AYUB MEDICAL COLLEGE ABBOTTABAD

DEPARTMENT OF MEDICAL EDUCATION



STUDY GUIDE ENDOCRINE & REPRODUCTION-II

4TH YEAR MBBS

BLOCK: L CLASS OF 2024 DURATION: 8 WEEKS

STUDENT NAME

DISCLAIMER

- Developing a study guide is a dynamic process and undergoes iteration according to the needs and priorities.
- This study guide is subjected to the change and modification over the whole academic year.
 - However, students are advised to use it as a guide for respective modules.
 - It is to declare that the learning objectives (general and specific) and the distribution of

assessment tools (both theory and practical) are obtained from Khyber Medical University,

Peshawar. These can be obtained from:

https://kmu.edu.pk/examination/guidelines

• The time tables are for guiding purpose. It is to advise that final timetables are always

displayed over the notice boards of each lecture hall.

Students are encouraged to provide feedback via coordinator.

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1 Module Committee:				
s.no	Name	Department	Role	
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Module Team				
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12.	Dr Ghazala	Surgery	Co-developer	
13.	Dr. Ali Raza	Paediatrics	Co-developer	
14.	Dr. Baynazir Khan	Neurosurgery	Co-developer	

2 What Is A Study Guide?

It is an aid to Inform students how student learning program of the module has been organized, to help students organize and manage their studies throughout the module and guide students on assessment methods, rules and regulations.

2.1 The study guide:

Communicates information on organization and management of the module. This will help the student to contact the right person in case of any difficulty. Defines the objectives which are expected to be achieved at the end of the module. Identifies the learning strategies such as lectures, small group teachings.

2.2 Module objectives.

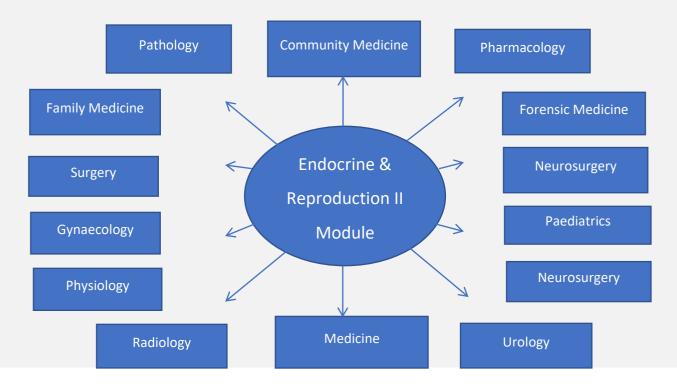
Provides a list of learning resources such as books, computer-assisted learning programs, weblinks, and journals, for students to consult in order to maximize their learning. Highlights information on the contribution of continuous on the student's overall performance. Includes information on the assessment methods that will be held to determine every student's performance.

2.3 Achievement of objectives.

Focuses on information pertaining to examination policy, rules and regulations.

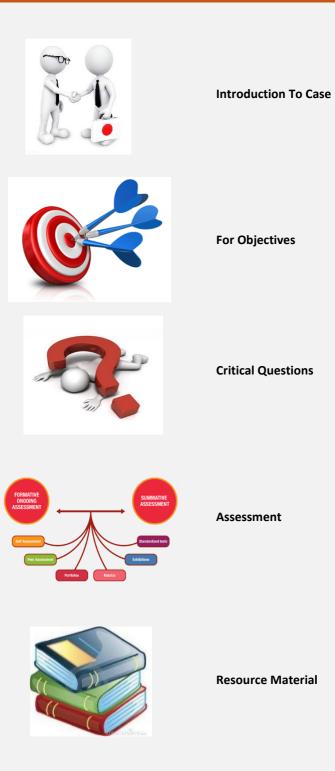
2.4 CURRICULUM FRAMEWORK:

STUDENTS WILL EXPERIENCE INTEGRATED CURRICULUM.



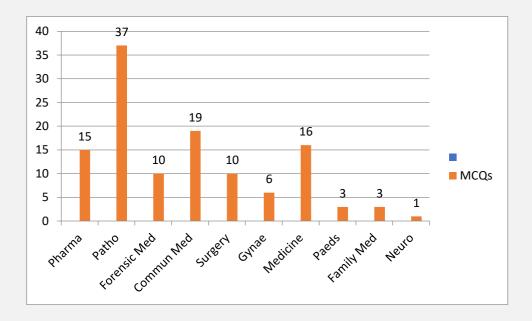


3 Recommended List Of Icons



4 Table Of Specification

S. No	Theme	Topics / region	Weightage
		covered	No. of hours(%age)
1	Tall/short stature	Pituitary gland	20(17.24%)
2	Neck swelling and Muscle cramps	Thyroid and	13(11.20%)
		parathyroid glands	
3	Excessive thirst and urination	Endocrine pancreas	15(12.93%)
4	Moon face	Adrenal cortex	22(18.96%)
5	Infertility and pregnancy	Female sexual	47(40.51%)
		organs	
6	Breast lump	Breasts	09(7.75%)
Total			116(100%)



Number of MCQs from each discipline in the module

5 Organization of Module

5.1 Introduction:

Endocrine System:

The endocrine system is made up of glands that make hormones which regulate all the biological processes in the body from conception through adulthood and into old age. The function of the endocrine system is to coordinate and integrate cellular activity within the whole body by regulating cellular and organ function throughout life and maintaining homeostasis.

Reproductive system:

Reproductive health (RH) is a state of complete physical, mental and social well-being in all matters relating to the reproductive system. Reproductive Health is essential for peoples' overall well being. Hence Reproductive health and specifically women's reproductive health is given prime importance at a global level.

5.2 Rationale:

The endocrine system is responsible for many amazing processes: growth, sexual development, the fight or flight response to danger, and maintaining cellular energy and blood sugar levels. Its work is complicated, but these activities will help the medical students understand how the endocrine system gets the job done and how the defects in hormone production and/or action can lead to profound clinical conditions and syndromes.

In this module, topics related to endocrine and reproduction will be taught to the students in an integrated fashion with reference to common diseases occurring in our community alongwith their prevention.

Regarding reproductive system, this module will address common Maternal and child health issues including safe motherhood, contraception, abortion, Infant health care, Sexually Transmitted Diseases and HIV/AIDS, infertility. It will also address the RH related issues of men.



6 GENERAL LEARNING OUTCOMES

By the end of this module the students of 4th year MBBS would be able to;

6.1 Knowledge

Theme 1:

- Describe the pathology, clinical features, investigations and treatment of Hyper and hypopituitarism
- Describe the pathology, clinical features, investigations and treatment of Hyper and hypothyroidism
- Describe the pathology, clinical features, investigations and treatment of hyper and hypoparathyroidism
- Classify the risk factors and describe the pathogenesis, clinical features, investigations and treatment of Diabetes mellitus
- Explain the pathology, clinical features, investigations and treatment of Hyper and hypoadrenalism
- Discuss the causes of male and female infertility and its management
- Describe the classification, pathology and management of testicular tumors
- Explain benign and malignant breast disease
- Discuss the etiology, risk factors, clinical features, investigations and treatment of carcinoma of breast
- Discuss the role of natural and synthetic hormones and antagonists in the management of relevant disease conditions
- Explain the laws related to sexual offenses, and management of a rape victim in forensic aspects
- Describe the pathophysiology and surgical management of benign prostatic hyperplasia and carcinoma of the prostate

6.2 Skills

- Write and formulate prescriptions for Graves' disease and Diabetes mellitus patients
- Check glucose in urine, sample of blood and interpret pap smear slide
- Identify the microscopic features of multinodular goiter, uterine fibroids and breast carcinoma
- Examining a rape victim on manikin, taking sample, sealing and preservation of the specimen

• Examining, taking sample, sealing and preservation of the specimen of a victim of sodomy

6.3 Attitude

- Taking consent from a rape victim
- Ethics involved while examining, taking sample, sealing and preservation of the specimen of a rape victim and a victim of sodomy



