

Dr. D.Y. PATIL VIDYAPEETH, PUNE

(Deemed to be University)

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade) (An ISO 9001 : 2015 Certified University)

Dr. A. N. Suryakar Registrar

> Ref. No. : DPU/875= vii/2019 Date : 11/09/2019

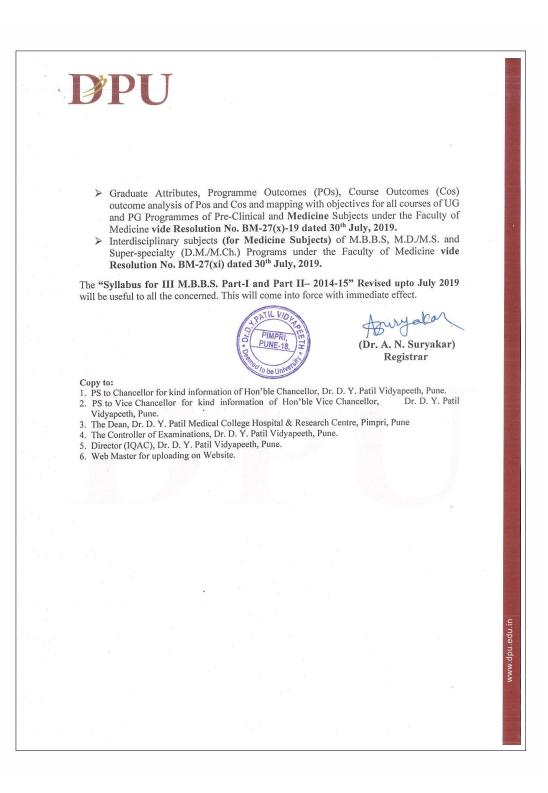
NOTIFICATION

Whereas in pursuance of the following decisions taken by the Board of Management, it is hereby notified to all concerned that the "Syllabus for III M.B.B.S. Part-I and Part II-2014-15" is revised upto July 2019 and hereby published.

- Changes in syllabus for UG and PG in General Medicine, Pulmonary Medicine and General Surgery vide Resolution No. BM-07-(iii)-4 dated 28th January, 2014.
- Updation in UG and PG syllabus of General Medicine, Obstetrics & Gynecology, Orthopedics, Anaesthesiology, ENT and Ophthalmology vide Resolution No. BM-04(i)-15, dated 31st March, 2015.
- Structure format for evolution of History taking for 3rd Semester in General Medicine vide Resolution No. BM-26(v)-15, dated 29th December, 2015.
- Replacement of the term "one line answer by one Sentence answer in the Clinical subjects" vide Resolution No. BM-26(ix)-15, dated 29th December, 2015
- Introduction of Bioethical aspects in various chapters of all subjects vide Resolution No. BM-26(xi)-15, dated 29th December, 2015
- Modifications in UG Syllabus of Psychiatry vide Resolution No. BM-17(ix)-16, dated 22nd September, 2016.
- Consideration of weightage to the journal marks in internal assessment of III MBBS Clinical Subjects as continuous day to day assessment vide Resolution No. BM-05(ii)-17, dated 7th April, 2017.
- Conduct of prelim exam of 3rd MBBS only after the end of clinical postings, vide Resolution No. BM-38(ix)-17, dated 27th December, 2017.
- Enhancement of UG syllabus of General Medicine subject vide Resolution No. BM-16(x)-18, dated 21st July, 2018.
- Conduct of P.B.L. classes in E-library in the Department of Paediatrics vide Resolution No.BM-35(ii)-18, dated 12th October, 2018.
- Graduate Attributes, Programme Outcomes (POs), Course Outcomes (Cos) and gap analysis for all courses of UG and PG Programmes for Para-Clinical and Surgical Subjects vide Resolution No. BM-10(vii)-19 dated, 12th April, 2019.
- Interdisciplinary subjects (for Surgical Subjects) of M.B.B.S, M.D./M.S. and Super-specialty (D.M./M.Ch.) Programs under the Faculty of Medicine vide Resolution No. BM-10(viii) dated 12th April, 2019.



