

COURSE CURRICULUM FOR SECOND PROFESSIONAL B.U.M.S

(PRESCRIBED BY NCISM)

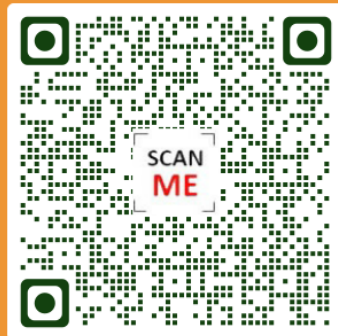
**ILME TIBBE QANOON WA ILMUL SAMOOM
(MEDICAL JURISPRUDENCE AND TOXICOLOGY)**

(SUBJECT CODE: UNIUG-TQS)

**(Applicable from 2021-22 batch, from the academic year 2023-24 onwards for 5 years or
until further notification by NCISM, whichever is earlier)**



**BOARD OF UNANI, SIDDHA AND SOWA-RIGPA
NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE
NEW DELHI-110058**



NCISM_II BUMS_

PREFACE

The syllabus of Unani System of Medicine requires to be designed and regularly updated to keep pace with other health systems, so as to Unani graduates and physicians too, in one hand, must be well equipped with necessary medicolegal knowledge and practical skills to deal with emergencies and legal cases and on the other hand, the health issues of ailing population and their rights are addressed and protected.

It is noteworthy to mention here that many Unani drugs especially of fourth grade are toxic in nature. So, the studies of their actions, mode of actions, indications and doses forms are of utter importance. In this context, Tibbe Qanooni (Medical Jurisprudence) and Ilmul Samoom (Toxicology) subjects have been considered from the beginning as integral parts of Unani syllabus.

Medical jurisprudence is a branch of medicine that deals with a broad range of medical, legal and ethical issues as well as human rights and rights of individuals. The applicability of this subject covers a wide variety of legal matters, including the legal responsibilities of medical practitioner that arise from the doctor-patient relationship such as medical negligence and ethics.

It is an undeniable fact that many substances we, as human beings, consume are not only toxic but can facilitate fatal consequences and this reality makes the Toxicology so crucial to the humans for their safety and to the students of Unani System of Medical education too, for their role in saving lives and treating the patients who are either poisoned or have consumed poisons.

In view of the significance and relevance of the subjects pointed out, sincere efforts have been made to frame the syllabus for both the subjects in their upgraded version with special focus on the rights of the patients and responsibilities of the doctors.

NCISM
II Professional Kamile Tib o Jarahat
(Bachelor of Unani Medicine and Surgery – B.U.M.S)
Subject Code: UNIUG-TQS

ILME TIBBE QANOON WA ILMUL SAMOOM
(MEDICAL JURISPRUDENCE AND TOXICOLOGY)

Summary

Total number of Teaching hours: 280		
Lecture hours (LH)-Theory		100 (LH)
Paper I	100 Hours	
Non-Lecture hours (NLH)-Theory		180 (NLH)
Paper I	54 Hours	
Non-Lecture hours (NLH)-Practical	126 Hours	

Examination (Papers & Mark Distribution)					
Item	Theory Component Marks	Practical Component Marks			
		Practical	Viva	Elective	IA
Paper I	100	100	20	10	20
Sub-Total	100	150			
Total marks	250				

Important Note:-The User Manual II BUMS is a valuable resource that provides comprehensive details about the curriculum file. It will help you understand and implement the curriculum. Please read the User Manual II before reading this curriculum file. The curriculum file has been thoroughly reviewed and verified for accuracy. However, if you find any discrepancies, please note that the contents related to the MSE should be considered authentic. In case of difficulty and questions regarding curriculum write to cur.imp@ncismindia.org

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Course Code and Name of Course

Course code	Name of Course
UNIUG-TQS	Ilme Tibbe Qanoon wa Ilmul Samoom

Table 1- Course learning outcomes and matched PO

SR1 CO No	A1 Course learning Outcomes (CO) UNIUG-TQS At the end of the course UNIUG-TQS, the students should be able to-	B1 Course learning Outcomes matched with program learning outcomes.
CO1	Justify powers and proceedings of courts related to Medical Profession and apply its scopes and limitations in ethical Medical Practice.	PO1, PO2, PO3, PO7
CO2	Perform <i>Shanakht</i> (Identification), Classify <i>JarooH</i> (Injuries) and evaluate <i>Maut</i> (Death) with Medico legal importance.	PO2, PO3
CO3	Distinguish various types of offenses, document & communicate them.	PO3, PO5, PO7
CO4	Assess Medico legal aspects of <i>Tauleed-e-Bashree</i> (Human Reproduction) and <i>Walldiyat</i> (Parenthood), Gender Importance & Rights and value associated Indian Laws & regulations.	PO2, PO3
CO5	Analyze basic principles of <i>Ilmus Samoom</i> (Toxicology), describe and apply related laws & ethics in cases of poisoning.	PO1, PO2, PO7
CO6	Demonstrate identification and management of all types of <i>Samoom</i> (Poisons) and <i>Zahr khoodrani</i> (Poisoning).	PO1, PO2, PO3
CO7	Appraise <i>Nasha Khori</i> (Addiction), its Medico legal aspects and management through De-addiction therapies.	PO1, PO2, PO3
CO8	Summarize research updates regarding poisoning and medicolegal cases.	PO6, PO8

Table 2: Contents of Course

Paper 1					
Part A					
Sr.No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 non- Lecture hours (Theory)
1	<p>طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Forensic Medicine)</p> <p>I. طب قانونی اور قوانین طب کی تعریف اور تاریخ پس منظر Definition and Historical background of Medical Jurisprudence and Forensic Medicine</p> <p>II. پیشہ طبابت میں مجرمانہ غفلت یا بد عنوانی اور ہندوستانی قوانین Medical Negligence or Malpractice & Indian laws.</p> <p>III. ہندوستانی عدالتیں، ان کے اختیارات اور طریقہ کار۔ قانونی سزائیں Indian Courts & their powers and proceedings. Sentences authorized by Law</p> <p>IV. طبی شواہد (طبی دستاویزات اور طبی قانونی رپورٹ)۔ Tibbi Shawahid (Medical evidences). Tibbi Asnaad (Medical certificates) and Medico legal reports</p> <p>V. طبی اخلاقیات Tibbi Akhlaqiyaat (Medical codes of conduct)</p> <p>VI. تفتیش Taftesh (Inquest)</p> <p>VII. اہم اصطلاحات Aham Istelahaat (Important Terminologies)</p> <p>VIII. علم الامراض قانونی Ilmul Amraz Qanooni (Forensic Pathology)</p> <p>IX. نفسیات قضائی یا قانونی</p>	1	17	10	4

