DPU

Dr. D. Y. PATIL VIDYAPEETH, PUNE (Deemed to be University)

Syllabus for PG Surgical Specialties

2014 - 15 (Amended / Revised upto July 2019)

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)

Registrar

Ref. No. : DPU/875-Vii/20)9 : 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 PG Medical and Surgical Specialties - 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.
- Modifications in pattern of PG practical examinations for MD (General Medicine), MD (Pediatrics), MS (General Surgery), and MS (OBGY) vide Resolution No. BM-26(iv)-15, dated 29th December, 2015.
- Updation in PG syllabus in Radio-Diagnosis subject vide Resolution No. BM-26(vii)-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
- > Partial Modifications in Pattern of PG Practical Examinations for MD (General Medicine) and MS (General Surgery) vide Resolution No. BM-17(vii)-16, dated 22nd September, 2016.
- Modifications in the syllabus of MD (Emergency Medicine) vide Resolution No. BM-35(iv)-18, dated 12th October, 2018.
- Changes in teaching and assessment of MS (Ophthalmology), vide Resolution No. BM-35(v)-18, dated 12th October, 2018.
- Changes in the practical examination pattern of M.S. (Orthopedics) vide Resolution No. BM-35(vi)-18, dated 12th October, 2018.
- > Change in practical examination pattern of MD (Dermatology) vide Resolution No.BM-35(vii)-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.
- > Changes in syllabus of MD (General Medicine) and MD (Psychiatry) vide Resolution No. BM-27(iv)-19 dated 30th July, 2019.
- Modifications in MD (Respiratory Medicine) Practical examination pattern vide Resolution No. BM-27(vii)-19 dated 30 July 019.

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PIMPRI PUNE-18.



- > Graduate Attributes, Programme Outcomes (POs), Course Outcomes (Cos) outcome analysis of Pos and Cos and mapping with objectives for all courses of UG and PG Programmes of Pre-Clinical and Medicine Subjects under the Faculty of Medicine vide Resolution No. BM-27(x)-19 dated 30th July, 2019.
- Interdisciplinary subjects (for Medicine 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-27(xi) dated 30th July, 2019.

The Syllabus for PG Medical and Surgical Specialties - 2014-15" is Revised upto July 2019 will be useful to all the concerned. This will come into force with immediate effect.



(Dr. A. N. Suryakar) Registrar

Copy to:

- 1. PS to Chancellor for kind information of Hon'ble Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune.

 2. PS to Vice Chancellor for kind information of Hon'ble Vice Chancellor,

 Dr. D. Y. P Dr. D. Y. Patil
- Vidyapeeth, Pune.

 3. The Dean, Dr. D. Y. Patil Medical College Hospital & Research Centre, Pimpri, Pune

 4. The Controller of Examinations, Dr. D. Y. Patil Vidyapeeth, Pune.
- 5. Director (IQAC), Dr. D. Y. Patil Vidyapeeth, Pune.
- 6. Web Master for uploading on Website.

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

MS (SURGERY) PROGRAMME OUTCOMES

Sr.	By the end of the programme, the Medical Postgraduate Will
No	have
PO 1	Knowledge and Skills
PO 2	Planning and problem solving abilities
PO 3	Communication
PO 4	Research Aptitude
PO 5	Professionalism and Ethics
PO 6	Leadership
PO 7	Societal Responsibilities
PO 8	Environment and Sustainability
PO 9	Lifelong Learner

SURGERY COURSE OUTCOME – PG SUBJECT CODE –PGS01

Sr.No	By the end the Course, the student will be able to
1	Recognize the importance to the concerned surgery in the context
	of the health needs of the community and the national priorities in
	the health section.
2	Practice the surgery concerned ethically and in step with the
	principles of primary health care.
3	Demonstrate sufficient understanding of the basic sciences
	relevant to the surgery specialty.
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 surgery
	concerned on the basis of clinical assessment, and appropriately
	selected and conducted investigations.
6	Plan and advise measures for the prevention and rehabilitation of
	patients suffering from disease and disability related to the
	surgery specialty.
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 behavior in accordance
	with the societal norms and expectations.
9	Play the assigned role in the implementation of national health
	programme, effectively and responsibly.
10	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
12	Demonstrate competence in basic concepts of research
	methodology and epidemiology and be able to critically analyze
4.5	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.

