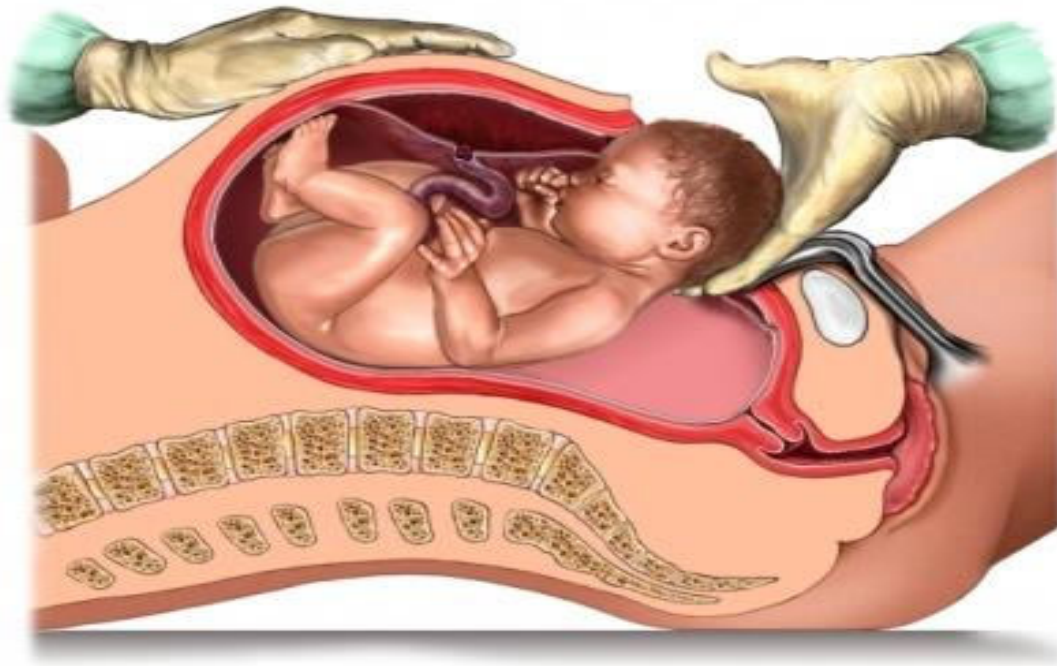




REPRODUCTIVE MODULE
STUDY GUIDE
MBBS YEAR II
2022-2023



BAQAI MEDICAL COLLEGE
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LIST OF ABBREVIATIONS

Ana-Lect	Anatomy Lecture	CBL	Case Based Learning
DSL	Directed Self Learning	SDL	Self-directed learning
SGD	Small Group Discussion	DSL	Directed Self learner
PW	Practical Work	OSCE	Objective Structured Clinical Examination
MCQ	Multiple Choice Question	Phy-Lect	Physiology Lecture
BMU	Baqai Medical University	Bio-Lect	Biochemistry Lecture
BMC	Baqai Medical College	PEaRLS	Professionalism, Ethics, Research, Leadership, Communication Skills.
LGIF	Large group interactive format	SGIF	Short group interactive format
TS	Teaching strategy		

BAQAI MEDICAL UNIVERSITY VISION STATEMENT

To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level.

BAQAI MEDICAL UNIVERSITY MISSION STATEMENT

University is dedicated to the growth of competencies in its potential graduates through dissemination of knowledge for patient care, innovation in scholarship, origination of leadership skills, and use of technological advancements and providing.

BAQAI MEDICAL COLLEGE MISSION STATEMENT

The mission of the Baqai medical college is to produce medical graduates, who are accomplished and responsible individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

OUTCOMES OF THE MBBS PROGRAM

By the end of five years MBBS program, The Baqai Medical College graduate will be able to:

Write and report focused history, perform physical examination, formulate a diagnosis and management plan for common health problems.

Utilize knowledge of basic and clinical sciences for patient care.

Apply evidence-based practices for protecting, maintaining and promoting the health of individuals, families and community.

Identify problems, critically review literature, conduct research and disseminate knowledge.

Lead other team members as per situational needs for quality health service.

Acquire professional behaviours that embodies lifelong learning, altruism, empathy and cultural sensitivity in provision health care service.

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Dr. Rashid (Anatomy)	Chairman 2 nd Modular Committee and Head of CBL Team
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Dr. Benish (Biochemistry)	2 nd Year MBBS Study Guide Team member-1

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Dr. Nauman (Community Medicine)	Member
Dr. Muhammad Salman khan (Pathology)	Member
Dr. Hina (Pharmacology)	Member
Dr. Rafay (Forensic Medicine)	Member
Dr. Sidra (Surgery & allied)	Member

Dr. Anita Haroon (Medicine & Allied)	Member
Ms. Eraj Abbas (Research)	Member
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Introduction:

The Reproductive Module is the second module for 2nd Year MBBS Integrated Modular Curriculum for MBBS program. It will give an introduction and awareness about the curriculum of reproductive system in general along with the teaching and learning environment. This module includes basic anatomical, physiological and biochemical concepts in relation to the reproductive system and its link with clinical aspects related to the diseases of reproductive system. It also includes the basis of research and orientation about the clinical sciences. The curriculum will be delivered in the form of interactive large and small group formats including lectures, SGDs, practical and DSL.

