation

Identification of risk factors by investigations

Diagnose lie, presentation, presenting part, position of fetus

Understand the mechanism of normal delivery

Understand the mechanism of twin deliveries

Understand the mechanism of breech delivery

Training in conduct of normal delivery

Assistance in conduct of high risk deliveries

Training in episiotomy suture

Learn more on induction of labour

Training in the preventive aspects of PPH

Training on the preventive measures of other obstetric emergencies

Training in obstetric crisis management

Seminars and group discussions on contemporary obstetrics

### **PART II SCHEDULE PROPER**

| <b>DATE</b>              | <b>TOPIC</b>   | <b>No</b> | <b>AREA</b> | <b>TEACHER</b> |
|--------------------------|--|-----------|-------------|----------------|
| Saturday, July 01, 2017  | OP Procedures-Cu T insertion                         | 3         | OP          | Haridas        |
|                          | Preconceptional counselling                          |           | Ward        | Shyjus         |
|                          | Minor Surgery-NSV                                    |           | OT          | Steffi         |
| Monday, July 03, 2017    | Major Surgery-TAH                                    |           | OT          | Rajeena        |
|                          | OP Procedures-CuT Removal                            | 3         | OP          | Steffi         |
|                          | Dating of pregnancy                                  |           | Ward        | Haridas        |
|                          | Minor surgery-Fenton surgery                         |           | OT          | Surendran      |
| Tuesday, July 04, 2017   | Major surgery-myomectomy                             |           | OT          | Philomina      |
|                          | OP Procedures-Endometrial Sampling                   | 4         | OP          | Asokan         |
|                          | Diagnosis of pregnancy                               |           | Ward        | Rajamma        |
|                          | Minor Surgery-cervical cerclage                      |           | OT          | Amar           |
| Wednesday, July 05, 2017 | Major Surgery-TAH BSO                                |           | OT          | Haridas        |
|                          | OP Procedures-Polypectomy                            | 4         | OP          | Amar           |
|                          | HIV in pregnancy                                     |           | Ward        | Asokan         |
|                          | Minor Surgery-Bartholin Cyst Marsupialization        |           | OT          | Rajamma        |
| Thursday, July 06, 2017  | Major Surgery--Staging laparotomy                    |           | OT          | Steffi         |
|                          | OP Procedure-culdcentesis                            | 4         | OP          | Rajamma        |
|                          | Infections in pregnancy Part I                       |           | Ward        | Amar           |
|                          | Minor Surgery-Bartholin Abscess drainage             |           | OT          | Asokan         |
| Friday, July 07, 2017    | Major Surgery-vaginal hysterectomy                   |           | OT          | Shyjus         |
|                          | OP Procedures-Biopsy of abnormal sites               | 4         | OP          | Shyjus         |
|                          | Physiology of labour                                 |           | Ward        | Steffi         |
|                          | Minor Surgery-FC                                     |           | OT          | Pandu          |
| Saturday, July 08, 2017  | Major Surgery-Ward Mayo surgery                      |           | OT          | Gopeenathan    |
|                          | Special Clinics-infertility clinic                   | 4         | OP          | Haridas        |
|                          | Labour mechanism                                     |           | Ward        | Shyjus         |
|                          | Minor Surgery-FC and biopsy cervix                   |           | OT          | Steffi         |
| Monday, July 10, 2017    | Major Surgery-Laparoscopic sterilization             |           | OT          | Rajeena        |
|                          | Special Clinics-high risk antenatal clinic           | 5         | OP,<br>Ward | Steffi         |
|                          | Infections in pregnancy                              |           | OP,<br>Ward | Haridas        |
|                          | Minor Surgery-cervical biopsy                        |           | OT          | Surendran      |
| Tuesday, July 11, 2017   | Major Surgery-laparoscopic evaluation, endometriosis |           | OT          | Philomina      |
|                          | Special Clinics-postnatal clinic                     | 5         | OP          | Asokan         |
|                          | Labour onset   |           | Ward        | Rajamma        |
|                          | Minor Surgery-evacuation of incomplete abortion      |           | OT          | Amar           |
|                          | Major Surgery-laparoscopic cystectomy                |           | OT          | Haridas        |

