

D.Y. PATIL EDUCATION SOCIETY [Deemed to be University], Kolhapur Re-accredited by NAAC with 'A' Grade

D.Y. PATIL MEDICAL COLLEGE KOLHAPUR

Syllabus For

NATIONAL MEDICAL COMMISSION

Postgraduate Medical Education Board

GUIDELINES FOR COMPETENCY BASED POSTGRADUATE TRAINING PROGRAMME FOR

MS IN OBSTETRICS & GYNAECOLOGY

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Year of Implementation: 2022-23 Year of Examination: 2025-26

MS- OBSTETRICS & GYNAECOLOGY

Vision

Empowering women to achieve healthier lives... It all starts here.

Mission

- Promote the highest standard of obstetric, gynecologic, and reproductive health through personalized clinical care based on the latest research and innovation.
- Create future leaders in obstetric, gynecologic, and reproductive health and enhance life-long learning for all health professionals in our community through thoughtful and innovative education.
- Conduct research that provides evidence to expand the boundaries of our knowledge, and to inform the practice and improve the quality of obstetric, gynecologic, and reproductive healthcare.

Preamble

The purpose of PG education is to create specialists who would provide high quality healthcare and advance the cause of science through research & training.

The purpose of MS Obstetrics and Gynaecology is to standardize Obstetrics & Gynaecology teaching at Post Graduate level so that it will benefit in as well and resultantly creating competent Obstetrician and Gynaecologist with appropriate expertise.

The purpose of this document is to provide teachers and learners illustrative guidelines to achieve defined outcomes through learning and assessment.

Programme Outcomes

1. Graduate Attributes: Medical and Scientific Knowledge.

PO 1:

- Demonstrate knowledge of normal and abnormal human structure, function and development from a molecular, cellular, biologic, clinical, behavioral and social perspective.
- Demonstrate knowledge about established and evolving biomedical and clinical sciences.
- Demonstrate knowledge of national and regional health care policies including the National Health Mission that incorporates National Rural Health Mission (NRHM) and National Urban Health Mission (NUHM), frameworks, economics and systems that influence health promotion, health care delivery, disease prevention, effectiveness, responsiveness, quality and patient safety.

2. Graduate Attributes: Planning Patient Care and problem solving abilities PO 2:

- Demonstrate ability to apply this knowledge to the practice of medicine in routine, emergency and disaster situations.
- Demonstrate ability to appraise and assimilate scientific evidence into their own ongoing learning, research, and patient care.
- Demonstrate ability to choose the appropriate diagnostic tests and interpret these tests based on scientific validity, cost effectiveness and clinical context
- Demonstrate ability to provide evidence-based care that is compassionate, respectful of patients' differences, values, and preferences.

3. Graduate Attributes: Professional excellence & Ethics

PO 3:

- Demonstrate commitment to the highest standards of professional responsibility towards patient, colleagues, society, growth of medical professional and adhere to universally accepted code of ethics.
- Demonstrate personal attributes of compassion, honesty, integrity, accountability, empathy in patient encounters.

4. Graduate Attributes: Communication Skills.

PO 4:

- Demonstrate ability to communicate effectively, respectfully, non-judgemental, empathetic manner with patients, their families and colleagues that will improve patient satisfaction, health care and encourages participation and shared decision-making.
- Demonstrate the ability to listen clearly, inform, communicate and educate patients &/ caregivers for the promotion of health, diagnosis of disease and the treatment of illness; advocate for disease prevention, wellness and the promotion of healthy lifestyles including a focus on population health

5. Graduate attributes: Leader & Member of the health care team & System PO 5:

- Demonstrate the ability to work effectively, efficiently & in rational way with his/ her colleagues and other team members, educate & motivate the team members in a manner to maximize the health delivery potential of the team, considering various roles, responsibilities and competencies of the other health professionals.
- Identify the self- potential, functioning ability as a team leader in primary and secondary health care settings, utilize various indicators of the health care system and to promote appropriate, low cost, ethical, fair and qualitative health delivery.

6. Graduate attributes: Life long learner

PO 6:

- Demonstrate ability to acquire new knowledge, skills and reflect upon their experience to enhance personal and professional growth and apply the information in the care of the patient.
- Demonstrate self-motivation and awareness to their own limitations.
- Demonstrate ability to introspect and utilize experiences, to enhance personal and professional growth and learning.