Duration	6 weeks
Dates	25-04-2022 to 01-07-2022
Placement in Course	2 nd Module of 2 nd Year MBBS
EOA (End of module Assessment)	4 th July, 2022 (Subject to minor changes)

Distribution of Teaching Activities

Learning Objectives:

ANATOMY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
INTRODUCTION OF REPRODUCTIVE SYSTEM (LEC-1)			
Describe the Reproductive system. Enlist the reproductive organs. Discuss the difference between male and female reproductive systems.	LGIS	45 minutes	Lecture Hall-2 Block-A
PELVIC WALL, FLOOR, AND FASCIA (LEC-2)			
Describe the features of Pelvic wall and its shape. Showing the coverings of Pelvic wall. Discuss the pelvic floor and their coverings. Describe the pelvic fascia and its locations.	LGIS	45 minutes	Lecture Hall-2 Block-A
PELVIS BOUNDARIES, INLET, OUTLET (LEC-3)			
Describe the pelvis. Define the boundaries of pelvis. Discuss the pelvic inlet and outlets Describe the contents of pelvis.	LGIS	1 hour & 30 minutes	Lecture Hall-2 Block-A
OVARY/FALLOPIAN TUBE (LEC-4)			
Describe the gross structure	LGIS	1 hour	Lecture

<p>of ovary and fallopian tube, their location and shape.</p> <p>Discuss the relations of ovary and fallopian tube.</p> <p>Discuss the blood supply and venous drainage of ovary and fallopian tube.</p> <p>Discuss the nerve supply of ovary and fallopian tube.</p> <p>Discuss the lymphatic drainage of ovary and uterine tube.</p>			Hall-2 Block-A
HISTOLOGY OF OVARY AND FALLOPIAN TUBE (HIS LEC-1)			
<p>Describe the histological features of ovary and fallopian tube.</p> <p>Detail of the microanatomy of ovarian follicles, lining epithelium and cells found in the ovary and fallopian tube.</p>	LGIS	45 minutes	Lecture Hall-2 Block-A
UTERUS (LEC-5)			
<p>Describe the gross structure of uterus, its location and shape.</p> <p>Enlist the coverings of uterus.</p> <p>Discuss the relations of uterus.</p> <p>Discuss the blood supply and venous drainage of uterus.</p> <p>Discuss the nerve supply of uterus.</p> <p>Discuss the lymphatic drainage of uterus.</p>	LGIS	45 minutes	Lecture Hall-2 Block-A

VAGINA (LEC-6)			
<p>List the female reproductive organs.</p> <p>Describe the external genitalia and vaginal canal.</p> <p>Discuss the structure and relations of vagina.</p> <p>Discuss the blood supply and venous drainage of vagina.</p> <p>Discuss the nerve supply of vagina.</p> <p>Discuss the lymphatic drainage of vagina.</p>	LGIS	45 minutes	Lecture Hall-2 Block-A
SUPPORT OF UTERUS AND VAGINA (LEC-7)			
<p>List the female reproductive organs.</p> <p>Discuss the structure of uterus and vagina.</p> <p>Discuss the main supports of uterus and vagina.</p> <p>Describe the rare supports of uterus and vagina.</p>	LGIS	45 minutes	Lecture Hall-2 Block-A
FEMALE REPRODUCTIVE SYSTEM MODEL (SGT-1)			
<p>List the female reproductive organs.</p> <p>Describe the female external genitalia in model.</p> <p>Describe the internal genitalia of female in model.</p>	SGIS	1 hour	LRC, Anatomy Dept. Block-A
UTERUS AND VAGINA (LEC-8)			
<p>Describe the gross structure of uterus and vagina, their location and shape.</p> <p>Enlist the coverings of uterus</p>	LGIS	2 hours	Online

<p>and vagina.</p> <p>Discuss the relations of uterus and vagina.</p> <p>Discuss the blood supply and venous drainage of uterus and vagina.</p> <p>Discuss the nerve supply of uterus and vagina.</p> <p>Discuss the lymphatic drainage of uterus and vagina.</p>			
HISTOLOGY OF UTERUS AND VAGINA (HIS LEC-2)			
<p>Describe the histological features of uterus and vagina.</p> <p>Define the microanatomy of the walls of the uterus and vagina.</p> <p>Define the lining epithelium of vagina and uterus.</p> <p>Describe the cells found in the uterine endometrium.</p>	LGIS	2 hours	Online
MAMMARY GLAND (LEC-9)			
<p>Describe the gross features of mammary gland.</p> <p>Describe their location, relations, blood supply, nerve supply and lymphatic drainage of breast.</p> <p>Describe the clinical conditions associated with breast.</p>	LGIS	2 hours	Online
TESTIS AND SCROTUM (LEC-10)			
<p>Describe the anatomy of the scrotum, and testes.</p>	LGIS	2 hours	Online

<p>Describe the anatomy of ductus deferens and epididymis and ejaculatory duct.</p> <p>Describe the layers of testis and scrotum.</p> <p>Discuss the blood supply and venous drainage of testis and scrotum.</p> <p>Discuss the nerve supply of testis and scrotum.</p> <p>Discuss the lymphatic drainage of testis and scrotum.</p> <p>Describe the composition of Semen.</p>			
HISTOLOGY OF TESTIS AND SCROTUM (HIS LEC-3)			
<p>Identify the histological features of scrotum and testes.</p> <p>Describe the histology of seminiferous tubules, sertoli cells, spermatozoa, Leydig cells, rete testis and epididymis.</p> <p>Describe under light microscope observe the following:</p> <p>Prostate gland</p> <p>Seminal Vesicle</p> <p>Bulbourethral glands.</p>	LGIS	2 hours	Online
PROSTATE GLAND (LEC-11)			
<p>Describe the gross features of prostate gland.</p> <p>Describe their location, relations, blood supply, nerve supply and lymphatic drainage.</p> <p>List the components of secretion of prostate gland.</p> <p>Describe the clinical conditions associated with prostate gland.</p>	LGIS	2 hours	Online

