

Syllabus and Examination pattern for Post - Graduate Medical Courses

NOTIFICATION

Ref. :

- (1) Medical Council of India Regulation on Graduate Medical Education, 1997.
- (2) Amendment of the regulations on graduate medical education notified by Government of India from time to time :
 - a. Gazette Notification dated 29.05.1999.
 - b. Notification no. MCI-37 (2)/2001/Med-922, dated 12.04.2001.
 - c. Notification no. MCI-26 (3)/2003/Med-18503, dated 26.09.2003.
 - d. Notification no. MCI-26 (3)/2003/Med-20958, dated 15.10.2003.

In exercise of the powers, conferred under section 26 of Krishna Institute of Medical Sciences Deemed University, the Board of Management in its meeting held on 27th June, 2006, has been pleased to approve the Bye-law pertaining to Post Graduate Medical courses as given in schedule here to Annexed.

The Bye-law as above shall be effective for the students admitted to Post Graduate Medical courses from the academic year 2006-07 onwards.

**By Order
Registrar**

1. This byelaw shall be called Syllabus and Examination pattern for Post-Graduate Medical Course.

Obst. & Gynaecology (M.D.)

During the study period 6 monthly assessment reports is to be forwarded by guide through HOD & Dean to MUHS about the observed progress. Student should not allow to appear for examination if found not satisfactory by local academic committee.

Obstetrics:

1. Basic sciences
 - a. Applied Anatomy in females of genito urinary system, abdomen, pelvis, pelvic floor, anterior abdominal wall and breast.
 - b. Anatomy of fetus.
 - c. Fundamentals of reproduction Gametogenesis fertilization, implantation & early development of human embryo. Placenta - development, structure, functions Amniotic fluid - formation and function fetal growth & development, fetal physiology Birth defects, Genetics & teratology & counseling. Physiological changes during pregnancy, labour and puerperium Endocrinology of pregnancy. Lactation Immunology of pregnancy Molecular biology
1. Normal pregnancy, labour & puerperium. Breast-feeding - baby friendly initiative.
2. Early recognition and prompt management of pregnancy complications, Hyperemesis gravidarum, abortions, ectopic pregnancy hydatidiform mole, Pre eclampsia, eclampsia, Pathophysiology of PIH, Antepartum hemorrhage, multiple pregnancy, polyhydramnios, Oligohydramnios & Prolonged pregnancy.
4. Management of pregnancies complicated by medical, surgical or gynaecological diseases, in consultation with the concerned specialities by team approach.

- Anemia, Heart disease, diabetes mellitus, liver disorders, Respiratory diseases, Renal diseases, CNS disorder, Skin, Psychiatry Hypertensive disorders.
 - Acute abdomen, Acute Appendicitis, Intestinal obstruction, perforations.
 - Fibroids, Ovarian tumors, Carcinoma cervix, genital prolapse.
 - Recent advances in medical and surgical management.
5. Infections in pregnancy. Malaria, Toxoplasmosis, viral infections (Rubella, CMV, Hepatitis B, Herpes) syphilis and other sexually transmitted infections including HIV, Leptospirosis. Parents to child transmission of HIV infection. (PPTCT).
 6. Evaluation of the fetal and maternal health in complicated pregnancy by making use of available diagnostic modalities and plan for safe delivery of the fetus while safeguarding the maternal health. Identification of fetus at risk and management. High-risk pregnancy - Post caesarean pregnancy, prolonged gestation, preterm labour, fetal growth restriction, premature rupture of membranes, blood group incompatibility, recurrent pregnancy wastages. Imaging techniques, CTG.
 7. Prenatal diagnosis of fetal abnormalities and appropriate care. Fetal therapy. PNDT Act and its implications.
 8. Partographic monitoring of labour progress, early recognition of dysfunctional labour and appropriate interventions during labour including active management of labour.
 9. Obstetrical analgesia and anesthesia.
 10. Induction and augmentation of labour.
 11. Management of abnormal labour: Abnormal pelvis, soft tissue abnormalities in birth passage, Malpresentation and malpositions of fetus, abnormal uterine action, obstructed labour and cervical dystocia. Third stage complications - PPH including surgical management, retained placenta, uterine inversion, post partum collapse, amniotic fluid embolism.
 12. Abnormal puerperium, Puerperal sepsis Thrombophlebitis, Mastitis, Puerperal venous sinus thrombosis, Psychosis.
 13. National Health Programmes to improve the maternal and child health, social obstetrics and vital statistics. (Maternal and Perinatal mortality).
 14. Drugs used in obstetric practice including prostaglandins. FDA Classification.
 15. Coagulation disorders in obstetrics, Blood and component therapy.
 16. Operative obstetrics - decision-making, technique, recognition and management of complications - C.S. instrumental delivery, obstetrics hysterectomy, role of destructive surgery. Manipulations-version, MRP etc. Forceps, Vacuum, Internal iliac artery ligation.
 17. Intensive care in obstetrics for critically ill patient. Fluid and electrolyte balance, volume status maintenance, protecting vital organ function.
 18. Provision of safe abortion services - selection of case, techniques, and management of complications. Septic abortion, Criminal abortion, MTP Act Adoption laws.

New Born

1. Care of newborn care of preterm, S.G.A. neonates, infants of diabetic mother.
2. Asphyxia & Neonatal resuscitation (Respiratory distress syndrome and Meconium aspiration syndrome).
3. Neonatal sepsis - prevention, early detection & management.
4. Neonatal hyperbilirubinemia, investigation and management.
5. Birth trauma - prevention, early detection & management.

6. Detection of congenital malformations in newborn and make timely referrals for surgical corrections.
7. Management of the common problems in neonatal period.

