|  |  |
| --- | --- |
| **Course Title:**  | Reproductive System  |
| **Reproductive System**  | 402 REP-5  |
| 472 REP-5  | Bachelor of Medicine and Bachelor of Surgery (MBBS) |
| **Department:**  | N/A |
| **College:** | Medicine |
| **Institution:** | Najran University |

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# A. Course Identification

|  |  |
| --- | --- |
| **1. Credit hours:** **5 (4+1)** |  |
| **2. Course type** |
| **a.** | University |  | College |  | Department |  | Others (Program) | **√** |  |
| **b.** | Required | **√** | Elective |  |  |
| **3. Level/year at which this course is offered:** Year 4 - Semester-1 (level 10) |  |
| **4. Pre-requisites for this course** (if any)**:** Phase 1 blocks are prerequisites for Phase 2 |
| **5. Co-requisites for this course** (if any)**:** None |
|  |

## 6. Mode of Instruction (mark all that apply)

| **No** | **Mode of Instruction** | **Contact Hours** | **Percentage**  |
| --- | --- | --- | --- |
| **1** | **Traditional classroom** | 76 | 77% |
| **2** | **Blended**  |  |  |
| **3** | **E-learning** |  |  |
| **4** | **Distance learning**  |  |  |
| **5** | **Other**  | 32 | 33% |

**7. Contact Hours** (based on academic semester)

|  |  |  |
| --- | --- | --- |
| **No** | **Activity** | **Contact Hours** |
| **1** | **Lecture** | 47 |
| **2** | **Laboratory/ Dissection Room (DR)** | 26 |
| **3** | **Tutorial**  |  |
| **4** | **Others** (specify) |  |
| **5** | **Problem-Based Learning (PBL)** | 16 |
| **6** | **Team-Based Learning (TBL)** | 4 |
| **7** | **Self-Directed Learning (SDL)** | 9 |
| **8** | **Bedside teaching (BST)** | 6 |
|  | **Total** | 108 |

# B. Course Objectives

|  |
| --- |
| 1. Course Description This course is delivered to the medical students at the level seven/4th year. It has been designed to achieve horizontal and vertical integration of reproductive system structure, functions, its common relevant disorders, and their diagnosis and management. The students are expected to develop a problem-solving approach to the relevant reproductive System disorders, their diagnoses, and non- pharmacological and pharmacological management. |
|  |
| 2. Course Main Objective |
| **By the end of this course, the students are expected to:**1) **Describe** the structure and function of the reproductive system.2) **Interpret** the symptoms and signs of some common diseases, injuries and disturbances of this system.3) **Apply** a problem-solving approach to reproductive system disorders. 4) **Discuss** the pathogenesis of various reproductive health system diseases, presentation, investigations (laboratory, radiological, etc), and management.**5) Examine** clinically patients with reproductive system disorders |