EMBRYOLOGY OF OVARY AND FALLOPIAN TUBE (EMB LEC-1)			
<p>List the time line in which the development of female reproductive system starts and ends.</p> <p>Describe the process of development of parts of female reproductive system.</p> <p>Describe the development of ovary and fallopian tube.</p>	LGIS	1 hour	Lecture Hall-2 Block-A
FEMALE REPRODUCTIVE SYSTEM MODEL (SGT-2)			
<p>List the female reproductive organs.</p> <p>Describe the female external genitalia in model.</p> <p>Describe the internal genitalia of female in model.</p>	SGIS	1 hour	LRC, Anatomy Dept. Block-A
EMBRYOLOGY OF UTERUS AND VAGINA (EMB LEC-2)			
<p>Describe the development and differentiation of Paramesonephric ducts with development of uterus and vagina.</p> <p>Describe the steps of the development of uterus and vaginal canal.</p> <p>Describe the congenital anomalies resulting due to malformation of uterus and vagina.</p>	LGIS	1 hour	Lecture Hall-2 Block-A
SLIDE OF FEMALE REPRODUCTIVE SYSTEM (PW-1)			
<p>Describe the histological features of ovary and fallopian tube.</p> <p>Detail of the microanatomy of ovarian follicles.</p>	SGIS	2 hours	Histology Lab, 1 st floor, Block-A

Describe the lining epithelium and cells found in the ovary and fallopian tube.			
SLIDE OF FEMALE REPRODUCTIVE SYSTEM (PW-2)			
Describe the histological features of uterus and vagina. Detail of the microanatomy of uterus wall. Describe the lining epithelium and cells found in the uterus endometrium and vagina.	SGIS	2 hours	Histology Lab, 1 st floor, Block-A
PERINEUM-I (LEC-12)			
Describe the gross anatomical features of perineum. List the boundaries of perineum. Describe the division of perineum into anal and urogenital triangles. Describe the boundaries and features of anal triangle. Describe the importance of pectinate line with respect to the vasculature and lymphatic drainage of the rectum and anal canal. Define the blood supply, nerve supply and lymphatic drainage of the perineum.	LGIS	2 hours	Lecture Hall-2 Block-A
PERINEUM-II (LEC-13)			
Describe male urogenital triangle and its contents.	LGIS	2 hours	Lecture Hall-2 Block-A

Describe the gross anatomy of male urethra. Describe the blood supply, nerve supply and lymphatic drainage of male urethra. Describe the clinical conditions associated with penis and male urethra. Describe female urogenital triangle and its contents.			
MALE REPRODUCTIVE SYSTEM MODEL (SGT-3)			
Describe the gross features of male internal organs: Prostate gland. Seminal Vesicles. Bulbourethral glands. Describe their location, relations, blood supply, nerve supply and lymphatic drainage.	SGIS	2 hour	LRC Anatomy Dept. Block-A
HISTOLOGY OF MALE REPRODUCTIVE SYSTEM (HIS LEC-4)			
List the male reproductive organs. Describe the histological features of testes and male genital duct system. Describe the histology of seminiferous tubules, sertoli cells, spermatozoa, Leydig cells, rete testis and epididymis. Identify the histological features of testis and duct system.	LGIS	1 hour	Lecture Hall-2 Block-A
SLIDE OF MALE REPRODUCTIVE SYSTEM (PW-3)			
Describe the histological features of testes and epididymis. Detail of the microanatomy of	SGIS	2 hours	Histology Lab, 1 st floor, Block- A

seminiferous tubules. Describe the lining epithelium and cells found in the testes and epididymis.			
SLIDE OF MALE REPRODUCTIVE SYSTEM (PW-4)			
Describe the histological features of vas deference and seminal vesicles. Detail of the microanatomy of prostate. Describe the lining epithelium and cells found in the prostate and male urethra.	SGIS	2 hours	Histology Lab, 1 st floor, Block-A

PHYSIOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
General features of female reproductive system and puberty (LEC-1)			
Describe the physiological anatomy of female reproductive system. Discuss the basic changes occurring during puberty which make reproduction possible.	LGIS	75 minutes	Lecture Hall 2,ground floor, A-Block
Ovarian cycle (LEC-2)			
Describe the changes in the ovarian follicles as they undergo follicular development Identify and describe the cell types of the corpus lutein	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block

Describe the structural changes that occur in the uterus over the course of the menstrual cycle and pregnancy.			
Menstrual Cycle (LEC-3)			
Illustrate the process of ovulation. Explain how hormones play their role in the process of menstruation. Explain how menstruation occurs.	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
Physiologic functions of estrogen (LEC-4)			
Describe the types of estrogen. Discuss the important role of estrogen in bodily functions.	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
Physiologic functions of progesterone (LEC-5)			
Describe the important bodily functions of progesterone. Discuss its normal levels in the human body.	LGIS	45 minutes	Lecture Hall 2,ground floor, A-Block
Physiologic functions of estrogen & progesterone (LEC-6)			
Describe the types of estrogen. Discuss the important role of estrogen in bodily functions. Describe the important bodily functions of progesterone. Discuss its normal levels in the human body.	LGIS	2 hour	ONLINE
Maturation & fertilization of ovum (LEC-7- ONLINE)			
Describe the obstacles that sperm must overcome to reach an oocyte.	LGIS	2 hour	ONLINE