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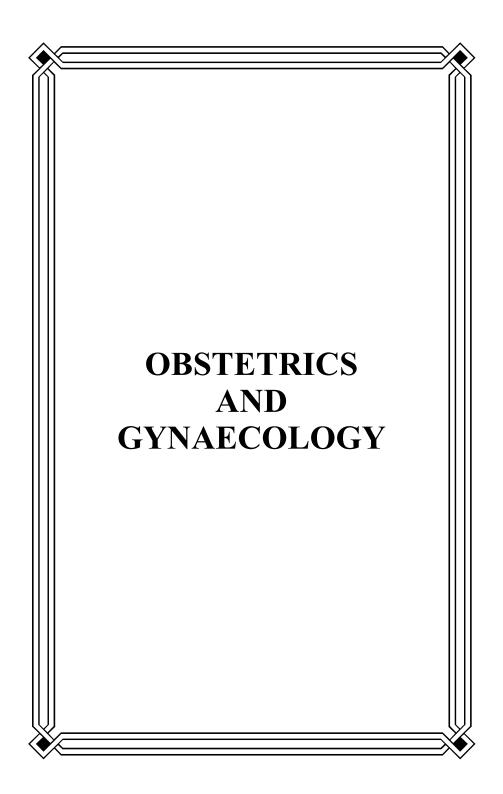
MAPPING OF PROGRAMME OUTCOMES [POs] AND COURSE OUTCOMES [COs] OF MBBS PROGRAMMES

Course Code	Course Title
MB401	General Medicine & Allied
MB402	General Surgery & Allied
MB403	Obstetrics & Gynaecology
MB404	Paediatrics

General Surgery and allied: (MB 402)			
CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes	
402.1	Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies in adults and children.	PO1,PO2, PO4,PO5, PO7,PO9	
402.2	Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion;	PO1,PO2, PO4,PO5, PO7, PO9	
402.3	Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics;	PO1,PO2,PO3 ,PO4,PO5, PO6,PO7,PO9	
402.4	Diagnose common surgical conditions both acute and chronic, in adult and children	PO1,PO2, PO3,PO5, PO7, PO9	
402.5	Plan various laboratory tests for surgical conditions and interpret the results;	PO1,PO2, PO3,PO4, PO5,PO6,PO9	
402.6	Identify and manage patients of hemorrhagic, septicaemic and other types of shock	PO1,PO2,PO4 ,PO5 ,PO9	
402.7	Be able to maintain patient air-way and resuscitate any critically ill patient	PO1,PO2, PO3,PO5, PO6,PO7,PO9	
402.8	Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children;	PO1,PO2, PO3,PO5,PO6 ,PO7,PO9	
402.9	Acquire principles of operative surgery, including pre-operative, operative and postoperative care and monitoring.	PO1,PO2, PO3,PO5, PO6, PO9	
402.1	Treat open wounds including preventive measures against tetanus and gas gangrene;	PO1,PO2, PO5,PO6, PO7,PO8,PO9	
402.11	Diagnose neonatal and pediatric surgical emergencies and provide sound primary care before referring the patient to secondary / tertiary centres;	PO1,PO2,PO3 ,PO5,PO6, PO7,PO9	
402.12	Recognize the importance of clinical Orthopaedics & diagnose and manage majority of the conditions in clinical Orthopaedics on the basis of clinical assessment & investigations	PO1,PO2,PO3 ,PO4,PO5, PO6,PO7, PO8, PO9	

General Surgery and allied: (MB 402)		
CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
401.13	Carry out Bag Mask Ventilation and Basic Life Support(COLS)	PO1,PO2,PO3 ,PO5,PO6, PO7,PO9
401.14	At the end of the course student should know basic principles of various imaging modalities to diagnose various diseases and basic principles of recent advances	PO1,PO2,PO3 ,PO4,PO5, PO7,PO8,PO9

Obstetrics and Gynaecology : (MB403)			
CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes	
MB403.1	Use demography & vital statistics as a scientific tool to make rational decisions relevant to community and individual patient.	PO1,PO2,PO4, PO5,PO7	
MB403.2	Understand the anatomy, physiology of the female reproductive system including the development of the embryo and changes in maternal physiology in pregnancy	PO1,PO4,PO5, PO8	
MB403.3	Diagnose pregnancy and carry out antenatal care and do pre-conceptional counselling	PO1,PO2,PO3, PO4,PO5,PO6, PO7,PO8	
MB403.4	Manage complications including medical disorders in pregnancy	PO1,PO2,PO3, PO4,PO5,PO7, PO9	
MB403.5	Manage normal labour, puerperium and comprehend abnormal labour and puerperium	PO1,PO2,PO3, PO4,PO5,PO6, PO9	
MB403.6	Understand the physiology and care of lactation and the newborn	PO1,PO2,PO3, PO5,PO7,PO8	
MB403.7	Comprehend the basics of MTP, Contraception and advice women where required	PO1,PO3,PO7, PO8, PO9	
MB403. 8	Understand the basics of reproductive endocrinology including infertility and menopause and do basic management	PO1,PO3,PO4, PO5	
MB403.9	Understand the diagnosis and basic management of benign gynaecological diseases of female reproductive tract	PO1,PO2,PO3, PO4,PO5,PO9	
MB403.10	Comprehend the basic knowledge and management of Urogynaecology	PO1,PO3,PO5	
MB403.11	Understand the basics of diagnosis and outline of prevention and management of Gynaecological Oncology	PO1,PO3,PO5, PO9	
MB403.12	Perform basic skills (Clinical & Communication) of Obstetrics & Gynaecology	PO1,PO2,PO3, PO5,PO6,PO9	



