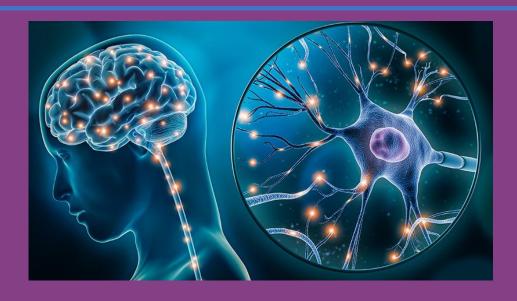
SWAT MEDICAL COLLEGE SWAT

DEPARTMENT OF MEDICAL EDUCATION



MODULE NEUROSCIENCE II



4TH YEAR MBBS

BLOCK: 1

DURATION: 8 WEEKS

FROM:

STUDENT NAME

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1 Acaedemic Calendar

				Calendar MBBS – 2023-24 ical College, Swat			
Activity/ Events	Week	Date	1 st Year	2 nd Year	3 ^{ra} Year	4 ⁱⁿ Year	5 th Year
Orientation Week	1	12th to 16th Feb					
Regular Classes	2	19th to 23rd Feb			Foundation II		Previous 5 th Year
Regular Classes	3	26th Feb to 1st March	Foundation I (6 weeks)	Neurosciences-IA (6 weeks)	(5 weeks) 22 nd March, Module	Neurosciences – II (6 weeks) 25 th and 26 th March Block J Exam	Preparatory leaves and annual exam
Regular Classes	4	4th to 8th March	22 nd March, Module	22 nd March, Module	Exam		
Regular Classes	5	11th to 15th March	Exam	Exam			Foundation-III
Regular Classes	6	18th to 22nd March					(2 weeks) 22 rd March Module Exam
Regular Classes	7	25th to 29th March			Infection &		Blood & Immunology-III
Regular Classes	8	1 st to 5 th April	Blood & Immunology		Inflammation		(2 weeks) 5 th April Module Exam
Spring Break/Eid ul Fitr	9	8th to 12th April	(5 Weeks)	Neurosciences-IB	(6 weeks) 6th May to 7th May Block		MSK-III
Sports Week	10	15th to 19th April	6th & 7th May Block A exam	(5 weeks) 13th & 14th May Block D	G exam	GIT and Hepatobiliary	(2 weeks)
Regular Classes	11	22 nd to 26 th April	exam	13" & 14" May Block D		-II	06th & 07th May Block N
Regular Classes	12	29th to 3rd May				(9 weeks) 10th and 11th June Block	exam
Regular Classes	13	6th to 10th May			Multisystem	K Exam	Cardiorespiratory-III
Regular Classes	14	13th to 17th May			(5 weeks)		(5 Weeks)
Regular Classes	15	20th to 24th May	Marian		Module Exam 31 st May		3 rd & 4 th June Block O Exam
Regular Classes	16	27th May to 31st May	MSK-I (8 weeks)	GIT, Hepatobiliary &			Renal- III Module
Regular Classes	17	3rd to 7th June	1st & 2nd July Block-B	Metabolism-	DI 10: 1		(2 weeks)
Regular Classes	18	10th to 14th June	Exam	(8 weeks) 1st & 2st July	Blood & immunology (3 weeks)	Renal – II Module	14th June Module Exam
Eid-ul-Adha Holidays	19	17th to 21th June			1 st & 2 nd July module exam		Endocrine & Reproduction-III
Regular Classes	20	24th to 28th June					(3 weeks)
Summer Vacations Regular Classes	21-23	3rd to 21rd July 22rd to 26th July		Renal			29th & 30th July Block P
Regular Classes	25	29th July to 2nd Aug	CVS.I (5 weeks) 23 rd August Module Exam	(3 weeks) 12th to 13th August Block	MSK-II (5 weeks) 2 nd Sep 3 nd Sep Block H exam CVS-II (3 weeks)	Endocrine and Reproduction – II (8 weeks) 16th and 17th September Block-L exam EYE and ENT (6 weeks) 14th 18th Uct Elock M1	Exam Neurosciences – III
Regular Classes	26	5th to 9th Aug					(3 weeks)
Regular Classes	27	12th to 16th Aug					16th August Module
Regular Classes	28	19th 23rd Aug	CXMIII	Endocrine-I			Exam
Regular Classes	29	26th to 30th Aug		(4 weeks)			GIT & Hepatobiliary (2 weeks)
Regular Classes	30	2 nd to 6 th Sep	Respiratory-I	6th Sep			6th Sep Module Exam
Regular Classes	31	9th to 13th Sep	. (4 weeks) 23rd -24th SEP	Department of 1			
Regular Classes	32	16th to 20th Sep	Block-C Exam	Reproduction-I (4 weeks)	20 th September Module exam		Multisystem-II (4 weeks)
Regular Classes/ Preparatory Leaves	33	23rd to 27th Sep		30th Sep 1st Oct	RESJI		7th -8th Oct Block Q
Regular Classes/ Preparatory Leaves	34	30th Sep to 4th Oct			(4 weeks)	M2 Exam	CAGIII
Regular Classes/ Preparatory Leaves	35	7th to 11th Oct	PREPARATORY		21 st and 22 nd October	& NIZ EXAIII	
Regular Classes/ Preparatory Leaves	36	14th to 18th Oct	LEAVES	DDCD+D4TODY	Block L exam		
Regular Classes/ Preparatory Leaves	37	21st to 25th Oct		PREPARATORY LEAVES			
Regular Classes/ Preparatory Leaves	38	28th Oct to 1st Nov		LEAVES			
Regular Classes/ Preparatory Leaves	39	4th to 8th Nov					
Regular Classes/ Preparatory Leaves	40	11th to 15th Nov			PREPARATORY	DDEDARATORY	DDED 1 2 1 7 2 2 1
Regular Classes/ Preparatory Leaves	41	18 th to 22 nd Nov			LEAVES	PREPARATORY LEAVES	PREPARATORY LEAVES
Regular Classes/ Preparatory Leaves	42	25th to 29th Nov	Annual Exam as per KMU schedule.	Annual Frances		LEAVES	LEAVES
Regular Classes/ Preparatory Leaves	42	2 nd to 6 th Dec	KWO Schedule.	Annual Exam as per KMU			
Regular Classes/ Preparatory Leaves	43	9th to 13th Dec		KWU			
Regular Classes/ Preparatory Leaves	44	16th to 20th Dec					
Regular Classes/ Preparatory Leaves	45	23 rd to 27 th Dec			Annual Exam as per		
Regular Classes/ Preparatory Leaves	46-49	November 2024			KMU schedule.		
Regular Classes/ Preparatory Leaves	50-53	December 2024	Winter vacation	Winter vacation			
Regular Classes/ Preparatory Leaves	54-57	January 2025			Winter vacation	Annual Exam as per KMU schedule.	
Start of new acad	emic sessi	on 2025-26	February 2025	February 2025	February 2025	February 2025	March 2025

Note: The given dates are tentative and may be subject to change as needed/demanded. The KMU will share the annual exam schedule at the end of the current session.

2 List Of Abbrevation

PRIME	Professionalism and Communication Skills, Research, Identity Formation, Management and Leadership, Ethics					
Pharma-L	Pharmacology Lecture	SGD	Small Group Discussion			
Pead-L	Peadiatrics	DSL	Directed Self Learning			
C.M-L	Community Medicine Lecture	CPC	Clinical Pathological Conference			
Med-L	Medicine Lecture	LGIS	Large Group Interactive Session			
Neuro-L	Neurosurgery Lecture	PBL	Problem Based Learning			
F.M-L	Forensic Medicine Lecture	SL	Skill Lab			
Ortho-L	Orthopaedics Lecture	MCQs	Multiple Choice Questions			
M.E-L	Medical Education Lecture	OSPE	Objectively Structured Practical Examination			
Patho-L	Pathalogy Lecture	SAQs	Short Answer Questions			
SGDs	Small Group Discussions	SEQs	Short Essay Questions			
IPA						

3 Module Committee:

s.no	Name	Department	Role		
1.	Prof. Dr. Aziz Ahmad	Dean / principal			
2.	Dr. M Junaid Khan	DME	Director		
		Module Team			
3.	Prof.Dr.Imran Uddin	Pathology	Chairman		
4.	Dr.Mohammad Munib	Community Medicine	Coordinator		
5.	Prof.Dr.Qaribullah	Community Medicine	Member		
6.	Prof.Dr. Mukamil Shah	Pathology	Member		
7.	Dr. Shabir Ahmad	Pathology	Member		
8.	Dr. Rahman Shah	Pharmacology	Member		
9.	Dr. Mohammad Younas	Forensic Medicine	Member		
10.	Dr. Siyab Ahmad	Pathology	Member		
11.					



Recommended List Of Icons



Introduction To Case



For Objectives



Critical Questions



Assessment



Resource Material

4 Mission/ Vision of the College

4.1 Mission Statement of the Institution:

To train medical students as per international standards, thereby producing doctors who exhibit excellence as professionals, academicians, researchers and adeptly fulfilling community healthcare needs through the application of ethical and evidence-based practices.

4.2 Vision Statement of the Institution:

To be a center of excellence in medical education, patient care and research globally.

5 Overview of the Module/ Preface

Welcome to the MBBS program/Module Neuroscience II, where the overarching goal is to equip students with a profound understanding of medical science and practice. Throughout the curriculum/module Neuroscience II, emphasis is placed on integrating theoretical knowledge with practical applications, ensuring a comprehensive educational experience. The core themes of modules, including Disturbed sleep, Disturbed mood & behavior, Right-sided weakness and inability to speak, Loss of consciousness and Fits, Tremors, Headache, Paraplegia, and Numbness and tingling are meticulously designed to foster a deep understanding of, Psychiatry, Forensic Medicine, Anesthesia, Pediatrics, pathology, pharmacology, Biostatistics, Epidemiology and clinical skills.