<p>Explain capacitation and its importance in fertilization.</p> <p>Summarize the events that occur as a sperm fertilizes an oocyte.</p>			
Implantation of ovum (LEC-8)			
<p>Review the stages of prenatal development.</p> <p>Explain how the developing embryo and fetus may be harmed by the presence of teratogens.</p> <p>Describe what a mother can do to reduce her risk of dispositional implantation.</p>	LGIS	2 hour	ONLINE
Physiological functions of placenta (LEC-9)			
<p>Describe the development of the placenta.</p> <p>Describe the structure of the placenta.</p> <p>Describe the Placental circulation.</p> <p>Outline the functions of the placenta.</p> <p>Outline the pathologies associated with the placenta.</p>	LGIS	2 hour	ONLINE
Double Bohr's effect (LEC-10)			
<p>Define and describe the double Bohr's effect.</p> <p>Discuss in detail its components.</p> <p>Elaborate the clinical significance of knowing the phenomenon.</p>	LGIS	2 hour	ONLINE
Parturition (LEC-11)			
<p>Define parturition.</p> <p>Describe the physiological factors causing parturition also the physiological</p>	LGIS	2 hour	ONLINE

<p>events occurring during and after parturition.</p> <p>Discuss the hormonal control of parturition.</p>			
FUNCTIONAL PARTS OF MALE REPRODUCTIVE SYSTEM (LEC-12)			
<p>Describe the components of male reproductive system.</p> <p>Discuss the functional organization of the testis.</p> <p>Outline the process of spermatogenesis in the germinal epithelium of the seminiferous tubule.</p> <p>Explain the structural and functional significance of the blood-testis barrier.</p>	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
PHYSIOLOGIC FUNCTIONS OF MALE SEX HORMONES (LEC-13)			
<p>Name the male sex hormones.</p> <p>Explain the function of male hormones in reproduction.</p> <p>Describe the onset of puberty is signaled by high pulses of GnRH secreted by the hypothalamus.</p> <p>Discuss the release of FSH and LH from the pituitary gland.</p>	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block
SPERMATOGENESIS (LEC-14)			
<p>Describe the histological organization of the testis.</p> <p>Outline the process of spermatogenesis in the</p>	LGIS	1 hour	Lecture Hall 2,ground floor, A-Block

<p>germinal epithelium of the seminiferous tubule.</p> <p>Explain the structural and functional significance of the blood-testis barrier.</p> <p>Describe the structure and function of each segment of the male reproductive tract.</p> <p>Describe the epithelia of seminal vesicles.</p>			
CAPACITATION OF SPERMATOZOA (LEC-15)			
<p>Define capacitation.</p> <p>Discuss the events of capacitation.</p> <p>Describe the main purpose and significance of capacitation.</p>	LGIS	45 minutes	Lecture Hall 2, ground floor, A-Block

BIOCHEMISTRY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
FUNCTIONS OF FSH & LH IN MALES FOR SPERMATOGENESIS-1 (LEC-1)			
<p>Define tropic hormones.</p> <p>Identify that FSH & LH are produced in hypothalamus and stored in anterior pituitary gland.</p>	LGIS	45 minutes	Lecture Hall-II, ground floor, A-Block
FUNCTIONS OF FSH & LH IN MALES FOR SPERMATOGENESIS-2 (LEC-2)			

Correlate the histology of testes with the different stages of spermatogenesis. Discuss the effects of FSH, LH and other hormones on the process of spermatogenesis.	LGIS	2 hours	Lecture Hall-II, ground floor, A-Block
FUNCTIONS OF FSH, LH & OTHER HORMONES IN MENSTRUAL CYCLE-1 (LEC-3)			
Correlate the histology of ovary and uterus with the different stages of menstrual cycle. Discuss the effects of FSH on the process of menstrual cycle in females.	LGIS	1 hour	Lecture Hall-II, ground floor, A-Block
FUNCTIONS OF FSH, LH & OTHER HORMONES IN MENSTRUAL CYCLE-2 (LEC-4)			
Discuss the effects of LH and other hormones on the process of menstrual cycle in females.	LGIS	45 minutes	Lecture Hall-II, ground floor, A-Block
SYNTHESIS AND FUNCTION OF ESTROGEN & PROGESTERONE-1 (LEC-5)			
Identify the different forms of estrogen, its source of secretion. State the normal range of estrogen in females & males.	LGIS	2 hours	Online Reproductive module channel, Biochemistry -II, MS-teams

