REGULATIONS AND CURRICULUM FOR

POSTGRADUATE DEGREE AND DIPLOMA COURSES

2010



OBSTETRICS & GYNAECOLOGY

JSS UNIVERSITY

JSS MEDICAL INSTITUTIONS CAMPUS

SRI SHIVARATHREESHWARA NAGARA, MYSORE 570 015

KARNATAKA, INDIA

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This book can be had from

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Postgraduate Medical Degree and Diploma Courses 2010

OBSTETRICS & GYNAECOLOGY

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CHAPTER I

Regulations for Postgraduate Degree and Diploma Courses in Medical Sciences

1. Branch of Study

1.1 Postgraduate degree courses

Post Graduate Degree courses may be pursued in the following subjects:

a) MD (Doctor of Medicine)

- i) Anaesthesiology
- ii) Anatomy
- iii) Biochemistry
- iv) Community Medicine
- v) Dermatology, Venereology and Leprosy
- vi) Forensic Medicine
- vii) General Medicine
- viii) Microbiology
- ix) Pathology
- x) Paediatrics
- xi) Pharmacology
- xii) Physiology
- xiii) Psychiatry

b) MS (Master of Surgery)

- i) General Surgery
- ii) Obstetrics and Gynaecology
- iii) Ophthalmology
- iv) Orthopedics
- v) Oto-Rhino-Laryngology

1.2 Postgraduate Diploma Courses

Post Graduate Diploma Courses may be pursued in the following subjects:

- a) Anesthaesiology (DA)
- b) Child Health (DCH)
- c) Clinical pathology (DCP)
- d) Dermatology, Venerology and Leprosy (DDVL)
- e) Obstetrics and Gynaecology (DGO)
- f) Ophthalmology (DO)
- g) Orthopaedics (D Ortho)
- h) Oto-rhino-laryngology (DLO)
- i) Psychiatry (DPM)

2. Eligibility for Admission

MD / MS Degree and Diploma courses: A candidate affiliated to this University and who has passed final year MBBS examination after pursuing a study in a medical college recognized by the Medical Council of India, or from a recognized medical college affiliated to any other university recognized as equivalent thereto and has completed one year compulsory rotating internship in a teaching institution or other institution recognized by the Medical Council of India, and has obtained permanent registration of any State Medical Council, shall be eligible for admission.

3. Obtaining Eligibility Certificate by the University before making admission

No candidate shall be admitted for any Postgraduate Degree/Diploma courses unless the candidate has obtained and produced the eligibility certificate issued by the University. The candidate has to make an application to the University with the following documents along with the prescribed fee:

- a) MBBS pass/degree certificate issued by the university.
- b) Mark cards of all the university examinations passed before MBBS course.
- c) Attempt certificate issued by the Principal.
- d) Certificate regarding the recognition of the medical college by the Medical Council of India
- e) Completion of internship certificate.
- f) In case internship was done in a non-teaching hospital, a certificate from the Medical Council of India that the hospital has been recognized for internship.
- g) Registration by any state Medical Council.
- h) Proof of ST/SC or Category I, as the case may be.

Candidates should obtain the eligibility certificate before the last date for admission as notified by the university.

A candidate who has been admitted to postgraduate course should register his / her name in the university within a month of admission after paying the registration fee.

4. Intake of students

The intake of students to each course shall be in accordance with the MCI and GOI permissions in this regard.

5. Course of study

5.1 Duration

- a) **MD, MS Degree Courses:** The course of study shall be for a period of 3 years consisting of 6 terms.
- b) **Diploma courses:** The course of study shall be for a period of 2 years consisting of 4 terms.

6. Method of training

The training of postgraduate for degree/diploma shall be residency pattern, with graded responsibilities in the management and treatment of patients entrusted to his/her care. The participation of the students in all facets of educational process is essential. Every candidate should take part in seminars, group discussions, grand rounds, case demonstration, clinics, journal review meetings, CPC and clinical meetings. Every candidate should be required to participate in the teaching and training programme of undergraduate students. Training should include involvement in laboratory and experimental work, and research studies. Basic medical sciences students should be posted to allied and relevant clinical departments or institutions. Similarly, clinical subjects' students should be posted to basic medical sciences and allied specialty departments or institutions.

7. Attendance, Progress and Conduct

- **7.1** A candidate pursuing degree/diploma course, should work in the concerned department of the institution for the full period as full time student. No candidate is permitted to clinic/laboratory/nursing home while studying postgraduate course, nursing he/she work in a home hospitals/clinic/laboratory while studying postgraduate course.
- **7.2** Each year shall be taken as a unit for the purpose of calculating attendance.
- 7.3 Every student shall attend symposia, seminars, conferences, journal review meetings, grand rounds, CPC, case presentation, clinics and lectures during each year as prescribed by the department and not absent himself / herself from work without valid reasons.
- **7.4** Every candidate is required to attend a minimum of 80% of the training during each academic year of the post graduate course. Provided, further, leave of any kind shall not be counted as part of academic term without prejudice to minimum 80% attendance of training period every year.
- **7.5** Any student who fails to complete the course in the manner stated above shall not be permitted to appear for the University Examinations.

8. Monitoring Progress of Studies:

8.1 Work diary / Log Book: Every candidate shall maintain a work diary and record his/her participation in the training programmes conducted by the department such as journal reviews, seminars, etc. Special mention may be made of the presentations by the

candidate as well as details of clinical or laboratory procedures, if any, conducted by the candidate. The work diary shall be scrutinised and certified by the Head of the Department and Head of the Institution, and presented in the University practical/clinical examination.

- **8.2 Periodic tests:** In case of degree courses of three years duration (MD/MS, DM, M Ch.), the concerned departments may conduct three tests, two of them be annual tests, one at the end of first year and the other at the end of the second year. The third test may be held three months before the final examination. The tests may include written papers, practical / clinical and viva voce. Records and marks obtained in such tests will be maintained by the Head of the Department and sent to the University, when called for.
- **8.3** In case of diploma courses of two years duration, the concerned departments may conduct two tests, one of them at the end of first year and the other in the second year, three months before the final examination. The tests may include written papers, practical / clinical and viva voce.
- **8.4 Records:** Records and marks obtained in tests will be maintained by the Head of the Department and will be made available to the University or MCI.

9. Dissertation

- **9.1** Every candidate pursuing MD/MS degree course is required to carry out work on a selected research project under the guidance of a recognised post graduate teacher. The results of such a work shall be submitted in the form of a dissertation.
- **9.2** The dissertation is aimed to train a postgraduate student in research methods and techniques. It includes identification of a problem, formulation of a hypothesis, search and review of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, and comparison of results and drawing conclusions.
- **9.3** Every candidate shall submit to the Director (Academic) of the University in the prescribed proforma, a synopsis containing particulars of proposed dissertation work within six months from the date of commencement of the course, on or before the dates notified by the University. The synopsis shall be sent through proper channel.
- **9.4** Such synopsis will be reviewed and the dissertation topic will be registered by the University. No change in the dissertation topic or guide shall be made without prior approval of the University.

- **9.5** The dissertation should be written under the following headings
 - a) Introduction
 - b) Aims or Objectives of study
 - c) Review of Literature
 - d) Material and Methods
 - e) Results
 - f) Discussion
 - g) Conclusion
 - h) Summary
 - i) References
 - j) Tables
 - k) Annexure
- 9.6 The written text of dissertation shall be not less than 50 pages and shall not exceed 150 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 8.27" x 11.69") and bound properly. Spiral binding should be avoided. The dissertation shall be certified by the guide, head of the department and head of the Institution.
- **9.7** Four copies of dissertation thus prepared shall be submitted to the Registrar (Evaluation), six months before final examination, on or before the dates notified by the University.
- **9.8** The dissertation shall be valued by examiners appointed by the University. Approval of dissertation work is an essential precondition for a candidate to appear in the University examination.
- **9.9 Guide:** The academic qualification and teaching experience required for recognition by this University as a guide for dissertation work is as per Medical Council of India, Minimum Qualifications for Teachers in Medical Institutions Regulations, 1998. Teachers in a medical college/institution having a total of <u>eight years</u> teaching experience out of which at least <u>five years</u> teaching experience as Lecturer or Assistant Professor gained <u>after obtaining post graduate degree</u> shall be recognised as post graduate teachers.
- 9.10 Co Guide: A Co-guide may be included provided the work requires substantial contribution from a sister department or from another medical institution recognised for teaching/training by JSS University / Medical Council of India. The co-guide shall be a recognised post graduate teacher of JSS University.
- **9.11 Change of guide**: In the event of a registered guide leaving the college for any reason or in the event of death of guide, guide may be changed with prior permission from the university.

10. Schedule of Examination

The examination for MD / MS courses shall be held at the end of three academic years (six academic terms). The examination for DM and M Ch courses shall be held at the end of three years. The examination for the diploma courses shall be held at the end of two academic years (four academic terms). For students who have already passed Post Graduate Diploma and appearing for MD examination, the examination shall be conducted after two academic years (four academic terms, including submission of dissertation) The University shall conduct two examinations in a year at an interval of four to six months between the two examination. Not more than two examinations shall be conducted in an academic year.

11. Scheme of Examination

11.1 MD / MS Degree

MD / MS Degree examinations in any subject shall consist of dissertation, written paper (Theory), Practical/Clinical and Viva voce.

- 11.1.1 **Dissertation:** Every candidate shall carryout work and submit a dissertation as indicated in SI NO 9. Acceptance of dissertation shall be a precondition for the candidate to appear for the final examination.
- 11.1.2 **Written Examination (Theory):** A written examination shall consist of four question papers, each of three hours duration. Each paper shall carry 100 marks. Out of the four papers, the 1st paper in clinical subjects will be on applied aspects of basic medical sciences. Recent advances may be asked in any or all the papers. In basic medical subjects and para-clinical subjects, questions on applied clinical aspects should also be asked.
- 11.1.3 **Practical / Clinical Examination:** In case of practical examination, it should be aimed at assessing competence and skills of techniques and procedures as well as testing student's ability to make relevant and valid observations, interpretations and inference of laboratory or experimental work relating to his/her subject.

In case of clinical examination, it should aim at examining clinical skills and competence of candidates for undertaking independent work as a specialist. Each candidate should examine at least one long case and two short cases.