|                          |   |   |      |             |
|--------------------------|---|---|------|-------------|
| Wednesday, July 12, 2017 | Obstetric Examination                           |   | OP   | Amar        |
|                          | Chronic pelvic pain                             |   | Ward | Asokan      |
|                          | Minor Surgery-FC                                |   | OT   | Rajamma     |
|                          | Major Surgery-Ward Mayo surgery                 |   | OT   | Steffi      |
| Thursday, July 13, 2017  | Special Clinics-high risk antenatal clinic      |   | OP   | Rajamma     |
|                          | Carcinoma ovary                                 |   | Ward | Amar        |
|                          | Minor Surgery-FC and biopsy cervix              |   | OT   | Asokan      |
|                          | Major surgery-myomectomy                        |   | OT   | Shyjus      |
| Friday, July 14, 2017    | Systemic Examinations for gynecology case       |   | OP   | Shyjus      |
|                          | Gynaecological surgeries                        |   | Ward | Steffi      |
|                          | Minor Surgery-Bartholin Cyst Marsupialization   |   | OT   | Pandu       |
|                          | Major Surgery-Ward Mayo surgery                 |   | OT   | Gopeenathan |
| Friday, July 15, 2016    | OP Procedures-Cu T insertion                    | 3 | OP   | Haridas     |
|                          | Preconceptional counselling                     |   | Ward | Shyjus      |
|                          | Minor Surgery-NSV                               |   | OT   | Steffi      |
|                          | Major Surgery-TAH                               |   | OT   | Rajeena     |
| Monday, July 17, 2017    | OP Procedures-CuT Removal                       | 3 | OP   | Steffi      |
|                          | Dating of pregnancy                             |   | Ward | Haridas     |
|                          | Minor surgery-Fenton surgery                    |   | OT   | Surendran   |
|                          | Major surgery-myomectomy                        |   | OT   | Philomina   |
| Tuesday, July 18, 2017   | OP Procedures-Endometrial Sampling              | 4 | OP   | Asokan      |
|                          | Diagnosis of pregnancy                          |   | Ward | Rajamma     |
|                          | Minor Surgery-cervical cerclage                 |   | OT   | Amar        |
|                          | Major Surgery-TAH BSO                           |   | OT   | Haridas     |
| Wednesday, July 19, 2017 | OP Procedures-Swab taking                       | 3 | OP   | Amar        |
|                          | Foetus in utero                                 |   | Ward | Asokan      |
|                          | Minor Surgery-evacuation of incomplete abortion |   | OT   | Rajamma     |
|                          | Major surgery-interanal iliac artery ligation   |   | OT   | Steffi      |
| Thursday, July 20, 2017  | Systemic Examinations for gynecology case       | 2 | OP   | Rajamma     |
|                          | Systemic Examinations for gynecology case       |   | Ward | Amar        |
|                          | Minor Surgery-Bartholin Cyst Marsupialization   |   | OT   | Asokan      |
|                          | Major Surgery-TAH BSO                           |   | OT   | Shyjus      |
| Friday, July 21, 2017    | Obstetric Examination                           | 2 | OP   | Shyjus      |
|                          | Obstetric Examination                           |   | Ward | Steffi      |
|                          | Minor Surgery-Bartholin Abscess drainage        |   | OT   | Pandu       |
|                          | Major Surgery--Staging laparotomy               |   | OT   | Gopeenathan |
| Saturday, July 22, 2017  | Pelvic Examination Obstetrics                   | 2 | OP   | Haridas     |
|                          | Pelvic Examination Obstetrics                   |   | Ward | Shyjus      |
|                          | Minor Surgery-FC                                |   | OT   | Steffi      |