	<p>Nafsiyate Qazayi ya Qanooni (Forensic Psychiatry)</p> <p>X. علم الادویہ قانونی</p> <p>Ilmul Advia Qanooni (Forensic Pharmacology)</p> <p>XI. تمریض قضائی یا قانونی</p> <p>Tamreeze Qazayi ya Qanooni (Forensic Nursing)</p> <p>XII. ریاستی طب</p> <p>Riyasati Tibb (State Medicine).</p> <p>XIII. سہل مرگی</p> <p>Sahl Margi (Euthanasia/ Mercy killing)</p> <p>XIV. جائے حادثہ یا جرم پر طبیب کے فرائض یا کردار</p> <p>Duties of physician at the scene of accident or Crime</p> <p>XV. ہندوستان میں پیشہ طبابت سے متعلق قوانین</p> <p>Laws and acts regulating medical practice in India</p>				
2	<p>شناخت Shanakht (Identification)</p> <p>I. تعارف اور اقسام</p> <p>Ta'aruf aur Aqsaam (Introduction and types)</p> <p>II. شناختی نکات (عمر، جنس، درمیانہ جنس، نسل، مذہب)</p> <p>Points of identification (Age, Sex , intersex, Race, Religion)</p> <p>III. خلقی یا پیدائشی خصوصیات (وجاہت یا خدو خال، نشانات انگشت و پاؤں)</p> <p>لب، بال، و دیگر خلقی بد وضعیاں اور ان کی طبی و قانونی اہمیت</p> <p>Congenital features (facial appearance, finger prints, foot prints, lip prints, hair) and other congenital malformations and their medico legal importance</p> <p>IV. اکتسابی خصوصیات (پیشہ وارانہ نشانات، گودنے یاوشم کے نشانات، ندبات اور دیگر بد وضعیاں)</p> <p>Acquired features (occupational marks, tattoo marks, scars & other malformations)</p> <p>V. ہاسپٹل کے اندر نوزائیدہ کے حادثاتی یا ارادی تبادلیہ کی صورت میں شناخت</p>	1		5	4

	<p>Identification in cases of accidental and intentional exchange of baby in the hospital</p> <p>VI. ڈی این اے، ڈی این اے فنگر پرنٹنگ کا بنیادی علم اور اس کی طبی و قانونی اہمیت</p> <p>Basic knowledge of DNA, DNA fingerprinting and its medico legal importance</p> <p>VII. نقش براری</p> <p>Naash Barari (Exhumation)</p>				
3	<p>زخم/جروح Zakhm /Jurooh (Wounds/Injuries)</p> <p>I. جروح کی یونانی تقسیم (تفرق اتصال)</p> <p>Unani classification of injuries (Tafarruqe Ittesaal)</p> <p>II. میکانی جروح</p> <p>Meekani Jurooh (Mechanical injuries)</p> <p>i. سچ یا خراش</p> <p>Sahaj/Kharash (Abrasion)</p> <p>ii. رض یا خدش</p> <p>Razz/Khadash (Bruise/contusion)</p> <p>iii. جرحہ مزقہ</p> <p>Jarha e Mumazziqah (Lacerated wound)</p> <p>iv. جرحہ شقیہ یا قطعیہ</p> <p>Jarha e Shaqqiya/Qataiyya (Incised wound)</p> <p>v. جرحہ و خزیہ یا جرحہ مشتبہ</p> <p>Jarha e Wakhziah (Punctured /Stab wound)</p> <p>vi. جروح ناریہ</p> <p>Jaroh e Nariya (Firearm injuries)</p> <p>III. جرحہ دفاعی</p> <p>Jarha e Defaa'yi (Defense wound)</p> <p>IV. زخم جعلی</p> <p>Zakhme Jaali (Fabricated wound)</p> <p>V. حرارتی جروح</p> <p>Hararti Jurooh (Thermal injuries):</p> <p>i. حرق</p>	2	6	5	5

	<p>Harq (Burns)</p> <p>ii. سلق Salq (Scald)</p> <p>iii. حرق کیمیائی Harqe Kimiyawi (Chemical burns)</p> <p>iv. حرق شعاعی Harqe Shu'aa'yi (Radiation burns)</p> <p>v. حرق برقی Harqe Barqi (Electrical burns)</p> <p>vi. حرق صاعقی Harqe Sayeqi (Lightning burns)</p>				
4	<p>علم الاموات Ilmul Amwaat (Thanatology)</p> <p>I. علم الاموات اور موت کی تعریف Ilmul Amwaat aur Maut ki Tareef (Definition of Thanatology & Death)</p> <p>II. درجات موت Darajate Maut (Stages of death)</p> <p>III. اسالیب یا نوعیت موت (غشی، اختناق اور قوما) Asaleebe/Nawayyate Maut (Modes of death)</p> <p>i. غشی Ghashi (Syncope)</p> <p>ii. اختناق Ikhtinaq (Asphyxia)</p> <p>iii. قوما Qoma (Coma)</p> <p>IV. مرگ مفاجات اور اس کے اسباب Marge Mafajaat (Sudden death) and its causes.</p> <p>V. موت کی نشانیاں Maut ki Nishaniya'n (Signs of death)</p> <p>i. فوری نشانیاں Fauri Nishaniyan (Immediate Signs)</p> <p>ii. ابتدائی نشانیاں Ibtidayi Nishaniyan (Early Signs)</p> <p>iii. آخری یا بعیدی نشانیاں Aakhri/Ba'eedi Nishaniyan (Late Signs)</p>	2	5	9	3