7. Graduate attributes: Research Aptitude

PO7:

 Demonstrate an attitude of inquiry/search/investigation, scientific and objective effort to uncover facts.

8. Graduate attributes: Societal Responsibilities

PO8:

Demonstrate accountability in fulfilling their duty for the benefit of the entire society.

9. Graduate attributes: Awareness towards Environment and sustainability PO9:

 Demonstrates responsibility to conserve natural resources and protect global ecosystems to support health and wellbeing, now and in the future.

Course Outcome

CO1: To understand the basic sciences (Anatomy physiology biochemistry pathology) in relation to female reproductive system including normal and abnormal development of female reproductive system.

CO2: To provide effective and adequate care to the community in the diagnosis and management of antenatal intranatal and postnatal period of normal and complicated pregnancy and labour.

CO3: To provide effective and adequate care to a normal and high risk neonate including counselling for breast feeding and perform neonatal resuscitation.

CO4: To perform basic obstetrical ultrasound in normal and abnormal pregnancy including Doppler.

CO5: To understand the basic sciences (Anatomy physiology biochemistry pathology) in relation to female reproductive system including normal and abnormal development of female reproductive system.

CO6: To understand the principle of medical legal aspects in obstetrics and gynaecoloy which includes knowledge of MTP act sterilisation PCPNDT act and enumerate leading causes of maternal, perinatal morbidity and mortality and describe the national programme of maternal and child health and family welfare and their implementation.

CO7: To perform basic and advanced surgical skills for obstetrics and gynaecology surgeries and understand their complications and their effective management as well as understand various newer treatment modalities in obstetrics and gynaecology.

CO8: To provide counselling and family welfare services including various methods of contraception and perform medical termination of pregnancy (MTP)

CO9: To develop diagnosis for common gynaecological conditions, perform complete physical examination with an emphasis on gynaecologic examination and plan for management of such conditions

CO10: To provide effective health care to the community in the diagnosis screening and management of all gynaecological malignancies including pregnancy

CO11: To conduct complete evaluation of infertile couple and have a broad based knowledge of assisted reproductive techniques including ovulation induction invitro fertilisation and intracytoplasmic sperm injection gamete donation surrogacy and the legal and ethical implication of these procedures

CO12: To understand the pharmacology of drugs used during pregnancy and lactation and drugs like hormones antibiotics chemotherapeutic agents used in gynaecological conditions

CO13: To acquire full understanding of research methodologies and use of newer information technologies and Keep abreast with advances in the field of Obstetrics & Gynaecology.

SUBJECT SPECIFIC LEARNING OBJECTIVES

Programme Objectives

The goal of the MS course in Obstetrics and Gynaecology is to produce a competent Obstetrician and Gynaecologist who can:

- a. Provide quality care to the community in the diagnosis and management of Antenatal, Intra-natal and Post-natal period of normal and abnormal pregnancy and labor.
- b. Provide effective and adequate care to a pregnant woman with complicated pregnancy.
- c. Provide effective and adequate care to a normal and high risk neonate.
- d. Perform obstetrical ultrasound in normal and abnormal pregnancy including Doppler.
- e. Manage effectively all obstetrical and gynecological emergencies and if necessary make appropriate referrals.
- f. Provide quality care to the community in the diagnosis and management of gynaecological problems including screening, and management of all gynecological cancers including during pregnancy.
- g. conduct a comprehensive evaluation of infertile couple and have a broad based knowledge of assisted reproductive techniques including – ovulation induction, invitro fertilization and intra-cytoplasmicsperm injection, gamete donation, surrogacy and the legal and ethical implications of these procedures.
- h. provide counseling and delivery of fertility regulation methods including reversible and irreversible contraception, emergency contraception etc.
- provide quality care to women having spontaneous abortion or requesting Medical Termination of Pregnancy(MTP) and manage their related complications.

SUBJECT SPECIFIC COMPETENCIES

A. Cognitive Domain

At the end of the MS Course in Obstetrics and Gynaecology, the student should have acquired knowledge in the following:

- recognizes the healthneeds of women and adolescents and carries outprofessional and the substitution of the substitution ofobligations in keeping with principles of National Health Policy and professional ethics
- has acquired the competencies pertaining to Obstetrics and Gynaecology that are required to be practiced in the community and at all levels of health system
- on genetics as applicable to Obstetrics.
- On benign and malignant gynecological disorders.