# C. Course Content

|  |  |  |
| --- | --- | --- |
| No | List of Topics |  |
| 1 | Introduction to the block (coordinator) |  |
|  First week : Male instruction, function and pathology (27) |
| 1 | The bony pelvis(anatomy) | 1 |
|  | PBL1 (1st week) | 2 |
|  | The scrotum Testis and epididymis and vas deferens(anatomy) | 1 |
|  | Hist. Of the testes, epididymis & vas deference (anatomy) | 1 |
|  | Hist. Of seminal vesicle, prostate & penis (anatomy) | 1 |
|  | Male superficial& deep perineal pouches (anatomy)  | 1 |
|  | Scrotum, testis, epididymis, vas deference and male perineum (DR) | 2 |
|  | Male reproductive system-1(Function of male gonads- Spermatogenesis) (physiology) | 1 |
|  | Male reproductive system-2 (Hormonal control) (physiology)  | 1 |
|  | Sex Hormones (biochemistry)  | 1 |
|  | Semen formation and composition(biochemistry) | 1 |
|  | Development & anomalies of testes & its ducts (anatomy) | 1 |
|  | Development & anomalies of scrotum & penis (anatomy) | 1 |
|  | Histology of male genital organs Lab**.** (anatomy)(DR) | 2 |
|  | Male Sex Hormones, Anabolic, and its Antagonists (pharma) | 1 |
|  | Testicular Pathology (pathology) | 1 |
|  | Seminal Analysis Lab(biochemistry) | 2 |
|  | Prostatic Pathology (pathology) | 1 |
|  | Metabolism of Sperms (biochemistry) | 1 |
|  | Male pathology Lap (pathology) | 2 |
|  | PBL2 (1st week) | 2 |
|  |  |  |
|  |  |  |
|  Second week Female instruction, function and pathology (38) |
|  | PBL1 (2 nd week) | 2 |
|  | Ovary & Uterine Tubes (anatomy) | 1 |
|  | Uterus and Vagina(anatomy) | 1 |
|  | Hist. Of the Ovary, uterus , tubes & vagina (anatomy) | 1 |
|  | Female reproductive System-1 (Female gonads - Functions & regulation of hormones) 1(physiology) | 1 |
|  | TBL 1 (Abnormal Uterine Bleeding) OB/GYN | 2 |
|  | Female reproductive system-2 (Functions & regulation of hormones ) (physiology) | 1 |
|  | Pelvic peritoneum and visceral fascia(anatomy) | 1 |
|  | Female superficial & deep perineal pouches (anatomy) | 1 |
|  | Gross anatomy of the female genital tract DR(anatomy) | 2 |
|  | Female perineum DR (anatomy) | 2 |
|  | Ovarian Cycle (physiology) | 1 |
|  | Physiology of Menopause (physiology)  | 1 |
|  | Physiological change during pregnancy (physiology) | 1 |
|  | Interpretation of the Pregnancy Test Lab (physiology) | 2 |
|  | Development & anomalies of the ovary, tubes, uterus & vagina (anatomy)  | 1 |
|  | Embryology of the male and female genital organ(anatomy) (SDL) | 3 |
|  | Development & anomalies of female external genitalia(anatomy)  | 1 |
|  | Hist. Of the uterus, , uterine tubes, vagina & ovary Lab(anatomy)  | 2 |
|  | Vulval, Vaginal, and cervical pathology (Pathology) | 1 |
|  | Pathology of Ovarian Disease (Pathology) | 1 |
|  | Pathology of Uterine disease (Pathology) | 1 |
|  | Female pathology Lab (Pathology) |  2 |
|  | Female Sex Hormones, analogs, antagonists (Pharm) | 1 |
|  | PBL2 (2st week) | 2 |
|  | Endometrial cycle(physiology) (SDL) | 3 |
|  |  |  |
|  |  |  |
|  **Third week : Sexual transmitted disease** (19 hours ) |
|  | PBL1 (3 rd week) | 2 |
|  | Gonorrhea (Microbioogy) | 1 |
|  | Bact. Causes of Genital infections 1 Treponemapallidum (Mic) | 1 |
|  | Bact. Causes of Genital infections 2 Treponemapallidum(Mic) | 1 |
|  | TBL 2 (Sexual transmitted disease) (Microbiology & dermatology) | 2 |
|  | Bact. Causes of Genital infection 3. Chlamydia (Mic) 3 | 1 |
|  | Diagnostic Methods of Syphilis and Gonorrhoea Lab (Microbiology) | 2 |
|  | Parasitic Causes of Genital Infections 1 (Mic/Para) | 1 |
|  | Parasitic Causes of Genital Infections 2 (Mic/Para) | 1 |
|  | Diagnostic Methods of Parasites Affecting the Genital System Lab (Microbiology) | 2 |
|  | Viral Causes of Genital Infection. HPV , HSV (Mic) | 1 |
|  | AIDS (Micro) | 1 |
|  | Treatment of Sexually Transmitted Diseases (Pharm) | 1 |
|  | PBL2 (3 rd week) | 2 |
|  |  |  |
|  Forth Week : Male & female disease 27 |
|  | PBL1 (4 th week) | 2 |
|  | Testicular Torsion and Epididymorchitis (Surg) | 1 |
|  | Undescended testis and Trauma to the testis and the penis(surg) SDL | 3 |
|  | TBL 3 (Disorder of sex development) (Pediatrics & Anatomy) | 2 |
|  | Male infertility (Surg, Urology) | 1 |
|  | Bedside Teaching scrotal examination (Surg) | 3 |
|  | Drug Treatment of Male Infertility (Pharm) | 1 |
|  | TTT of ED & aphrodisiacs (Pharm) | 1 |
|  | Female infertility OB/GYN | 1 |
|  | Hormonal Contraceptives (Pharm) | 1 |
|  | Bedside Teaching Abdominal and Pelvic examination (Obs&Gyn) | 3 |
|  | Contraception method (Lab) (Pharm) | 2 |
|  | PBL2 (4 th week) | 2 |
|  | Drug Treat. Of Female Infertility (Pharm | 1 |
|  | Normal and Abnormal Appearance of the Reproductive organs on different imaging modalities Practical (radiology) | 2 |
|  |  |  |
|  | Fifth week |  |
|  | exam |  |