	<p>VI. اعضاء کی حیویت Aa'za ki Haiviyat (Viability of organs)</p> <p>VII. انتقال اعضاء کے بنیادی اصول Inteqale Aa'za ke bunyadi Usool (Fundamentals of organ transplantation)</p>				
5	<p>مرگ تشدد Marge Tashaddud (Violent death)</p> <p>I. اسباب و اقسام Asbab wa Aqsaam (Causes & types)</p> <p>II. خودکشی، قاتلانہ اور حادثاتی موت Khudkushi, Qatelana aur Hadesaati Maut (Suicidal, homicidal and accidental death)</p> <p>III. اغتناق اور اس کے درجات Ikhtenaaq aur uske Darajaat (Asphyxia and its stages)</p> <p>IV. تعلیق یا پھانسی Taleeq ya Phaansi (Hanging)</p> <p>V. تختیق یا گلا گھونٹنا Takhneeq ya Gala Ghontna (Strangulation)</p> <p>VI. تقطیس Taftes (Suffocation)</p> <p>VII. غرقابی یا تعریق Gharqabee/Taghreeq (Drowning)</p> <p>VIII. فاقہ کشی اور اس کی طبی و قانونی اہمیت Faqa Kashi (Starvation) and its medico legal importance</p>	2	10	6	3
6	<p>عنانت و عقر Ananat wa Uqr (Impotence & Sterility)</p> <p>I. عنانت کی تعریف، اسباب اور اس کی طبی و قانونی اہمیت Definition, causes and medico legal importance of Ananat (Impotency)</p> <p>II. عقر کی تعریف، اسباب اور اس کی طبی و قانونی اہمیت Definition, causes and medico legal importance of Uqr (Sterility)</p>	3	2	3	2

7	<p>دوشیزگی اور ازالہ بکارت</p> <p>Dosheezgi aur Izala'e Bukarat (Virginity & Defloration)</p> <p>I. دوشیزگی کی تعریف، علامات اور طبی قانونی اہمیت Definition, signs and medico legal importance of Virginity</p> <p>II. ازالہ بکارت کی تعریف، علامات اور طبی قانونی اہمیت Definition, signs and medico legal importance of Defloration</p> <p>III. دوشیزگی اور ازالہ بکارت کے مابین فرق Difference between Dosheezgi (virginity) and Izala'e Bukarat (Defloration)</p>	3	1	1	1
8	<p>Jinsi Jara'im (Sexual offences) جنسی جرائم</p> <p>I. فطری اور غیر فطری جنسی جرائم کی اقسام Types of Fitri (natural) and Ghair Fitri (unnatural) Jinsi Jara'em (sexual offences).</p> <p>II. زنا بالجبر اور لواطت یا انعام بازی کے بعد فاعل اور مفعول کا امتحان Examination of Fa'el (active agent) and Maf'ool (passive agent) after Zina bil-Jabr (rape) & lawatat (sodomy).</p> <p>III. خونی اور منوی دھبوں کا امتحان Khooni aur Manvi Dhabbo'n ka Imtihaan (Examination of blood & semen spots)</p>	3	2	2	1
9	<p>حمل و اسقاط حمل</p> <p>Hamal (Pregnancy) & Isqaate Hamal (Abortion)</p> <p>I. حمل کی طبی قانونی اہمیت Hamal ki Tibbi Qanooni Ahmiyat (Medico legal importance of pregnancy)</p> <p>II. تولید امدادی کی اقسام اور اس کی طبی قانونی اہمیت Tauleede Imdadi (Assisted reproduction), its types and medico legal importance</p> <p>III. اسقاط کی تعریف، اقسام، علامات و نشانیوں۔ اسقاط قانونی سے متعلقہ ہندوستانی قوانین اور حالیہ ترامیم Definition, types and clinical features of Isqaat (abortion). Isqaate Qanooni (MTP)</p>	3	5	5	2

	Act- 1971 and 1975 (India) and recent amendments. IV. قتل جنین Qatle Janeen (Feticide) V. طفل کشی یا قتل اطفال Tifl Kushi ya Qatle Atfal (Infanticide)				
10	گھریلو یا خانگی تشدد Ghareloo/Khangi Tashaddud (Domestic violence) I. طفل مضروب Tifle Mazroob (Battered baby) II. زوجہ مضروب Zaujah-e- Mazroob (Battered wife) III. مشائخ مضروب Masha'ikhe Mazroob (Battered elderly) IV. اطباء پر جسمانی تشدد Physical assault on doctors-IPC 354,-355	3	1	1	1
11	جنون یا دیوانگی Junoon ya Deewangi (Insanity) I. جنون کی تعریف اور اس سے متعلقہ اصطلاحات Definition of Junoon (Insanity) and its related terminologies II. دماغی صحتی قانون کے تحت تصدیق کرتے وقت اندراج شدہ پیشہ ور طبیب کے فرائض Duties of registered medical practitioner in the matter of certification under the Mental Health Act III. جنون صادق و کاذب کے مابین تفریق Differentiation between True and Feigned insanity IV. دماغی مریض کی معاشرتی اور مجرمانہ ذمہ داریاں Civil and Criminal responsibilities of Mentally ill person	3	1	3	1
Total Marks			50	50 hrs	27 hrs
Part B					

Sr.No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 non- Lecture hours (Theory)
12	<p>علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)</p> <p>I. علم السموم کی تعریف اور اس کی شاخیں Definition of Ilmus samoom and its Branches</p> <p>II. علم السموم کا تاریخی پس منظر Historical background of Ilmus Samoom</p> <p>III. زہر کی تعریف و تقسیم باعتبار یونانی و جدید علوم Definition of poison and its classification according to Unani and Modern science.</p> <p>IV. دواء اور زہر کے درمیان فرق Difference between Dawa and Zahr (Drug & Poison)</p> <p>V. ادویہ اور سموم کے استعمال سے متعلقہ ہندوستانی قوانین Laws related to use of drugs & poisons in India</p> <p>VI. زہر خورانی اور ہندوستانی قوانین Zahr Khoorani aur Hidustani Qawaneen (Poisoning & Indian laws)</p> <p>VII. زہر خورانی کے معاملات میں طبیب کے فرائض Duties of Tabeeb (doctor) in cases of poisoning</p> <p>VIII. زہروں کے جسم میں داخل ہونے کے راستے اور زہروں کا جسم میں انجام Routes of administration & Fate of poisons in the body.</p> <p>IX. زہروں کے افعال Zahron ke Af'aa'l (Actions of poisons)</p> <p>X. افعال سموم کو متاثر کرنے والے عوامل</p>	1	12	10	5