Students will gain hands-on experience through through clinical rotations in diverse settings such as Skill lab, interactive lectures and SGD providing a well-rounded education in diverse settings providing a well-rounded education.

The study guide serves as a crucial reference for assessment and evaluation. It outlines the components that will be assessed, such as knowledge and basic sciences practical implications, and the corresponding assessment tools, which include MCQs, SEQ, OSCE and OSPE. This transparency enables students to align their efforts with the evaluation criteria, promoting a sense of accountability and preparation for success in their academic pursuits. As future medical professionals, graduates can look forward to diverse career pathways, from clinical practice to research, with opportunities in Epidemiology and Biostatistics.

In essence, the study guide acts as an indispensable tool for students, offering clarity on module contents, instructional methodologies, faculty guidance, and assessment criteria. By actively engaging with the information provided, students can navigate their academic journey with confidence and purpose, maximizing their learning experience in the MBBS Program.

6 Introduction/ Organization of Module

6.1 Introduction:

Module Neuroscience II is a comprehensive module designed for 4th-year MBBS students to provide a multidisciplinary approach to understanding the etiology of neurological and mental disorders. The module aims to equip students with the knowledge and skills to describe anxiety disorders and their pharmacological management. Additionally, it focuses on explaining concepts related to various neurological problems, offering an in-depth understanding of their etiology. Moreover, this module introduces students to the practical aspects of managing mental and neurological disorders. The scope of Neuroscience II content encompasses anxiety disorders, pharmacological management, and understanding the underlying factors contributing to these conditions. Through this module, students will gain a deeper understanding of the various neurological disorders and their underlying pharmacological interventions, which will significantly contribute to their medical education and practice. Biostatistics, Epidemiology, and Research Methodology provide the necessary tools and skills for students to engage in meaningful research, analyze neuroscientific data, and contribute to evidence-based medical practice in the field of neurology and neuroscience. These disciplines empower students to critically evaluate scientific literature, design research studies, and apply statistical methods to enhance their understanding of neurological disorders and their management.

6.2 Rational:

The rationale behind the Neuroscience Module lies in providing 4th-year MBBS students with a profound understanding of the nervous system, a fundamental pillar in clinical medicine. Recognizing the pivotal role of neurology in healthcare, this module aims to equip students with comprehensive knowledge and skills to diagnose, manage, and understand neurological disorders. The module integrates basic neuroscience principles with clinical applications, ensuring that students can bridge theoretical knowledge with practical clinical scenarios.

6.3 Organization of the Study guide:

6.3.1 Curriculum Overview:

- Neuroanatomy: Detailed study of the structure of the brain, spinal cord, and peripheral nerves.
- Neurophysiology: Understanding the principles of neuronal communication, neurotransmitters, and synaptic transmission.
- Clinical Correlation: Linking anatomical structures to clinical presentations and manifestations of neurological disorders.
- Neurological Disorders: Exploration of common neurological conditions, including their pathophysiology and clinical features.
- Neuroimaging and Diagnosis: Introduction to neuroimaging techniques and their applications in diagnosing neurological disorders.
- Research Methodology and Biostatistics: Basics of research design, data analysis, and ethical considerations in neuroscience research.

6.3.2 Teaching Resources:

- Lectures and Tutorials: Didactic sessions providing foundational knowledge.
- Practical Sessions: Hands-on dissections, clinical skill development, and neuroimaging interpretation.
- Clinical Attachments: Exposure to real-life neurological cases and patient interactions.

6.3.3 Assignments and Assessments:

- Examinations: Written and practical assessments covering neuroanatomy, clinical skills, and theoretical knowledge.
- Clinical Assessment: Evaluation of neurological examination skills and patient interactions.
- Research Project or Presentation: Integration of research skills through a project or presentation.

6.4 Teaching Strategies:

LEARNING METHODOLOGIES:

The following teaching / learning methods are used to promote better understanding:

- Interactive Lectures
- Small Group Discussion
- Case- Based Discussion (CBD)
- Clinical Experiences o Clinical Rotations
- Skills session
- Self Study

INTERACTIVE LECTURES: In large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

SMALL GROUP SESSION: This format helps students to clarify concepts, acquire skills or desired attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self study. The facilitator role is to ask probing questions, summarize, or rephrase to help clarify concepts.

CASE-BASED DISUCSSION (CBD): A small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students' discuss and answer the questions applying relevant knowledge gained previously in clinical and basic health sciences during the module and construct new knowledge. The CBD will be provided by the concern department.

CLINICAL LEARNING EXPERIENCES: In small groups, students observe patients with signs and symptoms in hospital wards, clinics and outreach centers. This helps students to relate knowledge of basic and clinical sciences of the module and prepare for future practice.

o **CLINICAL ROTATIONS:** In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs & Gyne, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also

get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

SKILLS SESSION: Skills relevant to respective module are observed and practiced where applicable in skills laboratory.

SELF STUDY: Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self study.

6.5 Assessment strategies

6.5.1 Formative Assessments:

- Regular quizzes, short assessments, and group discussions to gauge ongoing understanding.
- Feedback on practical skills during dissections and clinical skill sessions

6.5.2 Summative Assessments:

- Comprehensive written examinations covering the entire module content.
- Practical assessments evaluating neuroanatomy dissection skills and clinical examination competence.
- Research project or presentation as a summative assessment for research and critical appraisal skills

6.6 Feedback mechanism and summary

6.6.1 Continuous Feedback:

- Immediate feedback during practical sessions to enhance skill development.
- Regular review sessions after formative assessments to address common challenges and misconceptions.

6.6.2 Assessment Feedback:

- Detailed feedback on written examinations to guide further study.
- Individualized feedback on clinical assessments to highlight strengths and areas for improvement

6.7 Summary:

The Neuroscience Module is designed to provide a comprehensive and immersive learning experience. Through a structured curriculum, a variety of teaching strategies, and a diverse assessment approach, the module aims to produce well-rounded medical professionals equipped with the knowledge and skills necessary to navigate the complex landscape of neurology. Continuous feedback mechanisms ensure that students receive timely guidance and support, fostering a culture of continuous improvement and excellence in neurological understanding and practice

7 Table Of Specification

		No.	D	A	ssessment	
Subject	Vej		Pe ist	IPA		
	Weightage	No. of Hours allocated in SG	Percent Distribution	OSPE/ OSCE	Viva	MCQs
Pathology	16%	24	17.267%	2	2	21
Pharmacology	14%	22	15.827%	3	2	19
Forensic medicine	13%	20	14.388%	2	2	17
Community medicine	23%	36	25.899%	3	2	31
General medicine	7%	12	8.633%	1	X	10
Psychiatry	7%	10	7.194%	1	X	9
Pediatrics	3%	5	3.597%	X	X	4
Neurosurgery	1%	2	1.438%	X	X	2
Orthopedics	1%	1	0.719%	X	X	1
Anaesthesia	2%	4	2.87%	X	X	3
Prime/Medical Education	1%	2	1.438%	X	X	2
Prime/Research	11%	16	16.719%	X	X	14
Family medicine	1%	1	0.719%	X	X	1
TOTAL	100	139	100	12	8	134



8 Learning Objectives

8.1 General Learning Outcomes

By the end of this module the students would be able to;

- 1. Describe anxiety disorders and their pharmacological management
- 2. Explain the concepts of Mood disorders and their pharmacological management
- 3. Explain psychotic disorders and their pharmacological management
- 4. Describe the pathophysiology and management of Dementias
- 5. Elaborate the pathophysiology, clinical features, management, and prevention of cerebrovascular diseases
- 6. Classify epilepsy and describe the pharmacological management of epilepsy in children and adults
- 7. Describe the types and protocols of anaesthesia and explain the drugs used as anaesthetics
- 8. Explain the pathology and clinical features of cerebellar diseases
- 9. Elaborate the clinical features and pharmacological management of Parkinson's disease
- 10. Explain the clinical features and management of Motor neuron disease and Friedrich's ataxia
- 11. Describe the pathology and management of head injury
- 12. Describe the pathogenesis, clinical features, and management of common CNS infections
- 13. Classify brain, spinal cord and peripheral nerves tumors, and describe their clinical features and management
- 14. Explain the pathophysiology, clinical features, investigations and management of Multiple sclerosis, transverse myelitis and
- i. Guillain Barre syndrome
 - 15. Classify peripheral neuropathies and elaborate their etiologies and clinical presentations
- 16. Explain the clinical features and forensic approach to a patient with neurotoxic poisons.
- 17. Explain the forensic aspects of insanity and head injury.
- 18. Skillful in History taking and Physical examination to compassionately deal with a patient.
- 19. Display professional values (honesty, accountability, cultural and religious sensitivity), attitudes and behaviors (empathy, ethics, good communication skills and lifelong learner) that embody good medical practice.
- 20. Exhibit a spirit of inquisitiveness, inventiveness, and ethical conduct while carrying out research in accordance with the prescribed guidelines

Table 1: Thematic Distribution

S.	Theme	Duration in days
No		
1	Disturbed sleep	5
2	Disturbed mood & behaviour	5
3	Right-sided weakness and inability to speak	3
4	Loss of consciousness and Fits	5
5	Tremors	2
6	Headache	5
7	Paraplegia	2
8	Numbness and tingling	3

Subject	Topic	Learning Objectives	Hou rs	MIT					
	Theme-1: Disturbed sleep								
Psychiatry	Sleep disorders	Describe the types of sleep disorders Explain the pharmacological and non-pharmacological management of sleep disorders Describe the ways of improving healthy sleep	3	Lecture					
	Non-organic insomnia	Define non-organic insomnia Explain the management of non-organic insomnia							
	Sleep wake cycle disorders	Describe the concept of sleep-wake cycle disorder Describe the pharmacological and non-pharmacological management of sleep-wake wake cycle disorder							
Pharmacology	Introduction to the Pharmacology of CNS	Describe basic terms like neurotransmitters, neuromodulator/neurotropic factors, withdrawal symptoms (abstinence syndrome), cross-tolerance, reverse tolerance (sensitization) and cross-dependence Describe the blood-brain barrier and its clinical significance Enlist the principal neurotransmitters and their receptors in the CNS Describe voltage-gated, ligand-gated (ionotropic), ion channels and metabotropic receptors on the neuronal membrane Classify the drugs acting on the CNS	5	Lectures					
	Sedative- hypnotics (Minor tranquilizers) Benzodiazepine	Classify broadly the Sedative-Hypnotics Classify Benzodiazepines Describe the pharmacokinetics of							
		Benzodiazepines Describe the mechanism of action of Benzodiazepines Describe the pharmacological effects of Benzodiazepines Describe the clinical uses of Benzodiazepines Describe the adverse effects of Benzodiazepines							