- On Gynecological Endocrinology and in fertility.
- On interpretation of various laboratory investigations and other diagnostic modalities in Obstetrics & Gynecology.
- On essentials of Pediatric and adolescent Gynecology.
- On care of postmenopausal women and geriatric Gynecology.
- On elementary knowledge of female breast & its diseases.
- On vital statistics in Obstetrics & Gynecology.
- Anesthesiology related to Obstetrics & Gynecology.
- Reproductive and Child Health, family welfare & reproductive tract infections.
- STD and AIDS & Government of India perspective on women's health related issues.
- Medico-legal aspects in Obstetrics & Gynecology.
- Asepsis, sterilization and disposal of medical waste.
- Be able to effectively communicate with the family and the community
- Is aware of the contemporary advances and developments in medical sciences as related to Obstetrics and Gynecology.
- Maintain medical records properly and know the medico-legal aspects in respect of **Obstetrics & Gynecology**
- Understands the difference between audit and research and how to plan are search project and demonstrate the skills to critically appraise scientific data and literature
- Has acquired skills in educating medical and paramedical professionals

Ethical and Legal Issues:

The postgraduate student should understand the principles and legal issues surrounding informed consent with particular awareness of the implication for the unborn child, post mortem examinations consent to surgical procedures including tubal ligation/vasectomy, parental consent and medical certification, research and teaching and properly maintain medical records.

Risk Management:

The postgraduate student should demonstrate a working knowledge of the principles of risk management and their relationship to clinical governance and complaints procedures.

Confidentiality:

The postgraduate student should:

- be aware of the relevant strategies to ensure confidentiality and when it might be broken.
- Understand the principles of adult teaching and should be able to teach common practical procedures in Obstetrics and Gynecology and involved in educational programme in Obstetrics and Gynecology for medical and paramedical staff.
- Be a breast with all recent advances in Obstetrics and Gynecology and practice evidence based medicine.

Use of information technology, audits and standards:

- The postgraduate student should:
- Acquire a full understating of all common usage of computing systems including the principles of data collection, storage, retrieval, analysis and presentation.
- Understand quality improvement and management and how to perform, interpret and use of clinical audit cycles and the production and application of clinical standards, guidelines and protocols.
- Understand National Health Programmes related to Obstetrics and Gynecology and should be aware of all the Acts and Laws related to specialty.

Health of Adolescent Girls and Post-Menopausal Women

The student should:

- Recognize the importance of good health of adolescent and postmenopausal women.
- Identification and management of health problems of post-menopausal women.
- Understanding and planning and intervention program of social, educational and health needs of adolescent girls and menopausal women.
- Education regarding rights and confidentiality of women's health, specifically related to reproductive function, sexuality, contraception and safe abortion.
- Geriatric problems.

Reproductive Tract and 'HIV' Infection

- Epidemiology of RTI and HIV infection in Indian women of reproductive age group.
- Cause, effect and management of these infections.
- HIV infections in pregnancy, its effects and management.
- Relationship of RTI and HIV with gynecological disorders.
- Planning and implementation of preventive strategies.

Medico-legal Aspects

- Knowledge and correct application of various Acts and Laws while practicing Obstetrics and Gynecology, particularly MTP Act and sterilization, Preconception and P.N.D.T. Act.
- Knowledge of importance of proper recording off acts about history, examination findings, investigation reports and treatment administered in all patients.
- Knowledge of steps recommended for examination and management of rape cases.
- Knowledge of steps taken in the event of death of a patient.
- Simulation based training.
- Knowledge of POCSO prepare scenarios.

A. Affective domain

- 1. Should be able to function as a part of a team, develop an attitude of cooperation with colleagues, and interact with the patient and the clinician or other colleagues to provide the best possible diagnosis or opinion.
- 2. Always adopt ethical principles and maintain proper etiquette in dealings with patients, relatives and other health personnel and to respect the rights of the patient including the right to information and second opinion.
- 3. Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.

B. Psychomotor domain

At the end of the course, the student should acquire following clinical & operative skills and be able to:

Operative Skills in Obstetrics and Gynaecology

- Adequate proficiency in common minor and major operations, post-operative management and management of their complications.
- Operative procedures which must be done by P G students during training period: (in graded manner assisting, operating with senior person assisting, operating under supervision)

(Operations MUST BE DONE/OBSERVED during PG training programme and logbook maintained)

1. Obstetrics:

- Venesection, culdocentesis
- Conduct normal deliveries Episiotomy and its repair
- Application off orceps and vento use(10).
- Carryout caesarian section delivery (10mustbedone)
- Manual removal of placenta
- Management of genital tract obstetrical injuries.