MS OBSTETRICS AND GYNAECOLOGY PROGRAMME

Course Code	Course Title
PGS02	MS Obstetrics and Gynaecology

Course 1 (Subject Code)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
PGS02.1	Provide quality care to the community in the diagnosis and management of Antenatal, Intra-natal and Post-natal period of normal and abnormal pregnancy and labor.	PO1,PO2,PO3, PO4, PO5, PO6, PO7, PO8, PO9
PGS02.2	Provide quality care to the community in the diagnosis and management of gynaecological problems including basic management of gynecological endocrinal disorders, infertility, screening and basic management of gynecological cancers, basic management of common breast diseases	PO1,PO2,PO3, PO4, PO5, PO6, PO7,PO8, PO9
PGS02.3	Manage effectively all obstetrical and gynecological emergencies and if necessary, make appropriate referrals wherever necessary	PO1,PO2, PO3, PO5, PO6, PO7, PO9
PGS02.4	Manage adolescent and geriatric gynecological problems	PO1,PO2,PO3, PO4, PO5, PO6,PO7, PO9
PGS02.5	Ability to interpret various laboratory investigations and other diagnostic modalities in Obstetrics & Gynecology	PO1,PO3,PO5, PO6, PO7, PO9
PGS02.6	Have basic knowledge of anesthesiology related to Obstetrics & Gynecology	PO1,PO3,PO5, PO6,PO9
PGS02.7	Be aware of Reproductive and Child Health, family welfare national guidelines and manage reproductive tract infections including STDs and AIDS	PO1,PO2,PO3, PO4, PO5, PO6, PO7, PO8, PO9

CO No.	At the end of the course, the learner should be able to:	Mapped Programme
	should be able to.	Outcomes
PGS02.8	Remain updated on vital statistics in	PO1, PO3, PO4, PO5
	Obstetrics & Gynecology	PO6, PO7, PO9
PGS02.9	Be conversant with asepsis,	PO1, PO3, PO4,
	sterilization and disposal of medical	PO5, PO6, PO7,
	waste	PO8,PO9
PGS02.10	Have knowledge and awareness of	PO1,PO2,PO3,
	medico-legal aspects in Obstetrics and	PO5, PO6, PO8,
	Gynecology	PO9
PGS02.11	Be able to effectively communicate	PO1,PO2,PO3,
	with the patient, her family and the	PO5, PO6,PO9
	community	
PGS02.12	Remain updated of the contemporary	PO1,PO3,PO4,
	advances and developments as related	PO5, PO6, PO9
	to Obstetrics and Gynaecology	
PGS02.13	Plan a research project and demonstrate	PO1,PO2,PO3,
	the skills to critically appraise scientific	PO4,PO5, PO6,
	data and literature	PO7, PO9
PGS02.14	Have the basic skills in educating	PO1,PO3,PO5,
	medical and paramedical professionals	PO6, PO9

OBSTETRICS AND GYNAECOLOGY

OBSTETRICS AND GYNAECOLOGY

This syllabus is prepared as per the guidelines given by mci. Duration of Course - 3 years.

1) GOALS:

The main aim of the post graduate courses in the subject of Obstetrics and Gynaecology is to make the student well-versed with the knowledge of -

- 1.1 Anatomy and physiology of female genital tract.
- 1.2 Conception & physiology of pregnancy
- 1.3 Contraception, Family planning & demography.
- 1.4 Gynaecology conditions & Operative gynaecology
- 1.5 Gynaecological Endocrinology.
- 1.6 Infertility recent advances i.e. ART, IVF-ET, ovum donation, surrogacy
- 1.7 To train the student, to be able to diagnose & manage the diseases of female genital tract.
 - 1.7.1 To give sufficient exposure about all routine & emergency Obstetrics and Gynaecology 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 welfare programs.

OBJECTIVES

2) KNOWLEDGE:

At the end of tenure of 3 years degree course, the student should be able to

- 2.1 Know the Anatomy, Physiology & Pathophysiology of reproductive system and its common conditions.
- 2.2 To diagnose pregnancy & manage Antepartum, Intrapartum and Postpartum condition including emergencies.
- 2.3 To undertake the effective measures & to reduce maternal and perinatal morbidity and mortality.
- 2.4 To understand the knowledge about contraception, MTP, sterilization & their complications.

- 2.5 To know the proper pharmacology of drugs used during pregnancy and lactation & drugs like hormones, antibiotics, chemotherapeutic agents used in Gynaecological practice.
- 2.6 To identify & manage Gynaecological conditions & emergencies.
- 2.7 To have detailed knowledge about adolescent and geriatric Gynaecological problems and their management.