		Describe the tolerance and		
		dependence on Benzodiazepines		
		Describe the drug interactions of		
		Benzodiazepines		
		Name the antidote (competitive		
		antagonist) to Benzodiazepines		
		Enlist the inverse agonists to		
		Benzodiazepines		
	Barbiturates	Classify barbiturates		
	Daronarates	Describe the mechanism of action		
		and clinical uses of barbiturates		
		Describe the difference regarding the		
		mechanism of action of Barbiturates		
		in comparison to Benzodiazepines		
	Buspirone	Describe the mechanism of action		
	Buspirone	and clinical use of Buspirone		
		Describe the merits and demerits of		
		Buspirone in comparison to		
		Benzodiazepines		
	Ramelteon	Describe the mechanism of action		
		and clinical use of Ramelteon		
	CNS stimulants	Classify CNS stimulants		
	Psychomotor	Describe the mechanism of action,		
	stimulants	clinical uses, and adverse effects of		
	(Amphetamine,	Psychomotor stimulants		
	Methylphenidat	-		
	e)			
	Respiratory	Describe the mechanism of action,		
	analeptics	clinical uses and adverse effects of		
	(Doxapram,	Respiratory analeptics		
	Nikethamide)			
	Methyl	Describe the mechanism of action,		
	xanthine/Theop	clinical uses and adverse effects of		
	hylline,	Methyl xanthine		
	Caffeine,			
	Theobromine)			
	Sibutramine	Describe the mechanism of action		
		and clinical use of Sibutramine		
Forensic	Classification	Define and classify neurotoxins	4	Lectures
Medicine	of neurotoxins			
	Cerebral	Describe and enlist Somniferous		
	Poisons-	poison.		
	Somniferous	Describe the mechanism of action for		
	Poisons	the Somniferous poison.		
	Morphine	Describe different signs, symptoms		
	• Opium	and autopsy appearance in a typical		
	Heroin	of Somniferous poisons.		
		Describe fatal dose, treatment, and		
		diagnosis for the Somniferous		
		poisons.		
	J	1 1	1	1

		D 11 11 1 1 1		
		Describe medico-legal importance		
	In abui ant	for the Somniferous poisons.		
	Inebriant	Describe and enlist Inebriant poison.		
	Poisons	Describe mechanism of action for the		
	• Ethyl	Inebriant poison.		
	Alcohol	Describe different sign, symptoms		
	• Methyl	and autopsy appearance in a typical		
	Alcohol	of Inebriant poisons.		
		Describe fatal dose, treatment, and		
		diagnosis for the Inebriant poisons.		
		Describe medico-legal importance		
		for the Inebriant poisons.		
	Sedative &	Describe and enlist sedative and		
	Hypnotics	hypnotics		
	 Chloral 	Describe mechanism of action for the		
	hydrate	Sedative and hypnotics.		
	 Barbiturates 	Describe different sign, symptoms		
		and autopsy appearance in a typical		
		of Sedative and hypnotics.		
		Describe fatal dose, treatment, and		
		diagnosis for the Sedative and		
		hypnotics.		
		Describe medico-legal importance		
		for the Sedative and hypnotics.		
	Fuels,	Describe and enlist fuels, stimulants		
	stimulants and	and hallucinogens.		
	hallucinogens	Describe mechanism of action of		
	Agrochemic	fuels, stimulants and hallucinogens.		
	al poisons	Describe different sign, symptoms		
	 Kerosene 	and autopsy appearance in a typical		
	Hallucinoge	case of fuels, stimulants and		
	ns- LSD	hallucinogens poisoning.		
	• Stimulants-	Describe fatal dose, treatment, and		
	Amphitami	diagnosis of fuels, stimulants and		
	nes	hallucinogens.		
		Describe medico-legal importance of		
		fuels, stimulants and hallucinogens.		
	Drug	Describe Drug dependence and its		
	Dependence	psychological effects.		
		Describe drug abuse and outline the		
		procedure to investigate a case due to		
	T ' 1	narcotics.	1	Т .
PRIME/MEDIC	Emotional	Explain the concept of EI	1	Lectures
AL	intelligence	Differentiate between EQ and IQ		
EDUCATION	(EI)	Describe & Display appropriate		
DDIME/DECEA	Enidemi-1	emotional and social intelligence	1	Laster
PRIME/RESEA	Epidemiology	Define epidemiology	1	Lectures
RCH		Explain the basic concepts of		
	Ctudy docion	epidemiology		
	Study design	Classify and elaborate study designs		
	Screening	Explain the screening in		
		epidemiology		

		mortality a	of nd	Explain the measures of morbidity and mortality		
		morbidity				
	T	heme 2: I	Dis	turbed mood & behaviou	ır	
Psychiatry (mood anxiety disorders	and	Depressive disorders		Classify depressive disorders Describe the etiology, clinical features and management protocols of different depressive disorders	6	Lectures
		Atypical depression as seasonal affective disorder	nd	Describe the clinical presentation of atypical depression Recognize the symptoms of atypical depression Describe the management of atypical depression and seasonal affective disorders		
		Bipolar affective disorders Suicide		Describe the clinical features and management protocols of Bipolar affective disorders Describe the preventive measures of suicide		
		Anxiety disorders	-	Classify anxiety disorders Differentiate between medical and psychiatric causes of anxiety Differentiate between anxiety and phobia Describe the pharmacological and non-pharmacological management of		
		Dissociative disorders	_	different anxiety disorders including relaxation techniques and breathing exercises Explain the different behavioral and neurological presentations of dissociative disorders Describe the pharmacological and non-pharmacological management of dissociative disorders		
		Stress related disorders	ed	Classify stress related disorders Explain the concept of stress in stress related disorders Explain the pharmacological and non-pharmacological management of stress related disorders		
		Somatoform disorders	-	Classify somatoform disorders Describe the concept of medically unexplained symptoms Counsel a patient with medically unexplained symptoms		
Psychiatry (Psychotic illnesses)		Personality disorders	-	Classify personality disorders Describe the clinical features, diagnostic criteria and management of personality disorder	2	Lectures

	D 1 1	I TO CO.		
	Psychotic	Differentiate between organic and		
	disorders	non-organic psychosis		
		Explain the concept of psychosis		
		Classify psychotic disorders		
	Schizophrenias	Describe the clinical features,		
		diagnostic criteria and management		
		of Schizophrenias		
		Explain the role of psychotherapy		
		and Electroconvulsive therapy in		
		Schizophrenias		
		Describe the rehabilitations strategies		
		with patients of Schizophrenias		
	Delusional	Describe the types and management		
	disorders	of delusional disorders		
		Describe the ways of differentiating		
		delusional disorders from		
		Schizophrenias		
	Substance	Describe the concept of drug		
	abuse disorders	dependence		
		Classify of drug abuse		
		Describe the principles of		
		management of substance abuse		
		Explain the concept of harm		
		reduction		
General	Alzheimer`s	Explain the pathophysiology, clinical	1	Lecture
Medicine	disease and	features and management of		
	Dementias	Alzheimer`s disease		
		Describe the reversible and		
		irreversible causes of Dementia		
Pharmacology	Depression	Describe the Monoamine hypothesis	8	Lectures
		of depression		
	Antidepressants	Classify antidepressants		
	CODI	E II - GGDI		
	SSRIs	Enlist SSRIs		
	(Selective			
	Serotonin			
	Reuptake			
	Inhibitors)	Enlist the many 1 of CCD1		
		Enlist the most selective SSRIs		
		Describe the pharmacokinetics,		
		mechanism of action, clinical uses,		
		adverse effects and drug interactions		
	TCAs	of SSRIs		
	TCAs	Enlist TCAs		
	(Tricyclic	Describe the mechanism of action,		
	Antidepressants	clinical uses, adverse effects and drug interactions of TCAs		
	MAOIs	Enlist MAOIs		
	(Monoamine Oxidase	Describe the pharmacokinetics, mechanism of action, clinical use,		
	Inhihitore)	I advarce attacts and drive intercetance		
	Inhibitors)	adverse effects and drug interactions of MAOIs		

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		Describe Serotonin syndrome	
		Describe Hypertensive Cheese	
		reaction	
		Describe St John's Wort	
		Describe the procedure of switching-	
		over from one category of	
		antidepressants to another one	
		Describe "Augmentation" of	
		antidepressant therapy	
		Describe Electroconvulsive Therapy	
		(ECT) for depression	
	Psychoses	Describe the Dopamine hypothesis of	
	(Schizophrenia	Schizophrenia	
	and others)	-	
	Antipsychotics	Classify Antipsychotics	
	(Anti-	Describe the advantages of Atypical	
	schizophrenic	antipsychotics over the Typical	
	drugs)	(Classical/Traditional/Old) agents	
	arugo)		
		Describe the mechanism of action of	
		Antipsychotics	
		Describe the pharmacological effects	
		of Antipsychotics	
		Describe the clinical uses of	
		Antipsychotics	
		Describe the drug interactions of	
		Antipsychotics	
		Describe the adverse effects of	
		Antipsychotics	
		Explain the drug treatment of	
		extrapyramidal syndrome	
	Bipolar	Describe the concept of "mood-	
	affective	stabilization" in Bipolar affective	
	disorder (Manic	disorder (Manic Depressive illness)	
	Depressive		
	illness)		
	Mood-	Enlist Mood-stabilizing drugs	
	stabilizing		
	drugs		
	Lithium	Describe the pharmacokinetics,	
	carbonate	mechanism of action, clinical uses,	
		adverse effects and drug interactions	
		of Lithium carbonate	
	Alcohols	Describe alcoholism	
	1110011015	Describe the pharmacokinetics of	
		Ethanol	
		Describe the mechanism of action of	
		Ethanol	
		Describe the pharmacological effects	
		of Ethanol	
		Describe the clinical uses of Ethanol	
			