- Postpartum sterilization/Minilaptuballigation (20mustbedone)
- Medical termination of pregnancy-various methods(20 must be done)

2. Gynaecology:

- Endometrial/cervical biopsy.
- Dilatation and curettage
- Coldocentesis,
- Colpotomy
- Opening and closing of abdomen(10 must be done)
- Operations for pelvicorgan prolapse
- Ovariancyst operation
- Operation for ectopic pregnancy
- Vaginal and abdominal hysterectomy

Operations must be OBSERVED and/or ASSISTED when possible:

- Internal podalic version
- Caes are a Hysterectomy
- Internali liacartery ligation- cadaveric dissection
- Destructive obstetrical operations
- Tubal micro surgery
- Radical operations for gynaec malignancies
- Repair of genital fistulae
- Operations for in continence
- My omectomy, Laparoscopic and hysteroscopic surgery

Diagnostic Procedures

- Interpretation of x-rays- Twins, common fetalmal formations/mal-presentations, abnormal pelvis (pelvimetry), Hysterosalpingo graphy
- Sonographic pictures at various stages of pregnancy-normal and abnormal pregnancies, Fetal biophysical profile, common gynaecological pathologies.
- Amniocentesis- simulation lab
- Fetal surveillance methods- Electronic fetal monitoring and its interpretation
- Post-coital test
- Vaginal Pap Smear
- Colpo scopy
- Endoscopy- Laparo and Hystero-scopy.

Health of Adolescent Girls and Post-Menopausal Women

- Provide advice on importance of good health of adolescent and post menopausal women.
- Identification and management of health problems of post-menopausalwomen.
- Planning and intervention program of social, educational and health needs of adolescent girls and menopausalwomen.
- Provide education regarding rights and confidentiality of women's health, specifically related to reproductive function, sexuality, contraception and safe abortion.
- Provide advice on geriatric problems.

Reproductive Tract and HIV Infection

- Provide advice on management of RTI and HIV infections in Indian women of reproductive age group.
- Provide advice on management of HIV infections in pregnancy, relationship of RTI and HIV with gynaecological disorders.
- Planning and implementation of preventive strategies

Medico-legal Aspects

- Correct application of various Acts and Laws while practicing obstetrics and gynaecology, particularly MTP Act and sterilization, Preconception and P.N.D.T. Act.
- Implement proper recording off acts about history, examination findings, investigation reports and treatment administered in all patients.
- Implement the steps recommended for examination and management of rape cases.
- Follow proper procedures in the event of death of a patient.

Environment and Health

- Follow proper procedures in safe disposal of human body fluids and other materials.
- Follow proper procedures and universal precautions in examination and surgical procedures for the prevention of HIV and other diseases.
- Follow pollution control document.

Syllabus

Course contents

Paper I

1. Basic Sciences

- Normal and abnormal development, structure and function (female and male) urogenital system and female breast.
- Applied Anatomy of genito-urinary system, abdomen, pelvis, pelvic floor, anterior abdominal wall, upper thigh (inguinal ligament, inguinal canal, vulva, rectum and analcanal).
- Physiology of spermatogenesis.
- Endocrinology related to male and female reproduction (Neuro transmitters).
- Anatomy and physiology of urinary and lower GI(Rectum/analcanal)tract.
- Development, structure and function of placenta, umbilical cord and amniotic fluid.
- Anatomical and physiological changes in female genital tract during pregnancy.
- Anatomy offetus, fetal growth and development, fetal physiology and fetal circulation.
- and neuro-endocrinal changes during puberty, Physiological adolescence. menstruation, ovulation, fertilization, climacteric and menopause.
- Biochemical and endocrine changes during pregnancy, including systemic changes in cardiovascular, hematological, renal hepatic, renal, hepatic and other systems.
- Biophysical and biochemical changes in uterus and cervix during pregnancy and labor.
- Pharmacology of identified drugs used during pregnancy, labour, post-partum period in reference to their absorption, distribution, excretion, (hepatic) metabolism, transfer of the drugs across the placenta, effect of the drugs (used) on labor, on fetus, their excretion through breast milk.
- Mechanism of action, excretion, metabolism of identified drugs used in the management of Gynaecological disorder.
- Role of hormones in Obstetrics and Gynaecology.