	<p>Modifying factors of the action of poisons XI. زہر خورانی کی تشخیص Zahr Khoodrani ki Tashkhees (Diagnosis of poisoning) XII. زہر خورانی کا عمومی اصول علاج (یونانی اور جدید) General principles of treatment in poisoning (Unani & Modern) XIII. تعریف و تقسیم (یونانی اور جدید): تریاقات Antidotes: Definitions & Classification (Unani & Modern) XIV. تحفظ اعضاء کے مواقع اور طریقہ کار Indications and Methods of Preservation of viscera XV. معمل قانونی یا قضائی کا تعارف اور وضاحت Introduction and Description of Forensic science laboratory (FSL)</p>				
13	<p>سموم اکالہ Samooome Akkalah (Corrosive Poisons) حامضات یا تیزابات Hamizaat / Tezabaat (Acids): I. تیزاب گندھک یا حامض کبریت Tezabe Gandhak/Hamize Kibreet (Sulphuric Acid) II. تیزاب نمک یا حامض لمبی Tezabe Namak/Hamize Milhi (Hydrochloric Acid) III. تیزاب شورہ Tezabe Shora (Nitric Acid) IV. تیزاب سرکہ یا حامض غلی Tezabe Sirka ya Hamize Kha'lli (Acetic Acid) V. حامض قطران Hamize Qatraan (Carbolic Acid), VI. تیزاب آکزیلیک Tezabe Akzelik (Oxalic Acid) VII. تیزاب ہائیڈروسائیٹک</p>	1	3	5	3

	<p>Tezabe Hydrocyanic (Hydrocyanic Acid). اساسات یا قلوویات Asasaat/Qalviyaat (Alkalis): I. نظرون کاوی Natroone Kaavi (Sodium Hydroxide/Caustic Soda) II. قلمی کاوی Qalmi Kaavi (Potassium Hydroxide/ caustic Potash) III. چونا Choona (Calcium oxide)</p>				
14	<p>سوم لاذع یا مخرشہ Samoom Laziyah/ Mukharrisha (Irritant Poisons) معدنی مخرشات اور ان کے سمی مرکبات Ma'dani Mukharrishat aur unke Murakkabat (Metallic Irritants and their toxic Compounds): I. سم الفار یا سکنیا Sammul Faar/ Sankhiya (Arsenic) II. سیماب یا پارہ Seemab/ Para (Mercury) III. سیسہ Seesa (Lead) IV. سرمہ یا اشمہ Surma /Asmad(Antimony) غیر معدنی مخرشات Ghair Ma'dani Mukharrishat (Non-Metallic Irritants): I. خضرین Khizreen (Chlorine) II. نشین Nafsheen (Iodine) III. نورین Nooreen (Phosphorus)</p>	2	15	8	5

	<p>نباتی مخرشات</p> <p>Nabaati Mukharrishat (Plant Irritants):</p> <p>I. بلادر یا بھلاواں Baladur ya Bhilawa'n (<i>Semicarpus anacardium</i>)</p> <p>II. مدار Madar (<i>Calotropis</i>)</p> <p>III. حب السلاطین یا جما لگوٹہ Habbus Salateen/Jamalgota (<i>Croton tiglium</i>)</p> <p>IV. اندرائن یا شحم حنظل Indarayin/Shahme Hanzal (<i>Citrulus colocynth</i>)</p> <p>V. رتی یا گھونگھی Ratti/Ghungchi (<i>Abrus precatorious</i>)</p> <p>VI. شیطرج یا لال چترہ Sheetraj/ Lalchitra (<i>Plumbago zeylanica</i>)</p> <p>حیوانی مخرشات</p> <p>Haiwaani Mukharrishat (Animal Poison):</p> <p>I. لدغ الحیہ یا مار گزیدگی Ladaghul Hayyah/Maar Ghazeedgi (Snake Bite)</p> <p>II. لدغ العقرب یا عقرب گزیدگی Ladaghul Aqrab/Aqrab Ghazeedgi (Scorpion bite)</p> <p>III. ذراتح یا تیلینی مکھی Zarareeh ya Telni Makkhi (Cantharides)</p> <p>IV. لدغ زنبور Ladaghe Zamboor (Wasp sting)</p> <p>V. شھد کی مکھی Shahad ki Makkhi (Honey bee sting)</p>				
15	<p>سموم عصبیہ</p> <p>Samoom Asbiyah (Neurotic Poisons)</p> <p>دماغی سموم عصبیہ</p> <p>Demaghi Samoom Asbiyah (Cerebral Neurotics):</p>	2		6	3

	<p>I. افيون Afiyoon (Opium)</p> <p>II. شراب يا الكحول (ايتهائل اور ميتھائل) Sharab ya Alcohol (Ethyl & Methyl)</p> <p>III. كلوروفارم Chloroform</p> <p>IV. مٹی کا تیل ياروغن گل Mittika Tel/Roghne Gil (Kerosene oil)</p> <p>V. كوكين Cocaine (Erythroxyllum coca)</p> <p>VI. بھنگ Bhang (Cannabis)</p> <p>VII. جوز ماشل يادھتورہ Jauze Ma'sil /Dhatura (Thorn apple)</p> <p>VIII. يبروج Yabrooj (Belladona)</p> <p>نخاعي سموم عصبية Nukhayi Samoome Asbiyah (Spinal Neurotics)</p> <p>I. اذراتي ياكلدہ Azaraqi/Kuchla (Strychnos nuxvomica)</p>				
16	<p>سموم قلبية Samoome Qalbiyah (Cardiac Poisons)</p> <p>I. بيش ياميتھاتيليا Beesh/MeethaTeelia (Aconite)</p> <p>II. تمباکو Tambakoo (Tobacco)</p>	2	5	4	3
17	<p>سموم تنفسية Samoome Tanaffusiyah (Irrespirable Poisons/Asphyxiants)</p> <p>I. کاربن مونو آکسائیڈ Carbon monoxide</p> <p>II. کاربن ڈائی آکسائیڈ Carbon dioxide</p>	3	2	5	1