Gynecology:

Basic sciences

Development of genital tract and associated malformations. Basics of breast diseases related to ob/gy. Applied anatomy of female genital tract, abdominal wall and urinary tract.

1. Physiology of menstruation and ovulation Physiology of spermatogenesis Endocrinology - hypothalamus pituitary, thyroid and adrenal glands Neurotransmitters Common menstrual disorders and their management.
2. Diagnosis and surgical management of clinical conditions related to congenital malformations of genital tract. Reconstructive surgery in gynaecology.
3. Chromosomal abnormalities and intersex. Ambiguous sex at birth.
4. Reproductive Endocrinology: Evaluation of primary and secondary amenorrhoea, management of hyperprolactinemia, Hirsutism, chronic anovulation and PCOD. Thyroid dysfunction.
5. Endometriosis and adenomyosis - medical and surgical management.
6. Infertility evaluation and management. Use of ovulation induction methods and Tubal microsurgery, Assisted reproduction techniques, management of immunological factors in infertility. Adoption law, medico-legal and ethical issues.
7. Reproductive Tract Infections, Sexually Transmitted Infections, and HIV/AIDS: Prevention, Diagnosis and management. Genital Tuberculosis.
8. Screening for genital malignancies - cytology, colposcopy and biochemistry. Management of premalignant lesions.
9. Benign and malignant tumors of genital tract - Early diagnosis and management.
10. Principles and practice of oncology in gynaecology - chemotherapy, radiotherapy, palliative treatment.
11. Supports of pelvic organs , genital prolapse, surgical management of genital prolapse.
12. Common urological problems in gynaecology - SUI, voiding difficulties, VVF, urodynamics, surgical repair of genital fistulae, ureteric and bladder injuries.
13. Management of menopause, prevention of complications, HRT, cancer screening - genital, breast.
14. Recent advances.
15. Newer diagnostic aids - USG, interventional sonography, other imaging techniques, endoscopy.
16. Hysteroscopy, laparoscopy - diagnostic, simple surgical procedures, including laparoscopic tubal occlusion, endometrial ablative techniques, colposcopy.
17. Medicolegal aspects, ethics, communications and counselling.(SEXUAL / ASSAULTS).
18. Operative gynaecology - Selection of case, technique and management of complications of minor and major gynaecology procedures.
 - Abdominal and vaginal hysterectomy
 - Surgical procedures for genital prolapse

- Surgical management of benign and malignant genital neoplasms.
 - Repair of genital fistulae, SUI
 - Operative endoscopy - Laparoscopic, Hysteroscopic
19. Recent advances in gynaecology - diagnostic and therapeutic.
 20. Special groups - Pediatric and adolescent gynaecology, geriatric gynaecology.
 21. Evidence based management.

Family Planning:

1. Demography and population Dynamics.
2. Contraception - Temporary methods. Permanent methods (vasectomy and female sterilization) Legal issues.
3. MTP Act and procedures of MTP in first & second trimester. (Recent Amendments, Legal/ethical issues)
4. Emergency contraception.
5. Recent advances, new development, Future research work in contraceptive technology.

Recommended Books-

Obstetrics

Must Read

C.S.Dawn's Textbook of Obstetrics and Neonatology.
 Ian Donald Practical Obstetrics problem.
 Munro-Kerr's Operative Obstetrics.

Desirable to Read

Medical Disorders in Pregnancy by DeSwiet.
 Obstetrics by Ian Donald.
 Arias, High Risk Pregnancy.
 Progress in OBGY, Studd.

Good to read

High Risk pregnancy by James.
 Williams Obstetrics.
 Operative Obstetrics by Douglas.
 Recent Advances in Obst/Gyn.
 All on net.
 FOGSI Books.

Gynecology

Must Read

Novacs Gynecology.
 TeLindes Operative Gynecology.
 C.S.Down's Textbook of gynecology and contraception.
 Bereks gynecological Oncology.
 Gynecology by P.K.Devi
 Jeffcoat's Bonney's Principles of Gynaecology.

Desirable to Read

Reproductive Endocrinology by Speroff.
 Infertility by Insler.
 Endocrinology by Rajan.
 Gynecology by Gold.

Operative Gynecology

Good to read

Gynecology Devherst.
All on net.
FOGSI Books.
Shaws textbook of gynecology.

Family Planning

Must Read

Family Planning Practices by S.K. Chaudhary.
C.S.Dawn's book on Contraception.

Desirable to Read

Reproductive endocrinology by Speroff.

Good to Read

Population reports.

Journals/ Periodicals;

Must Read

Clinic in Obst. & gynecology
North American clinic in ObGy
J. Obst. Gyn India

Desirable to Read

Year books
Annuals

Good to read

Am J Obst Gynec
Br. J Obst Gynec.
Obstet Gynec Survey
Fertility & Sterility

Scheme of Examination

Theory

4 papers, 100 marks each. Duration 3 hours.

Paper I:

Basic sciences in Obstetrics and gynecology including the diseases of newborn.

Paper II:

Clinical Obstetrics including newborn.

Paper III:

Clinical Gynecology

Paper IV:

Recent advances in Ob/Gy

*Include the basic sciences and recent advances in the subject.

Each paper will have following pattern-

10 questions MCQ	10 marks
4 questions 20 marks each (liberty to divide in 2)	80 marks
2 short notes out of 3. marks	10

Total Theory **marks 400**

Practical

02 Obstetric cases	50+50=100 marks (equal wattage)
02 Gynaec cases	50+50=100 marks (equal wattage)
10 Spots 5 marks each	50 = 50 marks
05 cases Ward round	50 = 50 marks

02 Viva Obstetrics 50 Gynaec 50 = 100 marks

Total practical **marks 400**