Markers in Obstetrics & Gynaecology-Non-neoplastic and neoplastic diseases

- Patho physiology of ovaries, fallopian tubes, uterus, cervix, vagina and external genitaliain healthy and diseased conditions.
- Normal and abnormal pathology of placenta, umbilicalcord, amniotic fluid and fetus.
- Normal and abnormal microbiology of genital tract. Bacterial, viral and parasitical infections responsible for maternal, fetal and gynaecological disorders.
- Humoral and cellular immunology in Obstetrics & Gynaecology.

- Gametogenesis, fertilization, implantation and early development of embryo.
- Normal Pregnancy, physiological changes during pregnancy, labor and pauperism.
- Immunology of pregnancy.
- Lactation.

Medical Genetics

- Basic medical genetics including cyto genetics.
- Pattern of inheritance
- Chromosomal abnormalities- types, incidence, diagnosis, management and recurrence risk.
- General principles of Teratology.
- Screening, counseling and prevention of developmental abnormalities.
 - Birth defects-genetics, teratology and counseling.

Paper II

Clinical obstetrics

1. Antenatal Care:

- Prenatal care of normal pregnancy including examination, nutrition, immunization and follow up.
- Identification and management of complications and complicated of pregnancy abortion, ectopic pregnancy, vesicular mole, Gestational trophoblastic Diseases ,hyperemesis gravidarum, multiple pregnancy, antipartum hemorrhage, pregnancyinducedhypertension,preeclampsia,eclampsia,Otherassociatedhypertensived isorders, Anemia, Rh incompatibility, diabetes, heart disease, renal and hepaticdiseases,preterm-posttermpregnancies,intrauterinefetalgrowthretardation,
- Neurological, hematological, dermatological diseases, immunological disorders and other medical and surgical disorders/problems associated with pregnancy, Multiple pregnancies, Hydramnios, Oligoamnios.
- Diagnosis of contracted pelvis(CPD) and its management.
- High-risk pregnancy
- Pregnancy associated with complications, medical and surgical problems.
- Prolonged gestation.
- Preterm labor, premature rupture of membranes.

- Blood group in compatibilities.
- Recurrent pregnancy wastage.
- Evaluation of fetal and maternal health in complicated pregnancy by making use of diagnostic modalities including modern ones(USG,Doppler,Electronicmonitors) and plan for safe delivery for mother and fetus. Identifying fetus at risk and its management. Prenatal diagnostic modalities including modern ones.
- Infections in pregnancy (bacterial, viral, fungal, protozoan)
- Malaria, Toxoplasmosis.
- Viral-Rubella, CMV, Herpes, HIV, Hepaticviral infections (B, Cetc)
- Sexually Transmitted Infections(STDs)
- Mother to fetal transmission of infections.
- Identification and management of fetalmal positions and mal presentations.
- Management of pregnancies complicated by medical, surgical (with other specialties as required) and gynecological diseases.
- Anemia, hematological disorders
- Respiratory, Heart, Renal, Liver, skin diseases.
- Gastrointestinal, Hypertensive, Autoimmune, Endocrine disorders.
- Associated Surgical Problems.
- Acute Abdomen (surgical mergencies- appendicitis and lemergencies). Other associated surgical problems.
- Gynaecological disorders associate with pregnancy-congenital genital tract developmental anomalies, Gynaec pathologies - fibroid uterus, Ca Cx, genital prolapse etc.
- Prenatal diagnosis(of fetal problems and abnormalities), treatment—Fetal therapy
- M.T.P,PC & P.N.D.T Act etc
- National health MCH programs, social obstetrics and vital statistics
- Recent advances in Obstetrics

2. Intra-partum care:

- Normallabor –mechanism and management.
- Partographic monitoring of labor progress, recognition of abnormal labor and its appropriate management.
- Identification and conduct of abnormal labor and complicated delivery breech, forceps delivery, caesarian section, destructive operations.
- Induction and augmentation of labor.
- Management of abnormal labor Abnormal pelvis, soft tissue abnormalities of birth canal, mal-presentation, mal-positions offetus, abnormal uterine action, obstructed labor and other distocias.
- Analgesia and anaesthesia in labor.
- Maternal and fetal monitoring in normal and abnormal labor (including electronic fetal monitoring).
- Identification and management of intrapartum complications, Cord presentation, complication of 3rd stage of labor - retained placenta, inversion of uterus, rupture of uterus, post partum hemorrhage.