18	<p>زراعتی اور گھریلو سموم Zara'ati aur Ghareloo Samoom (Agricultural & Household Poisons)</p> <p>I. ٹک ٹوٹی Tick-20</p> <p>II. نیفتھلین بالز Naphthalene balls</p> <p>III. ڈی ڈی ٹی پاؤڈر DDT Powder</p> <p>IV. المونیم فوسفیٹ Aluminium Phosphate</p> <p>V. جراثیم کش ادویہ Jaraseem kush Advia (Pesticides)</p> <p>VI. زیبائشی یا آرائشی مواد Cosmetics: (Hair dyes, Shampoos, Lipsticks, Skin Creams, Eye lotions & Eye Shades etc)</p>	3	6	5	2
19	<p>متفرقات Mutafarriqat (Miscellaneous)</p> <p>I. نشہ خوری و نشہ کشی Nasha Khori aur Nasha kushi (Drug addiction/Abuse and De-addiction)</p> <p>II. غذائی سمیت Ghizayi Sammiyat (Food Poisoning)</p>	3	7	7	5
Total Marks			100	100 hrs	54 hrs

Table 3: Learning objectives (Theory) of Course

Paper 1									
Part A									
A3 Course outcome	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domain/ sub	D3 Must to know / desirable to know / Nice to know	E3 Level Does/ Shows how/ Knows how/ Know	F3 T-L method	G3 Assessment (Refer abbreviations)	H3 Formative/ summative	I3 Term	J3 Integration
Topic 1 طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Forensic Medicine) (Lecture: 10 hours, non-lecture: 4 hours)									
CO1	Define Qawaneen e Tib (Medical Jurisprudence), Tibbe Qanooni (Forensic Medicine), Riyasateeb Tib (State medicine), Ilmu amraz Qanooni (Forensic pathology), Ilmu advia Qanooni (Forensic Pharmacology), Ilme Nafsiyat Qanooni (Forensic psychiatry), Tamreeze Qanooni (Forensic nursing)	CK	MK	K	L, L&PPT	P-VIVA, TH	F&S	I	
CO1	Explain Historical Background of Tibbe Qanooni	CK	DK	K	L, L&PPT, L&GD	P-VIVA, TH	F&S	I	
CO1	Discuss laws related with Medical Practice/Malpractice, Enlist Clinical Establishment	CK	MK	K	L, L&GD	P-VIVA, TH	F&S	I	

	(Registration and Regulation) Act, 2010 of Central Govt./State Govt								
CO1	Explain Euthanasia/ Mercy Killing	CK	DK	K	L, L_VC, DIS, CBL	P-VIVA, DEB, TH	F&S	I	
CO1	Classify Indian Courts and discuss its proceedings, powers and sentences authorized by law.	CK	MK	K	L&GD, RP, FV	P-VIVA, TH	F&S	I	
CO1	Define and classify Gawah (Witness). Explain Parwana Talbi (subpoena/summon), Muaweza e Peshwae (conduct money) and Hal'f (Oath)	CK	MK	K	L, RP	P-VIVA, TH	F&S	I	
CO1	Explain recording of Shahadat (Evidence): direct examination, cross examination, re-examination and Questions by judge/court	CK	MK	K	L, L_VC, RP	P-VIVA, TH	F&S	I	
CO1	Describe Tafteesh (Inquest) and its types, panchnama (inquest Report), perjury (Gawah Kazib) and Mukhalif Gawah (Hostile witness)	CK	MK	K	L, DIS, RP	P-VIVA, TH	F&S	I	
CO1	Define and Classify Tibbi Shahadat (Medical Evidences) and describe oral and documentary medical evidences	CK	MK	K	L, L&PPT, L_VC	P-VIVA, P-EXAM, TH	F&S	I	
CO1	Differentiate between Bayane Naz'yi (Dying Declaration) & Shahadate Naz'yi (Dying deposition) & its Medicolegal Importance	CAP	MK	KH	L, RP	P-VIVA, TH	F&S	I	
CO1	Discuss the principles to be remembered by a medical witness in giving evidence.	CAP	MK	KH	L, L_VC	P-VIVA, TH	F&S	I	

CO1	Describe the preparation of Dastawezi Tibbi Shahadat (Documentary Medical Evidences) i.e. Medical Certificates and Medico legal Reports)	CAP	MK	SH	L, BS	P-VIVA, P-EXAM, TH	F&S	I	
CO1	Describe Tibbi Akhlaqiyaat (Medical Codes of Conduct)	CAP	MK	K	L, L&PPT, BS, RP	P-VIVA, TH	F&S	I	
CO1	Describe the duties of Physician at the scene of accident/crime	CAP	MK	K	L&GD, SIM, RP	T- EW, P-VIVA, PRN, TH	F&S	I	
CO1	Summarise important provisions of constitution of India	CE	DK	KH	L&PPT	P-REC	F	I	
CO1	Summarise important provisions of Indian Evidence act (IEA)	CE	MK	K	L&PPT	P-REC	F	I	
CO1	State The National Medical Commission Act-2019	CK	DK	K	L&PPT	P-REC	F	I	
CO1	State Indian Medicine Central Council Act-1970	CK	MK	KH	L&PPT	P-REC	F	I	
CO1	State Drugs and cosmetics Act 1940	CK	MK	KH	L&PPT	INT	F	I	
CO1	State Drugs and Magic remedies [objectionable] advertisement act 1954	CK	MK	K	L&PPT	INT	F	I	
CO1	State Drugs Control Act 1950	CK	DK	K	L&PPT	INT	F	I	
CO1	Explain Important Provisions of Indian Penal Codes: IPC88-93, 197, 272, 273, 274, 275, 276, 284, 302, 304, 304A, 304B, 306, 309, 312-316, 320, 323, 324, 375, 376, 377, 497.	CK	DK	KH	L&PPT, DIS	T-OBT, QZ	F&S	I	
CO1	Explain Important Provisions of CrPC 174	CK	DK	KH	L&PPT	QZ	F&S	I	