Describe the synthesis, degradation and regulation of estrogen and progesterone.			
SYNTHESIS AND FUNCTION OF ESTROGEN & PROGESTERONE-2 (LEC-6)			
Discuss the effects of estrogen and progesterone in females.	LGIS	2 hours	Online Reproductive module channel, Biochemistry -II, MS-teams
SYNTHESIS AND FUNCTION OF ANDROGENS-1 (LEC-7)			
Identify the Hormones produced by testes. Discuss the chemistry, types, sources, transport, plasma level, metabolism and regulation of androgens.	LGIS	2 hours	Online Reproductive module channel, Biochemistry -II, MS-teams
SYNTHESIS AND FUNCTION OF ANDROGENS-2 (LEC-8)			
Describe the synthesis of androgens. Discuss the effects of androgens in males.	LGIS	2 hours	Online Reproductive module channel, Biochemistry -II, MS-teams
MODE OF ACTION REPRODUCTIVE HORMONES (LEC-9)			
Explain the mode of action of steroid reproductive hormones.	LGIS	45 minutes	Lecture Hall-II, ground floor, A-Block
BIOCHEMICAL ROLE OF PLACENTA-1 (LEC-10)			
Summarize the functions of placenta.	LGIS	2 hours	Online Reproductive module

<p>Enlist the hormones produced by placenta.</p> <p>Describe the endocrine function of placenta.</p> <p>Define fetoplacental unit.</p> <p>describe the role of fetoplacental unit.</p>			channel, Biochemistry -II, MS-teams
PRENATAL DIAGNOSIS (LEC-11)			
<p>Define prenatal diagnosis.</p> <p>List the benefits and indications of prenatal diagnosis.</p> <p>Classify the methods of prenatal diagnosis.</p> <p>Identify the various procedures involved in each method for prenatal diagnosis at different gestational periods.</p> <p>Outline the applications of important prenatal diagnostic procedures.</p>	LGIS (online)	2 hours	Online Reproductive module channel, Biochemistry -II, MS-teams
BIOCHEMICAL CHANGES IN MENOPAUSE (SGT-1)			
<p>Discuss the biochemical changes which take place in females after menopause in relation to different organ systems.</p>	SGIS	2 hours	Biochemistry Lab, 1 st floor, A-Block
ESTIMATION OF SERUM TOTAL CHOLESTEROL (PW-1)			
<p>Name the reagents to be used in the experiment.</p>	SGIS	2 hours	Biochemistry Lab, 1 st floor, A-Block

<p>Read the instructions to prepare the stock standard solutions and the sample.</p> <p>Describe the principle of the reaction taking place in the experiment.</p> <p>Record the readings of transmittance of stock standard solutions and sample with the help of spectrophotometer.</p> <p>Refer to the transmittance chart for obtaining optical density values of 'S' and 'T' test tubes.</p> <p>Calculate the concentration of stock standard solutions of 'S' test tubes.</p>			
INTERPRETATION OF SERUM TOTAL CHOLESTEROL (PW-2)			
<p>Draw the graph to obtain the concentration of Serum cholesterol for the sample.</p> <p>Interpret the result of whether the sample is hypercholesterolemia / hypercholesterolemia or within the normal range.</p> <p>State the normal range of serum total cholesterol.</p>	SGIS	2 hours	Biochemistry Lab, 1 st floor, A-Block

Discuss a few clinical causes of hypercholesterolemia and hypercholesterolemia.			
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PATHOLOGY

LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
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BENIGN PROSTATIC HYPERPLASIA (BPH) (LEC-1)

Define Benign Prostatic Hyperplasia. Explain the etiology & pathogenesis of BPH. Describe the morphology of BPH (gross & microscopic). Enlist the clinical findings & complications of BPH.	LGIS	45 minutes	Lecture Hall-II Block-A
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POLYCYSTIC OVARIAN SYNDROME (LEC-2)

Define Polycystic Ovarian Syndrome. Explain the etiology & pathogenesis of PCO. Describe the morphology of PCO. Enlist the clinical findings of PCO. Enlist the laboratory findings of PCO.	LGIS	45 minutes	Lecture Hall-II Block-A
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COMMUNITY MEDICINE

LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
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INTRODUCTION OF REPRODUCTIVE HEALTH (LEC-1)

Define the components of Reproductive health. Define and comprehend the terms related to reproductive health.	LGIS	2 hours	Lecture Hall-II Block-A
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SAFE MOTHERHOOD AND ITS COMPONENT (LEC-2)			
Enumerate the components of safe motherhood. Describe antenatal care and family planning.	LGIS	2 hours	Lecture Hall-II Block-A
SEXUALLY TRANSMITTED DISEASE (LEC-3)			
Enlist the epidemiological determinants of sexually transmitted diseases. Describe Management and Prevention regarding sexually transmitted diseases.	LGIS	1 hour	Lecture Hall-II Block-A

RESEARCH			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
RESEARCH (LEC-1)			
Define research. Define research synopsis.	LGIS	2 hours	Lecture Hall-II Block-A
RESEARCH PROJECT AND ITS COMPONENTS (LEC-2)			
Define research synopsis. List the components of a research project. Describe the sections of a research project.	LGIS	1 hour	Lecture Hall-II Block-A
REINFORCEMENT OF PREVIOUS LECTURES (LEC-3)			
List the components of a research project. Describe the sections of a research project.	LGIS	1 hour	Lecture Hall-II Block-A

PEARLS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
(LEC-1)			
	LGIS	45 minutes	Lecture Hall-II Block-A
(LEC-2)			
	LGIS	45 minutes	Lecture Hall-II Block-A

BIOETHICS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
MEDICAL NEGLIGENCE (LEC-1)			
Describe the medical negligence. Identify the difference between medical negligence and malpractice. Explain law for medical negligence.	LGIS	45 minutes	Lecture Hall-II Block-A