3. Post Partum

- Complication of 3rd stage of labor retained placenta, inversion of uterus, postpartum hemorrhage, rupture of uterus, Management of primary and secondary post-partum hemorrhage, retained placenta, uterine inversion. Post-partum collapse, amniotic fluide mbolism
- Identification and management of genital tracttrauma- perinealtear, cervical/vaginal tear, episiotomy complications, ruptureuterus.
- Management of critically millwoman.
- Postpartum shock, sepsis and psychosis.
- Postpartum contraception.
- Breastfeeding practice; counselling and importance of breast-feeding. Problems in breast-feeding and their management, Baby friendly practices.
- Problems of newborn-at birth(resuscitation), management of early neonatal problems.
- Normal and abnormal purpureum sepsis, thrombophlebitis, mastitis, psychosis. Hematological problems in Obstetrics including coagulation disorders. Use of blood and blood components/products.

4. Operative Obstetrics:

- Decision-making, technique and management of complications.
- Vaginal instrumental delivery, Caesarian section, Obst. Hysterectomy, destructive operations, manipulations (External/internal podalic version, manual removal of placenta etc)
- Medical Termination of Pregnancy safe abortion selection of cases, technique and management of complication. MTP law.

5. New Born

- 1. Care of newborn: Normal and highrisk newborn including NICU care).
- 2. As phyxia and neonatal resuscitation.
- 3. Neonatalsepsis- prevention, detection and management.
- 4. Neonatal hyper-bilirubinemia-investigation and management.
- 5. Birth trauma-Detection and management.
- 6. Detection and management of fetal/neonatal malformation.
- 7. Management of common neonatal problems.

Paper III

Clinical Gynaecology and Fertility Regulation

- Epidemiology and etiopatho genesis of gynaecological disorders.
- Diagnostic modalities and management of common benign and malignant gynaecological diseases (diseases of genital tract):
- Fibroid uterus
- Endometriosis and adenomyosis Endometrial hyperplasia
- Genital prolapsed (uterine and vaginal)
- Cervicalerosion, cervicitis, cervicalpolyps, cervical neoplasia. Vaginal cysts, vaginal infections, vaginal neoplasia (VIN)Benign Ovarian pathologies
- Malignant genital neoplasia-of ovary, Fallopiantubes, uterus, cervix, vagina, vulva and Gestational Trophoblastic diseases, Cancer Breast.
- Diagnosis and surgical management of clinical conditions related to congenital malformations of genital tract. Reconstructive surgery in gynaecology.
- Intersex, ambiguous sex and chromosomal abnormalities.
- Reproductive endocrinology: Evaluation of Primary/secondary Amenorrhea, management of Hyper prolactinemia, Hirsutism, Chronican-ovulation, PCOD, thyroid and other end ocrine dysfunctions.
- Infertility-Evaluation and management

- Methods of Ovulation Induction
- Tubal(Micro)surgery
- Management of immunological factors of Infertility
- Male in fertility
- Obesity and other Infertility problems.
- (Introductory knowledge of) Advanced Assisted Reproductive Techniques(ART)
 Reproductive tract Infections: prevention, diagnosis and treatment.
- STD
- HIV
- Other Infections
- Genital Tuberculosis
- Principles of radiotherapy and chemotherapy in gynaecological malignancies. Choice, schedule of administration and complications of such therapies.
- Rational approach in diagnosis and management of endocrinal abnormalities suchas: menstrual abnormalities, amenorrhea(primary/secondary), dysfunctional uterine bleeding, polycystic ovarian disease, hyperprolactinemia (galoctorrhea), hyperandrogenism, thyroid-pituitary -adrenaldisorders, menopause and it streatment(HRT).
- Urological problems in Gynaecology- Diagnosis and management.
- Urinary tract infection
- Urogenital Fistulae
- Incontinence
- Otherurological problems
- Orthopedic problems in Gynaecology.
- Menopause: management(HRT)and prevention of its complications.
- Endoscopy(Laparoscopy-Hysteroscopy)
- Diagnosticandsimpletherapeuticprocedures(PGstudentsmustbetrainedtodotheseprocedures)
- Recentadvances ingynaecology- Diagnostic and therapeutic
- Pediatric, Adolescent and Geriatric Gyanecology
- Introduction to Advance Operative procedures. Operative Gynaecology