	Describe the adverse effects of	
	Ethanol	
	Describe Disulfiram-like reaction	
	with example of drugs causing it	
	Describe the management of Ethanol	
	intoxication	
	Describe the management of Ethanol	
	withdrawal symptoms	
	Describe the treatment of alcoholism	
	Describe briefly Methanol poisoning	
	Describe the antidote for Methanol	
	poisoning	
Opioids	Differentiate between Opioids and	
(Morphine,	Opiates	
Diamorphine,	Describe the term "narcotic"	
Codeine,	Describe the source of Opium	
Pethidine,	Enlist the "brain's own Morphine"	
Methadone,	(endogenous Opioids)	
Pentazocine,	Classify Opioids	
Buprenorphine,	Enlist Opioids with mixed agonist-	
Dextromethorp	antagonist properties	
hane)	Enlist Opioids with partial agonist	
	activity	
	Describe the pharmacokinetics,	
	mechanism of action,	
	pharmacological effects, clinical	
	uses, adverse effects and drug	
	interactions of Opioids	
	Describe the use of opioids as	
	palliative care in terminal illness	
	Describe opioid rotation	
	Describe the treatment of Opioid	
	over dosage	
	Describe the Opioid antagonists	
	(antidotes)	
	Describe Opioid dependence	
	Describe the management of Opioid	
	dependence	
	Describe the contraindications of	
	Opioids	
	Enlist the drugs used for pain in	
	opioid addicts	
Tramadol	Describe the mechanism of action	
ъ	and clinical use of Tramadol	
Drugs of abuse	Describe substance abuse, drug	
	dependence, addiction and	
	habituation	
	Describe the Dopamine hypothesis of	
	addiction	
	Enlist the drugs causing addiction	
	Enlist the non-addictive drugs of	
	abuse	

	T	D '1 "C1 1 1 ''		
		Describe "Club drugs"		
		Enlist the drugs having high-risk of		
		addiction (scored 5 on the list of		
		relative-risk of addiction)		
		Enlist the drugs having moderate-risk		
		of addiction (scored 4 on the list of		
		relative-risk of addiction)		
		Describe the drug treatment of		
		Nicotine, Alcohol, Cannabis and		
		Opioid abuse		
		Describe the drug abuse in sports		
		with examples		
Forensic	Insanity and	Define insanity.	5	
Medicine	relationship to	Classify insanity and explain its sub-		
	criminal	types		
	charges	Describe relationship of insanity with		
		criminal charges.		
		Describe different pleas and its legal		
		exception based on unsoundness of		
		mind.		
		Describe McNaghten rules,		
		Durham's rule and Impulse along		
		with its application and criticism.		
		Differentiate between true and		
		feigned insanity		
	Forensic	Define and describe Forensic		
	Psychiatry	Psychiatry.		
	1 Syemany	Describe different terms used in		
		Forensic Psychiatry:		
		a) Affect		
		b) Confabulation		
		c) Delirium		
		d) Delusion		
		e) Fague		
		f) Hallucination		
		g) Illusion		
		h) Intelligent Quotient		
		i) Lucid Interval		
		j) Neurosis		
		k) Psychopath		
		l) Psychosis		
		m) Stupor		
		n) Twilight states		
	Mental health	Define mental disorders based on		
	act	mental health act		
		Describe procedure of admission and		
		discharge of mentally ill patient		
		based on mental health act		
		Describe procedure of handling a		
		wandering lunatic		
	Will	Define testamentary capacity		
	44 111	Define testamentary capacity		

	Civil and criminal responsibility of mentally ill patients	Enlist conditions required for a valid Will Describe the role of a doctor in taking a Will from a sick person Explain the concept of civil and criminal responsibility of mentally ill patients		
Community medicine	Mental health	Describe classification of mental health illnesses Define mental health Discuss global perspectives and epidemiology of mental health disorders Discuss risk factors leading to mental health problems Discuss prevention and control of mental health disorders	1	Lecture
	Drug abuse and Alcoholism	Describe the global distribution and increase addiction to drug abuse and alcoholism Discuss causes of drug abuse and alcoholism Discuss the effects of alcoholism on mental health Describe preventive and control measures of drug abuse and Alcoholism		
PRIME/MEDIC AL EDUCATION	Conflict resolution	Explain the prerequisites for conflict resolution as a leader Show the ability to solve problems regarding difficult patients/attendant.	1	Lecture
PRIME/RESEA RCH	Biostatistics: Introduction Data and variable types Sampling Biases in epidemiological studies	Describe the significance of biostatistics in health and epidemiology Define and classify variables Define sampling Discuss types of sampling Define Bias Discuss different types of biases Discuss how bias can be prevented	2	Lecture
Themo	e-3: Right sid	ed weakness and inability to	spea	k
Pathology	Hypoxia, ischemia and infarction	Define hypoxia, ischemia and infarction, and describe its morphology and consequences in the context of CNS involvement	1	Lecture

	Intracranial	Describe the eticloses wish footons	1	
		Describe the etiology, risk factors		
	hemorrhage	and morphology of intracranial		
	C4 1	haemorrhage		
	Strokes	Describe the etiology, risk factors,		
	syndromes	morphology, and clinical and		
	0 1 1 11	radiological features of stroke		
	Subarachnoid	Explain the etiology, risk factors and		
	hemorrhage	clinical features of SAH		
G 1	(SAH)			-
General	Stroke	Describe the risk factors of stroke	1	Lecture
Medicine		Explain the types of strokes		
		Describe the clinical features,		
		radiological features, and		
		management of a patient with		
		intracerebral bleed		
		Describe the clinical features,		
		radiological features, and		
		management of a patient with stroke		
		due to an infarction		
Community	Non-	Discuss the epidemiological	1	Lecture
medicine	communicable	determinants of stroke in community		
	diseases:	Discuss the prevention and		
	Strokes	rehabilitation of strokes		
Neurosurgery	Management	Describe the neurosurgical	1	Lecture
		management of stroke and		
		Subarachnoid hemorrhage		
PRIME/RESEA	Measures of	Classify measures of central	5	Lectures
RCH	central	tendency		
	tendency	Calculate measures of central		
		tendency		
		Interpret and signify the results		
		Describe the advantages and		
		disadvantages of different measures		
	Measures of	<u> </u>		
	dispersion	Calculate measures of dispersion		
		Interpret the results of measures of		
		dispersion		
		Explain the advantages and		
		disadvantages of measures of		
		dispersion		
		Explain the use of different measures		
		in specific circumstances		
	Normal	Define normal distribution		
	distribution	Describe normal distribution		
		Calculate and graphically represent		
		normal distribution		
		Explain its use & significance in		
		relation to data]	
1		Describe percentile and interquartile		
		Beserve percentific and interquartific		
		range		

	Confidence Interval, Confidence level, Standard error P value, critical region, rejection region, alpha beta errors	Explain use and significance of these in different situations Define confidence level and interval Describe confidence level and interval Calculate confidence level and interval Explain their use and significance in different situations Define P value, critical region, rejection region, αβ errors Describe P value, critical region, rejection region, αβ errors Calculate P value, critical region, rejection region, αβ errors Calculate P value, critical region, rejection region, αβ errors Describe their use and significance in		
		different situations		
T	heme-4: Los	ss of consciousness and F	its	
General Medicine	Seizures	Define seizures Differentiate between a seizure and syncope Classify epilepsy Explain the pathophysiology, clinical features, risk factors, investigations and treatment of Tonic-Clonic epilepsy Explain the pathophysiology, clinical features, investigations and treatment of absence seizures Explain the pathophysiology, clinical features, investigations and treatment of psychomotor epilepsy Explain the management of a patient with status epilepticus	1	Lectures
Pediatrics	Epilepsy	Explain the pathophysiology, clinical features, risk factors, investigations and treatment of Tonic-Clonic epilepsy in children Explain febrile convulsions and its management Describe Infantile spasm and its management	1	Lecture
Anesthesia	Introduction to the subject General anesthesia Neuroaxis block	Describe different types of anesthesia Describe the methods of induction of anesthesia Describe the following terms: • Spinal block • Epidural block • Caudal block	3	Lectures

		Combined spinal /Epidural		
	Regional	Describe the following terms:		
	anesthesia			
	anestnesia	Nerve block Single short		
		• Single shot		
		Continuous infusion		
		Local infiltration		
	Preoperative	Explain the purpose of preoperative		
	evaluation and	evaluation		
	risk assessment			
		Perform risk assessment of patient		
		undergoing general anesthesia		
		Describe the steps of history taking in		
		preoperative evaluation for		
		anesthesia		
		Describe the plans of general and		
		regional anaesthesia techniques		
		Describe the ASA classification for		
	2.5	pre-operative risk assessment		
	Monitoring in	Describe the non-invasive and		
	anesthesia	invasive techniques of patients`		
		monitoring for the following		
		parameters during general		
		anaesthesia		
		Non-invasive:		
		a. Oxygenation		
		b. Hemodynamics		
		c. Temperature		
		d. Electrical activity		
		e. Neuromuscular activity		
		f. Circulation		
		Invasive:		
		a. Oxygenation		
		b. Hemodynamics		
		c. Temperature		
		d. Cardiac output		
		e. Central venous pressure		
		f. Circulation		_
Pharmacology	Anti-seizure	Classify anti-seizure drugs	3	Lectures
	drugs (Anti-	Enlist the "Broad-spectrum" anti-		
	epileptics)	epileptics (Valproate and		
	G 1 :	Lamotrigine)		
	Carbamazepine	Describe the mechanism of action,		
		clinical uses, adverse effects and drug		
	Dla annot o in	interactions of Carbamazepine		
	Phenytoin	Describe the pharmacokinetics of		
		Phenytoin with reference to the		
		phenomenon of zero-order kinetics		
		Describe the mechanism of action,		
		clinical uses, adverse effects and drug		
		interactions of Phenytoin		