7 SPECIFIC LEARNING OUTCOMES

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Theme 1 Tall/short stature (18LGDs)			
Subject	Learning Outcomes	MIT	No. of hours
Pathology (3LGDS) 1 Physiological anatomy	 Explain the gross and microscopic structure of pituitary gland Explain the functions of hormones of the anterior and posterior pituitary gland and their regulation by the Hypothalamus 	Large group discussion (LGD)	1
 2 Hyperpituitarism/Pituita ry adenomas: Prolactinomas Somatotrophic tumors Corticotrophic tumors others 	 Explain the causes of hyperpituitarism Discuss the gross and microscopic structure of pituitary adenomas, and the hormones secreted from these Explain the clinical manifestations of different types of pituitary adenomas 	Large group discussion (LGD)	1
3 Hypopituitarism	 Describe the etiology and clinical manifestations of hypopituitarism 	Large group discussion (LGD)	1
Medicine (2LGDs) 1 Acromegaly/Gigantism Hyperprolactinemia	 Explain the etiology, clinical features, investigations, treatment and complications of Acromegaly/gigantism Discuss the etiology, clinical features, investigations and treatment of hyperprolactinemia 	Large group discussion (LGD)	1
2 Hypopituitarism/Sheeha n`s syndrome Pharmacology (1LGD)	 Explain the etiology, clinical features, investigations and treatment of Hypopituitarism and Sheehan's syndrome 	Large group discussion (LGD)	1

1	Growth hormone Growth hormone antagonists (Octreotide and others) Bromocriptine Vasopressin/Desmopres sin	 Describe the sources of Growth hormone (old and new sources) Describe the mechanism of action, clinical uses and adverse effects of Growth hormone Enlist Growth hormone antagonists Describe the clinical role of Octreotide in acromegaly Describe the route of administration, dosage and adverse effects of octreotide in acromegaly and gigantism Describe the mechanism of action, clinical uses and adverse effects of Bromocriptine Describe the mechanism of action, clinical use and adverse effects of Desmopressin Enlist the drugs used in nephrogenic diabetes insipidus 	Large group discussion (LGD)	1
1	Pediatrics (1LGD) Short stature	 Describe the method to measure and plot height Calculate height velocity and midparental target height to allow early diagnosis of growth disorders in paediatric patients Explain the diagnostic criteria that allows to differentiate causes of growth deficiency. Discuss the toolbars for better communication with patients and families and coordination of multidisciplinary care. Discuss treatment of growth 	Large group discussion (LGD)	1
1	Neurosurgery(1LGD) Surgical management of pituitary adenoma.	 biscuss accument of growth hormone deficiencyor other diseases responsible for short stature and their appropriate management. Enumerate and describe the surgical treatments and complications of pituitary macro/microadenomas. 	Large group discussion (LGD)	1

	Community Medicine	Define Occupational health.		
	(9LGDs)	 Discuss importance of occupational health. 	Large group discussion	1
1	Occupational Health: Introduction	 Describe ergonomics. Describe principles and responsibilities of occupational health officer[OHO]. 	(LGD)	
2	Physical Hazards	 Enumerate physical hazards (heat, cold, noise, light, vibrations, pressure effect, radiations). Discuss its ill effects on health. Discuss its preventive measures. 	Large group discussion (LGD)	1
3	Chemical Hazards	 Enumerate chemical hazards (inorganic dust diseases, organic dust diseases, metals and chemicals). Discuss its ill effects on health. Discuss its preventive measures. 	Large group discussion (LGD)	1
4	Mechanical, Biological & Psychosomatic hazards	 Describe mechanical hazards. Discuss control measures of mechanical hazards. Discuss control measures of mechanical hazards. Discuss control measures of biological hazards. Describe psychosomatic stressors. Discuss control measures of psychosomatic stressors. 	Large group discussion (LGD)	1
5	Animal hazards	 Describe types, prevalence and statistics of snake bite. Discuss causes of poor management with respect to awareness and vaccination. 	Large group discussion (LGD)	1
6	Preventive measures, health insurance, social security schemes	 Describe various preventive measures of occupational hazards (Medical engineering and legal measure). Discuss role and benefits of health insurance. Discuss social security and its benefits. 	Large group discussion (LGD)	1
7	Demography: Introduction	 Define demography and various related terms. 	Large group	1

		 Explain and interpret population pyramid. Explain demographic transition. Describe the causes of high and low fertility and mortality. 	discussion (LGD)	
8	Growth rate	 Define population growth rate, CDR, CBR. Describe growth rate . Describe population explosion & its implications. 	Large group discussion (LGD)	1
9	Demographic indicators	 Explain advantages of population control. Describe the demographic indicators of Pakistan. 	Large group discussion (LGD)	1
M	edical Education (1LGD) Dealing with patients Community Need analysis	 Serve the patient as an individual, taking into account lifestyle, beliefs and support system. Identify the health care needs of community. 	Large group discussion (LGD)	1

	Theme 2	Neck swelling and muscle cramps (14LGDs)		
	Subject	Learning Outcomes	MIT	No. of hours
1	Physiology (1LGD) Physiological anatomy of the Thyroid gland	 Explain the gross and microscopic structure of Thyroid gland gland Explain the synthesis and functions of hormones of the thyroid gland and their regulation by the anterior pituitary 	Large group discussion (LGD)	1
1	Pathology (4LGDs) Hyperthyroidism including Grave`s disease	 Discuss the etiology, pathogenesis and morphology of Hyperthyroidism and Grave's disease 	Large group discussion (LGD)	1
2	Hypothyroidism	 Discuss the etiology, pathogenesis, morphology and clinical features of Hypothyroidism 	Large group discussion (LGD)	1

2	T 1	Discussion of the second second	1	
3	Thyroiditis Multinodular goiter	 Discuss the classification, morphology and presentations of Thyroiditis Explain the etiology, clinical features, and complications of multinodular goitre 	Large group discussion (LGD)	1
4	Thyroid malignancies	 Classify thyroid malignant disorders Explain morphology, clinical features and prognosis of thyroid malignancies 	Large group discussion (LGD)	1
1	Medicine (5LGDs)	 Discuss the etiology, clinical features, investigations and treatment and prognosis of 	Large group discussion	1
	including Grave`s disease	 Hyperthyroidism and Grave's disease Explain the pathogenesis, clinical features and management of Grave's Ophthalmopathy 	(LGD)	
2	Hypothyroidism	 Discuss the types, etiology, clinical features, investigations and treatment of Hypoparathyroidism 	Large group discussion (LGD)	1
3	Thyroiditis	 Describe the classification, etiology, clinical features, investigations and treatment of Thyroiditis 	Large group discussion (LGD)	1
4	Multinodular goiter Thyroid malignancies	 Discuss the etiology, clinical features, investigations and management approach to a patient with multinodular goiter Classify thyroid malignant disorders Discuss the pathogenesis, clinical features, investigations and management of Thyroid malignancies 	Large group discussion (LGD)	1
5	Hyperparathyroidism Hypoparathyroidism	 Discuss the types, etiology, clinical features, investigations and treatment of Hyperparathyroidism Discuss the types, etiology, clinical features, investigations and treatment of Hypoparathyroidism 	Large group discussion (LGD)	1
I	Pharmacology (2LGDs)	Enlist thyroid preparations (used clinically as well as older-obsolete	Large group	
1	Thyroid hormones	 Describe the mechanism of action, pharmacological effects, clinical use and adverse effects of Thyroxine 	discussion (LGD)	1

		(T_4) and Tri-iodothyronine (T_3)	
2	Antithyroid drugs	 Classify Antithyroid drugs Describe the mechanism of action, clinical use and adverse effects of Thioamides Describe the mechanism of action, clinical use and adverse effects of discus Potassium iodide Describe Lugol's iodine solution Describe the mechanism of action, clinical use and adverse effects of Radioactive iodine (¹³¹I) Describe the use of β-blockers in hyperthyroid patients 	sion 1
1	Pediatrics (1LGD) Congenital hypothyroidism	 Discuss the types and clinical features of hypothyroidism Discuss investigations and discus treatment of Hypothyroidism 	sion 1
1	Community Medicine (1LGD) Iodine deficiency / Goitre	 Discuss sources of iodine and goitrogens Discuss iodine deficiency disorders Large g and daily requirement of Iodine discus Discuss iodine deficiency disorders (LGI and daily requirement of Iodine 	sion