The total marks for Practical / clinical examination shall be 200.

11.1.4 **Viva Voce.** Viva Voce Examination shall aim at assessing depth of knowledge, logical reasoning, confidence and oral communication skills. The total marks shall be 100 and the distribution of marks shall be as under:

- i) For examination of all components of syllabus 80 Marks
 ii) For Pedagogy 20 Marks
 If there is skills evaluation, 10 marks shall be reserved for Pedagogy and 10 marks for skill evaluation.
- 11.1.5 **Examiners.** There shall be at least four examiners in each subject. Out of them, two shall be external examiners and two shall be internal examiners. The qualification and teaching experience for appointment as an examiner shall be as laid down by the Medical Council of India.
- 11.1.6 **Criteria for declaring as pass in University Examination*.** A candidate shall secure not less than 50% marks in each head of passing which shall include (1) Theory, (2) Practical including clinical and viva-voce examination.

A candidate securing less than 50% of marks as described above shall be declared to have failed in the examination. Failed candidate may appear in any subsequent examination upon payment of fresh fee to the Registrar (Evaluation).

11.1.7 **Declaration of class:** A successful candidate passing the University examination in first attempt and secures grand total aggregate 75% of marks or more will be declared to have passed the examination with distinction, 65% but below 75% declared as First Class and 50% but below 65% declared as Second Class.

A candidate passing the University examination in more than one attempt shall be declared as Pass Class irrespective of the percentage of marks.

11.2 DM/M Ch

The examination shall consist of theory, clinical/practical and viva voce examination.

- 11.2.1 **Theory (Written Examination):** The theory examination shall consist of four question papers, each of three hours duration. Each paper shall carry 100 marks. Out of the four papers, the first paper will be on basic medical sciences. Recent advances may be asked in IV Paper.
- 11.2.2 **Practical / Clinical Examination:** In case of practical examination it should be aimed at assessing competence, skills of techniques and procedures as well as testing student's ability to make relevant and valid observations, interpretations and experimental work relevant to his / her subject.

In case of clinical examination it should aim at examining clinical skills and competence of candidates for undertaking independent work as a specialist. Each candidate should examine at least one long case and two short cases.

The maximum marks for Practical / Clinical shall be 200.

- 11.2.3 **Viva-Voce:** Viva Voce examination shall aim at assessing thoroughly, depth of knowledge, logical reasoning, confidence and oral communication skills. The maximum marks shall be 100.This also includes spotters like instruments, anaesthesia machines, drugs, ECG, X ray.
- 11.2.4 **Examiners:** There shall be at least four examiners in each subject. Out of them, two shall be external examiners and two shall be internal examiners. The qualification and teaching experience for appointment as an examiner shall be as laid down by the Medical Council of India.
- 11.2.5 **Criteria for declaring as pass in University Examination*:** A candidate shall secure not less than 50% marks in each head of passing which shall include (1) Theory (2) Practical including clinical and viva voce examination.

A candidate securing less than 50% of marks as described above shall be declared to have failed in the examination. Failed candidate may appear in any subsequent examination upon payment of fresh fee to the Registrar (Evaluation).

11.3 Diploma Examination:

Diploma examination in any subject shall consist of theory (written papers), Practical / Clinical and Viva - Voce.

- 11.3.1 **Theory:** There shall be three written question papers each carrying 100 marks. Each paper will be of three hours duration. In clinical subjects one paper out of this shall be on basic medical sciences. In basic medical subjects and Para- clinical subjects, questions on applied clinical aspects should also be asked.
- 11.3.2 **Practical Clinical Examination:** In case of practical examination it should be aimed at assessing competence, skills related to laboratory procedures as well as testing students ability to make relevant and valid observations, interpretation of laboratory or experimental work relevant to his/her subject.

In case of clinical examination, it should aim at examining

clinical skills and competence of candidates for undertaking independent work as a specialist. Each candidate should examine at least <u>one long case and two short cases</u>.

The maximum marks for Practical / Clinical shall be 150.

- 11.3.3 **Viva Voce Examination.** Viva Voce examination should aim at assessing depth of knowledge, logical reasoning, confidence and oral communication skills. The total marks shall be 50. This also includes spotters like instruments, anesthesia machines, drugs, ECG, X-ray.
- 11.3.4 Criteria for declaring as pass in University Examination* A candidate shall secure not less than 50% marks in each head of passing which shall include (1) Theory, (2) Practical including clinical and viva voce examination.

A candidate securing less than 50% of marks as described above shall be declared to have failed in the examination. Failed candidate may appear in any subsequent examination upon payment of fresh fee to the Registrar (Evaluation).

- 11.3.5 **Declaration of distinction**. A successful candidate passing the University examination in first attempt will be declared to have passed the examination with distinction, if the grand total aggregate marks is <u>75 percent and above</u>. Distinction will not be awarded for candidates passing the examination in more than one attempt.
- 11.3.6 **Examiners.** There shall be at least four examiners in each subject. Out of them, two shall be external examiners and two shall be internal examiners. The qualification and teaching experience for appointment as an examiner shall be as laid down by the Medical Council of India.

12. Number of Candidates per day

The maximum number of candidates for practical / clinical and viva-voce examination shall be as under:

MD /MS Course: Maximum of 6 per day. **Diploma Course:** Maximum of 8 per day.

CHAPTER II

GOALS AND GENERAL OBJECTIVES OF POSTGRADUATE MEDICAL EDUCATION PROGRAM

GOAL

The goal of postgraduate medical education shall be to produce competent specialists and/or medical teachers:

- Who shall recognize the health needs of the community and carry out professional obligations ethically and in keeping with the objectives of the national health policy.
- 2. Who shall have mastered most of the competencies, pertaining to the speciality, that are required to be practiced at the secondary and the tertiary levels of the health care delivery system.
- 3. Who shall be aware of the contemporary advance and developments in the discipline concerned.
- 4. Who shall have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology and epidemiology and
- 5. Who shall have acquired the basic skills in teaching of the medical and paramedical professionals.

GENERAL OBJECTIVES

At the end of the postgraduate training in the discipline concerned the student shall be able to:

- 1. Recognize the importance to the concerned speciality in the context of the health needs of the community and the national priorities in the health section.
- 2. Practice the speciality concerned ethically and in step with the principles of primary health care.
- 3. Demonstrate sufficient understanding of the basic sciences relevant to the concerned speciality.
- 4. Identify social, economic, environmental, biological and emotional determinants of health in a given case, and take them into account while planning therapeutic, rehabilitative, preventive and primitive measure/strategies.
- 5. Diagnose and manage majority of the conditions in the speciality concerned on the basis of clinical assessment, and appropriately selected and conducted investigations.

- 6. Plan and advice measures for the prevention and rehabilitation of patients suffering from disease and disability related to the speciality.
- 7. Demonstrate skills in documentation of individual case details as well as morbidity and mortality rate relevant to the assigned situation.
- 8. Demonstrate empathy and humane approach towards patients and their families and exhibit interpersonal behaviour in accordance with the societal norms and expectations.
- 9. Play the assigned role in the implementation of national health programme, effectively and responsibly.
- Organize and supervise the chosen/assigned health care services demonstrating adequate managerial skills in the clinic/hospital or the field situation.
- 11. Develop skills as a self-directed learner, recognize continuing education needs; select and use appropriate learning resources.
- Demonstrate competence in basic concepts of research methodology and epidemiology, and be able to critically analyze relevant published research literature.
- 13. Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.
- 14. Function as an effective leader of a health team engaged in health care, research or training.

STATEMENT OF THE COMPETENCIES: Keeping in view the general objectives of postgraduate training, each discipline shall aim at development of specific competencies which shall be defined and spelt out in clear terms. Each department shall produce a statement and bring it to the notice of the trainees in the beginning of the programme so that he or she can direct the efforts towards the attainment of these competencies.

COMPONENTS OF THE POSTGRADUATE CURRICULUM:

The major components of the Postgraduate curriculum shall be:

- Theoretical knowledge
- Practical and clinical skills
- · Thesis skills.
- Attitudes including communication skills.
- Training in research methodology.

(Source: Medical Council of India, Regulations on Postgraduate Medical Education, 2000)

CHAPTER III

CURRICULLUM

M S OBSTETRICS & GYNAECOLOGY

Goal

The goals of postgraduate training course would be to train a MBBS doctor who will:

- Practice efficiently and effectively, hacked by scientific knowledge and skill base.
- Exercise empathy and a caring attitude and maintain high ethical standards.
- Continue to evince keen interest in continuing education in the speciality irrespective of whether he is in a teaching institution or is a practicing specialist.
- Be a motivated `teacher' defined as a specialist keen to share his knowledge and skills with a colleague or a junior or any learner.

Objectives

With the knowledge and skills developed at the completion of the course, the candidate shall be able to:

- i. Offer to the community, the current quality of `Standard care' in obstetrics & Gynaecological diagnosis' as well as therapeutics. Medical or surgical, for common as well as referred conditions.
- ii. Periodically self assess his or her performance and keep abreast with ongoing advances in the field & apply the same in his / her practice.
- iii. Be aware of his or her own limitations to the application of the speciality in situations which warrant referral to major centers or individuals more qualified to treat.
- iv. Apply research and epidemiological methods during his/her practice. The candidate shall be able to present or publish work done by him/her.
- v. Contribute as an individual or in a group or institution towards the fulfillment of national objectives with regard to prevention of maternal mortality and morbidity and improving the neonatal outcome.
- vi. Effectively communicate with patients or relatives so as to educate them sufficiently and give them full benefit of informed consent to treatment and ensure compliance.
- vii. Effectively communicate with colleagues.

Course Contents

It includes topics not only of obstetrics and Gynaecology but also those aspects of Medicine, Surgery, Pediatrics, applied Anatomy, Physiology, Pathology, Pharmacology and Microbiology relevant to the practice of both Obstetrics and Gynaecology. It is intended as a guide to the candidates and it is not comprehensive.

As and when there is newer development it becomes eligible for inclusion. Hence the candidates should familiar themselves with the current content of the scientific journals and reviews of major topics.