|                          |  |   |             |             |
|--------------------------|--|---|-------------|-------------|
|                          | Major Surgery-vaginal hysterectomy                   |   | OT          | Rajeena     |
| Monday, July 24, 2017    | OP Procedures-PAP Smear                              | 2 | OP          | Steffi      |
|                          | Bony pelvis  |   | Ward        | Haridas     |
|                          | Minor Surgery-FC and biopsy cervix                   |   | OT          | Surendran   |
|                          | Major surgery-female sterilisation                   |   | OT          | Philomina   |
| Tuesday, July 25, 2017   | OP Procedures-Endometrial Sampling                   | 4 | OP          | Asokan      |
|                          | Diagnosis of pregnancy                               |   | Ward        | Rajamma     |
|                          | Minor Surgery-cervical cerclage                      |   | OT          | Amar        |
|                          | Major Surgery-TAH BSO                                |   | OT          | Haridas     |
| Wednesday, July 26, 2017 | OP Procedures-Polypectomy                            | 4 | OP          | Amar        |
|                          | HIV in pregnancy                                     |   | Ward        | Asokan      |
|                          | Minor Surgery-Bartholin Cyst Marsupialization        |   | OT          | Rajamma     |
|                          | Major Surgery--Staging laparotomy                    |   | OT          | Steffi      |
| Thursday, July 27, 2017  | OP Procedure-culdocentesis                           | 4 | OP          | Rajamma     |
|                          | Infections in pregnancy Part I                       |   | Ward        | Amar        |
|                          | Minor Surgery-Bartholin Abscess drainage             |   | OT          | Asokan      |
|                          | Major Surgery-vaginal hysterectomy                   |   | OT          | Shyjus      |
| Friday, July 28, 2017    | OP Procedures-Biopsy of abnormal sites               | 4 | OP          | Shyjus      |
|                          | Physiology of labour                                 |   | Ward        | Steffi      |
|                          | Minor Surgery-FC                                     |   | OT          | Pandu       |
|                          | Major Surgery-Ward Mayo surgery                      |   | OT          | Gopeenathan |
| Saturday, July 29, 2017  | Special Clinics-infertility clinic                   | 4 | OP          | Haridas     |
|                          | Labour mechanism                                     |   | Ward        | Shyjus      |
|                          | Minor Surgery-FC and biopsy cervix                   |   | OT          | Steffi      |
|                          | Major Surgery-Laparoscopic sterilization             |   | OT          | Rajeena     |
| Monday, July 31, 2017    | Special Clinics-high risk antenatal clinic           | 5 | OP,<br>Ward | Steffi      |
|                          | Infections in pregnancy                              |   | OP,<br>Ward | Haridas     |
|                          | Minor Surgery-cervical biopsy                        |   | OT          | Surendran   |
|                          | Major Surgery-laparoscopic evaluation, endometriosis |   | OT          | Philomina   |

**LABOUR ROOM TRAINING**

| DAY       | TOPIC  | UNIT   |
|-----------|--|--------|
| FRIDAY    | Labour management                              | UNIT 1 |
| SATURDAY  | Complications, second and third stage          | UNIT 2 |
| SUNDAY    | Cesarean delivery                              | UNIT 3 |
| MONDAY    | Drugs in pregnancy, obstetric analgesia        | UNIT 3 |
| TUESDAY   | IUD, IUGR                                      | UNIT 1 |
| WEDNESDAY | Oligohydramnios, polyhydramnios, cord prolapse | UNIT 2 |
| THURSDAY  | Prolonged pregnancy                            | UNIT 3 |
| FRIDAY    | Puerperium normal and abnormal                 | UNIT 1 |
| SATURDAY  | Anaemia in pregnancy                           | UNIT 2 |
| SUNDAY    | APH  | UNIT 1 |
| MONDAY    | Malpresentations                               | UNIT 3 |
| TUESDAY   | Care of newborn                                | UNIT 1 |
| WEDNESDAY | CPD assessment, dysfunctional labour           | UNIT 2 |
| THURSDAY  | Diabetes in pregnancy                          | UNIT 3 |
| FRIDAY    | HD complicating pregnancy                      | UNIT 1 |
| SATURDAY  | HDOP   | UNIT 2 |
| SUNDAY    | Multiple gestations                            | UNIT 2 |
| MONDAY    | PROM   | UNIT 3 |
| TUESDAY   | PTL  | UNIT 1 |
| WEDNESDAY | Rh alloimmunisation                            | UNIT 2 |
| THURSDAY  | Shoulder dystocia                              | UNIT 3 |
| FRIDAY    | TOLAC  | UNIT 1 |
| SATURDAY  | Grand multipara                                | UNIT 2 |
| SUNDAY    | Injury to genital tract                        | UNIT 3 |
| MONDAY    | Bony pelvis Fetal skull, fetus in utero        | UNIT 3 |
| TUESDAY   | Diagnosis and dating of pregnancy              | UNIT 1 |
| WEDNESDAY | Fetal surveillance                             | UNIT 2 |
| THURSDAY  | Labour mechanism, onset and stages             | UNIT 3 |

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