CO1	<p>Explain the Basic provisions of Laws Related to Medical Practice</p> <ul style="list-style-type: none"> Anatomy Act 1957 Mental Health Act 1987 Pharmacy Act 1948 Poison Act 1919 Prevention of food Adulteration Act 1954 Protection of Human Rights Act 1993 Registration of Birth and Death Act 1969 Transplantaion of Human Organ Act 1994 The Food Safety and Standards Act 2006 PoCSO Act 2004 Clinical Establishment Act 2010 Code pink 	CK	MK	KH	L&PPT	T-OBT, M-CHT	F&S	I	
CO1	Explain Laws Regulating Emergency Medical Care given by AYUSH Medical Practitioner/Rights and Privileges of AYUSH Medical Practitioner	CK	MK	K	DIS	INT	F&S	I	
CO1	Explain Procedures for Obtaining Licence for Qarabadeeni and Patent Drug (State/Central Regulations)	CK	DK	KH	L&PPT	INT	F	I	
<p>Topic 2</p> <p>شناخت</p> <p>Shanakht (Identification)</p> <p>(Lecture: 5 hours, non-lecture: 4 hours)</p>									
CO2	Define and classify the Shanakht (Identification)	CK	MK	K	L, L&PPT	P-VIVA, TH	F&S	I	
CO2	Describe the medico-legal importance of Umr (age)	CAN	MK	K	L, DIS	P-VIVA, TH	F&S	I	

CO2	Determine the Umr (Age) through Teeth, Ossification of bones, Height and weight, and miscellaneous particulars	CAN	MK	KH	L,L&PPT,X Ray	P-VIVA, P-RP, TH	F&S	I	
CO2	Determine the Jins (Sex) and explain Darmiyana Jins (intersex) and Poshidah/Makhfi Jins (concealed sex), Qaumiyat (Race), Mazhab (Religion)	CAN	MK	KH	L, L&PPT	P-VIVA, P-EXAM, TH	F&S	I	
CO2	Determine the ages of various stages of Janeen (foetus)	CAN	MK	KH	L, L_VC	P-VIVA, TH	F&S	I	
CO2	Determine the Anthropometry Stature and Height	CAN	MK	KH	L, L&PPT, L&GD	P-VIVA, P-EXAM, P-PRF, TH	F&S	I	
CO2	Estimate the body height by various body parts like arm, vertebral column and foot etc.	CAN	MK	KH	L, L&PPT, L_VC	P-VIVA, P-EXAM, TH	F&S	I	
CO2	Identify the person through Congenital features i.e., facial appearance, hairs and other congenital malformations and explain their medico-legal importance	CAN	MK	KH	L, L&PPT	P-VIVA, P-EXAM, M-POS, TH	F&S	I	
CO2	Explain the finger prints, foot prints, lip prints and discuss the accidental/intentional exchange of baby in the hospital. Describe Code pink	CAN	MK	KH	L, L&PPT, L_VC, RP	P-VIVA, P-EXAM, P-PRF, TH	F&S	I	
CO2	Identify the person through Acquired features (Occupational Marks, Tattoo Marks, Scars & other Malformations)	CAN	MK	KH	L, L&PPT	P-VIVA, P-EXAM, M-CHT, TH	F&S	I	
CO2	Describe Basic knowledge of DNA, DNA fingerprinting and its Medico legal Importance	CK	DK	K	L, L&PPT, L_VC	P-VIVA, P-EXAM, PRN, TH	F&S	I	V-MZ

CO2	Define Naash Braari (Exhumation) and describe its Procedure	CK	MK	K	L, L_VC	T-OBT, P-VIVA, P-EXAM, TH	F&S	I	
<p>Topic 3 زخم/جروح Zakhm /Jurooh (Wounds/Injuries) (Lecture: 5 hours, non-lecture: 5 hours)</p>									
CO2	Define and Classify Jurooh (Injuries)	CK	MK	K	L, L&PPT	P-VIVA, P-EXAM, TH	F&S	II	V-IJ
CO2, CO8	Explain causative factors and Medicolegal Importance of different types of Jurooh (Injuries)	CK	MK	K	L, L&PPT, L&GD	P-VIVA, TH	F&S	II	V-IJ
CO2, CO8	Identify and describe characteristic features, causative factors and medicolegal importance of Sahaj (Abrasion), Razz/Khadash (Bruise/contusion), Jarha-e-Mumazziqah (lacerated wound), Jarha e Shaqqiya/Qatayiya (Incised wound), Jarha-e-Wakhziah (Punctured wound/Stab wound) and Jarha e Nariyah (Firearm injuries), Defaayi Zakhm (Defense wound, Zakhme Jaali (Fabricated wound)	CAP	MK	KH	L, L&PPT, D-M	P-VIVA, P-EXAM, M-POS, TH	F&S	II	V-IJ
CO2	Differentiate between Jarha e Qablal maut (Ante Mortem wounds) and Jarha e Ba'dal maut (Post Mortem wounds)	CAN	MK	KH	L&PPT, L_VC, D-M	P-VIVA, TH	F&S	II	V-IJ
CO2	Define and classify Harq (Burns) and Salq (Scald)	CK	MK	K	L&PPT, L_VC, CBL, D-M	P-VIVA, TH	F&S	II	V-IJ

CO2	Describe chemical burns, radiation burns, electrical burns and lightning burns.	CK	MK	K	L&PPT, L_VC	P-VIVA, P- EXAM, PRN, TH	F&S	II	V-IJ
CO2, CO8	Identify stages, estimate the severity of Harq (Burn), Differentiate between Ante Mortem & Post Mortem Harq (Burn); Explain causes of death in cases of burn and its Medico legal importance.	CK	MK	K	L&PPT	P-VIVA, TH	F&S	II	V-IJ
<p>Topic 4 علم الاموات</p> <p>Ilmul Amwaat (Thanatology) (Lecture: 9 hours, non-lecture: 3 hours)</p>									
CO2	Define Maut (Death) and Explain the Stages of Death and their importance	CK	MK	K	L, L&PPT, DIS, PER	P-VIVA, TH	F&S	II	V-MOA
CO2	Describe Asaleebe maut (Modes of Death) and their postmortem examination, Differentiate between Nizami (Systemic/Somatic) and Khalyati maut (cellular/molecular death)	CK	MK	K	L_VC	P-VIVA, TH	F&S	II	H-MA
CO2	Define Marge mafajat (Sudden Death) and enumerate its causes	CK	MK	K	L, L&PPT, L&GD, BS,PrBL	P-VIVA, TH	F&S	II	H-MA, V- MOA
CO2	Identify Fauri alamaat (Immediate Signs) of Death and Examine Insensibility and loss of ECG rhythm, Cessation of Circulation, Respiration and Sensation	CC	MK	K	L&GD, L_VC	P-VIVA, TH	F&S	II	V-MOA
CO2	Define suspended animation (apparent death) and explain its mechanism and types	CC	NK	K	L, DIS, FC	P-VIVA, TH	F&S	II	V-MOA