Theory

Basic Sciences

Genetics

Normal and abnormal Karyotypes Problems of intersex Genetic causes of infertility and early pregnancy loss Genetic aspects of artificial insemination

Anatomy Including Embryology

Gametogenesis, Ovulation, fertilization, implantation, development of foetus and placenta. Development of male and female genital tract. Problems of abnormal development of genital tract in Obstetrics and Gynaecology. Anatomy of Urogenital system, including pelvic musculature. Blood supply, innervation and Lymphatic drainage of the pelvis and reproductive organs.

Pathology

Pathology of inflammatory disease, degenerative and neoplastic disease of vulva vagina, cervix and uterus, fallopian tubes, ovaries and broad ligament.

Haematology

Blood groups, Rh factor, incompatibility, Blood transfusion.

Biochemistry

Steroid and prostaglandin synthesis and metabolism in mother and foetus. Maternal and foetal carbohydrate, lipid, amino-acid metabolism and iron metabolism. Synthesis and secretion of foetal pulmonary surfactant.

Endocrinology

Structure, synthesis, function, metabolism and principles of assay of hormones produced from Hypothalamus, Anterior and posterior pitutary, Thyroid, Pancreas, Adrenal cortex, Adrenal medulla, Ovary, Testis and Placenta.

Pharmacology

Placental transfer of drugs and its effects on mother and foetus, Eg: Antibiotics, Anti hypertensives, Psychotropic drugs, Oral contraceptives, Chemotherapetic drugs, Anticonvulsants, Anti coagulants and Oxytocic drugs, effects of tobacco and alcohol on pregnant mother and foetus. Teratogenic effect of drugs taken during lactational period.

Immunology

Basic immunology including primary and secondary immune response, mechanism of antibody production. HLA system and graft rejection. Change in pregnancy and the foetus as a graft. Immunological pregnancy tests. Rhesus and other Isoimmunisation. Active and passive immunisation and Auto immune disease.

Microbiology

Epidemiology and pathophysiology of disease developing in pregnancy that is Septic abortion, Preterm labour, PROM, Puerperal sepsis, Mastitis, Septic shock and Neonatal sepsis. Microbiology of TORCH infection, Syphilis, Chlamydia, Mycoplasma, hepatitis and HIV.

Maternal physiological changes during pregnancy

- i. Fluid and electrolyte balance.
- ii. Changes in respiratory, Cardio vascular system.
- iii. Changes in Gastro-intestinal system including liver and pancreas
- iv. Change in urinary system
- v. Hematological changes including coagulation mechanism and fibrionolytic system

Teratology

Mechanisms of teratogenesis. Effect of possible teratogens - drugs virus radiation and other agents.

Antenatal care

Includes diagnosis, of pregnancy, Identification of high risk group of mothers and foetus with different modality of investigation. Clinical monitoring or maternal/foetal welfare and selection of place of delivery.

Physiology of Labour

Causation of onset of labour

Intrapartum care

Maternal and foetal monitoring

Mechanism and management of normal labour

Abnormal pregnancy

- i. Medical diseases and disorders complicating pregnancy and child birth
- ii. Obstetric complications of pregnancy
- iii. Multiple pregnancy
- iv. Congenital malformations
- v. Foetal growth retardation
- vi. Repeated pregnancy loss
- vii. Preterm labour
- viii. Prolonged pregnancy
 - ix. Malpresentations
 - x. Shock and collapse
 - xi. Ectopic pregnancy
- xii. Rh incompatibility.

Abnormalities of Labour and Delivery

Includes induction of labour and abnormal uterine action

Social Obstetrics

Study of interplay of social and environmental factors and human reproduction going back to premarital and preconceptional period.

- i. Implementing safe motherhood initiative.
- ii. Community maternal health care

- iii. Antenatal checkup
- iv. MCH problems
- v. Risk approach of pregnant women- Anaemia, STD syphilis, tetanus, AIDS.
- vi. Domicilliary care
- vii. Postnatal complications
- viii. Low birth weight (LBW)
- ix. Socio economic status and birth weight correction
- x. Infant feeding
- xi. Road to health chart and school health programme.
- xii. Pre pregnancy and post pregnancy counselling
- xiii. Reproductive and child health (RCH)
- xiv. National Health Programmes

Family welfare programmes including Reconstructive surgeries

Temporary methods like

- Chemical contraceptives
- Barrier methods
- Hormonal contraception
- IUD

Permanent methods like

- Tubectomy
- Laparoscopic tubal occlusion
- Minilap

Reconstructive surgeries like

- Tuboplasty
- Vaso Vasotomy

Perinatology

- i. The term new born infant
- ii. Low birth weight baby, Preterm, IUGR
- iii. Asphyxia neonatorum
- iv. Respiratory distress
- v. Jaundice in new born
- vi. Haemorrahagic disease of new born
- vii. Convulsions in new born
- viii. Injuries of the new born
 - ix. Infections in new born
 - x. Diarrhea in new born
 - xi. Vomiting in the new born
- xii. Congenital malformation of new born.

Neonatal

Early neonatal complication, infection and management.

Mortality and Morbidity

Epidemiology, Magnitude of the problem, causes, prevention and management of Maternal and Perinatal motality and morbidity.

Gynaecology

History taking with special reference to Gynaecological history, abdominal and pelvic examination, relevant investigations to arrive at most probable diagnosis.

Topics include: Infection, New growths (both benign and malignant) and other pathological disorders of vulva, vagina, urinary bladder, cervix, uterus, fallopian tubes, Ovaries and Pelvic cellular tissues including STD and HIV.

Adolescent Gynaecology

Menstrual disorders, including amenorrhoea, menopause, postmenopausal gynaecological problems and management of the aged and elderly women.

Chromosomal disorders - including intersex

Gynaecological clinical cytopathology.

Contraception and family planning.

Infertility and ART

Hormonal therapy.

Problem of sex and marriage

Clinical Obstetrics & Gynaecology

Obstetrics

- i. Diagnosis of early pregnancy and its complications and management.
- ii. AIM of ANC and management of high risk pregnancies.
- iii. To work in labour wards and to manage normal and complicated deliveries.
- iv. Neonatal care and resuscitation in labour wards
- v. Follow-up of normal and abnormal deliveries during postnatal period
- vi. Assisting caesarean section initially, by the end of the course, they shall be able to do caesarean sections independently.
- vii. I C U Management.
- viii. Family welfare programmes and reconstructive surgeries of the fallopian tubes.
 - ix. Rural obstetrics care and referral services.

Gynaecology

- i. To work in O.P.D. and examine Gynaecology cases routinely,
- ii. Minor operations: To assist in the beginning and carry out the work independently by the end of I year
- iii. Major Operations: To assist as second assistant for the I six months and as first assistant for the next 6 months and do major operations like vaginal hysterectomy with P.F.R. and abdominal hysterectomy, Ovariotomy with the assistance of senior doctors. By the end the course the candidate shall be familiar with the techniques of above mentioned operations and to do independently.
- iv. To do investigations like HSG and USG under guidance initially and independently by the end of the course.
- v. To assist medico legal cases.
- vi. Writing case records
- vii. Candidate should write separate PG case sheets. They should keep diary and log book and get verified by the Unit Chief by the end of each month.

Essential Research Skills

- i. Basic statistical knowledge.
 - a. Ability to undertake clinical & basic research
 - b. Descriptive and inferential statistics
 - c. Ability to publish results of one's work.
- ii. This could be achieved during the course by attending workshops on research methodology, basic statistics classes and regularly having journal clubs etc., where selected articles are taken and evaluated for content, quality and presentation.

Communication abilities

Ability to interact with and work as a team with other colleagues, with patients and with teachers.

Record keeping

The ability to maintain records as scientifically as possible. Knowledge of computer is essential.

Surgical Skills

- a. Conducting minimum 25 cases of normal delivery including forceps and ventouse application, episiotomy repair, colpocentesis, 3rd degree perineal tear suturing
- b. Tubectomy: both mini lap and laparoscopic sterilisation.
- c. Knowledge of Destructive operations

Minor O.T. procedures:

- i. MTP, D&C, suction evacuation, M.R. Mid-Trimester termination of pregnancy.
- ii. Cervical and Endometrial biopsy, pap-smear, electric cauterisation and cryo cautery tubil patency tests and hysterosalphingogram
- iii. Diagnostic laparoscopy, Hysteroscopy and colposcopy.

Major O.T. Procedures

- Caesarean section minimum 10 to be done and 20 operations to be assisted
- ii. Vaginal hysterectomy minimum 10 to be assisted and 5 to be performed
- iii. Abdominal hysterectomy minimum 10 to be assisted and 5 to be performed
- iv. Ovariotomy
- v. Cervical encerclage
- vi. Caesarian hysterectomy
- vii. Salpingectomy for ectopic pregnancy
- viii. Laparotomy
- ix. Internal iliac ligation
- x. Internal podalic version and MRP
- xi. Operation for inversion of uterus

d. Special Operations (Only to assist)

- i. Tuboplasty
- ii. Myomectomy

- iii. Ovarian de-bulking operation
- iv. Ventrofixation (Gilliam's operation)
- v. Sling operations for prolapsed
- vi. Wartheim's hysterectomy
- vii. Simple and radical vulvectomy
- viii. Operation for stress incontinence

Year wise Structured Training Schedule

I year

Theoretical knowledge, Basic sciences

- a. Examination and diagnosis of Obstetrics & Gynaecological cases with relevant investigations case recording.
- b. Surgical Skills

Assisting Caesarian sections as second assistant initially and later on as first assistant, with supervision.

Assisting all major gynaecological operations like, vaginal & abdominal hysterectomies as a second assistant.

Minor Operations

Assisting minor operations like M.T.P., Tubectomy, Laparoscopy, Cervical biopsy, D & C in the initial period, and later on doing independently under supervision.

II Year

Theoretical knowledge of Allied subjects

Clinical examination and diagnosis: The student is encouraged to take diagnostic, investigational and therapeutic decisions.

Surgical Skills: At the end of the second year the student should be capable of operating without assistance but under supervision, like caesarean section and minor operations like, M.T.P. cervical biopsy, D & C, tubectomies, outlet forceps, emergencies during delivery. The student must know how to manage the complications during and after delivery confidently.