BEHAVIOURAL SCIENCES			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
EMOTIONS & MOTIVATION-2 (LEC-1)			
Summarize the process of emotional arousal based on theoretical principles. Distinguish the effect of different emotions on health.	LGIS	45 minutes	Lecture Hall-II Block-A
EMOTIONS & MOTIVATION-3 (LEC-1)			
Define the term motivation. Identify the diverse types of motivation.	LGIS	1 hour	Lecture Hall-II Block-A

Analyse the different factors which can positively alter motivation.			
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PHARMACOLOGY			
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LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
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OVERVIEW OF PHARMACOLOGY OF REPRODUCTIVE SYSTEM (LEC-1)			
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<p>Discuss the physiology of Estrogen and Progesterone.</p> <p>Outline the pathophysiology of Disorders related to Estrogen & Progesterone.</p> <p>Discuss the mechanistic pharmacology of Disorders related to Estrogen & Progesterone.</p>	LGIS	2 hours	Lecture Hall-II Block-A
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OVERVIEW OF PHARMACOLOGY OF REPRODUCTIVE SYSTEM (LEC-2)			
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<p>Discuss the physiology of Testosterone.</p> <p>Outline the pathophysiology of Disorders related to Testosterone.</p> <p>Discuss the mechanistic pharmacology of Disorders related to Testosterone.</p>	LGIS	1 hour	Lecture Hall-II Block-A
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SURGERY			
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LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
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BREAST ABSCESS (LEC-1)			
<p>Define breast abscess.</p> <p>Enlist the risk factors for the development of breast abscess.</p> <p>Describe the pathophysiology of development of breast abscess.</p> <p>Name the causative organism of breast abscess</p> <p>Discuss the clinical signs and symptoms of breast abscess.</p>	LGIS	45 minutes	Lecture Hall-II Block-A
BENIGN BREAST DISEASES (LEC-2)			
<p>To summarize the basic anatomy and physiology of the breast.</p> <p>To enlist congenital anomalies of breast.</p> <p>Enlist the causes of breast lump.</p> <p>Classify breast lump and association with hormonal changes.</p> <p>Demonstrate triple assessment.</p>	LGIS	45 minutes	Lecture Hall-II Block-A
BREAST CANCER (LEC-3)			
<p>Describe the basic anatomy and physiology of the breast.</p> <p>Enlist the causes of breast cancer.</p> <p>Classify breast cancer.</p>	LGIS	45 minutes	Lecture Hall-II Block-A
UROGENITAL TRAUMA (LEC-4)			
<p>Summarize clinical anatomy of genitals, ureter, bladder and urethra.</p> <p>Describe ATLS protocol.</p> <p>Enlist signs and symptoms of patient presenting with urogenital trauma.</p>	LGIS	45 minutes	Lecture Hall-II Block-A
SCROTAL SWELLING (LEC-5)			

<p>Take a pertinent history and examination in a patient with scrotal swelling.</p> <p>Differentiate scrotal swelling from inguinoscrotal swelling depending on history and examination.</p> <p>Describe the anatomy of scrotum and testis.</p> <p>Enlist causes of scrotal swellings.</p> <p>Differentiate different types of scrotal swelling upon history and examination.</p>	LGIS	45 minutes	Lecture Hall-II Block-A
UNDESCENDED TESTIS (LEC-6)			
<p>Describe the path of descend of testis.</p> <p>Describe the hormones responsible for testicular descend.</p> <p>Describe the anatomy of inguinal canal, testis and scrotum.</p> <p>Identify and examine undescended testis.</p>	LGIS	1 hour	Lecture Hall-II Block-A
MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
INFERTILITY (LEC-1)			
<p>Define infertility.</p> <p>Differentiate between primary and secondary infertility.</p>	LGIS	45 minutes	Lecture Hall-II Block-A
MALE FACTOR INFERTILITY (LEC-2)			

List down various causes of male infertility. Enumerate the lab investigations for evaluation of male infertility.	LGIS	1 hour	Lecture Hall-II Block-A
FEMALE FACTOR INFERTILITY (LEC-3)			
List down various causes of female infertility. Enumerate the lab investigations for evaluation of female infertility.	LGIS	45 minutes	Lecture Hall-II Block-A
VARICOCEOLE (LEC-4)			
Define varicocele. Describe how to investigate varicocele. Identify the complications of untreated varicocele.	LGIS	45 minutes	Lecture Hall-II Block-A
CONGENITAL ADRENAL HYPERPLASIA -1 (LEC-5)			
Define congenital adrenal hyperplasia. Recognize the pattern of inheritance.	LGIS	45 minutes	Lecture Hall-II Block-A
CONGENITAL ADRENAL HYPERPLASIA -2 (LEC-6)			
Explain adrenal steroid genesis pathway. Knows the most common enzyme deficiency. Enlist the effects of congenital adrenal hyperplasia.	LGIS	45 minutes	Lecture Hall-II Block-A

GYNAECOLOGY & OBSTETRICS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
PLACENTAL INJURY (LEC-1)			
Define placental injury (Placental Abruptio).	LGIS	1 hour	Lecture Hall-II Block-A

<p>List the causes of placental injury.</p> <p>Enumerate the risk factors of placental injury.</p> <p>Explain the clinical features of placental injury.</p>			
MENSTRUAL IRREGULARITIES (SCANTY MENSTRUATION)(LEC-2)			
<p>Define menstrual irregularities (Scanty menstruation).</p> <p>List the different causes of menstrual irregularities causing scanty menstruation.</p> <p>Describe the HPO axis disorders causing menstrual irregularities.</p> <p>Enumerate the clinical features of menstrual irregularities.</p>	LGIS	1 hour	Lecture Hall-II Block-A
MENSTRUAL IRREGULARITIES (HEAVY MENSTRUATION)(LEC-3)			
<p>Define heavy menstrual bleeding.</p> <p>Classify the different types of menstrual irregularities (HMB).</p> <p>Discuss the etiology of menstrual irregularities (HMB).</p> <p>Enumerate the clinical features of HMB.</p>	LGIS	1 hour	Lecture Hall-II Block-A