OBSTETRICS AND GYNAECOLOGY

This syllabus is made as per the guidelines given by MCI and Dr. D. Y. Patil university, Pune

1) GOALS:

The main aim of the Undergraduate courses in the subject of OBGYN is to make the student well –versed with the knowledge of.

- 1.1 Anatomy and physiology of female genital tract
- 1.2 Conception, ANC, labour and its complication in brief physiology and Pathology of pregnancy.
- 1.3 Contraception, Family planning & demography
- 1.4 Gynaecological conditions.
- 1.5 Gynaecological Endocrinology.
- 1.6 Infertility and recent advances.
- 1.7 To train the student, to be able diagnose & manage the disease of female genital tract.
 - 1.7.1 To witness and assist routine & emergency OBS & GYN operative procedures.
 - 1.7.2 To train them in family planning procedures like MTP, tubectomy so as to enable them to actively participate in National family planning programs.

OBJECTIVES:

2) KNOWLEDGE:

At the end of the tenure MBBS the student should be able to.

- 2.1 Know the anatomy, Physiology & Pathophysiolgy of reproductive system and its common condition.
- 2.2 To diagnose pregnancy and Manage antepartum, intarapartum & Postpartum condition including emergencies.
- 2.3 To undertake the effective measures & to reduce maternal peripartum morbidity and mortality

- 2.4 To understand the knowledge about contraception, MTP, sterilization & their complications.
- 2.5 To know proper pharmacology of drugs used during pregnancy and lactation & drugs like hormones, antibiotics, chemotherapeutic agents used in Gynaecological practice.
- 2.6 To identify and manage gynaecological condition & emergencies and timely refer them for further necessary management.
- 2.7 To have detailed knowledge about adolescent and *geriatric* Gynaecological problems and their management.
- 2.8 Social obstetrics e,g, social violence ,rape etc.
- 2.9 Fetal therapy

2.10 Neonatal problems and management.

2.11 Brest related problems in OBGYN

3) SKILLS

At the end of MBBS curriculum the candidate shall be able to

- 3.1 To diagnose pregnancy manage ANC in normal and high-risk pregnancies.
- 3.2 To conduct normal and instrumental deliveries as well as cesarean section.
- 3.3 To manage the complication of labour.
- 3.4 To assist 5 MTPs, 5 Tubectomies.
- 3.5 To screen and diagnose female genital tract malignancies and to manage them.
- 3.6 To diagnose and manage female reproductive tract infections including HIV.
- 3.7 To diagnose, *evaluate and manage male and female* infertility and other Gynaecological conditions

4) INTEGRTED TEACHING

- 4.1 The candidate should have adequate knowledge of conditions related to Gynaecological urology and Neonatology.
- 4.2 To get skill and knowledge regarding radio-diagnosis and ultrasonography & laboratory diagnostic techniques.
- 4.3 To have the knowledge of immunology, virology retated to OB-GYN specialty.
- 4.4 To have basic knowledge about endocrine conditions related to obstetrics & gynecology.
- 4.5 To have knowledge about medical & surgical conditions in pregnancy.
- 4.6 To have knowledge about oncopathology, hematology.

5) GENERAL GUIDELINES OF TRAINING COURSES

- 5.1 To train students to diagnose and manage disease of female genital tract.
- 5.2 To diagnose pregnancy and give antenatal', intranatal and postpartum care and treat related complications and emergencies.
- 5.3 To train them in National Family Planning Programmes, viz; MTP, Tubectomies, IUCD insertions and contraceptive advice.
- 5.4 To train them to conduct normal labours, episiotomies and manage IIIrd stage of labour.
- 5.5 To train them in minor obstetric *and Gynaec* procedures.
- 5.6 To conduct high risk clinic and diagnose high risk pregnancy.
- 5.7 To have full knowledge of pharmacology of drugs safe in pregnancy and lactation.
- 5.8 To diagnose obstetric emergencies.
- 5.9 To have full knowledge regarding diagnostic *tools* and *laboratory Investigations*.
- 5.10 To diagnose and treat infections of female genital tract.