Conference and workshops: Encouraged to attend one conference of State level and at National level. Presentation of paper in the conference should be encouraged. The student should be involved actively in presentation of seminars, panel discussion, Journal clubs and case discussions with seniors, and to maintain record in Log book.

IIIrd Year

Should be through with basic, allied and recent advances.

Clinical Diagnosis & Examination: Should be able to make clinical diagnosis and be familiar with techniques of operations like caesarean sections, abdominal and vaginal hysterectomies, reconstructive surgeries of fallopian tubes and surgeries on ovarian tumours. Techniques of assisted reproductive technologies.

Teaching activities: Final year student should take lead in conducting seminars, panel discussions, Journal Clubs and case discussions with I & II year students. The student should involve himself/herself in teaching undergraduate students specially bedside clinics.

The student should attend National and State level conferences, C.M.E. Programmes and workshops on colposcopy, Hysteroscopy and endoscopic surgeries, including ultrasound guided procedures. The student must also be exposed to the Assisted reproductive technologies like, I.V.F-E-T. ICSI and also to observe radical surgeries in Gynaec-Oncology.

Rotation and Labour ward Postings

i. The student must work in labour wards atleast 6 months during II & III year. (3 months each year)

ii. Pediatrics: 1 month

iii. Radio-diagnosis including Ultrasound: 1 month

iv. Radiotherapy (oncology): 1 month

v. Anesthesia: 1 month

Teaching/Learning Experience

Teaching and Learning Activities

A candidate pursuing the course should work in the institution as a full time student. No candidate should be permitted to run a clinic/laboratory/nursing home while studying postgraduate course. Each year should be taken as a unit for the purpose of calculating attendance.

Every student shall attend teaching and learning activities during each year as prescribed by the department and not absent himself / herself from work without valid reasons.

A list of teaching and learning activities designed to facilitate students acquire essential knowledge and skills outlined is given below:

- Lectures: Lectures are to be kept to a minimum. They may, however, be employed for teaching certain topics. Lectures may be didactic or integrated.
 - a. *Didactic Lectures:* Recommended for selected common topics for post graduate students of all specialities. Few topics are suggested as examples:
 - i. Bio-statistics
 - ii. Use of library,
 - iii. Research Methods
 - iv. Medical code of Conduct and Medical Ethics
 - v. National Health and Disease Control Programmes
 - vi. Communication Skills etc.

These topics may preferably be taken up in the first few weeks of the 1st year.

- b. *Integrated Lectures:* These are recommended to be taken by multidisciplinary teams for selected topics, eg. Jaundice, Diabetes mellitus, Thyroid etc.
- 2. Journal Club: Recommended to be held once a week. All the PG students are expected to attend and actively participate in discussion and enter in the Log Book relevant details. Further, every candidate must make a presentation from the allotted journal(s), selected articles at least four times a year and a total of

- 12 presentations in three years. The presentations would be evaluated using check lists and would carry weightage for internal assessment (See Checklist in Chapter IV). A time table with names of the student and the moderator should be announced at the beginning of every year.
- 3. Subject Seminar: Recommended to be held once a week. All the PG students are expected to attend and actively participate in discussion and enter in the Log Book relevant details. Further, every candidate must present on selected topics at least four times a year and a total of 12 seminar presentations in three years. The presentations would be evaluated using check lists and would carry weightage for internal assessment (See Checklist in Chapter IV). A timetable for the subject with names of the student and the moderator should be scheduled at the beginning of every year.
- 4. Student Symposium: Recommended as an optional multi disciplinary programme. The evaluation may be similar to that described for subject seminar.
- 5. Attending OPD work
- 6. Ward Rounds: Ward rounds may be service or teaching rounds.
 - a. Service Rounds: Postgraduate students and Interns should do every day for the care of the patients. Newly admitted patients should be worked up by the PGs and presented to the seniors the following day.
 - b. Teaching Rounds: Every unit should have 'grand rounds' for teaching purpose. A diary should be maintained for day to day activities by the students.
 - Entries of (a) and (b) should be made in the Log book.
- 7. Clinico-Pathological Conference: Recommended once a month for all post graduate students. Presentation be done by rotation. If cases are not available due to lack of clinical postmortems, it could be supplemented by published CPCs.
- 8. Inter Departmental Meetings: Strongly recommended particularly with departments of Pathology and Radio-Diagnosis at least once a week. These meetings should be attended by post graduate students and relevant entries must be made in the Log Book.
 - Pathology: A dozen interesting cases may be chosen and presented by the post graduate students and discussed by them as well as the senior staff of OBG and Pathology department. The staff of Pathology department would then show the slides and present final diagnosis. In these sessions the advance immuno-histo-chemical techniques, the burgeoning markers other recent developments can be discussed.
 - Radio-diagnosis: Interesting cases and the imaging modalities should be discussed.
- 9. *Teaching Skills:* Postgraduate students must teach under graduate Medical students by taking demonstrations, bed side clinics etc. Record of their participation be kept in Log book.
- 10. Continuing Medical Education Programmes (CME): Recommended to attend as many CME as possible, with minimum 1 state level CME per year.
- 11. Conferences: Attending conferences is optional. However it is encouraged.
 - The teaching staffs should scrutinize the log book every week which will be scrutinized by unit chief every month and counter signed by HOD every tree months or at the end of each posting.

- a. PG posted to each unit should write the case history, examine the patients in detail and carry out the investigations and shall be responsible for pre operative, operative and post operative care. By the end of the unit posting, shall submit the same to the unit chief and take the signature
- b. Clinical cases:
 - Each M.D. student should present atleast 20 clinical cases for discussion in the three year posting (10 Obstetrics & 10 Gynaecology)
 - ii. Journal club: Each candidate shall present atleast 10 papers on recent advances in Obstetrics and Gynaecology from latest journals in the Journal clubs.
 - iii. Subject Seminar: They shall participate actively in minimum of eight subject seminars.
 - iv. They should actively undertake the undergraduate teaching programmes
 - C.M.E. programmes: shall attend CME programmes and shall present minimum of two papers in any of the scientific conferences.

Dissertation

Every candidate pursuing degree course is required to carry out work on a selected research project under the guidance of a recognised post graduate teacher. The results of such a work shall be submitted in the form of a dissertation.

The dissertation is aimed to train a post graduate student in research methods for and techniques. It includes identification of a problem, formulation of a hypothesis, rest search and review, of literature, getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, comparison of results and drawing conclusions.

Every candidate shall submit to the Registrar (Academic) of JSSU, in the prescribed proforma, a synopsis containing particulars of proposed dissertation work within six months from the data of commencement of the course on or before the dates notified by the University. The synopsis shall be sent through the proper channel.

Such synopsis will be reviewed and the dissertation topic will be registered by the University. No change in the dissertation topic or guide shall be made without prior approval of the University.

The dissertation should be written under the following headings:

- i. Introduction
- ii. Aims or Objectives of study
- iii. Review of Literature
- iv. Material and Methods
- v. Results
- vi. Discussion
- vii. Conclusion
- viii. Summary
- ix. References
- x. Tables
- xi. Annexures

The written text of dissertation shall be not less than 50 pages and shall not exceed 150 pages excluding references, tables, questionnaires and other annexuers. It should be neatly typed in double line spacing on one side pf paper 9 (A4 size, 8.27" x 11.69") and bound properly. Spiral binding should be avoided. The dissertation shall be certified by the guide, head of the department and head of the Institution.

Four copies of dissertation thus prepared shall be submitted to the Registrar (Evaluation), six months before final examination on or before the dates notified by the University.

The dissertation shall be valued by examiners appointed by the University. Approval of dissertation work is an essential precondition for a candidate to appear in the University examination.

For some more details regarding Guide etc., please see Chapter I and for books on research methodology, ethics, etc., see Chapter IV.

Monitoring Learning Progress

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only also helps teachers to evaluate students, but also students to evaluate themselves. The monitoring be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects. Checklists are given in Chapter IV.

The learning out comes to be assessed should included: (1) Personal Attitudes, (2) Acquisition of Knowledge, (3) Clinical and operative skills, (4) Teaching skills and (5) Dissertation.

1. Personal Attitudes: The essential items are:

- Caring attitudes
- Initiative
- Organisational ability
- Potential to cope with stressful situations and undertake responsibility
- Trust worthiness and reliability
- To understand and communicate intelligibly with patients and others
- To behave in a manner which establishes professional relationships with patients and colleagues
- Ability to work in team
- A critical enquiring approach to the acquisition of knowledge

The methods used mainly consist of observation. It is appreciated that these items require a degree of subjective assessment by the guide, supervisors and peers.

2. Acquisition of Knowledge: The methods used comprise of 'Log Book' which records participation in various teaching / learning activities by the students. The number of activities attended and the number in which presentations are made are to be recorded. The log book should periodically be validated by the supervisors. Some of the activities are listed. The list is not complete. Institutions may include additional activities, if so, desired.

Journal Review Meeting (Journal Club): The ability to do literature search,

in depth study, presentation skills, and use of audio- visual aids are to be assessed. The assessment is made by faculty members and peers attending the meeting using a checklist (see Model Checklist – I, Chapter IV)

Seminars / Symposia: The topics should be assigned to the student well in advance to facilitate in depth study. The ability to do literature search, in depth study, presentation skills and use of audio- visual aids are to be assessed using a checklist (see Model vii Checklist-II, Chapter IV)

Clinico-pathological conferences: This should be a multidisciplinary case study of an interesting case to train the candidate to solve diagnostic and therapeutic problems by using an analytical approach. The presenter(s) are to be assessed using a check list similar to that used for seminar.

Medical Audit: Periodic morbidity and mortality meeting be held. Attendance an participation in these must be insisted upon. This may not be included in assessment.

3. Clinical skills:

Day to Day work: Skills in outpatient and ward work should be assessed periodically. The assessment should include the candidates' sincerity and punctuality, analytic ability and communication skills (see Model Checklist III, Chapter IV).

Clinical meetings: Candidates should periodically present cases to his peers and faculty members. This should be assessed using a check list (see Model checklist I Chapter IV).