# D. Teaching and Assessment

## 2. Assessment Tasks for Students

| **#** | **Assessment task\***  | **Week Due** | **Percentage of Total Assessment Score** |
| --- | --- | --- | --- |
| **1** | Mid-block exam  | Week 3 | 20 % |
| **2** | TBL assessment | Weeks 2-4 | 10% |
| **3** | PBL assessment | Weeks 1-4 | 10 % |
| **4** | End of course exams:- Written: MCQs (40%) - Practical: OSPE (20%) | Week 5 | 60% |

**\*Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

# F. Learning Resources and Facilities

## 1.Learning Resources

|  |  |
| --- | --- |
| **Required Textbooks** | * 1. ANATOMY
1. Snell Clinical Neuroanatomy. Richard S. Snell. 7th Ed
2. Gray’s Anatomy for Students. Richard L. Drake, Wayne Vogal and Adam W. Mitchell. 3rd Ed
	1. EMPERYOLOGY
3. Langman’s Medical Embryology. T. W. Sadler. 13th Ed
4. The Developing Human: Clinically Oriented Embryology. Keith L. Moore, T. V. N Persaud and Mark G. Torchia. 9th Ed
	1. HISTOLOGY:
5. WHEATER’S Functional Histology: A Text and Colour Atlas. Barbara Young, Phillip Woodford and Geraldine O’Dowd. 6th Ed.
6. JUNQUEIRA’S Basic Histology: text and atlas. Antony L. Mescher. 14th Ed.
	1. PHYSIOLOGY:
7. Ganong’s Review of Medical Physiology.Kim Barret et al. 25th Ed. 2016
8. Guyton ad Hall text book of medical physiology. John E. Hall. 13th Ed. 2016
	1. BIOCHEMISTRY:
9. Medical biochmistry. John W Baynes and Mark H Dominiczak. 3rd Ed.
10. Harpers illustrated biochemistry.28th Ed.
	1. PHARMACOOGY:
11. Goodman and Gillman’s The Pharmacological Basis of THERAPEUTICS. Laurance L. Brunton, John S. Lazo and Keith L. Parker. 11th Ed
12. Basic & Clinical Pharmacology by B.G. Katzung.11th Ed.
	1. PATHOLOGY:
13. Robbins Basic Pathology. Kumar, Abbas and Aster. 9th Ed.
14. Mur’s Text Book of Pathology, David A Levison et al.14th Ed.
	1. MICROBIOLOGY:
15. Jawetz, Melnick, &Adelberg's Medical Microbiology. 27th Ed.
16. Markell and Voge’s Medical parasitology. 9th Ed.
	1. MEDICINE:
17. Current Medical Diagnosis &treatment.Maxine A. Papadakis and Stephen J. McPhee. 55th Ed. 2016
18. Harrison’s principles of internal medicine.Kasper et al.19th Ed.

 10. Obstetrics and gynecology:1)Obstetrics by Ten Teachers, 20 edition, Edited by Philip N. Baker and Louise C. Kenny2) Gynecology by Ten Teachers, 20 edtion, Edited by Ash Monga and Stephen Dobbs |
| **Essential References Materials** |  |
| **Electronic Materials** | 1. Saudi Digital Library <https://sdl.edu.sa>
2. <http://www.adameducation.com/interactive-physiology>
3. http://www.webpath.med.utah.edu
 |
| **Other Learning Materials** | 1. Ganong’s Review of Medical Physiology, Kim E. Barrett et al, 25th edition, 2016.
2. Grant’s Atlas of Anatomy, Anne M.R.Agur, Arthur F. Dalley, 13th edition 2013
3. Merkell and Voge’s Medical Parasitology, David T. John et al, 9th edition.2006.
4. Wheater’s basic histopathology
5. Di Fiore’s atlas of histology
6. Diagnostic molecular pathology, William B. Coleman & Gregory J. Tsongalis
 |

## 2. Facilities Required

| **Item** | **Resources** |
| --- | --- |
| **Accommodation**(Classrooms, laboratories, demonstration rooms/labs, etc.) | 1. Lecture room suitable for students.
2. Laboratory (dissection room-DR, physiology, biochemistry, microbiology, pathology, pharmacology and clinical skills) suitable for students.

Teaching hospital for bedside teaching |
| **Technology Resources** (AV, data show, Smart Board, software, etc.) | 1. Computers, multimedia in lecture room, PBL room and laboratories.
2. There is a need for 25 computers with networking and internet access for student learning. As well as a number of computers and multimedia projectors in the other rooms.
 |
| **Other Resources** (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | Library supplied with reference, textbooks, and electronic resources |

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# H. Specification Approval Data

|  |  |
| --- | --- |
| **Council / Committee** |  |
| **Reference No.** |  |
| **Date** |  |