		,	
	Valproate	Describe the mechanism of action,	
		clinical uses, adverse effects and drug	
		interactions of Valproate	
	Ethosuximide	Describe the mechanism of action,	
		clinical uses and adverse effects of	
		Ethosuximide	
	Phenobarbitone	Describe briefly the historic role of	
		phenobarbitone in the management	
	D 11 1	of epilepsy	
	Benzodiazepine	Name the benzodiazepines used in	
	S	the management of epilepsy	
	Lamotrigine,	Name the new antiepileptic drugs	
	Topiramate and	Describe the mechanism of action,	
	others	clinical uses and adverse effects of	
		Lamotrigine and Topiramate	
		Describe the use of antiepileptics	
		during pregnancy Describe drug interaction of	
		antiepileptics with oral contraceptive	
		pills	
	Status	Describe the management of status	
	epilepticus	epilepticus	
	General	Describe the stages of general	
	anesthetics	anesthesia	
		Describe balanced anesthesia	
		Classify General anesthetics	
	Inhaled	Describe the pharmacokinetics of	
	anesthetics	Inhaled anesthetics	
	$(N_2O,$	Discuss the clinical significance of	
	Halothane,	Blood: Gas partition coefficient of	
	Isoflurane,	Inhaled anesthetics	
	Sevoflurane,	Describe the mechanism of action of	
	Desflurane)	Inhaled anesthetics	
		Define MAC ₅₀ (minimum Alveolar	
		Concentration- 50%)	
		Describe the significance of MAC ₅₀	
		Describe the pharmacological effects	
		of Inhaled anesthetics	
		Describe the adverse effects of	
		Inhaled anesthetics	
		Describe second gas effect	
		Describe diffusion hypoxia	
		Describe Malignant hyperthermia	
		and its management	
		Describe the properties of an ideal	
	117	inhaled anesthetics	
	IV anesthetics	Describe the mechanism of action,	
	(Thiopentone,	clinical use and adverse effects of	
	Propofol,	Intravenous anesthetics Describe re-distribution of	
	Etomidate, Ketamine,		
	ixetallille,	Thiopentone	

Midazolam,	Define neuroleptanalgesia and		
Fentanyl)			
	,		
medications			
analgesia	analgesia	_	_
		1	Lectures
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ive disorders:			e
• Alzheimer`s	clinical features of		ct
disease	Alzheimer's disease		u
Parkinson`s	 Describe the etiology, risk 		re
disease			
	clinical features of		
s Disease	Parkinson's disease		
and	 Describe the etiology, risk 		
Spinocerebe	factors, morphology and		
llar ataxias	clinical features of		
Motor Neuron	Huntington's disease		
Motor Medicin			
disease	 Describe the clinical features 		
	Pre-anesthetic medications Obstetric analgesia Deliriant Poisons Dhatura Hyocyamus nigra Cannabis indica Z test & it's application, Types / shapes of frequency distribution Th Neurodegenerat ive disorders: Alzheimer's disease Parkinson's disease Huntington's Disease and Spinocerebe llar ataxias	Fentanyl) Describe dissociative anesthesia	Pentanyl) neuroleptanaesthesia Describe dissociative anesthesia Name the anesthetic agent that causes dissociative anesthesia Describe TIVA (Total Intravenous Anesthesia) technique Pre-anesthetic medications Describe Pre-anesthetic medications Describe the drugs used as Pre-anesthetic medications Describe the drugs used as Pre-anesthetic medications Describe the drugs for obstetric analgesia Describe the drugs for obstetric analgesia Describe and enlist Deliriant poisons. Describe mechanism of action of the Deliriant poisons. Describe different sign, symptoms and autopsy appearance in a typical of Deliriant poisons. Describe different sign, symptoms and autopsy appearance in a typical of Deliriant poisons. Describe fatal dose, treatment, and diagnosis of the Deliriant poisons. Describe medico-legal importance of the Deliriant poisons. Describe medico-legal importance of the Deliriant poisons. Describe to different statistical settings Describe its use in different statistical settings Describe its use in different statistical settings Discuss various shapes of frequency distribution Describe the applications of parametric and non-parametric tests Explain its application in hypothesis testing Interpret and apply to clinical settings Discuss various shapes of frequency distribution Describe the applications of parametric and non-parametric tests Describe the etiology, risk factors, morphology and clinical features of Parkinson's disease Parkinson's disease Describe the etiology, risk factors, morphology and clinical features of Parkinson's disease Describe the etiology, risk factors, morphology and clinical features of Parkinson's disease Describe the etiology, risk factors, morphology and clinical features of Parkinson's disease Describe the etiology, risk factors, morphology and clinical features of Parkinson's disease Describe the etiology, risk factors, morphology and Describe the etiology, risk factors, morphology and Describe

	1		1	
		Describe the etiology, risk factors,		
		morphology and clinical features of		
~ .	- · · ·	Motor Neuron Disease		_
General	Parkinson`s	Describe the etiology, risk factors,	1	Lecture
Medicine	disease	clinical features and management of		
		Parkinson`s disease	-	
		Describe the types, clinical		
		presentation and management of		
		Motor neuron disease		
Pharmacology	Drugs for	Classify drugs for Parkinsonism	1	Lecture
	Parkinsonism			
			=	
	Levodopa (with	Describe the pharmacokinetics,		
	Carbidopa)	mechanism of action, adverse effects,		
		contraindications and drug		
		interactions of Levodopa		
		Discuss the rationale of combining		
		Carbidopa (or Benserazide) with		
		Levodopa		
		Describe the on-off phenomenon		
		Describe the end-of-dose akinesia		
		Describe "drug holidays" for		
		Levodopa		
	Bromocriptine	Describe the mechanism of action,		
	_	clinical uses and adverse effects of		
		Bromocriptine		
	Selegiline	Describe the mechanism of action		
		and clinical uses of Selegiline		
		Describe the differentiating point		
		regarding the use of Selegiline as		
		antiparkinsonian drug and its use as		
		an antidepressant drug		
	Apomorphine	Describe the mechanism of action		
		and clinical use of Apomorphine		
	Drug-induced	Enlist the drugs causing		
	Parkinsonism	Parkinsonism-like symptoms		
		Enlist the drugs used in the	1	
		management of drug-induced		
		Parkinsonism		
		Describe the rationale of avoiding		
		Levodopa in drug-induced		
		Parkinsonism		
Pediatrics	Cerebellar	Describe the clinical features and	1	Lectures
	ataxias	management of Friedreich's Ataxia		
PRIME/RESEA	"t" test & its	Define & Describe 't' test	4	Lectures
RCH	application	Explain its use in different statistical		
		settings]	
		Calculate 't' test]	
		Describe its application in]	
		hypothesis testing		
		Interpret and apply to clinical settings]	
		Calculate degree of freedom	1	
l .	1	<u>, </u>		

	Chi square test & its application Correlation,	Describe 'x²' test Describe its use in different statistical settings Calculate 'x²' test Explain its application in hypothesis testing Interpret and apply to clinical settings		
	regression Practical Problems in biostatistics	biostatistics and SPSS	1	Practical
Pathology	Meningitis	eme-6: Headache Explain the etiology, clinical	2	Lectures
T amology		features, investigations and complications of acute pyogenic meningitis Explain the etiology, clinical features, investigations and complications of Tuberculous meningitis	2	Lectures
	Encephalitis	Explain the etiology, clinical features, investigations and complications of viral encephalitis		
	Brain abscess	Explain the etiology, clinical features, investigations and complications of brain abscess		
	Cerebral Toxoplasmosis	Explain the etiology, clinical features, investigations and complications of Cerebral Toxoplasmosis		
	 Gliomas Embryonal neoplasms Meningiom a Other neoplasms 	Describe the classification of brain tumors on the basis of primary and secondary origin and benign and malignant • Describe the classification, gross and microscopic morphology and clinical features of Gliomas • Describe the classification, gross and microscopic morphology and clinical features of embryonal neoplasms of brain • Describe the gross and microscopic morphology and clinical features of Meningioma • Enlist brain neoplasms other than gliomas, meningioma and embryonal cell neoplasms • Enlist the metastatic brain neoplasms		

Dharmacalagy	Migraina and	Classify drugs used for the treatment	1	Lacture
Pharmacology	Migraine and Cluster	, J &	1	Lecture
	headaches	of Migraine and Cluster headaches		
	neadaches	Enlist the drugs used for the		
		prophylaxis of Migraine and Cluster		
	m :	headaches		
	Triptans	Describe the mechanism of action,		
	(Sumatriptan	clinical use and adverse effects of		
	and others)	Sumatriptan		
	Ergot alkaloids	Enlist Ergot alkaloids		
		Describe the pharmacological effects		
		of Ergot alkaloids		
	Ergotamine	Describe the mechanism of action,		
		clinical use and adverse effects of		
		Ergotamine		
	Neuralgias	Describe the drug treatment of		
l	(Neuropathic	neuralgias (Trigeminal, post-herpetic		
	pain)	and others)		
Forensic	Head Injury	Describe head injury in relation to	1	Lecture
Medicine	Tread Injury	scalp and skull injuries.	1	Lecture
Wiedicine		Classify different varieties of skull		
		fractures.		
		Explain commonest site of skull		
		fracture.		
		Describe mechanism of cerebral		
		injury including coup and counter		
		coup mechanism.		
		Describe injuries to cranial content		
		and its medicolegal importance.		
		Describe intracranial hemorrhages		
		and its types in detail as per		
		medicolegal point of view.		
		Describe the medicolegal aspects of		
		Punch drunk syndrome		
General	Meningitis	·	1	Lecture
Medicine		clinical presentation, investigations		
		and management of Acute pyogenic		
		meningitis		
		Explain the etiology, pathogenesis,		
		clinical presentation, investigations		
		and management of Tuberculous		
		meningitis		
	Encephalitis	Explain the etiology, pathogenesis,		
	Licephantis	clinical presentation, investigations		
		and management of viral encephalitis		
Community	Dahias		1	Lastres
Community	Rabies	Explain the etiology, clinical	1	Lecture
medicine		presentation of a patient with Rabies		
		Describe post-exposure prophylaxis		
Б 11 11 11 11	D 1 '	of Rabies	1	т.
Family medicine	Rabies	Describe the types of wounds	1	Lecture
	prophylaxis	inflicted by rabid dog bite		