Clinical and Procedural skills: The candidate should be given graded responsibility to enable learning by apprenticeship. The performance is assessed by the guide by direct observation. Particulars are recorded by the student in the log book. (Table No. Chapter IV)

- **4. Teaching skills:** Candidates should be encouraged to teach undergraduate medical students. This performance should be based on the assessment by the faculty members of the department and from feedback from the undergraduate students (See Model checklist V, Chapter IV)
- **5. Dissertation in the Department:** Periodic presentations are to be made in the department. Initially the topic selected is to be presented before submission to the University for registration, again before finalisation for critical evaluation and another before final submission of the completed work (See Model Checklist VI & VII, Chapter IV)
- **6.** Periodic tests: The departments may conduct three tests, two of them be annual tests, one at the end of first year and the other in the second year. The third test may be held three months before the final examination. The tests may include written papers, practicals / clinicals and viva voce.
- 7. Work diary/Log Book: Every candidate shall maintain a work diary and record his/her participation in the training programmes conducted by the department such as journal reviews, seminars, etc. Special mention may be made of the presentations by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate.

8. Records: Records, log books and marks obtained in tests will be maintained by the Head of the Department and will be made available to the University or MCI.

Log book

The log book is a record of the important activities of the candidates during his training, Internal assessment should be based on the evaluation of the log book. Collectively, log books are a tool for the evaluation of the training programme of the institution by external agencies. The record includes academic activities as well as the presentations and procedures carried out by the candidate.

Format for the log book for the different activities is given in Tables 1, 2 and 3 of Chapter IV. Copies may be made and used by the institutions.

Procedure for defaulters: Every department should have a committee to review such defaulters. In extreme cases of default the departmental committee may recommend Table No.3 that defaulting candidate be withheld from appearing the examination, if she/he fails to fulfill the requirements in spite of being given adequate chances to set himself or herself right.

Scheme of Examination

A. Theory

There shall be four question papers, each of three hours duration. Each paper shall consist of two long essay questions each question carrying 20 marks and 6 short essay questions each carrying 10 marks. Total marks for each paper will be 100. Questions on recent advances may be asked in any or all the papers. Details distribution of topics for each paper will be as follows:

Paper I: Basic Science as applicable to Obstetrics and Gynecology

Paper II: Obstetrics and Gynecology

Paper III: Gynecology

Paper IV: Social Obstetrics and Family Welfare Planning & Recent advances.

Note: The distribution of chapters / topics shown against the papers are suggestive only.

B. Clinical: - 200 marks

There shall be two long cases and two short cases to be examined and presented by each candidate. Marks shall be 200.

Type of cases

Long cases: One case of Obstetrics and one case of Gynecology. Each case carries 75 marks.

Short cases: One case of Obstetrics and one case of Gynecology. Each case carries 25 marks.

C. Viva Voce: - 100 Marks

a. Viva-Voce Examination: (80 Marks)

All examiners will conduct viva-voce conjointly on candidate's comprehension, analytical approach, expression and interpretation of data. It includes all components of course contents. In addition candidates may also be given case reports, charts, dummy pelvis and foetal skull, gross specimens, pathology slides, instruments, X- rays, ultrasound, CT scan images, NST etc., for interpretation. It includes discussion on dissertation also.

b. Pedagogy Exercise: (20 Marks)

A topic be given to each candidate in the beginning of clinical examination.

He/she is asked to make a presentation on the topic for 8-10 minutes.

D. Distribution of Marks:

Maximum marks for M D	Theory	Practical	Viva	Grand Total
Obstetrics & Gynecology	400	200	100	700

Recommended Books

SI. No.	Name of the Author	Name of the Book	Edition	Name of the Publications
1	IAN Donald	Practical Obstetrics problems	5 th Edn	B.A. Publication
2	Farnando Aris	Practical guide to high risk pregnancy & delivery		Mosby Publications
3	William's	Text book of Obstetrics	21st Edn	(not known)
4	Holland and Brew's	Manual of Obstetrics		B.I.P. Publications
5	Jeffcoat's	Principles of Gynaecology	5 th Edn	Butterworth Heighmen
6	Shaw's	Text book of Gynaecology	12 th Edn	B.L. Churchill Livingston
7	Parulekar	Practical Gynaecology & Obstetrics	Latest Edn	Vora Publications
8	Munrokar's	Operative Obstetrics	10 th Edn	A.T.B.S. Publi.
9	Telinde's	Operative Gynaecology	8 th Edn	Lipincorttriven Publications
10	Barus or celil and Burrows	Medical disorders in Obstetrics practice	3rd Edn	Blackwell science Publications
11	Rathnam	Obstetrics and Gynaecology	2 nd Edn	Orient Longmen Publications
12	Arul kumar	The management of labour	1 st Edn	Orientlongmen Publications
13	Bhaskar Rao	Clinical Gynaecology	4 th Edn	Orient Longmen Publications
14	Robert Shaw	Text book of Gynaecology		
15	C S Dawn	Text book of Obstetrics and Neunatology	13th Edn	BB Publications
16	C S Dawn	Text book of Gynaecology and contraception	13th Edn	BB Publications
17	J. Studd	Progress in Obstetrics and Gynaecology	Latest Edn	I.S.E. Publications
18	Padubidri	Text book of Obstetrics	1 st Edn	C.B.S. Publications
19	Novak's	Gynaecology	12 th Edn	Williams and Willkins Publications
20	Dewhurst	Obstetrics and Gynaecology	5 th Edn	Blackwell Science
21	Speroff	Clinical Gynaecologic Endocrinology and infertility	6 th Edn	Lippincot Publications
22	Boney's	Gynaecological surgery	9 th Edn	AITBS Publications
23	Callen	Ultrasonography		C.B.S. Publications
24	Desai	Infertility and sonography		J.P. Publications
25	R. Rajan	Reproductive endocrinology		J.P. Publications
26	Williams	Endocrinology		W.B.S. Publications
27	Pall-P.G.	Manual of operative laprascope		Modern Publications
28	J. Samuel	Clinical sonography		J.D.P. Publications
29	Kistner's	Gynaecology-Principles and practice	6 th Edn	Hercoat Brey's Asia Publications
30	Macher and Moor	Essentials of Obstetrics and Gynaecology	3 rd Edn	W.B. Sunder's Publications

Journals

- 1. Journal of FOGSI
- 2. Clinics of Obstetrics & Gynecology- North America
- 3. Fertility and Sterility
- 4. British Journal of Obstetrics & Gynecology
- 5. American Journal of Obstetrics & Gynecology
- 6. American association of gynecology laproscopy
- 7. Obstetrics & Gynecologic clinic
- 8. Current opinion in Obstetrics & Gynecology
- 9. Briggs update: Drugs in pregnancy & lactation.
- 10. Operative technique in gynecologic surgery

DIPLOMA IN OBSTETRICS & GYNAECOLOGY (DG0)

Goal

The diploma course in Obstetrics & Gynaecology is a 2 Year integrated course, after satisfactory completion of which the candidate shall be able to practice Obstetrics & Gynaecology competently, confidently and safely in the community that he/she serves.

The goals of postgraduate training course would be to train a MBBS doctor who will:

- Practice Obstetrics & Gynaecology, backed by scientific knowledge and skill base.
- Exercise empathy and a caring attitude and maintain high ethical standards.
- Continue to evince keen interest in continuing education.
- Be a motivated `teacher' defined as a surgeon keen to share his knowledge and skills with a colleague or a junior or any lean=o: r.

Objectives

With the knowledge and skills developed at the completion of the course, the candidate shall be able to:

- i. Offer to the community, the current quality of `Standard care' in obstetrics & Gynaecological diagnosis' as well as therapeutics. Medical or surgical, for common as well as referred conditions.
- ii. Periodically self assess his or her performance and keep abreast with ongoing advances in the field & apply the same in his / her practice.
- iii. Be aware of his or her own limitations to the application of the specialty in situations which warrant referral to major centers or individuals more qualified to treat.
- iv. Epidemiological methods during his/her practice.
- v. Contribute as an individual or in a group or institution towards the fulfillment of national objectives with regard to prevention of maternal mortality and morbidity and improving the neonatal outcome.
- vi. Effectively communicate with patients or relatives so as to educate them sufficiently and give them full benefit of informed consent to treatment and ensure compliance.
- vii. Effectively communicate with colleagues.

Course contents

It includes topics not only of obstetrics and Gynaecology but also those aspects of Medicine, Surgery, Pediatrics, applied Anatomy Physiology, Pathology, Pharmacology and Microbiology relevant to the practice of both Obstetrics and Gynaecology. It is intended as a guide to the candidates and it is not comprehensive. As and when there is newer development, it becomes eligible for inclusion. Hence the candidates should be familiar themselves with the current content of the scientific journals and reviews of major topics.

Theory

Basic Sciences

Genetics

Normal and abnormal Karyo types Problems of intersex Genetic causes of infertility and early pregnancy loss Genetic aspects of artificial insemination

Anatomy Including Embryology

Gametogenesis, Ovulation, fertilization, implantation, development of foetus and placenta. Development of male and female genital tract. Problems of abnormal development of genital tract in Obstetrics and Gynaecology. Anatomy of Urogenital system, including pelvic musculature. Blood supply, innervation and Lymphatic drainage of the pelvis and reproductive organs.

Pathology

Pathology of inflammatory disease, degenerative and neoplastic disease of vulva vagina, cervix and uterus, fallopian tubes, Ovaries and broad ligament.

Haematology

Blood groups, Rh factor, incompatibility, Blood transfusion.

Biochemistry

Steroid and prostaglandin synthesis and metabolism in mother and foctus. Maternal and foetal carbohydrate, lipid, amino-acid metabolism and iron metabolism. Synthesis and section of foetal pulmonary surfactant.

Endocrinology

Structure, synthesis, function, metabolism and principles of assay of hormones, produced from hypothalamus, Anterior and posterior pituitary, Thyroid, Pancreas, Adrenal cortex, adrenal medulla, Ovary, Testis, and placenta.

Pharmacology

Placental transfer of drugs and its effects on mother and foetus, Eg: Antibiotics, anti hypertensives, Psychotropic drugs, Oral contraceptives, Chemotheraputic drugs, Anticonvulsants, Anti coagulants and Oxytocic drugs, effects of tobacco and alcohol on pregnant mother and foetus. Teratogenic effect of drugs taken during lactational period.