CO1, CO2, CO8	Describe Viability period of different Organs, Organ Transplantation, Ethics & laws related to organ Transplantation and its Medico legal importance	CK	DK	K	L, L_VC, BS	P-VIVA, TH	F&S	II	H-MA, V-MOA
CO2	Identify Early Signs of Death, Describe Postmortem Changes in Eyes, Skin, muscles, Conditions simulating Rigor Mortis, postmortem cooling and postmortem calorificity	CC	MK	K	L&PPT, L&GD, L_VC	P-VIVA, TH	F&S	II	V-MOA
CO2, CO8	Explain Late Signs of Death: Putrefaction, adipocere formation and mummification and their medicolegal importance	CK	MK	K	L&PPT	P-VIVA, TH	F&S	II	V-MOA
<p>Topic 5 مرگ تشدد</p> <p>Marge Tashaddud (Violent death) (Lecture: 6 hours, Non lecture: 3 hours)</p>									
CO2	Define and classify Marge Tashaddud (Violent death)	CK	MK	K	L&PPT, L&GD, BS	P-VIVA, TH	F&S	II	
CO2	Explain and classify Habse Tanaffus (Asphyxia)	CK	MK	K	L&PPT, L_VC	P-VIVA, TH	F&S	II	
CO2, CO8	Explain Ghashi (Syncope) and coma its causes and medicolegal importance	CK	MK	K	L&PPT	P-VIVA, TH	F&S	II	
CO2, CO8	Describe Hanging, its post mortem appearances and medicolegal importance	CC	MK	K	L&PPT, L&GD, D-M	P-VIVA, P-EXAM, TH	F&S	II	
CO2, CO8	Describe Strangulation, its post mortem appearances and medicolegal importance	CC	MK	K	L&PPT, D-M	P-VIVA, P-EXAM, TH	F&S	II	

CO2, CO8	Explain Throttling, Smothering, Gagging, Choking their post mortem appearances and medicolegal importance	CC	MK	K	L&PPT, L_VC, D-M	P-VIVA, P-EXAM, M-POS, TH	F&S	II	
CO2, CO8	Describe Suffocation its post mortem appearances and medicolegal importance	CC	MK	K	L&PPT, L_VC, D-M	P-VIVA, P-EXAM, TH	F&S	II	
CO2, CO8	Describe Drowning and Explain its Mechanism, post mortem appearances and medicolegal importance	CC	MK	K	L&PPT, L_VC, D-M	P-VIVA, P-EXAM, TH	F&S	II	
CO2, CO8	Describe Faqa Kashi (Starvation), its post mortem appearances and medicolegal importance	CK	MK	K	L&PPT, L_VC	P-VIVA, P-EXAM, TH	F&S	II	
<p>Topic 6</p> <p>عنانت و عقر</p> <p>Ananat wa Uqr (Impotency & Sterility) (Lecture: 3 hours, non-lecture: 2 hours)</p>									
CO4	Define Ananat (Impotency) and Uqr (sterility)	CK	DK	K	L, L&GD, DIS, BS	P-VIVA, TH	F&S	III	V-QAN
CO4, CO8	Explain causes and Medicolegal importance of Ananat (Impotency) and Uqr (Sterility)	CK	DK	K	L, L&GD, L_VC, DIS	P-VIVA, TH	F&S	III	H-MA, V-MOA
<p>Topic 7</p> <p>دوشیزگی اور ازالہ بیکارت</p> <p>Dosheezgi aur Izala'e Bukarat (Virginity & Defloration) (Lecture: 1 hours, non-lecture: 1 hours)</p>									
CO4	Define Dosheezgi (Virginity) and Izala e bukarat (Defloration)	CK	MK	K	L, L&PPT, DIS	P-VIVA, TH	F&S	III	V-QAN

CO4	Enlist types of Parda e bukarat (Hymen)	CK	NK	K	L&PPT, L_VC, SDL, D-M	P-VIVA, TH	F&S	III	V-QAN
CO4, CO8	Explain signs and medicolegal importance of Dosheezgi and Izala e bukarat	CC	NK	K	L&PPT, L_VC, SDL	P-VIVA, TH	F&S	III	V-QAN
CO4	Differentiate between Dosheezgi e Sadiq (true virginity) and Dosheezgi e kazib (false virginity)	CC	NK	K	L&PPT, SDL	P-VIVA, TH	F&S	III	V-QAN
CO4	Explain causes of Izala e Bukarat (Defloration)	CK	NK	K	L, SDL	P-VIVA, TH	F&S	III	H-MA, V- QAN, V- IJ
<p>Topic 8 جنسی جرائم Jinsi Jara'im (Sexual offences) (Lecture: 2 hours, non-lecture: 1 hours)</p>									
CO3	Define and classify Jinsee Jara'im (Sexual Offences)	CK	NK	K	L, L&GD, L_VC, LS	P-VIVA, TH	F&S	III	
CO3	Explain Zina Bil Jabr (Rape)	CK	NK	K	L, L&PPT, L&GD	P-VIVA, TH	F&S	III	V-MOA
CO3	Describe examination of Fa'el (Active Agent) and Maf'ool (Passive Agent) after Zina bil Jabr (Rape) & Lawatat (Sodomy)	CK	DK	K	L, L&GD, L_VC	P-VIVA, TH	F&S	III	H-MA, V- MOA, V- QAN
CO3	Describe Examination of Blood & Semen Spots and their medicolegal importance	CC	DK	K	L&PPT, L_VC	P-VIVA, TH	F&S	III	