		Explain the types of active and passive immunisation for Rabies		
		post-exposure prophylaxis Describe the indications of Rabies		
Pediatrics	Meningitis	vaccine and immunoglobulins Explain the etiology, pathogenesis, clinical presentation, investigations and management of Acute pyogenic meningitis in children and neonates	1	Lecture
	TBM	Explain the etiology, pathogenesis, clinical presentation, investigations and management of Acute pyogenic meningitis in children		
Psychiatry	Chronic daily headache	Differentiate between neurological and psychological headache (chronic tension headache) Identify the red signs in patients with	1	Lecture
		headache Describe the principles of management of acute and chronic headaches		
PRIME/RESEA RCH	Data analysis	Use MS Excel for data analysis Use SPSS for data analysis Use Endnote for reference management Compile, analyze and write a dissertation	3	Practical
	The	me-7: Paraplegia		
Pathology	Multiple sclerosis and other demyelinating disorders of CNS	Explain the pathogenesis, morphology and clinical features of multiple sclerosis Describe the morphology of the following: • Acute demyelinating encephalomyelitis • Acute necrotizing hemorrhagic encephalitis	1	Lecture
Forensic Medicine	Neurotoxins: Spinal Poisons	Describe and enlist spinal poison. Describe mechanism of action for the spinal poison. Describe different sign, symptoms and autopsy appearance in a typical	1	Lecture
		case of spinal poisons. Describe fatal dose, treatment, and diagnosis for the spinal poisons. Describe medico-legal importance for the spinal poisons. Describe vertebral and spinal injuries		

General	Snake bite neurotoxins Botulism toxins Multiple	Describe different sign, symptoms and autopsy appearance in a typical case of snake bite poisons. Describe different sign, symptoms and autopsy appearance in a typical case of botulism Explain the pathophysiology, clinical	1	Lecture
Medicine	Transverse myelitis Caries spine	Explain the pathophysiology, clinical features and management of Multiple sclerosis Describe the etiology, pathophysiology, clinical features and management of Transverse myelitis Explain the pathophysiology, clinical features, investigations and management of Caries spine	1	Lecture
Orthopedics	Management of traumatic paraplegia	Describe the general management of a patient with traumatic paraplegia	1	Lecture
Neurosurgery	Traumatic paraplegia Spinal Tumor	Describe the general management of a patient with traumatic paraplegia Describe the types, clinical features and surgical management of spinal tumors	1	Lecture
	Theme-8:	Numbness and tingling		
Pathology	Patterns and types of peripheral nerves injury Acute and chronic demyelinating neuropathies	Describe the patterns and types of neuronal injury Describe the pathophysiology and clinical features of Guillain Barre syndrome	2	Lectures
	Myasthenia Gravis	Explain the pathophysiology of Chronic demyelinating polyneuropathies • Describe the pathophysiology and clinical features of Myasthenia Gravis		
	Tumors of Peripheral nerves	Enlist the tumors of peripheral nerves Describe the clinical features, of Neurofibromatosis	3	Lectures
Pharmacology	Local anesthetics (Lignocaine and others)	Classify Local anesthetics Enlist the Local anaesthetics used for surface anaesthesia Enlist the Local anesthetics used for infiltration anesthesia, nerve block, spinal anesthesia and epidural anesthesia		

	!	Describe EMI A (Entactic Mixture of		
		Describe EMLA (Eutectic Mixture of		
		Local Anesthetics) and its clinical		
		Use		
		Describe the pharmacokinetics of		
		Local anesthetics Describe the mechanism of action of		
		Local anesthetics		
		Describe the pharmacological effects		
		of Local anesthetics on nerves		
		Describe the differential blockade of		
		peripheral nerves by Local		
		anesthetics		
		Describe the pharmacological effects		
		of Local anaesthetics on other		
		excitable membranes		
		Describe the clinical uses of Local		
		anaesthetics		
		Describe the major advantages of		
		adding Adrenaline to Lignocaine for infiltration anaesthesia		
		1 2		
		Adrenaline/ml in the traditionally used combinations of Adrenaline and		
		Lignocaine (i.e. 1:200,000 & 1:		
		80,000)		
		Describe the adverse effects of Local		
		anaesthetics		
Forensic	Neurotoxins:	Describe and enumerate peripheral	1	Lecture
Medicine	Peripheral	poisons.	1	Lecture
1vicarenie	poison	Describe mechanism of action for the		
	Polosia	peripheral poisons.		
		Describe different sign, symptoms		
		and autopsy appearance in a typical		
		of peripheral poisons.		
		Describe fatal dose, treatment, and		
		diagnosis for the peripheral poisons.		
		Describe medico-legal importance		
1		Describe inedico-legal importance		
		for the peripheral poisons.		
General	Guillain Barre	<u> </u>	1	Lecture
General Medicine	Guillain Barre syndrome	for the peripheral poisons.	1	Lecture
	syndrome	for the peripheral poisons. Explain the pathophysiology, clinical	1	Lecture
		for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types,	1	Lecture
	syndrome	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of	1	Lecture
	syndrome Neuropathies	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of different neuropathies	1	Lecture
	syndrome Neuropathies Myasthenia	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of different neuropathies Explain the pathophysiology, clinical	1	Lecture
	syndrome Neuropathies	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of different neuropathies Explain the pathophysiology, clinical features and management of	1	Lecture
	syndrome Neuropathies Myasthenia	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of different neuropathies Explain the pathophysiology, clinical features and management of Myasthenia Gravis	1	Lecture
	syndrome Neuropathies Myasthenia	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of different neuropathies Explain the pathophysiology, clinical features and management of Myasthenia Gravis Describe the clinical features, types	1	Lecture
	syndrome Neuropathies Myasthenia	for the peripheral poisons. Explain the pathophysiology, clinical features and management of Guillain Barre syndrome Describe the causes, types, distribution and clinical features of different neuropathies Explain the pathophysiology, clinical features and management of Myasthenia Gravis	1	Lecture

Pediatrics	Hereditary neuropathies	Describe the types, clinical features and management of hereditary neuropathies	1	Lecture		
Orthopedics	Peripheral nerve injury	Describe the types and management of peripheral nerve injury Explain entrapment neuropathies Describe the risk factors, clinical features and management of Carpal tunnel syndrome	1	Lecture		
Practical Work						
Pathology	CSF	1. Describe the chemical,				
		cytological composition of CSF 2. Estimate the following analysis of CSF:				
		Chemistry				
		 Cytology 				
		Gram stain				
	Histopathologic	Microbiology Identify the gross structure and				
	al specimens of	microscopic features of:				
	brain tumors	Meningioma				
		Glioma/Astrocytoma				
Pharmacology	Depression	Formulate a prescription for a newly diagnosed case of depression				
	Epilepsy	Formulate prescriptions for patients with Tonic-Clonic and Petit-mal epilepsy				
	Migraine	Formulate prescription for a patient				
	headache	with migraine headache				
Forensic medicine	Somniferous poisons	Recognition of Opium and Heroin				
	Inebriant	Recognition of Ethyl Alcohol and its				
	poisons	examination				
	Fuel Deliriant	Recognition of Kerosene oil Recognition of Dhatura and				
	Cninol noisen	Cannabis Recognition of Nuv Vernice seeds				
Community	Spinal poison Data	Recognition of Nux Vomica seeds Identify and interpret the charts				
medicine	presentation	rectury and interpret the charts				
	• pie chart					
	• histogram					
	• bar chart and					
	its types					
	venn diagramscatter plot					

li o	Application and Interpretation of statistical data	Apply a statistical test on a given scenario	
	Data nterpretation	nterpret the normal distribution curve, skewed distribution, bi and poly-modal distribution & Standard Normal Curve	



9 Learning Opportunities and Resources

a. Books:

S.No	Subjects	Resources
1	Community	1. Preventive and Social Medicine by K Park
	Medicine	2. Community Medicine by M. Ilyas
		3. Basic Statistics for the Health Sciences by Jan W Kuzma
		4. Textbook of Community Medicine and Public Health, 2018. Saira
		Afzal, Sabeena Jalal
2	Neurology	1. Davidson's Principles and Practice of Medicine
		2. Kumar and Clark's Clinical Medicine, Edited by Parveen Kumar,
		9th Edition
3	Neurosurgery	1. Bailey & Love's Short Practice of Surgery, 26th Edition
4	Pathology	1. Robbins & Cotran, Pathologic Basis of Disease,9 th edition.
		2. Rapid Review Pathology,4 th edition by Edward F. Goljan MD
5	Pediatrics	1. Nelson Textbook of Pediatrics, 19th Edition
		2. Textbook of Pediatrics by PPA, preface written by S. M.
		Haneef
		3. Clinical Pediatrics by Lakshmanaswamy Aruchamy, 3rd Edition
6	Pharmacology	1. Lippincot Illustrated Pharmacology
		2. Basic and Clinical Pharmacology by Katzung
7	Psychiatry	1 Oxford textbook of psychiatry by Michael G. Gelder, 2nd
		Edition
		2. Handbook of Behavioural Sciences, by Mowadat H. Rana
		3. Drugs used in Psychiatry, by Prof. Muhammad Iqbal Afridi
		4. Kaplan Series, Behavioural Sciences, Psychiatry