Theme 3		Excessive thirst and urination	n (13LGDs)	
	Subject	Learning Outcomes	MIT	No. of hours
1	Pathology (2 LGDs) Diabetes Mellitus • Classification • Diagnosis • Insulin resistance • Beta cell dysfunction • Complicationss • Acute • Chronic	 Classify Diabetes mellitus Explain the diagnostic criteria of DM Explain the mechanisms of insulin resistance Explain the mechanisms of beta cell dysfunction Explain the acute and chronic complications of DM 	Large group discussion (LGD)	1
2	Pancreatic neuroendocrine tumors	 Describe the types and clinical presentations of pancreatic 	Large group	1

		neuroendocrine tumors	discussion	
			(LGD)	
1	Medicine (6 LGDs) Diabetes mellitus Types Insulin resistance syndromes Clinical features investigations Treatment Complications	 Explain the different types of DM Discuss the mechanism presentation, and management of insulin resistance Discuss the clinical features of DM Explain the diagnostic workup of a patient with DM Classify the pharmacological treatment of DM Explain life style modifications in the management of DM Discuss the acute and chronic complications of DM 	Large group discussion (LGD)	3
2	Hypoglycemic coma	 Explain the etiology, clinical features and management of hypoglycemic coma 	Large group discussion (LGD)	1
3	Diabetic ketoacidosis Hyperosmolar non- ketotic diabetic coma Lactic acidosis	 Explain the precipitating factors, diagnostic work up, and treatment of a patient with diabetic ketoacidosis Explain the precipitating factors, diagnostic work up, and treatment of a patient with Hyperosmolar non- ketotic diabetic coma Explain the precipitating factors, diagnostic work up, and treatment of a patient the precipitating factors, diagnostic work up, and treatment of a patient with Lactic acidosis 	Large group discussion (LGD)	1
4	Posterior pituitary gland SIADH	 Discuss the functions of hormone Vasopressin secreted by the posterior pituitary gland Explain the etiology, clinical features, investigations and treatment of Diabetes insipidus Explain the etiology, and pathogenesis of SIADH secretion 	Large group discussion (LGD)	1
	Pharmacology (3 LGDs)	 Classify Insulins Describe the sources of Insulin 		
1	Insulin Glucagon	 Describe the differences between the human, bovine and porcine Insulins Describe the mechanism of action and clinical uses of Insulin 	Large group discussion (LGD)	1

2 Oral hypoglycemic drugs	 Describe the com)lications of Insulin therapy Describe the management of hypoglycemia caused by Insulin Describe the management of diabetic ketoacidosis Describe the mechanism of action and clinical use of Glucagon Classify oral hypoglycemic drugs Enlist euglycaemic drugs Describe the mechanism of action and adverse effects of Sulphonylureas Describe the mechanism of action, and clinical use of Meglitinides Describe the mechanism of action, clinical use and adverse effects of Biguanides Describe the mechanism of action, clinical use and adverse effects of Biguanides Describe the mechanism of action, clinical use and adverse effects of Biguanides Describe the mechanism of action, clinical use and adverse effects of Thiazolidinediones Describe the mechanism of action, clinical use and adverse effects of Thiazolidinediones Describe the mechanism of action, clinical use and adverse effects of Thiazolidinediones 	Large group discussion (LGD)	2
Pediatrics (1 LGD) 1 Management of Type 1 Diabetes mellitus in children children Community Medicine (1 LCD)	 Exenatide and Sitagliptin Enumerate the blood glucose parameters and the clinical signs for an early diagnosis of diabetes in a child. Recognize how diabetes may present in young children or babies, in order to make the diagnosis and prevent coma or death Plan investigations and management plan for a newly diagnosed and a known diabetic child. Enumerate the different types of insulins. 	Large group discussion (LGD)	1
Community Medicine (1 LGD)1Non-communicable	 Discuss Prevalence of diabetes mellitus globally and in Pakistan Discuss modifiable and non- 		

diseases: Prevention of diabetes mellitus	 modifiable risk factors for diabetes mellitus Describe epidemiological determinants of diabetes mellitus Discuss screening methods for diabetes mellitus Discuss the prevention (Primary, secondary and tertiary) and care of diabetes mellitus 	Large group discussion (LGD)	1
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	Theme 4	Moon Face (19LGDs)		
	Subject	Learning Outcomes	MIT	No. of hours
1	Physiology (1LGD) Physiology of the Adrenal cortical hormones	 Explain the gross and microscopic structure of Adrenal gland Explain the synthesis and functions of hormones of the adrenal cortex and their regulation by the anterior pituitary 	Large group discussion (LGD)	1
	Pathology (5LGDs)	 Discuss the etiology of 	Large group	
1	Hypercortisolism and Cushing`s syndrome	 Hypercortisolism Explain the etiology and clinical features, of Cushing's syndrome 	discussion (LGD)	1
2	Hyperaldosteronism Adrenogenital syndrome	 Explain the etiology, and presentation of primary Hyperaldosteronism Explain the etiology, clinical features, of Adrenogenital syndrome 	Large group discussion (LGD)	1
3	Adrenal insufficiency Primary (Acute and Chronic) Secondary 	 Classify adrenal insufficiency in the context of its etiology Discuss the clinical presentations and complications of adrenal insufficiency 	Large group discussion (LGD)	1
4	Adrenal neoplasms	 Discuss the types of adrenal neoplasms Explain the morphology, and clinical features of adrenal neoplasms 	Large group discussion (LGD)	1

5	Pheochromocytoma Multiple Endocrine Neoplasia syndromes (MEN)	 Explain the morphology, and clinical features of Pheochromocytoma Classify Multiple endocrine neoplasia syndrome Explain the morphology and clinical features of MEN 	Large group discussion (LGD)	1
1	Medicine (6LGDs) Hypercortisolism and Cushing`s syndrome	 Explain the etiology, clinical features, diagnostic workup and management of Hypercortisolism/Cushing`s syndrome 	Large group discussion (LGD)	1
2	Primary Hyperaldosteronism	 Explain the etiology, clinical features, diagnostic workup and management of Primary Hyperaldosteronism 	Large group discussion (LGD)	1
3	Adrenogenital syndrome	 Explain the etiology, clinical features, diagnostic workup and management of Adrenogenital syndrome 	Large group discussion (LGD)	1
4	Adrenal insufficiency • Primary (Acute and Chronic) • Secondary	 Classify adrenal insufficiency Explain the etiology, clinical features, investigations and treatment of primary Addison's disease Explain the etiology, clinical features, investigations and treatment of pituitary adrenal insufficiency 	Large group discussion (LGD)	1
5	Adrenal neoplasms	 Explain the types of adrenal tumors Discuss the clinical presentations, diagnostic workup and treatment of adrenal tumors 	Large group discussion (LGD)	1
6	Pheochromocytoma Gastro-entero- pancreatico- neoroendocine tumors (GEP-NETs) including Carcinoid tumors	 Explain the clinical features, investigations, management and complications of Pheochromocytoma Explain the clinical features, investigations, management of GEP-NETs/Carcinoid tumors 	Large group discussion (LGD)	1

	Pharmacology (2LGDs)	Classify GlucocorticoidsDescribe the mechanism of action,	Large group	
1	Glucocorticoids	 pharmacological effects, clinical uses and adverse effects of glucocorticoids Describe dexamethasone suppression test 	discussion (LGD)	2
2	Glucocorticoid antagonists/synthesis inhibitors Aldosterone antagonists	 Enlist Glucocorticoid antagonists/synthesis inhibitors Describe the mechanism of action, clinical uses and adverse effects of Mifepristone, Ketoconazole, Metyrapone and Aminoglutethimide Describe the mechanism of action, clinical uses and adverse effects of Spironolactone (apart from being used as diuretic) 	Large group discussion (LGD)	1
Con 1	Introduction to nutrition, basic measurements & allowances Macronutrients	 Classify nutrients Discuss quality of nutrients in diet Discuss the balanced diet Discuss energy value of different nutrients Describe classification of macronutrients Discuss the functions and importance of various macronutrients Discuss daily allowance of macro 	Large group discussion (LGD)	1
2	Micronutrients -Vitamin deficiencies allowances & control	 nutrients Discuss the diseases caused by their deficiency and excess Describe classification of micronutrients Discuss the function and importance of various vitamins Discuss daily allowances of vitamins Discuss diseases caused by their 	Large group discussion (LGD)	1
3	Micronutrients -mineral deficiencies allowances and control	 Discuss diseases caused by their deficiency Discuss the function and importance of various minerals essential for health Discuss daily allowance of 	Large group discussion (LGD)	1

		minerals intakeDiscuss diseases caused by their deficiency		
4	Undernutrition – Protein calorie malnutrition and control	 Define undernutrition and its classification Discuss protein calorie malnutrition & its causes Describe the various classifications for assessment of PEM Discuss control strategies of malnutrition 	Large group discussion (LGD)	1
5	Over-nutrition / obesity and it's control	 Define Obesity Calculate BMI Discuss epidemiology of Obesity Enumerate causes of Obesity Explain the complications of Obesity Formulate the management plan for Obesity Discuss prevention of Obesity 	Large group discussion (LGD)	1