- 5.11 To undergo training in screening and diagnosing female genital tract malignancies.
- 5.12 To train student in minor Gynaecological procedures.
- 5.13 To train them to diagnose abnormal labours and timely *reference* of high risk cases.
- 5.14 To assist 5 MTP & 5 Tubectomies
- 5.15 To assist cesarean section under supervision.
- 5.16 To have knowledge about Neonatology, Sonography & Fetal therapy.
- 5.17 To assist major Gynaecological operations like abdominal and vaginal hysterectomies under supervision.
- 5.18 To have knowledge of obstetric emergencies.

OBSTETRICS AND GYNAECOLOGY

1) **OBSTETRICS**:

- 1.1 Applied anatomy of female genital tract –1 Hr.
- 1.2 Physiology of menstruation 1hour
- 1.3 Conception / implantation –1 Hr.
- 1.4 Early development of human embryo –1 hour
- 1.5 Fetal physiology ,circulation–1 Hr.
- 1.6 Amniotic fluid –Formation & Function –1 Hrs.
- 1.7 Structure, and anomalies of Placenta –1 Hr.
- 1.8 Physiological changes during pregnancy -1hour
- 1.9 Diagnosis of pregnancy –1 Hrs.
- 1.10 Antenatal care-1 hour
- 1.11 Nutrition in pregnancy, detection of high-risk pregnancy –1 Hrs.
- 1.12 Normal Labour –Physiology, clinical course and management-1 hour
- 1.13 Partogram –1hour
- 1.14 Mechanism of labour-1 hour
- 1.15 Analgesia (Pain relief)in labour –1 Hrs.
- 1.16 Normal puerperium -1 hour
- 1.17 Breast –Feeding –1 hour.
- 1.18 Abnormal puerperium -1 hour

1.19 Complication in early pregnancy

- 1.19.1 Hyperemesis gravidarum –1 Hr.
- 1.19.2 Abortion -2 Hrs.
- 1.19.3 Ectopic pregnancy –2 Hrs.
- 1.19.4 Gestational trophoblastic disease 2 Hrs.

1.20 Obstetrical complications during pregnancy

- 1.20.1 APH Accidental hemorrhage –1 Hr.
- 1.20.2 Placenta praevia –1 Hr.
- 1.20.3 Poly hydramnios / Oligohydramnios 1 Hr.
- 1.20.4 Multifoetal pregnancy –2 Hrs.

1.21 Medical disorders in pregnancy

- 1.21.1 Anaemia –1 Hr.
- 1.21.2 Heart diseases -1 Hr.
- 1.21.3 Hypertensive disorder –PIH and Eclampsia 2 Hrs.
- 1.21.4 Diabetes -1 Hr.
- 1.21.5 Jaundice -1 Hr.
- 1.21.6 Pulmonary diseases in pregnancy –1 Hr.
- 1.21.7 Thyroid disorders in pregnancy
- 1.21.8 Urinary tract diseases in pregnancy -1 Hr

1.22 Infections in pregnancy

- 1.22.1 Sexually transmitted infections in pregnancy-1 hour
- 1.22.2 HIV in pregnancy-1 Hr.
- 1.22.3 Toxoplasmosis in pregnancy–1 Hrs.
- 1.22.4 Rubella in pregnancy-1 hour
- 1.22.5 Other TORCH infections-1 hour
- 1.22.6 APLA Syndrome 1 hour

1.23 Gynaecological and surgical conditions in pregnancy.

Fibroid with pregnancy, ovarian tumours, acute abdomen, genital prolapse -2 Hrs.

1.24 High risk pregnancy

- 1.24.1 Pre-term labour –1 Hr.
- 1.24.2 Post term pregnancy –1 Hr.
- 1.24.3 IUGR -2 Hrs.
- 1.24.4 IUFD -1 Hr.
- 1.24.5 Pregnancy with Rh incompatibility –2 Hrs.
- 1.24.6 Post cesarean pregnancy -1 Hr.