Immunology

Basic immunology including primary and secondary immune response. mechanism of antibody production. HLA system and graft rejection. Change in pregnancy and the foetus as a graft. Immunological pregnancy tests. Rhesus and other Isoimmunisation. Active and passive immunisation and Auto immune disease.

Microbiology

Epidemiology and pathophysiology of disease developing in pregnancy that is Septic abortion, Preterm labour, PROM, Puerperal sepsis, Mastitis, Septic shock and Neonatal sepsis. Microbiology of TORCH infection, Syphilis, Chlamydia, Mycoplasma, hepatitis and HIV.

Maternal physiological changes during pregnancy

- i. Fluid and electrolyte balance.
- ii. Changes in respiratory, Cardio vascular system.
- iii. Changes in Gastro-intestinal system including liver and pancreas
- iv. Change in urinary system
- v. Hematological changes including coagulation mechanism and fibrionolytic system

Teratology

Mechanisms of teratogenesis. Effect of possible teratogens — drugs virus radiation and other agents.

Antenatal care

Includes diagnosis, of pregnancy, Identification of high-risk group of mothers and foetus with different modality of investigation. Clinical monitoring or maternal/foetal welfare and selection of place of delivery.

Physiology of Labour

Causation of onsets of labour

Intrapartum care

Maternal and foetal monitoring

Mechanism and management of normal labour

Abnormal pregnancy

- i. Medical diseases and disorders complicating pregnancy and child birth
- ii. Obstetric complications of pregnancy
- iii. Multiple pregnancy
- iv. Congenital malformations
- v. Foetal growth retardation
- vi. Repeated pregnancy loss
- vii. Preterm labour
- viii. Prolonged pregnancy
 - ix. Malpresentations
 - x. Shock and collapse
 - xi. Ectopic pregnancy
- xii. Rh incompatibility

Abnormalities of Labour and Delivery

Includes induction of labour and abnormal uterine action

Social Obstetrics

Study of interplay of social and environmental factors and human reproductio going back to premarital a preconception period.

- i. Implementing safe motherhood initiative.
- ii. Community maternal health care
- iii. Antenatal checkup
- iv. MCH problems

- v. Risk approach of pregnant women Anaemia, STD, tetanus, AIDS
- vi. Domicilliary care
- vii. Postnatal complications
- viii. Low birth weight (LBW)
 - ix. Socio-economic status and birth weight correction
 - x. Infant feeding
 - xi. Road to health chart and school health programme
- xii. Pre pregnancy and post pregnancy counselling
- xiii. Reproductive and child health (RCH)
- xiv. National Health Programmes

Family welfare programmes including Reconstructive surgeries

Temporary methods like

- Chemical contraceptives
- Barrier methods
- Hormonal contraception
- IUD

Permanent methods like

- Tubectomy
- Laparoscopy tubal ligation
- Minilap

Reconstructive surgeries like

- Tuboplasty
- Vaso Vasotomy

Perinatology

- i. The term new born infant
- ii. Low birth weight baby Preterm, IUGR
- iii. Asphyxia neonatorum
- iv. Respiratory distress
- v. Jaundice in new born
- vi. Haemorrahagic disease of new born
- vii. Convulsions in new born
- viii. Injuries of the new born
 - ix. Infection of new born
 - x. Diarrhea in new born
 - xi. Vomiting of the new born
- xii. Congenital malformation of new born.

Neonatal

Early neonatal complication, infection and management.

Mortality and Morbidity

Epidemiology, Magnitude of the problem, causes, prevention and management of Maternal mortality and morbidity. Perinatal motality,

Gynaecology

History taking with special reference to Gynaecological history, abdominal and pelvic examination, relevant investigation to arrive at most probable diagnosis.

Topics includes: Infection, New growths (both benign and malignant) and other pathological disorders of vulva, vagina, urinary bladder, cervix, uterus, fallopian tubes, Ovaries and Pelvic cellular tissues including STD and HIV.

Adolescent Gynaecology

Menstrual disorders, including amenorrhoea, menopause, postmenopausal Gynaecological problems and management of the aged and elderly women. Chromosomal disorders – including intersex

Gynaecologic clinical cytopathology.

Contraception and family planning.

Infertility and ART

Hormones therapy.

Problem of sex and marriage

Clinical Obstetrics & Gynaecology

Obstetrics

- i. Diagnosis of early pregnancy and its complication and management.
- ii. AIM of ANC and management of high-risk pregnancies.
- iii. To work in labour wards and to manage normal and complicated deliveries.
- iv. Neonatal care and resuscitation in labour wards
- v. Follow-up of normal and abnormal deliveries during postnatal period
- vi. Assisting caesarean section initially, by the end of the course, they shall be able to do Caesarean sections independently.
- vii. I C U Management.
- viii. Family welfare programmes and reconstructive surgeries of the fallopian tubes
 - ix. Rural obstetrics care and referral services.

Gynaecology

- i. To work in O.P.D. and examine Gynaecology cases routinely,
- ii. Minor operations

To assist in the beginning and shall carry on work independently by the end of I year

iii. Major Operations

To assist as second assistant for the 151 six months first assistant for the next 6 months and do some major operations like vaginal hysterectomy with P.F.R. and abdominal hysterectomy, Ovariotomy under supervision of senior doctors. By the end the course the candidate shall be familiar

with the techniques of above mentioned operations and to do independently.

- iv. To do investigations like HSG and USG under guidance initially and independently by the end of course.
- v. To assist medico legal cases.
- vi. Writing case records
- vii. Candidate should write separate PG case shuts. They should keep diary and log book and get verified by the Unit Chief by the end of each month.

Communication abilities

Ability to interact with and work as a team with other colleagues, with patients and with teachers.

Record keeping

The ability to maintain records as scientifically as possible. Knowledge of computer is helpful.

Surgical Skills

I. Procedures to be performed independently (PI)

- Conducting minimum 25 cases of normal delivery including forceps and ventose application. Episiotomy repair, colposyntesis, 3rd degree perineal tear suturing
- 2. Tubectomy both mini lap & laparoscopic sterilisation.

3. Minor O.T. procedures:

- i. Medical termination of pregnancy (MTP), D&C, suction evacuation, Menstrual Regulation (MR), Mid-Trimester procedures extra amniotic instillation with of 2% ethacardine inj, Local application cerviprime gel insertion of intrauterine devisors.
- ii. Cervical and Endometrial biopsy, electric cauterisation and cold cautery tube testing procedure and histosalphingogram,
- iii. Cervical biopsy, pap-smear,
- iv. Diagnostic laparoscopy & colposyntosis

4. Major O.T. Procedures

- Caesarean section minimum 5 to be done and 20 operations to be assisted
- ii. Ovariotomy
- iii. Cervical encerelage
- iv. Salpingectomy for ectopic pregnancy
- v. Laparotomy
- vi. Internal pelvic version and MRP
- vii. Operation for stress incontinence

II. Procedures to be observed (Candidate to wash and observe) (0)

5. Special Operations

- i. Tuboplasty myomectomy
- ii. Ovarian de-bulking operation

- iii. Ventrofixation (Gilliam's operation)
- iv. Sling operations for prolapse
- v. Wartheim's hysterectomy
- vi. Simple and radical vulvectomy
- vii. Caesarean hysterectomy
- viii. Internal iliac legation
- ix. Operation for inversion of uterus
- x. Vaginal hysterectomy minimum 10 to be assisted
- xi. Abdominal hysterectomy minimum 10 to be assisted

III. Year wise Structured Training Schedule

1st Year

- i. Theoretical knowledge, Basic sciences
- ii. Examination and diagnosis of Obstetrics and Gynaecological cases with relevan investigations case recording.
- iii. Surgical Skills: Assisting Caesarean sections as second assistant initially an later on as first assistant, under supervision.
- iv. Assisting all major gynaecological operations like, vaginal and abdomina hysterectomies as a second assistant.

Minor Operations

Assisting minor operations like M.T.P. Tubectomy, Laparoscopy, Cervic biopsy, D & C in the initial period, and later on doing independently under supervision.

2nd Year

Theoretical knowledge of Allied subjects

Clinical examination and diagnosis. The student is encouraged to take diagnostic, investigational and therapeutic decisions.

Surgical Skills

At the end of the second year the student should be capable of operating without assistance but under supervision, like caesarean section and minor operations like, M.T.P. cervical biopsy, D & C, tubectomies, outlet forceps, emergencies during delivery. The student must know how to manage the complications during and after delivery confidently.

Conference and workshops

Should be encouraged to attend one conference of State level & at National level. Presentation of paper in the conference should be encouraged.

The student should be involved actively in presentation of seminars, panel discussion, Journal clubs and case discussions with seniors, and to maintain the record.

IV. Rotation and Labour ward Postings

i. The student must work in labour wards atleast 6 months during I and II year. (3 months each year)

ii. Pediatrics 1 monthiii. Radio-diagnosis including Ultrasound and NST 1 monthiv. Radiotherapy (oncology) 1 monthv. Anesthesia 1 month

Teaching/Learning Experience

- i. Attending OPD work
- ii. Operations or assisted or to be performed
- iii. Teaching undergraduate students
- iv. Attending the teaching programmes:
 - a. Case presentation
 - b. Seminars
 - c. Journal clubs
 - d. Mortality review
 - e. Panel discussion
 - f. Clinico-Pathological conference,
 - g. CME Programmes and OBG society meetings

The unit heads should scrutinize it every weekend. HOD, should see and sign at the end of each unit posting.

- v. PG posted to each unit should write the case history examine the patients in detail and carry out the investigations and shall be responsible for pre operative, operative and post operative care. By the end of the unit posting, shall submit the same to the unit chief and take the signature.
- 1. Clinical cases: Each M.D. student should present atleast 12 clinical cases fordiscussion in the two year posting (6 Obstetrics & 6 Gynaecology)
- 2. Journal club: Each candidate shall present atleast 6 papers on recent advances in Obstetrics and Gynaecology from latest journals in the Journal clubs.

They shall participate actively in minimum of 6 subject seminars.

Monitoring Progress of Studies

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only also helps teachers to evaluate students, but also students to evaluate themselves. The monitoring be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that asses various aspects. Checklists are given in Chapter IV.