Theme 5

	Subject	Learning Outcomes	MIT	No. of
				hours
	Pathology (10LGDs)	 Classify testicular tumors 		
1	Testicular tumors	 Explain the gross and microscopic morphology of benign and malignant testicular tumors Discuss the staging and prognosis of testicular malignant tumors 	Large group discussion (LGD)	1
2	 Prostatic disorders Prostatitis Benign prostatic hyperplasia (BPH) Prostatic carcinoma 	 Explain the etiology and morphology of Prostatitis Explain the gross and microscopic morphology and complications of BPH Explain the clinical features, types and staging of prostatic carcinoma 	Large group discussion (LGD)	2

3	Sexually transmitted diseases (STDs) • Syphilis • Gonorrhea	 Explain the types of STDs Explain the stages, morphology, clinical features and complications of Syphilis Name the organisms causing Gonorrhea and its clinical features 	1
4	Introduction to gynecological cancers	Enlist different types of Large group gynecological cancers (LGD)	1
5	Cervical carcinoma	 Explain the gross and Large group microscopic morphology, clinical discussion features and staging of Cervical (LGD) carcinoma 	1
6	Endometritis Uterine fibroids Endometriosis	 Explain the etiology and pathogenesis of endometritis Explain the etiology and morphology of uterine fibroids Explain the etiology, pathogenesis and morphology of endometriosis 	1
7	Endometrial hyperplasia and endometrial carcinoma	 Explain the etiology, pathogenesis, morphology of Endometrial hyperplasia (LGD) 	1
8	Polycystic ovarian disease	 Explain the etiology, risk factors, clinical features and morphology of Polycystic ovary syndrome (LGD) 	1
9	Tumors of the ovary Benign Malignant 	 Classify benign and malignant tumors of the ovary Explain the gross and microscopic morphology, clinical features, staging and complications of ovarian carcinoma 	1
	Gynaecology (6LGDs)	• Describe the anatomy of the Large group perineum, the vagina, cervix and discussion	1
1	Anatomy of the reproductive tract	uterus, the adnexa and ovary (LGD)	
2	Menopause	 Define Menopause. Describe physiological and non-physiological menopause Explain the clinical effects of menopause on women 	

		 Outline the assessment of menopausal women, based on modifiable and non-modifiable risk factors. Explain the management of menopause Describe the types, side-effects, relative and absolute contraindications of hormone replacement therapy (HRT) Large group discussion (LGD) 	1
3	Contraception	 Define contraception Classify contraceptive methods Explain their mechanisms of action, efficacy and failure rates Explain the risks and benefits of (LGD) each method Identify the complications of different contraceptive methods 	1
4	Polycystic ovary syndrome Uterine fibroids	 Explain the risk factors, etiology, clinical features, investigations, treatment, complications and prognosis of polycystic ovary syndrome Explain the risk factors, clinical features, and management of uterine fibroids 	1
5	Endometrial cancers Cervical carcinomas	 Explain the risk factors, clinical features, investigations, prognosis and management of endometrial carcinoma Explain the risk factors, clinical (LGD) features, investigations, prognosis and management of cervical carcinoma 	1
6	Causes of female infertility	 Define infertility Discuss the causes of female infertility Large group discussion (LGD) 	1
	Pharmacology (4LGDs)	 Describe the mechanism of action, clinical uses and adverse 	
1	Gonadotropins (FSH & LH) and human chorionic gonadotropin Gonadotropin-releasing hormone and analogues (Gonadorelin and others)	 effects of Gonadotropins (FSH & Large group LH) and human chorionic discussion gonadotropin (hCG) (LGD) Describe the role of gonadotropins in male infertility Describe the mechanism of 	2

2	Oxytocin	 action, clinical uses and adverse effects of Gonadotropin- releasing hormone and analogues (Gonadorelin and others) Describe the mechanism of action, clinical uses and adverse effects of Oxytocin 	Large group discussion (LGD)	1
3	Oestrogens, Progestins, Oral contraceptives, Parenteral and implantable contraceptives, Ovulation-inducing agent, Mifepristone, Danazol, Androgens & anabolic steroids, Antiandrogens, Male contraception, Selective Estrogen Receptor Modulators	 Classify Oestrogens Describe the mechanism of action, organ system effects, clinical uses, adverse effects and contraindications of Oestrogens Classify Progestins Describe the mechanism of action, organ system effects, clinical uses, adverse effects and contraindications of Progestins Classify Oral contraceptives Describe the mechanism of action, organ system effects, clinical uses, adverse effects and contraindications of Progestins Classify Oral contraceptives Describe the mechanism of action, organ system effects, clinical uses, adverse effects and contraindications of oral contraceptive pills Describe mini pills with their advantages and disadvantages Describe post-coital contraceptives Describe the use of Parenteral (Medroxyprogesterone) and implantable (Norplant system) contraceptives Describe the mechanism of action, clinical use and adverse 	Large group discussion (LGD)	1

		 effects of Clomiphene Describe the mechanism of action, clinical uses and adverse effects of Mifepristone Describe the mechanism of action, clinical uses and adverse effects of Danazol Enlist Androgens and anabolic steroids Describe the mechanism of action, clinical uses and adverse effects of androgen preparations Classify antiandrogens Describe the role of Ketoconazole as steroid synthesis inhibitor, its clinical uses and adverse effects Describe the mechanism of action and clinical use of Finasteride Describe the mechanism of action and clinical use of Cyproterone acetate Describe the role of Spironolactone as androgen receptor blocker and its use in this context Enlist the drugs used for male contraception Describe the role of Gossypol as male contraceptive agent Enlist Selective Estrogen Receptor Modulators (SERMs). Describe the mechanism of action and clinical uses of ramoxifen. 	
Fore	nsic Medicine (12LGDs)	Define impotence	
1	Impotence and sterility	 Define sterility Examine under supervision a case of sterility and impotence Describe important causes leading to sterility and (LGD) impotence in males as well as in females 	1

2	Sterilization	 Appreciate difference between sterility and impotence Medicolegal importance of sterility and impotence Define sterilization Medicolegal importance of sterilization Discuss the technique of sterilization in males and females enumerate legal formalities before sterilization 	Large group discussion (LGD)	1
3	Artificial insemination	 Define artificial insemination Enumerate its different types Describe medicolegal aspects of artificial insemination Define test tube baby Define surrogate motherhood and enumerate its medicolegal importance 	Large group discussion (LGD)	1
4	Virginity	 Define virginity Discuss signs of virginity Enumerate different types of hymen 	Large group discussion (LGD)	1
5	Pregnancy	 Define pregnancy Describe presumptive signs of pregnancy Discuss probable signs of pregnancy Appreciate conclusive signs of pregnancy Enumerate signs of pregnancy in dead Discuss Medicolegal aspects of pregnancy Describe Isqat e Haml & Isqat E Janin as per PPC 	Large group discussion (LGD)	1
6	Delivery	 Define delivery Appreciate signs of recent delivery in living Appreciate or identify signs of recent delivery in dead Identify signs of remote delivery in living and dead Enumerate medicolegal aspects 	Large group discussion (LGD)	1

		of delivery		
7	Legitimacy & dissolution of marriage	 Define legitimacy Define illegitimate child Enumerate medicolegal aspects of legitimacy Define superfetation Enumerate medicolegal aspects of affiliation/ adoption Enlist legal grounds for nullity and dissolution of marriage 	Large group discussion (LGD)	1
8	Natural sexual offences: Rape & Incest	 Define rape as per CrPC Enumerate medicolegal aspects of rape Examine under supervision a case of rape victim Examine under supervision examination of the accused Define incest 	Large group discussion (LGD)	1
9	Zina	 Define Muhsan as per Hudood ordinance 1979. Define Zina according Huddod ordinance 1979. Enumerate the conditions required for liability in case of Zina. Enlist punishment of Zina Enumerate steps of proof of Zina in the court Describe steps of complaint in case of Zina as per Cr PC 	Large group discussion (LGD)	1
10	Unnatural sexual offences Sodomy	 Define sodomy Enumerate steps of examination of passive agent in sodomy Enumerate steps of examination of active agent Define and describe buccal coitus Define and describe tribadism Define bestiality 	Large group discussion (LGD)	1