1.25 Induction of labour -2 Hrs.

1.26 Abnormal position & presentation

- 1.26.1 Occipitio posterior –1 Hr.
- 1.26.2 Breech -1 hr.
- 1.26.3 Transverse lie –1 Hr.
- 1.26.4 Face & Brow -1 Hr.
- 1.26.5 Compound –1 Hr.
- 1.26.6 Cord Presentation and Prolapse –1 Hr.

1.27 Abnormal labour

- 1.27.1 Abnormal uterine contraction –1 Hr.
- 1.27.2 CPD -1 Hr
- 1.27.3 Contracted Pelvis 1hr
- 1.27.4 Obstructed labour –1 Hr.
- 1.27.5 Uterine rupture –1 Hr.

1.28 Third Stage complications

- 1.28.1 Retained placenta 1 Hr.
- 1.28.2 PPH & Shock -2 Hrs.
- 1.28.3 Uterine inversion –1 Hr.
- 1.28.4 AFE -1 Hr.

1.29 Puerperal Sepsis and other complications –2 Hrs.

- 1.30 Evaluation of foetal Health during pregnancy and labour 2 Hrs.
- 1.31 Drugs used in obstetric practice –1 Hr.

1.32 Operative procedures in Obstetrics

- 1.32.1 Caesarean Section –1 Hr.
- 1.32.2 Perineal tears & cervical tear -1Hr
- 1.32.3 Forceps –1 Hr.
- 1.32.4 Vacuum –1 Hr.
- 1.32.5 Destructive Operations in Obstetrics 1 Hr.
- 1.32.6 Manipulation in Obstetrics -1 Hr.

1.33 Maternal mortality and morbidity –1 Hr.

1.33.1 Perinatal mortality & morbidity –1 Hr.

- 1.34 National health programme –Safe motherhood, reproductive and child health –1 Hr.
- 1.35 Social Obstetrics –1 Hr.
- 1.36 Obstetric Ultrasound–1 Hr.
- 1.37 PNDT Act-1hr

2) NEWBORN

- 2.1 Examination & care of newborn and low birth weight babies.- 1Hr.
- 2.2 Asphyxia and neonatal resuscitation –1 Hr.
- 2.3 Diagnosis of early neonatal problems –1 Hr.
- 2.4 Birth injuries, Jaundice, infection –1 Hr.
- 2.5 Anencephaly & Hydrocephalus-Congenital Anomalies of fetus 1Hr.

3) GYNAECOLOGY

- 3.1 Development of genital tract 1 hr
- 3.2 Congenital anomalies and clinical significance -1hr
- 3.3 Chromosomal abnormalities and inter sex –1 Hr.
- 3.4 Physiology of Menstruation –1 Hr.
- 3.5 Menstrual abnormalities Amenorrhoea

- 3.6 Dysmenorrhoea -1 hr
- 3.7 Abnormal uterine Bleeding –2 Hrs.
- 3.8 Puberty and its disorder –1 Hr.
- 3.9 Adolescent Gynaecological problems –1 hr.
- 3.10 Infertility –female –2 hr.
- 3.11 Infertility -male -1 hr
- 3.12 Infection of genital tract and STD-1 hr
- 3.13 Leucorrhoea –1 Hr.
- 3.14 Pruritus vulvae –1 Hr.
- 3.15 Vaginitis, Cervicitis –1 Hr.
- 3.16 PID 1 Hr.
- 3.17 Genital TB -1 Hr.
- 3.18 HIV infection –1 Hr.
- 3.19 Fibroid Uterus -1 hr
- 3.20 Malignant Lesions of Vulva &Vagina -1 hr
- 3.21 Malignant Lesions Cx 2 hrs
- 3.22 Malignant Lesions Uterus 2 Hr.
- 3.23 Malignant Lesions Uterus Ovary- 2 hrs
- 3.24 Adenomyosis & endometriosis -1 Hr.
- 3.25 Genital prolapse -2 Hr.
- 3.26 Genital tract displacement, Urinary disorders in Gynaecology 2 Hr.
- 3.27 Perineal tears & Genital Fistulae, RVF & VVF -2 Hrs.
- 3.28 Radiotherapy & Chemotherapy in Gynaecology –1 Hr.
- 3.29 Drugs & Hormones in Gynaecology –2 Hrs.
- 3.30 Ultrasonography, Radiology & Endoscopy in Gynaecological diagnosis 2 Hrs.
- 3.31 Operative Gynaec Procedures -2 Hrs.
- 3.32 Pre & Post-operative care in Gynaecology –2 Hrs.
- 3.33 Menopause & HRT –2 Hrs.