ANATOMICAL CAUSE OF PRIMARY AMMENORRHEA (LEC-4)			
Discuss the embryology of female genital system. Describe the etiology of outflow tract obstruction. Classify the congenital anomalies of the genital tract that causing primary amenorrhea.	LGIS	1 hour	Lecture Hall-II Block-A

FORENSIC MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
PREGNANCY (LEC-1)			
	LGIS	2 hours	Lecture Hall-II Block-A
ABORTION (LEC-2)			
	LGIS	2 hours	Lecture Hall-II Block-A

PAKISTAN STUDIES			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
TWO NATION THEORY AND QUAID-E-AZAM (LEC-1)			
Describe Quaid-e-Azam's views on the Two Nation Theory.	LGIS	45 minutes	Lecture Hall-II Block-A
HAZRAT SHAH WALI ULAH (LEC-2)			
Write and explain the services of Hazrat Shah Wali Ullah.	LGIS	45 minutes	Lecture Hall-II Block-A
SHEIKH AHMAD SIRHINDI (LEC-3)			

Write and explain the services of Sheikh Ahmad.	LGIS	45 minutes	Lecture Hall-II Block-A
SIR SYED AHMED KHAN (LEC-4)			
Write and explain the educational, political, religious, social and literary services of Aligarh Movement (Sir Syed Ahmed Khan).	LGIS	45 minutes	Lecture Hall-II Block-A

BAQAI MEDICAL COLLEGE

TIME TABLE FOR 2nd YEAR MBBS

REPRODUCTIVE MODULE 1ST WEEK

DAYS	8:30-9:15	9:15-10:00	10:00-10:45	10:45-11:30	11:30-12:15	12:15-1:00	1:00-1:30	1:30-2:30
DAY 1	RENAL MODULE EXAM							
DAY 2	ANATOMY INTRODUCTION	PHYSIOLOGY Role of genetics female reproductive system	BIOCHEMISTRY Synthesis of FSH & LH	PHYSIOLOGY General features of female reproductive system & puberty	ANATOMY PELVIC WALL, FLO, FASCIA	P. STUDIES	PRAYER TIME	BIOCHEMISTRY Functions of FSH LH
DAY 3	BIOCHEMISTRY Synthesis & functions of Estrogen	PHYSIOLOGY Ovarian Cycle	ANATOMY DARIES ET PELVIS BOUND INLET, OUL	SDL	PEARL		ANATOMY Ovary/fal tube	
DAY 4	ANATOMY EMBRYOLOGY Ovary/fal n embryolog	PHYSIOLOGY Menstrual Cycle	Anatomy HISTOLOGY Ovary/fal n tu	SDL	Biochemistry Synthesis of Progesterone	Anatomy Uterus and vagina	Research	

DAY 5	Anatomy EMBRYOLOGY Uterus and vagina	PHYSIOLOGY Physiological functions of estrogen	BIOETHICS	BIOCHEMISTRY Functions of Progesterone	SDL	PHYSIOLOGY Physiological function of progesterone	Anatomy FEMALE REPRODUCTIVE SYSTEM MODEL
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Baqai Medical
 University
 Second Professional
 MBBS
 Timetable 2nd week

Day/Time	08:30-10:30	10:30-12:30	12:30-2:30
DAY 6	Anatomy Histology Uterus and vagina	Physiology Maturation & Fertilization of ovum	Biochemistry Androgens
DAY 7	Physiology Implantation of ovum	Biochemistry Mode of action of reproductive hormones	Anatomy Mammary gland
DAY 8	Biochemistry Prenatal diagnosis	Anatomy Testis and scrotum	Physiology Physiological functions of placenta
DAY 9	Anatomy Histology Testis and scrotum	Physiology Double Bohr's Effect	Biochemistry Biochemical role of placenta

DAY 10	Physiology Parturition	Biochemistry Amniotic analysis-1	fluid	Anatomy Prostate
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BAQAI MEDICAL COLLEGE

**TIMETABLE FOR 2nd YEAR MBBS
REPRODUCTION MODULE**

3rd Week

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30	
DAY 11	ANATOMY EMBRYOLOGY be Ovary/F.tu	PHYSIO HORMONE ACTING ON BREAST	Te a br ea	RESEARCH RESEARCH PROJECT AND ITS COMPONENTS	SDL	SURGERY BREAST ABSCESS	Lu nc h & Pr ay --	ANATOMY FRS MODEL	
DAY 12	PHYSIO MILK EJECTION REFLEX	MEDICINE		GYNE MENSTRUAL IRREGULARITIES I	SDL	P. ST		COMMUNITY MEDICINE INTRODUCTION OF REPRODUCTIVE HEALTH	
DAY 13	ANATOMY EMBRYOLOGY Uterus and vaginal canal	PEARL		GYNE MENSTRUAL IRREGULARITIES II	MEDICINE	SDL		PHARMACOLOGY OVERVIEW OF PHARMACOLOGY OF REPRODUCTIVE SYSTEM I	
DAY 14	Physio ROLE OF CONTRACEPTION	PATHOLOGY		PRACTICAL A,B & C (Histology Identification of slide of FEMALE REPRODUCTIVE) Biochem -ESTIMATION OF SERUM CHOL Physiology				SDL	FORENSIC MEDICINE PREGNANCY
DAY 15	PHYSIO NEONATAL PHYSIOLOGY	SURGERY BREAST CANCER		PRACTICAL A,B & C (Histology Identification of slide of FEMALE REPRODUCTIVE) Biochem -ESTIMATION OF SERUM CHOL Physiology -				12:30-1:00 SDL	PRACTICAL A,B & C (Histology Identification of slide of FEMALE REPRODUCTIVE) Biochem - ESTIMATION OF SERUM CHOL Physiology -