10 Examination and Methods of Assessment:

a. Instruction:

- Students must arrive the examination venue at least 15 minutes before the scheduled start time. Latecomers 15 minutes after the start of exam, will not be allowed to enter the examination hall after the start time, and if permitted, they will not receive extra time.
- Students without College ID Card and white Lab Coat will not be allowed to sit in exam.
- In case of an emergency such as a medical emergency, students should inform the examination supervisor.
- Students are required to submit prohibited items such ass mobile phones, smartwatches, electronic devices, books, notes, or any unauthorized materials before entering the examination hall.
- Students must maintain complete silence within the examination hall. They should refrain from communicating with fellow students and strictly follow invigilator instructions.
- Students must mark their attendance properly.
- No student will be allowed to leave the examination hall before half the time is over and paper should be properly handed to the examiner.
- Violation of these guidelines may lead to disqualification from the examination.

b. The distribution of Assessment Score for 4th Year MBBS will be as follows:

- Total Marks for 4th Year MBBS= 1100, Theory marks = 480 & Internal Assessment Marks (10%) = 53
- OSPE/OSCE marks = 500 & internal assessment OSPE/OSCE (10%) = 67

	4 th Year MBBS Modules Assessment Plan									
Theory Paper	Module	Theory Marks	Internal assessment Theory (10%)	OSPE/ OSCE	Internal assessment OSPE/OSCE (10%)	Total Marks				
Paper J	Neuroscience 2	120	13	120	13	266				
Paper K	GJT & Hepatobiliary – 2	120	13	120	13	266				
Paper L	Renal 2, Endocrine & Reproduction - 2	120	14	120	13	267				
Paper M	ENT & Eye	120	13	120	13	266				
Research				20	15	35				
Total Ma	arks	480	53	500	67	1100				

c. UNIVERSITY EXAM: Exam has 90% Marks

- To appear in any university examination, more than 75% attendance in all disciplines is mandatory for the students.
- The Paper J will be comprised of 134 MCQs and 12 OSPE/OSCE. The distribution of 90% Marks for Paper J Written Exam will be as under:

		As	sessment	
Subject		IPA		
Subject	OSPE/ OSCE	Viva	Total Stations	MCQs
Pathology	2	2	4	21
Pharmacology	3	2	5	19
Forensic medicine	2	2	4	17
Community medicine	3	2	5	31
General medicine	1	X	1	10
Psychiatry	1	X	1	9
Pediatrics	X	X	X	4
Neurosurgery	X	X	X	2
Orthopedics	X	X	X	1
Anaesthesia	X	X	X	3
Prime/Medical Education	X	X	X	2
Prime/Research	X	X	X	14
Family medicine	X	X	X	1
TOTAL	12	8	20	134

12. Tentative timetables

SWAT MEDICAL COLLEGE, SWAT

Department of Medical Education

Time Table 4th Year MBBS Class Session 2024-25 Block-J: (Neuroscience II Modules)

wiodules)								
Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15 PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:30PM		
Monday 12/02/2024								
Tuesday 13/02/2024	Psychiatry – L1 Introductory Dr. Hussain	F. M – L1 Introductory Dr. Hidayat Ur Rahman	HOSPITAL WORK	Pharma – L1 Introductory Dr. Rahman Shah		Practical Patho Group A Dr. Bilal Iqbal Pharma Group B Dr. Faiza F.M Group C Dr. Shahkar Ali		
Wednesday 14/02/2024	Pharma – L2 Introduction to the Pharmacology of CNS Dr. Fawad Khalid	Paed – L1 Introductory Dr. Usman Ali		Patho – L1 Introductory Dr. Bilal Iqbal	PRAYER BREAK	Practical Patho Group B Dr. Bilal Iqbal Pharma Group C Dr. Faiza F. M Group A Dr. Shahkar Ali		
Thursday 15/02/2024	ENT – L1 Introductory Dr. Saad Hussain	C.M – L1 Introductory Prof. Dr. Qarib Ullah		Anesthesia – L1 Introductory Dr. Khurshid Ahmad		Practical Patho Group C Dr. Bilal Iqbal Pharma Group A Dr. Faiza F.M Group B Dr. Shahkar Ali		
Friday 16/02/2024	EYE – L1 Introductory Prof. Dr.	Med – L1 Introductory		12:15PM –		01:30PM – 03:30PM F. M – L2 Neurotoxin		
10/02/2024	Haroon Rashid	Dr. Riaz		BRE		Dr. Hidayat Ur Rahman		

Week 1

Week-2

	WCCK - Z								
Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15 PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:30PM			
Monday 19/02/2024	F. M – L3 Incbrient poison Dr. Hidayat Ur Rahman	Pharma – L3 Sedative- Hypnotics-I Dr. Fawad Khalid		Psychiatry – L1 Sleep disorders Dr. Hussain		Practical Patho Group A Dr. Bilal Iqbal Pharma Group B Dr. Faiza F.M Group C Dr. Shahkar Ali			
Tuesday 20/02/2024	M.E-L1 Emotional intelligence (EI)	Pharma – L4 Sedative- Hypnotics-II Dr. Fawad Khalid		F. M – L4 Sedative & Hypnotics Dr. Hidayat Ur Rahman	REAK	Practical Patho Group C Dr. Bilal Iqbal Pharma Group A Dr. Faiza F.M Group B Dr. Shahkar Ali			
Wednesday 21/02/2024	Pharma – L5 Alcohols Dr. Fawad Khalid	C.M – L2 Epidemiology Study design and screening Measures of mortality and morbidityProf. Dr. Qarib Ullah	HOSPITAL WORK	F. M – L5 Fuels, stimulants and Hallucinogens Dr. Younas	PRAYER BREAK	Research – L1 Prof. Dr. Qaribullah Dr.M.Munib Dr.Ubaidullah			
Thursday 22/02/2024	Pharma – L6 CNS Stimulants Dr. Rahman Shah	Psychiatry – L2 Depressive disorders Dr. Hussain		C.M – L3 Mental health Dr. Afroz Aziz		Practical Patho Group B Dr. Bilal Iqbal Pharma Group C Dr. Faiza F. M Group A Dr. Shahkar Ali			
		EM IC		12:15PM – 01	:30PM	01:30PM - 03:30PM			
Friday 23/02/2024	M.E-L2 Conflict Resolution	F. M – L6 Deliriant Poisons Dr. Younas		PRAYER B	REAK	Psychiatry – L3 Suicide, Anxiety Disorders Dr. Hussain			

Theme-1: Disturbed sleep

Week-3

Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:00PM	
Monday 26/02/2024	Psychiatry – L3 Suicide, Anxiety Disorders Dr. Hussain	EYE – L3 Visual pathway and visual field defects Dr. Abdul Aziz		Pharma – L6 Anti – Depressent Dr. Rahman Shah		Practical Patho Group A Dr. Jawad Khan Pharma Group B Dr. Faiza F.M Group C Dr. Shahkar Ali	
Tuesday 27/02/2024	F. M – L5 Deliriant Poisons Dr. Hidayat Ur Rahman	C.M – L3 Study design and screening Prof. Dr. Qarib Ullah		Patho – L5 Encephalitis Prof. Dr. Imran Uddin	EAK	Practical Patho Group C Dr. Jawad Khan Pharma Group A Dr. Faiza F.M Group B Dr. Shahkar Ali	
Wednesday 28/02/2024	F. M – L6 Hallucinogen Dr. Younas	C.M – L4 Biostatistics Introduction Dr. Munib	HOSPITAL WORK	Patho – L6 Multiple sclerosis and other demyelinating disorder of CNS Dr. Shabir Ahmad	PRAYER BREAK	PRAYER B	Research – 2 Group: I Prof. Dr. Qarib Ullah Group: II Dr. Muneeb Group: III Dr. Ubaid Ullah Group: IV Dr. Shahab
Thursday 29/02/2024	EYE – L4 Optical coherence tomography and visual fields Prof. Dr. Haroon Rashid	C.M – L5 Measure of centrol tendency Prof. Dr. Qarib Ullah	НС	Anesthesia – L2 General Anaesthesia Dr. Khurshid Ahmad		Practical Patho Group B Dr. Jawad Khan Pharma Group C Dr. Faiza F. M Group A Dr. Shahkar Ali	
	ENT – L3 Acute and	Pharma – L7		12:15PM – 01	:30PM	01:30PM - 03:30PM	
Friday 01/03/2024	chronic tonsillitis Prof. Dr. Ihsan Ullah	Antipsychotics drugs Dr. Noman Shuja		PRAYER B	REAK	ENT – L4 Oral ulceration Dr. Bakht Taj	

Theme-3: (Right sided weakness and inability to speak/Loss of consciousness and Fits)

Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:00PM														
Monday 04/03/2024	EYE – L5 Fundus fluorescein angiography & ultrasonography Prof. Dr. Haroon Rashid	Psychiatry – L4 Dissociative and Somatoform disorders Dr. Hussain	HOSPITAL WORK	RK .	IK.	IK	Ж											Patho – L7 Pattern and types of peripheral nerves injury Dr. Bilal Iqbal		Practical Patho Group A Skill Lab (LP) Dr. Jawad Khan C.M Group B Dr. Zarak Pharma Group C Skill Lab (BSL) Dr. Faiza
Tuesday 05/03/2024	Pharma – L8 Drugs of abuse Dr. Rahman Shah	C.M – L6 Sampling/Bias in ep. study Dr. Mohammad Munib						Patho – L8 Tumors of peripheral nerve Dr. Siyab Ahmad		Practical Patho Group C Skill Lab (LP) Dr. Jawad Khan C.M Group A Dr. Zarak Pharma Group B Skill Lab (BSL) Dr. Faiza										
Wednesday 06/03/2024	F. M – L7 Insanity Dr. Hidayat Ur Rahman	Med – L3 Stroke-II Dr. Fozan Khan		Pharma - L9 Anti - seizure drugs (Anti epileptics) Dr. Malak Amir Hamza	PRAYER BREAK	Research – 3 Group: I Prof. Dr. Qarib Ullah Group: II Dr. Muneeb Group: III Dr. Ubaid Ullah Group: IV Dr. Shahab														
Thursday 07/03/2024	EYE – L6 Optics & Eye Prof. Dr. Haroon Rashid	C.M – L7 Non – Communicable disease Dr. Mohammad Munib				F. M – L8 Mental health act Dr. Hidayat Ur Rahman	PRAYEI	Practical Patho Group B Skill Lab (LP) Dr. Jawad Khan C.M Group C Dr. Zarak Pharma Group A Skill Lab (BSL) Dr. Faiza												
Friday 08/03/2024	ENT – L5 Trauma to the palate and oropharynx Prof. Dr. Ihsan Ullah	Patho – L9 Neurodegenerative disorders, motor neuron disease Prof. Dr. Mukammil Shah		12:15PM – PRAY	YER	01:30PM – 03:30PM ENT – L6 Carcinoma of oral cavity Dr. Bakht Taj														

Week – 4

Theme-4: (Loss of consciousness and Fits/Tremors)

Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:00PM
Monday 11/03/2024	Psychiatry – L5 Stress related disorders Dr. Hussain	F. M – L9 Head Injury – I Dr. Younas		Patho – L10 Acute and chronic demyelinating neuropathies Dr. Jawad Khan		Practical Patho Group A Skill Lab (NG) (Dr. Ayaz Hussain) C.M Group B (Dr. Rafi Ullah) Pharma Group C Skill Lab (ETT) (Dr. Safeena)
Tuesday 12/03/2024	Patho – L11 Tumors of CNS Dr. Aurangzeb Khan	C.M – L8 Measure of dispersion Dr. Mohammad Munib	ORK	F. M – L10 Head Injury – II Dr. Younas	PRAYER BREAK	Practical Patho Group C Skill Lab (NG) (Dr. Ayaz Hussain) C.M Group A (Dr. Zarak) Pharma Group B Skill Lab (ETT) (Dr. Safeena)
Wednesday 13/03/2024	ENT - 7	СРС	HOSPITAL WORK	C.M – L9 Normal Distribution Prof. Dr. Qarib Ullah	PRAYE	Research – 4 Group: I Prof. Dr. Qarib Ullah Group: II Dr. Muneeb Group: III Dr. Ubaid Ullah Group: IV Dr. Shahab
Thursday 14/03/2024	EYE - 7	Paed – L3 Hereditary Neuropathies Dr. Usman Ali	reditary ropathies Usman Interval, Confidence level, Dr			Practical Patho Group B Skill Lab (NG) (Dr. Ayaz Hussain) C.M Group C (Dr. Javeria) Pharma Group A Skill Lab (ETT) (Dr. Safeena)
Friday 15/03/2024	Med – L4 Seizures Dr. Riaz Khan	ENT - 8		12:15PM – 01:30PM PRAYER BREAK		01:30PM - 03:30PM EYE - 8

Week – 5 Theme-5: (Headache)

Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:00PM
Monday 18/03/2024	Psychiatry – L6 Personality development and disorder Dr. Hussain	F. M – L11 Neurotoxin peripheral poisons Dr. Hidayar Ur Rahman		Patho – L12 Cerebral toxoplasmosis and brain abscess Prof. Dr. Mukammil Shah		Pharma – L10 Opioids – I Dr. Rahman Shah
Tuesday 19/03/2024	Pharma – L11 Opioids – II Dr. Rahman Shah	F. M – L12 Forensic psychiatry - II Dr. Hidayar Ur Rahman	RK	C.M – L11 P value, critical region, rejection Dr. Mohammad Munib	BREAK	EYE - 9
Wednesday 20/03/2024	ENT - 9	C.M – L12 Z – Test Dr. Mohammad Munib	HOSPITAL WORK	Med – L5	PRAYER BREAK	Research – 5 Group: I Prof. Dr. Qarib Ullah Group: II Dr. Muneeb Group: III Dr. Ubaid Ullah Group: IV Dr. Shahab
Thursday 21/03/2024	Med – L6	C.M – L13 T – Test Dr. Mohammad Munib		Anesthesia – L3 Preoperative evaluation and risk assessment Dr. Khurshid Ahmad		Patho – L13 Myasthenia Gravis Dr. Jawad Khan
	Pharma – L12			12:15PM – 01	1:30PM	01:30PM - 03:30PM
Friday 22/03/2024	General Anesthetics Dr. Rahman Shah	ENT - 10		PRAYI BREA		EYE - 10

Week-6 Theme-6: (Paraplegia/ Numbness and tingling)

Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:00PM		
Monday 25/03/2024	Psychiatry – L7 Psychosis schizophrenic delusion Dr. Hussain	EYE - 11		Pharma – L13 Drugs of Parkinson Dr. Fawad Khalid		Prime – L1 Conflict resolution Dr. Ubaid Ullah		
Tuesday 26/03/2024				C.M – L14 Chi square test and its application Dr. Mohammad Munib	REAK	Prime – L2		
Wednesday 27/03/2024	Paed – L4 Muscular Dystrophy Dr. Usman Ali	C.M – L15 Correlation regression Prof. Dr. Qarib Ullah	HOSPITAL WORK	Med - L7		PRAYER BREAK	Research – 6 Group: I Prof. Dr. Qarib Ullah Group: II Dr. Muneeb Group: III Dr. Ubaid Ullah Group: IV Dr. Shahab	
Thursday 28/03/2024	Med – L8	C.M – L16 Rabies Dr. Mohammad Munib		Н	H	Anesthesia – L4 Preoperative evaluation and risk assessment Dr. Khurshid Ahmad		Neurosurgery – L1 Neurosurgical management of stroke and Subarachnoid hemorrhage Dr. Zaheer Uddin
				12:15PM – 01:30PM		01:30PM – 03:30PM		
Friday 29/03/2024	ENT - 11	EYE - 12		PRAYI BREA		ENT - 12		

Week-7 Theme-7: (Paraplegia/ Numbness and tingling)

Day/Date	08:00AM - 09:00AM	09:00AM - 10:00AM	10:00AM 12:00PM	12:15PM – 01:15 PM	01:15PM 01:30PM	01:30PM 03:00PM		
Monday 01/04/2024	Neurosurgery – L2 Traumatic paraplegia Spinal Tumor Dr. Zaheer Uddin	EYE - 13	WORK	Med – L9	K	ENT - 13		
Tuesday 02/04/2024	ENT - 14	Paed – L5	HOSPITAL WORK	C.M – L17 Rabies – II Dr. Mohammad Munib	PRAYER BREAK	EYE - 14		
Wednesday 03/04/2024	Orthopaedics – L1 Traumatic Paraplegia Dr. Yasir Iqbal	Family Medicine – L1 Rabies prophylaxis Dr. Mohammad Munib		Patho – L14	PRAY	Research – 7 Group: I Prof. Dr. Qarib Ullah Group: II Dr. Muneeb Group: III Dr. Ubaid Ullah Group: IV Dr. Shahab		
Thursday 04/04/2024								
Friday 05/04/2024	BLOCK – J OSPE EXAM							



11 For inquiry and troubleshooting

13. Module Evaluation Form

This is an example of feedback form and real-time feedback will be obtained through an electronic link and/or your LMS.

MBE	SS Year:	Block:	Block:		Module:		
Date	:	_					
1. (U	nsatisfactory) 2 (Fair)	3 (Satisfact	ory)	4 (Good)		5
(Exc	ellent)						
Cate	gory: Course Contents						
No.	Question		1	2	3	4	5
1	To what extent did the course conter	its align with the					
	stated learning objectives of the mod	_					
2	How clear and comprehensive were	the course materials					
	provided in this module?						
3	Were the core topics adequately cov						
	rounded understanding of the subjec						
4	How current and up-to-date were the	course contents in					
	reflecting recent advancements?	141:+:4					
5	Did the module incorporate real-wor case studies effectively?	id applications and					
	•						
	Category: Learning Resources	.1 1 1'			1		
6	Were the learning resources (e.g., te						
	materials, laboratory facilities) readi easily accessible?	iy avanable and					
7	How helpful were additional learnin	o resources such as					
,	supplementary readings or multimed						
8	Did the module offer adequate suppo						
	independent study?						
9	Were digital resources and online pla	atforms effectively					
	utilized to enhance the learning expe						
10	Were there sufficient opportunities f	=					
	and practical application of knowled	ge?					
1.1	Category: Teaching Methods						
11	How well did instructors engage wit a supportive learning environment?	n students and create					
12	Were diverse teaching methods (e.g.	lectures group					
12	discussions, simulations) effectively						
13	How responsive were instructors to						
	and feedback from students?						
14	To what extent did instructors provide	le timely and					
	constructive feedback on assignment						
15	Were opportunities for collaborative						
	peer interactions encouraged and fac						
No.	Category: Engagement and Motiv		1				
16	To what extent did the module use re	-					
17	and practical applications to engage How well were active learning techn						
1/	solving, case studies) integrated into						
	borving, case studies) integrated into	ane curricurum:					

23	How would you rate the overall quality of this module?	(Very Poor)	2 (Poor)	(Fair)	(Good)	-	Exce	llent)
No.	Category: Overall Question	4	5					
22	How effectively were accommodations provided for students with varying levels of prior knowledge?							
21	Were efforts made to include diverse perspectives, cultures, and backgrounds in the curriculum?							
20	How well did the module accommodate different learning styles and preferences among students?							
Cate	gory: Inclusivity and Diversity							
19	Were assessments designed to challenge and motivate students to excel in their studies?							
18	Did the module provide opportunities for students to pursue their individual interests within the subject matter?							

12 Students Diary/Notes

S.NO	DATE	TASK	PENDING/COMPLETED	COMMENTS