- Abdominal and Vaginal Hysterectomy
- Surgical Procedures for genital prolapse, fibromyoma, endometriosis, ovarian, adenexal, uterine, cervical, vaginal andvulval pathologies.
- Surgical treatment for urinary and other fistulae, Urinary incontinence
- Operative Endoscopy

Family Welfare and Demography

- Definition of demography and its importance in Obstetrics and Gynaecology.
- Statistics regarding maternal mortality, perinatal mortality/morbidity, birth rate, fertility rate.
- Organizational and operational aspects of National health policies and programs, in relation to population and family welfare including RCH.
- Various temporary and permanent methods of male and female contraceptive methods.
- Knowledge of in contraceptive techniques (including recent developments).
- 1. Temporary methods
- 2. Permanent Methods.
- 3. Recent advances in contraceptive technology
- Provide adequate services to service seekers of contraception including follow up.
- Medical Termination of Pregnancy: Act, its implementation, providing safe and adequate services.
- Demography and population dynamics.
- Contraception(fertility control)

Male and Female Infertility

- History taking, examination and investigation.
- Causes and management of male infertility.
- Indications, procedures of Assisted Reproductive Techniques in relation to male in fertility problems.

TEACHING AND LEARNING METHODS

Postgraduate Training

Teaching methodology should be imparted to the students through:

Lectures, seminars, symposia, Inter- and intra- departmental meetings (clinicpathological, Radio-diagnosis, Radiotherapy, Anaesthesia, Pediatrics/Neonatology), maternal morbidity/mortality meetings and journal club.

Records of these are to be maintained by the department.

- By encouraging and allowing the students to attend and actively participate in CMEs, Conferences by presenting papers.
- Maintenance of logbook: Log books shall be checked and assessed periodically by the faculty members imparting the training.
- Writing thesis following appropriate research methodology, ethical clearance and good clinical practice guidelines.
- The postgraduate students shall be required to participate in the teaching and training programme of undergraduate students and interns.
- A postgraduate student of MS Obstetrics and Gynaecology postgraduate degree course would be required to present one poster presentation, to read one paper ata national/state conference and to present one research paper which should be published/accepted for publication/sent for publication during the period of his postgraduate studies so as to make him eligible to appear at the postgraduate degree examination.
- Department should encouragee-learning activities.

Practical and Clinical Training

- Emphasis should be self learning, group discussions and case presentations.
- Student should be trained about proper History taking, Clinical examination, advising/ordering relevant investigations, their interpretation and instituting medical / surgical management by posting students in OPD, specialty clinics, wards, operation theaters, Labor room, family planning clinics and other departments like anesthesiology, neonatology, radiology/ radiotherapy. Students should be able to perform and interpret ultra - sonography in Obstetrics and Gynaecology, NST, Partogram

Rotations:

Details of 3 years posting in the PG programme (6 terms of 6month search)

a. Allied posts should be done during the course—for 8weeks

i. Neonatology -2weeks ii. Anaesthesia -2weeks iii. Radiology/Radiotherapy -2weeks -2weeks iv. Surgery v. Oncology -2weeks

b. Details of training in the subject during resident posting The student should attend to the duties (Routine and emergency): Outpatient Department and special clinics Inpatients Operation Theater Labor Room

Writing clinical notes regularly and maintains records.

Working under supervision of senior residents and teaching faculty. 1stterm -

2nd & 3rd term- Besides patient care in O.P.D., wards, Casualty and labor room, carrying out minor operations under supervision and assisting in major operation.

4th5th& 6thterm- independent duties in management of patient including major operations under supervision of teaching faculty

c. Surgeries to be done during PG training. (Details in the Syllabus)

During the training programme, patient safety is of paramount importance; therefore, skills are to be learnt initially on the models, later to be performed under supervision followed by performing independently; for this purpose, provision of surgical skills laboratories in medical colleges is mandatory.

Term wise skill training postings.

ASSESSMENT

FORMATIVE ASSESSMENT, during the training includes Formative assessment should be continual and should assess medical knowledge, patient care, procedural & academic skills, interpersonal skills, professionalism, self directed learning and ability to practice in the system.

General Principles

Internal Assessment should be frequent, cover all domains of learning and used to provide feedback to improve learning; it should also cover professionalism and communication skills. The Internal Assessment should be conducted in theory and clinical examination.