3) SKILLS:

At the end of 3 years P.G. degree curriculum the candidate shall be able to make the student well-versed with the knowledge of –

- 3.1 To diagnose pregnancy and manage ANC in normal & high-risk pregnancies.
- 3.2 To conduct normal and instrumental deliveries as well as *caesarean* sections.
- 3.3 To manage the complications of labour, instrumental delivery.
- 3.4 To perform at least 25 MTPs under supervision and 25 independently as well as to perform 25 tubectomies under supervision and 25 independently.
- 3.5 To screen and diagnose female genital tract malignancies & to manage them.
- 3.6 To diagnose and manage female reproductive tract benign conditions and RTI infections including HIV.
- 3.7 To manage infertile couple investigations, diagnosis and treatment.

4) INTEGRATED TEACHING:

- 4.1 The candidate should have adequate knowledge of conditions related to Gynaecological urology, Neonatology., Neonatal resuscitation.
- 4.2 To get skill and knowledge regarding radio-diagnosis and Ultrasonography & HSG, Pelvimetry, laboratory diagnostic techniques.
- 4.3 To have the knowledge of immunology, virology, bacteriology related to OB-GYN specialty.
- 4.4 To have basic knowledge about endocrine conditions related to obstetrics & gynaecology.

- 4.5 To have knowledge about medical & surgical conditions in pregnancy.
- 4.6 To have knowledge about oncopathology, haematology and Histopathology.

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, intrapartum and postpartum care and treat related emergencies.
- 5.3 To train them in National family welfare 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 major & minor obstetric 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 and manage obstetric emergencies.
- 5.9 To have full knowledge regarding diagnostic and lab. 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 major & minor Gynaecological procedure.
- 5.13 To train them to conduct abnormal labours and instrumental deliveries like forceps and vacuum.
- 5.14 To conduct 25 MTPs under supervision & 25 independently. Also perform Tubectomies under supervision and independently.
- 5.15 To perform *caesarean* section under supervision and independently.
- 5.16 To have knowledge about Neonatology, urology and Sonography, for which the student will be posted for 4 weeks in each department by rotation. To conduct speecialised OPDs like infertility OPD and colposcopy clinics / menopause.

- 5.17 To perform major Gynaecological operations like abdominal ad vaginal hysterectomies under supervision and independently.
- 5.18 To independently manage obstetric emergencies.
- 5.19 To assist surgeries like wertheim's hysterectomy, debulking surgeries and sling operations.
- 5.20 To assist basic endoscopic operations like diagnostic hysteroscopy and laparoscopy.
- 5.21 The student should complete & submit the assigned dissertation topic and its write six months before appearing for the examination.
- 5.22 The degree and diploma candidate should also actively participate in departmental research works & outreach activities.
- 5.23 One publication in standard indexed journal
- 5.24 One poster presentation in conference
- 5.25 One paper presentation in conference

DEPARTMENT OF OBSTERICS AND GYNAECOLOGY

1) OBSTETRIC:

- 1.1 Applied anatomy of female genital tract Knowledge of fetal skull and maternal pelvis. Development of genital tract. Physiology of menstruation.
- 1.2 Physiology of ovulation / conception / implantation -
- 1.3 Early development of human embryo. Fetal physiology, fetal circulation and fetal malformation.
- 1.4 Amniotic fluid Formation and Function
- 1.5 Structure, Function and anomalies of Placenta.
- 1.6 Physiological changes during pregnancy and maternal adaptation to pregnancy Diagnosis of pregnancy.
- 1.7 Antenatal care.
- 1.8 Normal Labour Physiology, Mechanism, clinical course and management, partograph, pain relief in labour *anaesthesia* and analgesia in labour, endocrinology of labour.
- 1.9 Normal puerperium and Breast Feeding
- 1.10 Complication in early pregnancy.
 - 1.10.1 Hyperemesis gravidarum
 - 1.10.2 Abortion
 - 1.10.3 Ectopic pregnancy
 - 1.10.4 Gestational trophoblastic disease
- 1.11 Obstetrical complications during pregnancy
 - 1.11.1 APH Accidental haemorrhage
 - 1.11.2 Placenta praevia
 - 1.11.3 Poly hydramnios / Oligohydramnios
 - 1.11.4 Multi foetal pregnancy
 - 1.11.5 Medical disorders in pregnancy
 - 1.11.6 Anaemia
 - 1.11.7 Heart diseases
 - 1.11.8 Hypertensive disorder PIH and Eclampsia
 - 1.11.9 Diabetes
 - 1.11.10 Jaundice
 - 1.11.11 Pulmonary diseases in pregnancy