**BAQAI MEDICAL COLLEGE TIMETABLE
FOR 2nd YEAR MBBS
REPRODUCTION MODULE**

Week 4

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30	
DAY 16	ANATOMY EMBRYOLOGY Ovary/F.tube	SURGERY	Te a br ea	RESEARCH REINFORCEMENT OF PREVIOUS LECTURE	SDL	BEHAVIORAL SCIENCES	Lu nc h & Pr ay	ANATOMY Perineum-I	
DAY 17	ANATOMY EMBRYOLOGY Uterus and vaginal canal	MEDICINE		GYNE Primary Amenorrhea	PHYSIO Functional parts of Reproductive system	P. ST		COMMUNITY MEDICINE safe motherhood and its component	
DAY 18	PHYSIO Physiological functions of male hormones	Pathology		GYNE Secondary Amenorrhea	PHARMACOLOGY overview of pharmacology of reproductive system II	SDL		FORENSIC MEDICINE ABORTION	
DAY 19	PHYSIO Spermatogenesis	MEDICINE		PRACTICAL A,B & C (Histology Identification of slide of FEMALE REPRODUCTIVE) Biochem -interpretation of serum cholesterol value Physiology : CBL				SDL	FORMATIVE ASSESSMENT Biochemistry
DAY 20	PHYSIO Functions semen	SURGERY		PRACTICAL A,B & C (Histology Identification of slide of FEMALE REPRODUCTIVE) Biochem -interpretation of serum cholesterol value Physiology -CBL				12:30-1:00 SDL	PRACTICAL A,B & C (Histology Identification of slide of FEMALE REPRODUCTIVE) Biochem -interpretation of serum cholesterol value Physiology -CBL

BAQAI MEDICAL COLLEGE TIMETABLE FOR 2nd YEAR MBBS

REPRODUCTION MODULE

Week 5

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
	ANATOMY	PHYSIO		GYNE	SDL	PEARL		ANATOMY

DAY 21	HISTOLOG FEMALE REPRODUCTIVE SYSTEM	spermatozoa Capacitation of	Tea break	PLACENTAL INJURY			Lu nc h & Pr ay	Perineum- II
DAY22	ANATOMY HISTOLOGY Male reprc system	MEDICINE		COMMUNITY MEDICINE	Pathology	P. ST	--	ANATOMY MALE REPRODUCTIVE SYSTEM
DAY 23	LRC	ANATOMY		MEDICINE	SURGERY scortal swelling	SDL		PRESENTATION BIOCHEMISTRY
DAY 24	B. Sciences	MEDICINE		PRACTICAL A,B & C (Histology Identification of slide of MALE REPRODUCTIVE SYS) Biochem-BIOCHEMICAL CHANGES IN MENOPAUSE Physiology : Formative Assessment		SDL		PRESENTATION PHYSIOLOGY
DAY 25	PHYSIO Presentation	SURGERY UNDESCENDED TESTIS		PRACTICAL A,B & C (Histology Identification of slide of MALE REPRODUCTIVE SYS) Biochem- BIOCHEMICAL CHANGES IN MENOPAUSE Physiology-Formative Assessment		12:30-1:00 SDL		PRACTICAL A,B & C (Histology Identification of slide of MALE REPRODUCTIVE SYS) Biochem- interpretation of serum cholesterol value Physiology- Formative Assessment

Distribution and Duration* of Teaching Activities Amongst Different Disciplines

S. No.	Disciplines	Large Group Interactive Session	Small Group Interactive Session		Total hours
		Lectures	SGT	PW	

1.	Anatomy	26	4	8	38
2.	Physiology	20	0	0	20
3.	Biochemistry	17.25	2	4	23.25
4.	Pharmacology	3			3
5.	Pathology	1.5			1.5
6.	Com. Med	5			5
7.	Research	4			4
8.	Forensic Medicine	4			4
9.	Family Medicine	0			0
10.	Medicine	4.75			4.75
11.	Nephrology	0			0
12.	Emergency medicine	0			0
13.	Radiology	0			0
14.	Surgery	4.75			4.75
15.	Paediatric surgery	0			0
16.	Gynae & Obs	4			4
17.	Behavioral sciences	1.75			1.75
18.	Bioethics	0.45			0.45
19.	PEARLS	1.5			1.5
20.	Patient safety	0			0
21.	Infection control	0			0
22.	Skill Lab	0			0

23.	CBL		0	0
24.	SDL	12.25		12.25
25.	Pak Studies	3		3
26.	Islamiat	0		0
27.	Formative Assessment	0		0

* calculated in hours

Assessment Type:

Summative Assessment

- SEQs
- MCQs
- OSPE