The learning out comes to be assessed should included: (1) Personal Attitudes, (2) Acquisition of Knowledge, and (3) Clinical and operative skills.

1. Personal Attitudes. The essential items are:

- Caring attitudes
- Initiative
- Organisational ability
- Potential to cope with stressful situations and undertake responsibility
- Trust worthiness and reliability
- To understand and communicate intelligibly with patients and others
- To behave in a manner which establishes professional relationships with patients and colleagues
- Ability to work in team
- A critical enquiring approach to the acquisition of knowledge

The methods used mainly consist of observation. It is appreciated that these item require a degree of subjective assessment by the guide, supervisors and peers.

2. Acquisition of Knowledge: The methods used comprise of 'Log Book' which records participation in various teaching / learning activities by the students. The number of activities attended and the number in which presentations are made are to b recorded. The log book should periodically be validated by the supervisors. Some of the activities are listed. The list is not complete. Institutions may include addition activities, if so, desired. Journal Review Meeting (Journal Club): The ability to do literature search, in depth study, presentation skills, and use of audio- visual aids are to be assessed. The assessment is made by faculty members and peers attending the meeting using a checklist (see Model Checklist–I, Chapter IV).

Seminars / Symposia: The topics should be assigned to the student well in advance to facilitate in depth study. The ability to do literature search, in depth study, presentation skills and use of audio- visual aids are to be assessed using a checklist (see Model Checklist-II, Chapter IV).

Clinico-pathological conferences: This should be a multidisciplinary case study of an interesting case to train the candidate to solve diagnostic and therapeutic problems by using an analytical approach. The presenter(s) are to be assessed using a checklist similar to that used for seminar.

3. Clinical skills

Dav to Day work: Skills in outpatient and ward work should be assessed periodically. The assessment should include the candidates' sincerity and punctuality, analytical ability and communication skills (see Model Checklist III, Chapter IV).

Clinical meetings: Candidates should periodically present cases to his peers and faculty members. This should be assessed using a check list (see Model checklist IV, Chapter IV).

Clinical and Procedural skills: The candidate should be given graded responsibility to enable learning by apprenticeship. The performance is assessed by the guide by direct observation. Particulars are recorded by the student in the logbook. (Table No.3, Chapter IV)

4. Periodic tests:

The departments may conduct two tests, one of them be at the end of first year and the other in the second year three months before the final examination. The third test may be held three months before the final examination. The tests may include written papers, practicals / clinicals and viva voce.

- **5.** Work diary / Log Book: Every candidate shall maintain a work diary and record his/her participation in the training programmes conducted by the department such as journal reviews, seminars, etc. Special mention may be made of the presentations by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate.
- **6.** Records: Records, log books and marks obtained in tests will be maintained by the Head of the Department and will be made available to the University o MCI.

Log book

The logbook is a record of the important activities of the candidates during his training, Internal assessment should be based on the evaluation of the logbook Collectively, logbooks are a tool for the evaluation of the training programme of the institution by external agencies. The record includes academic activities as well as the presentations and procedures carried out by the candidate.

Format of the logbook for the different activities is given in Tables 1, 2 and 3 Chapter IV. Copies may be made and used by the institutions.

Procedure for defaulters: Every department should have a committee to review such situations. The defaulting candidate is counselled by the guide and head of the department. In extreme cases of default the departmental committee may recommend that defaulting candidate be withheld from appearing the examination, if she/he fails t fulfill the requirements in spite of being given adequate chances to set himself or herself right.

Scheme of Examination

A. Theory

There shall be three question papers, each of three hours duration. Each paper shall consist of two long essay questions each question carrying 20 marks and 6 short essay questions each carrying 10 marks. Total marks for each paper will be 100 Questions on recent advances may be asked in any or all the papers. Details o distribution of topics for each paper will be as follows:

Paper I: Basic Science as applicable to Obstetrics and Gynecology

Paper II: Obstetrics
Paper III: Gynecology

Note: The distribution of chapters / topics shown against the papers are suggestive only.

B. Clinical

There shall be two long cases and two short cases to be examined and presented by each candidate. Marks shall be 150.

Type of cases

Long cases: One case of Obstetrics and one case of Gynecology. Each case carries 50 marks.

Short cases: One case of Obstetrics and one case of Gynecology. Each case carries 25 marks.

C. Viva Voce: 50 Marks

All examiners will conduct viva-voce conjointly on candidate's comprehension, analytical approach, expression and interpretation of data. It includes all components of course contents. In addition candidates may be also be given case reports, charts, dummies (pelvis, foetal skull), gross specimens, pathology slides, instruments, X- rays, Z ultrasound, CT scan images, NST etc., for interpretation.

D. Distribution of Marks:

Maximum marks for	Theory	Practical	Viva	Grand Total
Diploma in Obstetrics &	200	1.50	ГО	F00
Gynecology	300	150	50	500

Recommended Books

SI. No.	Name of the Author	Name of the Book	Edition	Name of the Publications
1 2	IAN Donald Farnando Aris	Practical Obstetrics problems Practical guide to high risk pregnancy & delivery	5 th Edn	B.A. Publication Mosby Publications
3	William's	Text book of Obstetrics	21st Edn	(not known)
4	Holland and Brew's	Manual of Obstetrics		B.I.P. Publications
5	Jeffcoat's	Principles of Gynaecology	5 th Edn	Butterworth Heighmen
6	Shaw's	Text book of Gynaecology	12 th Edn	B.L. Churchill Livingston
7	Dutta	Text book of Gynaecology	12 th Edn	Central Publications
8	Parulekar	Practical Gynaecology & Obstetrics	Latest Edn	Vora Publications
9	Munrokar's	Operative Obstetrics	10 th Edn	A.T.B.S. Publi.
10	Telinde's	Operative Gynaecology	8 th Edn	Lipincorttriven Publications
11	Barus or celil and Burrows	Medical disorders in Obstetrics practice	3rd Edn	Blackwell science Publications
12	Rathnam	Obstetrics and Gynaecology	2 nd Edn	Orient Longmen Publications
13	Arul kumar	The management of labour	1 st Edn	Orientlongmen Publications
14	Bhaskar Rao	Clinical Gynaecology	4 th Edn	Orient Longmen Publications
15	C S Dawn	Text book of Obstetrics and Neunatology	13th Edn	BB Publications
16	C S Dawn	Text book of Gynaecology and contraception	13th Edn	BB Publications
17	J. Studd	Progress in Obstetrics and Gynaecology	Latest Edn	I.S.E. Publications
18	Padubidri	Text book of Obstetrics	1 st Edn	C.B.S. Publications

Journals

- 1. Journal of FOGSI
- 2. Clinics of Obstetrics & Gynecology- North America
- 3. Fertility and Sterility
- 4. British Journal of Obstetrics & Gynecology
- 5. American Journal of Obstetrics & Gynecology
- 6. American association of gynecology laproscopy
- 7. Obstetrics & Gynecologic clinic
- 8. Current opinion in Obstetrics & Gynecology
- 9. Briggs update: Drugs in pregnancy & lactation.
- 10. Operative technique in gynecologic surgery

CHAPTER IV

Monitoring Learning Progress

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring shall be done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects. Model checklists are given in this chapter which may be copied and used.

The learning out comes to be assessed should include:

- 1. Personal Attitudes.
- 2. Acquisition of Knowledge.
- 3. Clinical and operative skills and
- 4. Teaching skills.

1. Personal Attitudes: The essential items are:

- a. Caring attitude.
- b. Initiative.
- c. Organisational ability.
- d. Potential to cope with stressful situations and undertake responsibility.
- e. Trust worthiness and reliability.
- f. To understand and communicate intelligibly with patients and others.
- g. To behave in a manner that establishes professional relationships with patients and colleagues.
- h. Ability to work in a team.
- i. A critical enquiring approach to the acquisition of knowledge.

The methods used mainly consist of observation. It is appreciated that these items require a degree of subjective assessment by the guide, supervisors and peers.

2. Acquisition of Knowledge: The methods used comprise of 'Log Book' which records participation in various teaching / learning activities by the students. The number of activities attended and the number in which presentations are made are to be recorded. The log book should periodically be validated by the supervisors. Some of the activities are listed. The list is not complete. Institutions may include additional activities, if so, desired.

- a. **Journal Review Meeting (Journal Club).** The ability to do literature search, in depth study, presentation skills, and use of audio- visual aids are to be assessed. The assessment is made by faculty members and peers attending the meeting using a checklist (see Model Checklist I, Chapter IV)
- b. Seminars / Symposia. The topics should be assigned to the student well in advance to facilitate in depth study. The ability to do literature search, in depth study, presentation skills and use of audio- visual aids are to be assessed using a checklist (see Model Checklist-II, Chapter IV)
- c. Clinico-pathological conferences. This should be a multidisciplinary study of an interesting case to train the candidate to solve diagnostic and therapeutic problems by using an analytical approach. The presenter(s) are to be assessed using a check list similar to that used for seminar.
- d. Medical Audit. Periodic morbidity and mortality meeting shall be held. Attendance and participation in these must be insisted upon. This may not be included in assessment.

3. Clinical skills:

- a. **Day to Day work:** Skills in outpatient and ward work should be assessed periodically. The assessment should include the candidates' sincerity and punctuality, analytical ability and communication skills (see Model Checklist III, Chapter IV).
- b. **Clinical meetings:** Candidates should periodically present cases to his peers and faculty members. This should be assessed using a check list (see Model checklist IV, Chapter IV).
- c. Clinical and Procedural skills: The candidate should be given graded responsibility to enable learning by apprenticeship. The performance is assessed by the guide by direct observation. Particulars are recorded by the student in the log book. (Table No.3, Chapter IV)
- **4.** <u>Teaching skills</u>: Candidates should be encouraged to teach undergraduate medical students and paramedical students, if any. This performance should be based on assessment by the faculty members of the department and from feedback from the undergraduate students (See Model checklist V, Chapter IV)
- **5**. **Periodic tests:** In case of degree courses of three years duration, the department may conduct three tests, two of them be annual tests, one at the end of first year and the other in the second year. The third test may be held three months before the final examination. In case of diploma courses of two

year duration, the departments may conduct two tests. One of them at the end of first year and the other in the second year, three months before the final examination. The tests may include written papers, practical / clinical and viva voce.