4) FAMILY PLANNING

- 4.1 Demography & Population Dynamics –1 Hr.
- 4.2 Contraception Temporary methods –1 Hr.
- 4.3 Oral Pills
- 4.4 IUCD
- 4.5 Permanent methods –2 Hrs.
- 4.6 Newer contraceptives –1 Hr.
- 4.7 MTP Act and *PNDT Act* procedures of MTP in first and second trimester. 3 Hrs.

TUTORIALS:

Pap Smear & Cervical Biopsy - 1 hr IUCD 1 hr Tubal Ligation 1 hr OC Pills 1 hr Pelvis 1 hr Foetal Skull 1 hr CPD 1 hr Normal Labour 1hr Episiotomy 1 hr *Mechanism* of Normal Labour 1 hr OP presentation 1 hr Breech presentation 1 hr Drugs in Pregnancy and Lactation 1 hr MTP Medical and 1 trimester 1 hr MTP 2 trimester 1 hr Tubal Ligation 1 hr X –Ray 1 hr Specimens 1 hr Instruments 2 hrs Ulatrasonography 1hr Non stress test hr

THEORY EXAM OBSTETRICS / GYNAECOLOGY

Paper I : Obstetrics including social obstetrics and newborn care. **Paper II :** Gynaecology Family Welfare and Demography

Duration and Pattern of each paper will be as follows :		
Duration: One line answer ¹ / ₂ hour, paper 2 hours. Pattern	Marks	
Sec. A : One line answer –8 Questions of 1 mark each	08	
Sec. B : Short Answer Questions	18	
(6 Questions of 3 Marks each)		
Sec. C: Long Answer Questions	14	
(2 Questions of 7 marks each)		
Paper –I	40 Marks	
Paper - II	40 Marks	
Internal Assessment	20 Marks	
Oral & Viva Voca [(Out of 20 marks) to be added in theory marks]		
Table One –Obstetrics	10 Marks	
Includes – Specimens, Instruments, Drugs, X-ray & Dummy		
pelvis		
Table Two- Gynaecology & Specimens, Instruments, Drugs	10 Marks	
Total	20 Marks	
Grand Total	120 Marks	

INTERNAL ASSESSMENT THEORY

- 1. Preliminary Exam. of 80 marks $-1/10^{\text{th}}$ of Marks- 10 Secured to be given out of 10 marks
- 2. Two periodical tests at the end of $6^{th} \& 8^{th}$ Semester

1 st	60 marks
2^{nd}	60 marks

Total 120 Marks

To Be Converted To 10	Marks- 10
For Internal Assessment	
Total Theory Internal Assessment	20

PRACTICAL EXAMINATION

	Clinical (out of 60 marks)		
1.	Long case in Obstetrics	40	Marks
2.	Short case in Gynaecology	10	Marks
3.	Family Planning	10	Marks
Total 60 Marks		Marks	
	Grand Total		Marks
	Internal Assessment	20	Marks
	Total	8 0 I	Marks

INTERNAL ASSESSMENT IN OBS / GYN PRACTICAL

1.	Five Periodical Tests at the end of Clinical postings	
	of the batch at the end of 3 rd , 4 th , 7 th , 8 th 9 th semester	
	out of which 3 best are selected 50 marks each Total -	150 Marks
	Converted in to 10 Marks for internal Assessment	10 Marks
2.	Preliminary practical Exam. During 9th Semester of 80	
	Marks	
	Converted in to 10 marks for Internal Assessment	10 Marks
	Total Internal Assessment Marks	20 Marks

All internal Assessment Theory & Practical Exam. To be communicated to Dr. D. Y. Patil University within 15 days of commencing the exam and to be added in Final Year Exam.

Total Hr. Didactic Lectures	130	Hrs.
Total Tutorials	170	Hrs.
Total Hours	300	Hrs.

RECOMMENDED BOOKS TO BE REFERRED FOR UG TEACHING

- 1. Textbook of Obstetrics Dutta D. C.
- 2. Obstetric Textbook Holland & Brews
- 3. Textbook of Gynaecology Dutta D. C.
- 4. Shaw's textbook of Gynaecology Padubidri V. G. & Dattery S. N.
- 5. Practical textbook of OBGY by Shrotri
- 6. Practical textbook of Virkud
- 7. Textbook of Gynacology Sheila Balakrishnan
- 8. Textbook of Obstetrics Sheila Balakrishnan
- 9. Companion For Obstetrics and Gynec Practical Examination
- 10. Clinical Cases In Obstetrics and Gynecology