11	Sexual perversions	 Define sexual perversions Enumerate its different types Define and describe sadism Define and describe masochism Define and describe fetishism Define and describe exhibitionism Define and describe transvestism Define and describe uranism Define and describe voyeurism Define and describe frotteurism Define and describe frotteurism 	Large group discussion (LGD)	1
12	Abortion	 Define abortion enumerate its different types enumerate salient features of natural abortion enumerate salient features of artificial abortion differentiate between natural and criminal abortion examine under supervision a case of criminal abortion and legal formalities to be fulfilled in such a case 	Large group discussion (LGD)	1
1	Urology(1LGD) Causes of male infertility	 Discuss the causes of male infertility Explain the diagnostic workup of a male infertile patient 	Large group discussion (LGD)	1
	Surgery (2LGDs)	 Define Cryptorchidism Explain the etiology, 		
1	Cryptorchidism Hydrocele and varicocele	 complications and management of Cryptorchidis Explain the cause, clinical features, complications and surgical management of hydrocele and varicocele. 	Large group discussion (LGD)	1
2	Benign prostatic hyperplasia Carcinoma of prostate	 Explain the etiology, clinical features, complications and management of BPH. Explain the etiology, clinical features, complications, staging, management and prognosis of 	Large group discussion (LGD)	1

		carcinoma of the prostate.		
Co	mmunity Medicine (5LGDs) Safe motherhood	 Define reproductive health. Describe components of reproductive health. Define safe motherhood. Discuss pillars of safe motherhood. 	Large group discussion (LGD)	1
2	Antenatal care and Post abortion care	 Discuss antenatal care. Discuss antenatal visits as per WHO. Discuss Post abortion care. 	Large group discussion (LGD)	1
3	Family planning and	 Define family planning. Discuss different methods of family planning. Discuss contraceptive prevalence rate and factors responsible for low CPR. 	Large group discussion (LGD)	1
4	Child promotion and development strategies (IMNCI, IMCI and growth monitoring)	 Define IMNCI & IMCI. Describe components of IMNCI. Enumerate principles of IMNCI. Discuss growth monitoring. 	Large group discussion (LGD)	1
5	Prevention of reproductive health diseases.	 Discuss different reproductive health diseases. Discuss STIs in detail. Discuss risk factors and Prevention of CA cervix. 	Large group discussion (LGD)	1
1	Family medicine (3LGDs) Menstrual disorders Menopause	 Enlist menstrual disorders. Explain the etiology, investigations and management of menstrual disorders in primary care. Explain the clinical features, and management of menopausal symptoms and complications in primary care 	Large group discussion (LGD)	1
2	Contraception	 Explain the types of contraception methods. Explain the merits and demerits of different contraceptive techniques. Describe the complications 	Large group discussion (LGD)	1

		associated with the use of oral and injectable contraceptives.		
3	Vaginal discharge and STDs	 Explain the etiology of vaginal discharge. Describe the diagnosis and management of vaginal discharge in primary care. Classify Sexually transmitted infections in females. Describe the clinical features, investigations and management of STDs in females in primary care. 	Large group discussion (LGD)	1

Theme 6	Breast Lump (7LG	Ds)	
Subject	Learning Outcomes	MIT	No. of hours
Pathology (2LGDs)1Fibrocystic changes•Cystsandfibrosis•Epithelialhyperplasia••AdenosisFibro-adenomaPapilloma	 Explain the fibrocystic changes in breast including cysts, fibrosis, epithelial hyperplasia and adenosis. Explain the morphology of Fibroadenoma of the breast. Explain the morphology of papilloma of the breast. 	Large group discussion (LGD)	1
2 Carcinoma of the breast Gynecomastia	 Explain the risk factors, etiolopathogenesis, clinical features, staging, and complications of carcinoma of the breast. Discuss the causes and morphology of Gynecomastia. 	Large group discussion (LGD)	1
Surgery (2LGDs)			

1	Investigations of breast diseases Benign breast diseases	 Justify the investigations of a patient with a breast lesion. Classify benign breast diseases. 	Large group discussion (LGD)	1
2	Malignant breast diseases	 Classify malignant breast diseases. Discuss the risk factors, etiology, clinical features, investigations, management and prognosis of a patient with breast cancer. Describe the role of hormone receptors in breast cancer. Explain the complications of breast cancer surgery. Discuss the role of pharmacological treatment options in breast cancer management. Explain the role of selective estrogen receptors modulators in the prevention of breast cancer in high risk women. 	Large group discussion (LGD)	2
Con	Breast feeding Screening and prevention of breast cancer	 Discuss advantages of breast feeding. Discuss artificial feeding. Discuss baby friendly hospital initiative. Discuss guidelines on infant and child feeding. Discuss different methods of screening for breast cancer. Discuss levels of prevention of breast cancer. 	Large group discussion (LGD)	1
1	Radiology (1LGD) Radiological approaches to breast cancer screening	 Explain the indications, procedure, and interpretation of ultrasound and mammography in the investigation of breast lumps 	Large group discussion (LGD)	1
Pr 1	ime/Medical Education (1LGD) Counselling- Breaking	 Explain the concept of SPICES model of breaking bad news. 	Large group discussion (LGD)	1
	bad news		、 <i>,</i>	

Practical work

Sub	ject: Pharmacology	Learning Outcomes	No. of hours
1	Prescription for Graves' disease, Hypothyroidism	 Formulate prescription for a patient with Graves' disease. 	2
2	Prescription for Diabetes mellitus	 Formulate prescription for a patient with type 1 and type 2 Diabetes mellitus. 	2
Sub 1	ject: Pathology Glucose estimation	Check glucose in urine.	2
2	Goitre Pap smear	 Check blood glucose in a given sample Identify the microscopic features of multinodular goitre Interpret a pap smear 	2
			2
4	Fibroids	 Identify the microscopic features of uterine fibroids 	2
5	Carcinoma breast	 Identify the microscopic features of carcinoma of the breast 	2
3	Aldosterone antagonists	 Describe the mechanism of action, clinical uses and adverse effects of Spironolactone (apart from being used as diuretic) 	2
Sub	ject: Forensic Medicine	 Take consent from a rape victim Examine a rape victim/manikin Describe the procedure of taking 	2
1	Examination of a rape victim and assailant	sample from the victim/manikin/itemDescribe the procedure of Sealing and preservation of the specimen	
2	Examination of sodomy victim and assailant	 Describe the procedure of Examining a victim of sodomy Describe the procedure of Taking sample from the 	2

	ject: Community dicine Contraception	 victim/manikin/item Describe the procedure of Sealing and preservation of the specimen. Identify the contraceptive device/drug Explain the merits and demerits Discuss the method of administration of the given device/drug 	2
2	Mother and child health IMCI- Shakir`s tape Growth chart	 Identify the chart Devise a schedule plan for antenatal visits as per WHO criteria Identify the model Measure the mid-arm circumference Identify the chart Plot the graph using a scenario Interpret different parts of the chart Calculate the weight and height of the child Interpret the results 	2
3	EPI schedule Vaccination and immunization Tetanus Toxide	 Counsel the mother for EPI schedule Identify the vaccine Explain its uses Discuss its schedule of administration Discuss the results of VVM (vaccine voile monitor) and its uses in epidemics 	2
4	Demographic indicators	 Interpret the given demographic indicator (population pyramid, HDI, PQLI, Growth rate and dependency ratio) 	2

Hours Distribution		
Theory		
Discipline	No. of hours	
Physiology	02	
Pathology	26	
Pharmacology	12	
Forensic Medicine	12	
Community Medicine	22	
General Medicne	19	
Eye	16	
ENT	23	
Pediatrics	03	
Surgery	04	
Gynae & Obs	06	
Neurosurgery	01	
Urology	01	
Family Medicne	03	
Radiology	01	
PRIME/DME	02	
Total	153	
Practic	al/SGDs	
Pathology	12	
Pharmacology	04	
Forensic Medicine	04	
Community Medicine	08	
Total	28	



8 Examination and Methods of Assessment:

The year-4 will be assessed in 5 blocks.