- **6. Work diary:** Every candidate shall maintain a work diary and record his/her participation in the training programmes conducted by the department such as journal reviews, seminars, etc. Special mention may be made of the presentations by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate.
- **7. Records:** Records, log books and marks obtained in tests will be maintained by the Head of the Department and will be made available to the University or MCI.
- **8.** <u>Log book</u>: The log book is a record of the important activities of the candidates during his training. Internal assessment should be based on the evaluation of the log book. Collectively, log books are a tool for the evaluation of the training programme of the institution by external agencies. The record includes academic activities as well as the presentations and procedures carried out by the candidate. Format for the log book for the different activities is given in Tables 1, 2 and 3 of Chapter IV. Copies may be made and used by the institutions.

Procedure for defaulters: Every department should have a committee to review such situations. The defaulting candidate is counseled by the guide and head of the department. In extreme cases of default the departmental committee may recommend that defaulting candidate be withheld from appearing the examination, if she/he fails to fulfill the requirements in spite of being given adequate chances to set him or herself right.

CHAPTER IV (Contd) Format of Model Check Lists

Check List-I

MODEL CHECK-LIST FOR EVALUATION OF JOURNAL REVIEW PRESENTATIONS

Name of t	the Stud	ent:
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Name of the Faculty/Observer:

SI No	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Article chosen was					
2.	Extent of understanding of scope & objectives of the paper by the candidate					
3.	Whether cross references have been consulted					
4.	Whether other relevant publications consulted					
5.	Ability to respond to questions on the paper / subject					
6.	Audio-visual aids used					
7.	Ability to defend the paper					
8.	Clarity of presentation					
9.	Any other observation					
	Total Score					

Check List - II

MODEL CHECK-LIST FOR EVALUATION OF SEMINAR PRESENTATIONS

Name of the Faculty/Observer:

Name of the Student:

SI No	Items for observation during presentation	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Whether other relevant publications consulted					
2.	Whether cross references have been consulted					
3.	Completeness of Preparation					
4.	Clarity of Presentation					
5.	Understanding of subject					
6.	Ability to answer questions					
7.	Time scheduling					
8.	Appropriate use of Audio-Visual aids					
9.	Overall Performance					
10.	Any other observation					
	Total Score					

Check List - III

MODEL CHECK LIST FOR EVALUATION OF CLINICAL WORK IN WARD / OPD

(To be completed once a month by respective Unit Heads, including posting in other departments)

Ν	am	e o	f ·	the	Stu	den	t:
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Name of the Faculty/Observer:

SI No	Points to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Regularity of attendance					
2.	Punctuality					
3.	Interaction with colleagues and supportive staff					
4.	Maintenance of case records					
5.	Presentation of cases during rounds					
6.	Investigations work up					
7.	Beside manners					
8.	Rapport with patients					
9.	Counseling patient's relatives for blood donation or Postmortem and Case follow up.					
10.	Overall quality of ward work					
	Total Score					

Check List - IV EVALUATION FORM FOR CLINICAL PRESENTATION

Name of the Student: Name of the Faculty:

SI No	Points to be considered	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Completeness of history					
2.	Whether all relevant points elicited					
3.	Clarity of Presentation					
4.	Logical order					
5.	Mentioned all positive and negative points of importance					
6.	Accuracy of general physical examination					
7.	Whether all physical signs elicited correctly					
8.	Whether any major signs missed or misinterpreted					
9.	Diagnosis: Whether it follows follows logically from history and findings					
10.	Investigations required Complete list Relevant order Interpretation of investigations					
11.	Ability to react to questioning Whether it follows logically from history and findings					
12.	Ability to defend diagnosis					
13.	Ability to justify differential diagnosis					
14.	Others					
	Total Score					

Check List - V

MODEL CHECK LIST FOR EVALUATION OF TEACHING SKILL PRACTICE

SI No		Strong Point	Weak Point
1.	Communication of the purpose of the talk		
2.	Evokes audience interest in the subject		
3.	The introduction		
4.	The sequence of ideas		
5.	The use of practical examples and/or illustrations		
6.	Speaking style (enjoyable, monotonous, etc., specify)		
7.	Attempts audience participation		
8.	Summary of the main points at the end		
9.	Asks questions		
10.	Answers questions asked by the audience		
11.	Rapport of speaker with his audience		
12.	Effectiveness of the talk		
13.	Uses AV aids appropriately		

Check List - VI

MODEL CHECK LIST FOR DISSERTATION PRESENTATION

	MODEL CHECK	K LIST I OF	DISSERIA	IION FRESE	ILIVITOI
Name o	f the Student:				

Name of the Faculty:

SI No	Points to be considered divine	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Interest shown in selecting a topic					
2.	Appropriate review of literature					
3.	Discussion with guide & other faculty					
4.	Quality of Protocol					
5.	Preparation of proforma					
	Total Score					

Check List - VII

CONTINUOUS EVALUATION OF DISSERTATION WORK BY GUIDE / CO GUIDE

Name of the Student:		
Name of the Faculty:		

SI No	Items for observation during presentations	Poor 0	Below Average 1	Average 2	Good 3	Very Good 4
1.	Periodic consultation with guide/co-guide					
2.	Regular collection of case Material					
3.	Depth of analysis / discussion					
4.	Departmental presentation of findings					
5.	Quality of final output					
6.	Others					
	Total Score					

LOG BOOK

Table 1: Academic activities attended	
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Name:	Admission Year:
College:	

Date	Type of Activity Specify Seminar, Journal Club, Presentation, UG teaching	Particulars

LOG BOOK

Table 2:	Academic	presentations	made by	y the	student
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Name:	Adr	mission year:
College:		
Date	Topic	Type of Presentation Specify Seminar, Journal Club, Presentation, UG teaching

LOG BOOK

	•	•	•
Name:			Admission year:

Table 2: Diagnostic and Operative procedures performed

College:

Date	Name	ID No.	Procedure	Category O, A, PA, PI*

* Key:

- O Washed up and observed
- A Assisted a more senior Surgeon
- PA Performed procedure under the direct supervision of a senior Surgeon
- PI Performed independently

Model Overall Assessment Sheet

Name of the College:

Academic Fear:

Ū	Coulty Monday 0			Na	me of !	Student	Name of Student and Mean Score	ean Sc	ore		
<u> </u>	racuity Member & Others	٧	В	C	D	ш	ш	9	I	I	ſ
1.											
2.											
3.											
4.											
5.											
	Total Score										

Chapter V

Medical Ethics

Sensitisation and Practice

Introduction

There is now a shift from the traditional individual patient- doctor relationship and medical care. With the advances in science and technology and the needs of patients, their families and the community, there is an increased concern with the health of society. There is a shift to greater accountability to the society. Doctors and health professionals are confronted with many ethical problems. It is, therefore necessary to be prepared to deal with these problems. To accomplish the Goal and General Objective stated in Chapter II and develop human values it is urged that **ethical sensitisation** be achieved by lectures or discussion on ethical issues, clinical discussion of cases with an important ethical component and by including ethical aspects in discussion in all case presentation, bedside rounds and academic postgraduate programmes.

Course Contents

1. Introduction to Medical Ethics

- What is Ethics?
- What are values and norms?
- Relationship between being ethical and human fulfillment.
- How to form a value system in one's personal and professional life.
- Heteronomous Ethics and Autonomous Ethics.
- Freedom and personal Responsibility.

2. Definition of Medical Ethics

- Difference between medical ethics and bio-ethics
- Major Principles of Medical Ethics

Beneficence = fraternity
 Justice = equality
 Self determination (autonomy) = liberty

3. Perspective of Medical Ethics

- The Hippocratic Oath.
- The Declaration of Helsinki.
- The WHO Declaration of Geneva.
- International code of Medical Ethics. (1993)
- Medical Council of India Code of Ethics.

4. Ethics of the Individual

- The patient as a person.
- The Right to be respected.
- Truth and Confidentiality.
- The autonomy of decision.
- The concept of disease, health and healing.
- The Right to health.
- Ethics of Behaviour modification.
- The Physician Patient relationship.
- Organ donation.

5. The Ethics of Human life

- What is human life?
- Criteria for distinguishing the human and the non-human.
- Reasons for respecting human life.
- The beginning of human life.
- Conception, contraception.
- Abortion.
- Prenatal sex-determination.
- In vitro fertilization (IVF).
- Artificial Insemination by Husband (AIH).
- Artificial Insemination by Donor (AID).
- Surrogate motherhood.
- Semen Intra-fallopian Transfer (SIFT).
- Gamete Intra-fallopian Transfer (GIFT).
- Zygote Intra-fallopian Transfer (ZIFT).
- Genetic Engineering.

6. The Family and Society in Medical Ethics

- The Ethics of human sexuality.
- Family Planning perspectives.
- Prolongation of life.
- Advanced life directives The Living Will
- Euthanasia
- Cancer and Terminal Care

7. Profession Ethics

- Code of conduct.
- Contract and confidentiality.
- Charging of fees, Fee-splitting.
- Prescription of drugs.
- Over-investigating the patient.

- Low Cost drugs, vitamins and tonics.
- Allocation of resources in health care.
- Malpractice and Negligence.

8. Research Ethics

- Animal and experimental research / humaneness.
- Human experimentation.
- Human volunteer research Informed Consent Drug trials.

9. Ethical workshop of cases

- Gathering all scientific factors.
- Gathering all human factors.
- Gathering all value factors.
- Identifying areas of value conflict, setting of priorities
- Working out criteria towards decisions.

Recommended Reading

- 1. Francis C.M., Medical Ethics, 1 Ed, 1993, Jaypee Brothers, New Delhi, p 189, Rs. 150/-
- 2. Good Clinical Practices: GOI Guidelines for clinical trials on Pharmaceutical Products in India (www.cdsco.nic.in)
- 3. INSA Guidelines for care and use of Animals in Research 2000.
- 4. CPCSEA Guidelines 2001 (www.cpcsea.org.)
- 5. Ethical Guidelines for Biomedical Research on Human Subjects, 2000, ICMR, New Delhi.
- 6. ICMR Guidelines on animal use 2001, ICMR, New Delhi.