Quarterly assessment during the MS training should be based on following educational activities:

- 1. Journal based/recent advances learning
- 2. Patient based/Laboratory or Skill based learning
- 3. Self directed learning and teaching
- 4. Departmental and interdepartmental learning activity
- 5. External and Outreach Activities/CMEs

The student to be assessed periodically as per categories listed in postgraduate student appraisal form (Annexure I).

SUMMATIVE ASSESSMENT, ie., assessment at the end of training

The summative examination would be carried out as per the Rules given in POSTGRADUATE MEDICALEDUCATION REGULATIONS, 2000.

Post graduate Examination shall be in three parts:

1. Thesis

Every postgraduate student shall carry out work on an assigned research project under the guidance of a recognised Post Graduate Teacher, the result of which shall be written up and submitted in the form of a Thesis. Work for writing the Thesis is aimed at contributing to the development of a spirit of enquiry, besides exposing the post graduate student to the techniques of research, critical analysis, acquaintance with the latest advances in medical science and the manner of identifying and consulting available literature.

Thesis shall be submitted at least six months before the Theory and Clinical / Practical examination. The thesis shall be examined by a minimum of three examiners; one internal and two external examiners, who shall not be the examiners for Theory and Clinical examination. A post graduate student shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the Thesis by the examiners.

2. Theory Examination:

The examinations shall be organised on the basis of 'Grading' or 'Marking system' to evaluate and to certify postgraduate student's level of knowledge, skill and competence at the end of the training. Obtaining a minimum of 50% marks in 'Theory' as well as 'Practical' separately shall be mandatory for passing examination as a whole. The examination for M.D./ MS shall be held at the end of 3rd academic year. An academic term shall mean six month's training period.

There should be four theory papers, as given below:

Paper I: Applied Basic sciences.

Paper II: Obstetrics including social obstetrics and Diseases of New Born

Paper III: Gynaecology including fertility regulation

Paper IV: Recent Advances in Obstetrics & Gynaecology

Each paper will consist of 10 questions of 10 marks each to be answered in three hours.

3. Clinical/Practical & oral/viva voce Examination: shall be as given below:

a. Obstetrics:

Clinical

Long Case: 1case

2cases with different problems Short Case/

Spot Case:1case

Viva voce including:

- Instruments
- Pathology specimens
- Drugs and X-rays, Sonography etc.
- **Dummy Pelvis**

B) Gynaecology:

Clinical

Long Case: 1case

2 cases with different problems Short Case/Spot Case: 1case

Viva including:

- Instruments
- Pathology specimens
- Drugs and X-rays, Sonography etc.
- Family planning

Recommended Reading:

Books (latest edition) Obstetrics

- 1. William Textbook of Obstetrics
- 2. High risk Obstetrics- James
- 3. Highrisk pregnancy-lan Donal
- 4. Textbook of Operative Obstetrics-MunroKerr.
- 5. Medical disorder in pregnancy-De Sweit
- 6. Highrisk pregnancy-Arias
- 7. A textbook of Obstetrics-Thrnbull
- 8. Textbook of Obstetrics-Holl and & Brews.
- 9. Manual of Obstetrics-Draftary & Chakravarty

Gynaecology

- 1. Textbook of Gynaecology-Novak
- 2. Textbook of Operative Gynaecology-Te-lindes
- 3. Textbook of operative gynaecology-Shaws
- 4. Textbook of Gynaecology and Reproductive Endocrinology-Speroft
- 5. Textbook of Obstetrics & Gynaecology-Dewhurst
- 6. Manual of Gynaecological Oncology-Disai
- 7. Textbook of Gynaecology–Jaeffcot

Journals

03-05international Journals and 02 national (all indexed) journals

Postgraduate Students Appraisal Form Pre/Para/Clinical Disciplines

Sr.	PARTICULARS	Not	Satisfactory	More Than	Remarks
No.	TARTICOLARS	Satisfactory	Satisfactory	Satisfactory	Kemarks
		1 2 3	4 5 6	7 8 9	
1.	Journal based/recent Advances learning				
2.	Patient based /Laboratory or Skill based learning				
3.	Self directed learning And teaching				
4.	Departmental and inter departmental learning activity				
5.	External and Outreach Activities/CMEs				
6.	Thesis/Research work				
7.	Log Book Maintenance				
blicat mark					Yes/No
	RKS: Any significant positive or ned. For score less than 4 in a	_		_	