- 1) Block-1 (Neurosciences-2 module) will be assessed in paper-J.
- 2) Block-2 (GIT and hepatobiliary module-2 will be assessed in paper-K.
- 3) Block-3 (Renal-2, Endocrine and Reproduction-2 module) will be assessed in paper-L.
- 4) Block-4 (ENT module) will be assessed in paper M-1.
- 5) Block-5 (Eye module) will be assessed in paper M-2.
- Each written paper consists of 120 MCQs except for ENT & Eye papers which includes 90 MCQs each.
- 7) Internal assessment will be added to final marks in KMU.
- 8) For ENT (M-1 module) and Eye (M-2 module), the marks allocated for each OSCEstation will be 5, while the rest of the modules are allotted 6 marks per OSCE station.
- Practical assessment will be in the form of OSPE/OSCE which will also include embedded viva stations.
- 10) The details of each section are given in the tables below.

Assessment Plan for 4 th Year MBBS									
Theory paper	Modules	Theory marks	Internal assessment theory (10%)	OSPE/OSP E	Internal assessment OSPE/OSP E(10%)	TOTA L MARK S			
Paper J	Neurosciences-2	120	13	120	13	266			
Paper K	GIT-2	120	13	120	13	266			
Paper L	Renal-2 and Endocrine and Reproduction	120	14	120	13	267			
Paper M-1	ENT	90	10	75*	8	183			
Paper M-2	EYE	90	10	75*	8	183			
Research**						35			
Total Marks		480	53	500	67	1200			

*For ENT (M-1 module) and Eye (M-2 module), the marks allocated for each OSCE station will be 5, while the rest of the modules are allotted 6 marks per OSPE/OSCE station.

**Research viva of 20 marks will be conducted in paper-L. However, the rest of the 15 marks will be decided by the

concerned department internally for the contribution of the studentsin research project/thesis.

Paper-L (Renal-2, and Endocrine and Reproduction-2)

Subject	Renal-2	Endocrine and Reproduction-2	Total MCQs
Community medicine	11	6	17
Pharmacology	02	07	09
Pathology	11	12	23
Forensic medicine	01	06	07
Surgery	06	03	09
Gynaecology	01	39	40
Medicine	05	05	10
Pediatrics	02	01	03
Family medicine	01	01	02
Total	40	80	120

MCQs

OSPE/OSCE

Subject	Viva stations	OSPE/OSC E stations	Total
Pharmacology	2	1	3
Pathology	2	2	4
Forensic medicine	2	1	3
Community	2	4	8
medicine			
Research viva	2**	Х	
Gynecology	1	2	3
Medicine	0	1	1
(Endocrinology/DM)			
Total	11	11	22

* A minimum of 22 stations will be used in final exams. The total marks will be 120 (6 marks for each station).

**there will be 2 allocated stations for research viva (one internal and one external)at one time for which the number of marks for each station will be 10 (with a total of 20 marks) allocated for research viva plus 15 marks for conducting research). A total of 35 marks have been allocated for the thesis (research project).

Exam. Roll No	
DEPARTMENT OF COMMUNITY MEDICINE	
AYUB MEDICAL COLLEGE	
ABBOTTABAD	Photograph
Class Roll No:	
Mr/Miss:	
Father's Name:	_Domicile:
Present Address:	

RECORD OF ATTENDANCE

MONTHS	SESSION	TOTAL HOURS TAKEN	TOTAL ATTENDANCE	PERCENTAGE	
	STARTED				
March	2021				
June	2021				
July	2021				
August	2021				
September	2021				
October	2021				
November	2021				
December	2021				
R/Project	2021				
TOTAL	2021				

VISIT TEST/ R. PROJECT

Visit Test (=/20)		
Research project (=/25)		

RECORD OF PERFORMANCE

TEST	MARKS	REMARKS
Test No. 1		

Test No. 2	
Test No. 3	
Test No. 4	
Total (=/10)	

PAST ACADEMIC RECORD

2 nd Professional Exam	Session	Result
3 rd Professional Exam	Session	Result
Remarks by the Tutor		



9 Learning Opportunities and Resources

9.1 INSTRUCTION

Dear students! NEVER use guides and substandard books for learning and exam preparation. Following are the books , website links and articles recommended for you.

9.2 BOOKS:

Pathology

Robbins basic Pathology first south Asia edition

Chemical Pathology for the beginner by Ammir Ejaz

Community Medicine:

Park K. Park's textbook for preventive and social medicine. 23rd ed. Bhanot publishers: Jabalpur;2015 Ansari I. Textbook of Community Medicine

NCBI Books. Contraception and Reproduction: Health Consequences for Women and Children in the

Developing World. National Research Council (US) Committee on Population. Washington (DC): National

Academies Press (US); 1989.

Pharmacology

Basic & Clinical Pharmacology, 14th edition

Goodman Gilman's The Pharmacological Basis of Therapeutics, 13th edition

Lippincott Illustrated Reviews Pharmacology, 7th edition

Neurosurgery

Greenberg. Handbook of neurosurgery.20th ed.

Forensic Medicine:

Principles & Practice of Forensic Medicine Nasib R. Awan

Parikh's Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology

Textbook of Forensic Medicine & Toxicology Nageshkumar G. Rao, Jaypee.

Surgery

Bailey and Love's short practice of surgery

Gynaecology

Rashid Latif Khan. Textbook of Gynaecology. 7th edition <u>Paediatrics</u>

Nelson textbook of Paediatrics, 21st edition

Textbook of paediatrics, Pakistan Paediatrics association

Parvez Akbar Khan. Basis of Paediatrics. 9th ed

Medicine

Davidson's Principles and practice of Medicine

Physiology

Guyton and Hall's textbook of Medical Physiology

9.3 WEBSITE:

Community Medicine:

Link for free download PDF Park's textbook for preventive and social medicine:

https://medicalstudyzone.com/download-parks-textbook-of-preventive-and-social-medicine-25th-edition-pdf-

free/#Download Park8217s Textbook of Preventive and Social Medicine PDF free

Pakistan Demographic and Health Survey, Pakistan (2017-18):

https://dhsprogram.com/pubs/pdf/FR354/FR354.pdf

IMNCI: IMNCI Management of Childhood Illness Chart Booklet Pakistan WHO 2019.pdf

Baby friendly Hospital Initiative: <u>https://www.who.int/elena/titles/bbc/implementation_bfhi/en/</u> Infant and Child Feeding:

https://www.who.int/news-room/fact-sheets/detail/infant-and-young-child-feeding

Shakir's Tape or Midupper arm circumference:

tape:https://www.unicef.org/supply/media/1421/file/mid-upper-arm-circumference-measuring-tapestechnical-bulletin.pdf

Forensic Medicine:

https://worldofmedicalsaviours.com/textbook-of-forensic-medicine-and-toxicology-by-nageshkumar-rao-pdf-free-download/

Punjab Forensic science agency (PFSA) Guidelines: https://pfsa.punjab.gov.pk/guidelines for evidence

9.4 ARTICLES:

Community Medicine:

Moore ML. Breastfeeding Benefits Support -Research. Sci J of Gyne and Obste 2018; 1(1): 001-002 Zubin G, Looi E. Protein Energy Malnutrition. Pediatric clinics of North America 2009; 56: 1055-68. 10.1016/j.pcl.2009.07.001.