- 1.12 Infections in pregnancy
 - 1.12.1 Urinary tract infections
 - 1.12.2 Sexually transmitted infections including HIV
 - 1.12.3 TORCH infections, HINI, Dengue Fever
- 1.13 Gynaecological and surgical conditions in pregnancy. Fibroid with pregnancy, ovarian tumours, acute abdomen, genital prolapse.
- 1.14 High risk pregnancy
 - 1.14.1 Pre-term labour
 - 1.14.2 Post term pregnancy
 - 1.14.3 IUGR
 - 1.14.4 IUFD
 - 1.14.5 Recurrent pregnancy loss
 - 1.14.6 Rh incompatibility
 - 1.14.7 Post caesarean pregnancy
- 1.15 Induction and augmentation of labour & knowledge about partogram.
- 1.16 Abnormal position & presentation
 - 1.16.1 Occipitio posterior
 - 1.16.2 Breech
 - 1.16.3 Transverse lie
 - 1.16.4 Face & Brow
 - 1.16.5 Compound
 - 1.16.6 Cord Presentation and Prolapse
- 1.17 Abnormal labour
 - 1.17.1 Abnormal uterine contraction
 - 1.17.2 CPD
 - 1.17.3 Obstructured labour
 - 1.17.4 Uterine rupture

2) GYNECOLOGY:

- 2.1 Development of genital tract, congenital anomalies of uterus and clinical significance, chromosomal abnormalities inter sex.
- 2.2 Physiology of Menstruation Ovarian *Steroidogenesis* Adrenal in Gynaecology Thyroid in Gynaecology Hyper Prolactinemia Hirsuitism
- 2.3 Menstrual abnormalities Primary Amenorrhoea Dysmenorrhoea PMS
- 2.4 Abnormal uterine Bleeding DUB / AUB (PALM COIN)
- 2.5 Puberty and its disorder -
- 2.6 Adolescent Gynaecological problems
- 2.7 Infertility Male Infertility female Tubal microsurgery PCOD ART IVF-ET *Ovum donation Surrogacy*
- 2.8 Infection of genital tract Acute PID Chr PID Genital TB
- 2.9 Leucorrhoea
- 2.10 Pruritus vulvae
- 2.11 Chr Pelvic Pain Cervicitis
- 2.14 Sexually transmitted infections including HIV infection
- 2.15 Benign tumours of the genital tract. Fibroid Uterus Ovarian Tumours Benign Vulval Lesions
- 2.16 Malignant Lesions of Ca Vulva Ca Vagina Ca CxCa UterusCa Fallopian tube Ca Ovary
- 2.17 Other Gynaecological disorders
- 2.18 Adenomyosis endometriosis
- 2.19 Genital prolapse Nulliparous prolapse Sling surgery Vaginal hysterectomy
- 2.20 Genital tract displacement, Urinary disorders in Gynaecology SUI Urge incontinence VVF
- 2.21 Perineal tears *Uro*-Genital Fistulae, RVF
- 2.22 Radiotherapy & Chemotherapy in Gynecology

- 2.23 Drugs & Hormones in Gynaecology Hormones in gynaecology
- 2.24 Ultrasonography, Radiology including Intervention Radiology
- 2.25 Endoscopy in Gynaecological diagnosis.
- 2.26 Pre & Post-operative care in gynaecology
- 2.27 Menopause & HRT

3) FAMILY PLANNING:

- 2.1 Demography & Population Dynamics
- 2.2 Contraception Temporary methods Barrier methods Oral Pills IUCD Newer –IUCD
- 2.3 Permanent methods TL Lap TL Vasectomy
- 2.4 Newer contraceptives
- 2.5 MTP Act & Procedures of MTP in first trimester. Procedures of MTP in second trimester Medico Legal aspects in Gynaecology Medical records keeping PNDT Act

 Social obstetrics

M. S. PRACTICAL EXAM PATTERN:

Seat	Clinical Practical Exam. 250 Mark				Remark		
No.	OBST.	OBST.	GYN.	GYN.	Ward	Total	
	long	short	long	short	Round	250	
	case	case	case	case	50	mark	
	75	25	75	25	mark		
	mark	mark	mark	mark			

Seat	Oral Practical 150 Mark			Remark
No.	OBST. viva	GYN. viva	Total	
	75 mark	75 mark	150 mark	

Examiners Signature 1.	Grand Total 400 Mark
2.	
3.	