AYUB MEDICAL COLLEGE, ABBOTTABAD

Department of Medical Education

Time Table 4th Year MBBS

Class Session 2024

Block-L: (Endocrine & Reproduction-II Module)

Hours allocation of disciplines

S. No	Subject	Hours allocated
1	Pathology	26(LGDs)+12(SGDs)=38
2	Community medicine	22(LGDs)+8(SGDs)=30
3	Medicine	19(LGDs)
4	Pharmacology	13(LGDs)+4(SGDs)=17
5	Forensic medicine	12(LGDs)+4(SGDs)=16
6	Research*	14**
7	Gynaecology	06(LGDs)
8	Surgery	05(LGDs)
9	Pediatrics	03(LGDs)
10	Family medicine	03(LGDs)
11	PRIME/MEDICAL EDUCATION	02(LGDs)
12	Physiology	01(LGD)
13	Urology	01(LGD)
14	Neurosurgery	01(LGD)
15	Radiology	01(LGD)
	Total	115(LGDs)+28(SGDs)=143

* two hours per week for research project in the whole academic session

**these hours are neither included in total hours nor in assessment as separate marks have been allotted

to research in viva

10 Timetable

AYUB MEDICAL COLLEGE, ABBOTTABAD Endocrinology & Reproduction II, Block L, 4th Year MBBS Class Session 2024

Day	8:00am-9:00 am	9:00am-10:00 am	10:0	12:00pm-12:45pm	12:4	1:15pm-	2:00pm-
			0am		5pm	2:00pm	3:00pm
			- 12:0		- 1:15		
			12:0 0pm		1:15 pm		
Mon	Pathology	Medicine	opin	Community Medicine	рш	Practical work	
WIGH		LGIS:L1		LGIS:L1		Pharm/ EPI sch	
	Pit Anat/Physio	Acromegaly &		Occ Health intro		Vaccination ar	
		Hyperprolactinemi		Dr Zeeshan		immunization	
		a				Tetanus Toxid	e
Tues	Pharmacology	Pathology		Medicine		Practical work	
	LGIS:L1	LGIS:L2		LGIS:L2		Pharm/ EPI sch	nedule
	GH &	Hypopitutarism		Hypopituitarism		Vaccination ar	nd
	Antagonists				eak	immunization	
	Dr. Jamila Sahir				br	Tetanus Toxid	e
Wed	Paediatrics	Community	Hospital Wards	Pathology	Prayer break	Research/Path	l
	LGIS:L1	Medicine	Ň	LGIS:L3	Pra		
	Short stature	LGIS:L2	ital	Hyperpitutarism			
		Physical Hazard	osp				
		Dr Zeeshan	H				
Thurs	Community	Neurosurgery		Med Edu		Research/Path	1
	Medicine	LGIS:L1		LGIS			
	LGIS:L3	Pituitary Adenoma		Dealing with patients			
	Chemical Hazard						
	Dr Zeeshan						
Fri	Physiology	Community		Pharmacology	Half D	ау	
	LGIS:L1	Medicine		LGIS:L2			
	Thyroid	LGIS:L4		Thyroid Hormones			
		Mech hazard		Dr. Afsheen			
		Dr Zeeshan					

	AYUB MEDICAL COLLEGE, ABBOTTABAD								
	Endocrinology & Reproduction II, Block L, 4 th Year MBBS								
	Class Session 2024								
Day	8:00am-9:00 am	9:00am-10:00 am	10: 00a m- 12: 00p	12:00pm-12:45pm	12:4 5pm - 1:15 pm	1:15pm- 2:00pm	2:00pm- 3:00pm		
Mon	Pathology LGIS:L4 Hyperthyroidism	Medicine LGIS:L3 Hyperthyroidism	m	Community Medicine LGIS:L5 Animal Hazard		Practical work Demographic /Path goitre			
Tues	Pharmacology LGIS:L3 Antithyroid drugs Dr. Afsheen	Community Medicine LGIS:L6 Social security Dr Zeeshan		Pathology LGIS:L5 Hypothyroidism	reak	Practical work Demographic /Path goitre			
Wed	Community Medicine LGIS:L7 Demo intro Dr. Sobia	Medicine LGIS:L4 Hypothyroidism	Hospital Wards	Paediatrics LGIS Cong hypothyroidism	Prayer break	Research/Path	1		
Thurs	Medicine LGIS:L4 Thyroiditis	Pathology LGIS:L5 Thyroiditis	Hos	Community Medicine LGIS:L8 Growth rate Dr. Sobia		Research/Path	<u>ו</u>		
Fri	Pathology LGIS:L5 Thyroid malignancies	Community Medicine LGIS:L9 Demo indi Dr. Sobia		Medicine LGIS:L4 Thyroid malignancies	Half D	ау			

		<u>AYUB MED</u>	ICAL CO	DLLEGE, ABBOTTAB	<u>AD</u>				
		Endocrinology & Re	eproduo	ction II, Block L, 4 th Y	ear MBB	<u>S</u>			
Class Session 2024									
Day	8:00am-9:00 am	9:00am-10:00 am	10:0 0am	12:00pm-12:45pm	12:45p m-	1:15pm- 2:00pm	2:00pm- 3:00pm		
			-		1:15p				
			12:0		m				
			0pm						
Mon	Medicine LGIS:L3 Hyper/hypo parathyroidism	Community Medicine LGIS:L10 IDD Dr. Zainab		Pathology LGIS DM		Practical work Pharm/Path g estimation	-		
Tues	Medicine LGIS:L3 DM	Paediatrics DM in children	Wards	Community Medicine LGIS:L11 DM prevention Dr. Zainab	Prayer break	Practical work Pharm/Path g estimation			
Wed	Pharmacology Insulin/glucagon Dr. Mehwish Gul	Pathology Pancreatic tumors	Hospital Wards	Medicine LGIS:L3 Hypoglycemic coma	- L	Research/Patl	h		
Thurs	Medicine LGIS:L4 ketoacidosis	Pharmacology Oral Hypoglycemics 1 Dr. Adeel Alam		Medicine SIADH		Research/Patl	h		
Fri	Pharmacology Oral Hypoglycemics 2 Dr. Adeel Alam	Physiology Adrenal cortex		Pathology Hypercortisolism	Half Day				

AYUB MEDICAL COLLEGE. ABBOTTABAD

Endocrinology & Reproduction II, Block L, 4 th Year MBBS Class Session 2024								
Day	8:00am-9:00 am	9:00am-10:00 am	10:0 0am - 12:0 0pm	12:00pm-12:45pm	12:4 5pm - 1:15 pm	1:15pm- 2:00pm	2:00pm- 3:00pm	
Mon	Medicine Hypercortisolism	Community Medicine LGIS:L12 Nutrition intro Macronutrients Dr. Zainab		Pathology LGIS Hyperaldosteronis m		Practical work IMCI- Shakir`s ta /Path aldosteroi antagonists	•	
Tues	Medicine LGIS:L3 Primary Hyperaldosteron ism	Community Medicine LGIS:L13 Micronutrients Dr. Zainab		Pathology LGIS Adrenal insufficiency	break	Practical work IMCI- Shakir`s ta /Path aldosteroi antagonists	•	
Wed	Pathology Adrenal neoplasms	Community Medicine LGIS:L14 Micronutrients 2 Dr. Zainab	Hospital ards	Medicine LGIS:L3 Adrenogenital syndrome	Prayer break	Research		
Thurs	Medicine LGIS:L4 Adrenal insufficiency	Pharmacology Glucocorticoid 1 Dr. Sumbal		Community Medicine LGIS:L15 Undernutrition Dr. Zainab		Research		
Fri	Medicine Adrenal neoplasms	Pathology Pheochromocytoma		Community Medicine LGIS:L16 Overnutrition Dr. Zainab	Half D	ay		

				ction II, Block L, 4 th Yea	-	<u>s</u>				
	Class Session 2024									
Day	8:00am-9:00 am	9:00am-10:00 am	10:0 0am - 12:0 0pm	12:00pm-12:45pm	12:4 5pm - 1:15 pm	1:15pm- 2:00pm	2:00pm- 3:00pm			
Mon	Medicine Pheochromocyto ma	Community Medicine LGIS:L17 Safe motherhood Dr. Rizwana		Pharmacology Glucocorticoids 2 Dr. Sumbal		Practical work Mother and c Growth chart				
Tues	Pharmacology Glucocorticoids Antagonists Dr. Sumbal	Community Medicine LGIS:L18 Antenatal/Post abortion care Dr. Rizwana	-	Gynaecology Anatomy of the reproductive tract	Prayer break	Practical work Moth health Growth chart	ner and child			
Wed	Family med Menstrual disorders Menopause	Community Medicine LGIS:L19 Family planning Dr. Sobia	Hospital Wards	Gynaecology Menopause	Pray	Research/Patl	1			
Thurs	Pharmacology Gonadotropins 1 Dr. Nisar	Family med Contraception		Community Medicine LGIS:L20 IMNCI Dr. Rizwana		Research/Patl	ו			
Fri	Community Medicine LGIS:L21 Prevention of reproductive health diseases Dr. Rizwana.	Pharmacology Gonadotropins 2 Dr. Nisar		Forensic Med Impotence and sterility Dr. Omair	Half D	ay				

AYUB MEDICAL COLLEGE, ABBOTTABAD

				DLLEGE, ABBOTTABAD	_				
		Endocrinology & R	eprodu	ction II, Block L, 4 th Ye	ar MBB	<u>S</u>			
Class Session 2024									
Day	8:00am-9:00 am	9:00am-10:00 am	10:0 0am	12:00pm-12:45pm	12:4 5pm	1:15pm- 2:00pm	2:00pm- 3:00pm		
			- 12:0 0pm		- 1:15 pm				
Mon	Forensic Med Sterilization Dr. Omair	Pharmacology Oxytocin Dr. Mehwish		Urology Causes of male infertility		Practical worl CM contracer Pap smear			
Tues	Forensic Med Artificial insemination Dr. Sadia	Gynaecology Polycystic ovary syndrome Uterine fibroids	ds	Pathology Testicular tumors	Prayer break	Practical worl CM contracep Pap smear	-		
Wed	Pathology Prostatic disorders	Forensic Med Virginity Dr. Salma Shazia	Hospital Wards	Surgery Cryptorchidism Hydrocele and varicocele	Praye	Research/Pat	h		
Thurs	Surgery BPH/Prostate Ca	Pathology STDs	-	Family Med Vaginal discharge and STDs		Research/Pat	h		
Fri	Forensic Med Pregnancy Dr. Salma Shazia	Pathology Introduction to gynecological cancers		Gynaecology Endometrial cancers Cervical carcinomas	Half D	ау			

AVUR MEDICAL COLLEGE ABBOTTABAD

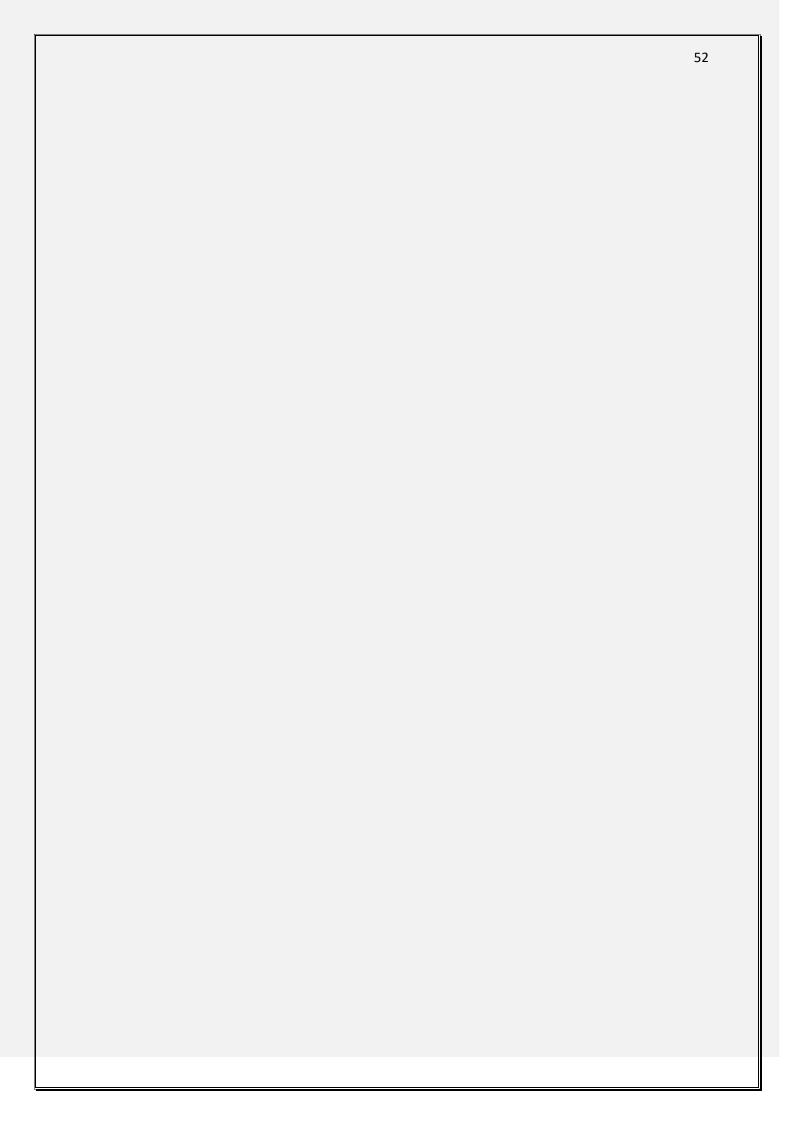
	<u>I</u>			DLLEGE, ABBOTTABA	_	<u>s</u>				
Class Session 2024										
Day	8:00am-9:00 am	9:00am-10:00 am	10:00 am- 12:00 pm	12:00pm-12:45pm	12:4 5pm - 1:15 pm	1:15pm- 2:00pm	2:00pm- 3:00pm			
Mon	Pathology Endometritis Uterine fibroids Endometriosis	Forensic Med Delivery Dr. Salma Shazia		Gynaecology Contraception		Practical work Forensic Med fibroids				
Tues	Forensic Med Legitimacy & dissolution of marriage Dr. Salma Shazia	Pathology Endometrial hyperplasia and endometrial carcinoma	σ	Pharmacology Contraceptives Dr. Saima Bukhari	break	Practical work Forensic Med Fibroids				
Wed	Forensic Med Natural sexual offences: Rape & Incest Dr. Salma Shazia	Pathology Polycystic ovarian disease	Hospital Wards	Gynaecology Causes of female infertility	Prayer break	Research/				
Thurs	Pathology Polycystic ovarian disease	Forensic Med Zina Dr. Salma Shazia		SDL		Research/				
Fri	Forensic Med Unnatural sexual offences Sodomy	Pathology Tumors of the ovary		SDL	Half D	ay				

				JLLEGE, ADDUTTAD					
Endocrinology & Reproduction II, Block L, 4 th Year MBBS									
Class Session 2024									
Day	8:00am-9:00 am	9:00am-10:00 am	10:00a m- 12:00p m	12:00pm-12:45pm	12:45p m- 1:15p m	1:15pm- 2:00pm	2:00pm- 3:00pm		
Mon	Forensic Med Sexual perversions Dr. Inayat	Prime/Med edu Counselling- Breaking bad news		Community Med Breast feeding Screening and prevention of breast cancer Dr. Zainab	Prayer break	Practical work Forensic Med /Path Ca breas	sodomy		
Tues	Forensic Med Abortion Dr. Salma Shazia	Pathology Fibrocystic changes		Surgery Investigations of breast diseases Benign breast diseases		Practical work Forensic Med /Path Ca breas	sodomy		
Wed	Pathology Carcinoma of the breast Gynecomastia	Surgery Malignant breast diseases		Radiology Radiological approaches to breast cancer screening		Research			
Thurs	SDL	SDL		SDL		Research			
Fri	SDL	SDL		SDL	Half Day				

AYUB MEDICAL COLLEGE, ABBOTTABAD



Please contact Dr. Adnan Rasheed(0333-9974207) Module Coordinator dr.adnanrashid@gmail.com



12 Course Feedback Form

Course Title:										
Semester/Module Dates:										
Please fill the short questionnaire to make the course better.										
Please respond below	with 1, 2, 3, 4 or 5, where 1 and	5 are explained.								
THE DESIGN OF THE M	10DLUE									
Were objectives of the	e course clear to you? Y	N								
The course contents m	net with your expectations		_							
I. Strongly disagree 5. Strongly agree										
The lecture sequence	was well-planned		_							
I. Strongly disagree 5. Strongly agree										
The contents were illu	strated with		_							
I. Too few examples	5. Adequate examples									
The level of the course was										
I. Too low 5. Too	high									
The course contents co	ompared with your expectations	5	_							
I. Too theoretical	5. Too empirical									
The course exposed yo	ou to new knowledge and praction	ces	-							
I. Strongly disagree	5. Strongly agree									
Will you recommend t	his course to your colleagues?									
I. Not at all 5. Very	<i>i</i> strongly									
THE CONDUCT OF THE	MODILIE									
	r and easy to understand									
I. Strongly disagree										
The teaching aids were	·									
I. Strongly disagree	5. Strongly agree anded out was adequate									
I. Strongly disagree										
	aged interaction and were help	ful								
I. Strongly disagree										
. Strongly uisagree	J. Julongry agree									

Were objectives of the course realized? Y N

Please give overall rating of the course

90% - 100%	()	60% - 70%	()
80% - 90%	()	50% - 60%	()
70% - 80%	()	below 50%	()

Please comment on the strengths of the course and the way it was conducted.

Please comment on the weaknesses of the course and the way it was conducted.

Please give suggestions for the improvement of the course.

Optional – Your name and contact address:

Thank you!!