CO3	Describe Lawatat (Sodomy) and various unnatural sexual offences	CK	DK	K	L, L&PPT	P-VIVA, TH	F&S	III	
<p>Topic 9 حمل واستقاط حمل Hamal (Pregnancy) & Isqaate Hamal (Abortion) (Lecture: 5 hours, non-lecture: 2 hours)</p>									
CO4, CO8	Define Hamal (Pregnancy) and explain its signs and medicolegal importance.	CC	DK	K	L, L&PPT, L_VC	P-VIVA, TH	F&S	III	V-QAN
CO4	Describe Tauleede Imdadi (Assisted Reproduction) and its Medico legal importance.	CC	MK	K	L, L&PPT, L_VC, DIS	P-VIVA, TH	F&S	III	V-MOA, V-QAN, V-IJ
CO4	Explain Imnaye Istenayi (Artificial insemination), its Types & procedures	CK	MK	K	L, L_VC	P-VIVA, TH	F&S	III	V-QAN, V-IJ
CO4, CO8	Describe Daroone Rahmi Ikhsab (Invitro Fertilization-IVF) and Ma'dare Mutabadil (Surrogate Motherhood) & their Medicolegal importance	CK	MK	K	L, L&PPT, L_VC	P-VIVA, TH	F&S	III	V-QAN, V-IJ
CO1, CO4, CO8	Describe Cloning , its types and related ethics	CC	DK	K	L, L_VC	P-VIVA, PRN, TH	F&S	III	
CO4, CO8	Define and classify Isqate Hamal (Abortion), Differentiate between Qanooni Isqate Hamal (Legal Abortion) and Ghair Qanooni/Mujremana Isqate Hamal (illegal/Criminal Abortion)	CC	MK	K	L, L&PPT, L_VC	T-OBT, P- VIVA, TH	F&S	III	V-QAN
CO3	Describe signs of Isqate Hamal (Abortion) and its medicolegal importance	CK	DK	K	L, L&PPT	P-VIVA, P- EXAM, TH	F&S	III	V-QAN, V-IJ

CO4	Explain MTP (India) Act 1971 & 1975 and recent amendments	CK	MK	K	L, L&PPT, DIS	P-VIVA, TH	F&S	III	V-QAN, V-IJ
CO4, CO8	Define Qatle Janeen (Feticide), Qatle Atfal (Infanticide) and describe their Medicolegal importance	CK	DK	K	L&PPT, L_VC	P-VIVA, TH	F&S	III	V-QAN, V-IJ
<p>Topic 10 گھریلو یا خانگی تشدد</p> <p>Ghareloo/Khanghi Tashaddud (Domestic violence) (Lecture: 1 hours, non-lecture: 1 hours)</p>									
CO4	Describe the Tifl-e-Mazroob (Battered baby), Zaujah-e-Mazroob (Battered wives) and Mashaikh-e-Mazroob (Battered Elderly)	CK	MK	K	L&PPT, DIS	T- EW, P-VIVA, CR-RED, TH	F&S	III	V-MOA, V-IJ
CO4, CO8	Explain the Medico-legal importance of Tifl-e-Mazroob (Battered baby), Zaujah-e-Mazroob (Battered wives) and Mashaikh-e-Mazroob (Battered Elderly)	CK	NK	K	L, L&PPT	T-OBT, P-VIVA, TH	F&S	III	
CO4, CO8	Describe -Physical assault on doctors-IPC 354, -355	CK	MK	K	L&GD	P-VIVA, TH	F&S	III	
<p>Topic 11 جنون یا دیوانگی</p> <p>Junoon ya Deewangi (Insanity) (Lecture: 3 hours, non-lecture: 1 hours)</p>									
CO3	Define Junoon (Insanity), Qanooni Junoon (Legal insanity) and Certifiable mental illness	CK	MK	K	L, L&PPT, L&GD	P-VIVA, TH	F&S	III	
CO3	Describe Mental Health Act 1987	CK	MK	K	L, L&GD, DIS	P-VIVA, TH	F&S	III	
CO3	Define Hazyan (Delirium), Wahm (Delusion), Tawahhum (Hallucination), Iltebaas (Illusion), Lucid	CK	MK	K	L, L_VC	P-VIVA, TH	F&S	III	V-MOA

	interval, Balahat (Schizophrenia), Zawale Aql (Dementia)								
CO3	Describe the diagnosis of Izterabe Aqlee (Mental disorders)	CC	MK	K	L, L&PPT, L_VC, PBL, CBL	P-VIVA, TH	F&S	III	V-MOA
CO3	Describe duties of registered medical practitioner in the matter of certification under the Mental Health Act.	CK	MK	K	L, L&GD, DIS, RP	P-VIVA, TH	F&S	III	
CO3	Differentiate between Junoon e sadiq (True insanity) and Junoon e kazib (Feigned insanity)	CC	MK	K	L, L_VC, CBL, RP	P-VIVA, TH	F&S	III	V-MOA

Part B									
A3 Course outcome	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Domain/sub	D3 Must to know / desirable to know / Nice toknow	E3 Level Does/ Shows how/ Knows how/ Know	F3 T-L method	G3 Assessment	H3 Formative/ summative	I3 Term	J3 Integration
Topic 12 علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology) (Lecture: 10 hours, non-lecture: 5 hours)									

CO5	Define Ilmus Samoom (Toxicology)	CK	MK	K	L, L&PPT	P-VIVA, TH	F&S	I	
CO5	Enlist branches of Ilmus Samoom (Toxicology)	CK	MK	K	L, L&PPT	P-VIVA, TH	F&S	I	
CO5	Explain Tareekhi Pasmanzar (Historical backgrounds) of Ilmus Samoom (Toxicology)	CK	MK	K	L, L&PPT, L&GD	P-VIVA, TH	F&S	I	
CO5	Define Zahr/Sam (Poison)	CC	MK	K	L&PPT	P-VIVA, TH	F&S	I	
CO5	Classify the Zahr/Samoom (Poisons)	CC	MK	K	L, L&PPT, GBL	P-VIVA, TH	F&S	I	
CO5	Differentiate between Dawa and Zahr/Sam (Drug and Poison)	CC	MK	K	L, L&PPT, BS, FC	P-VIVA, TH	F&S	I	
CO1, CO5	Describe and enlist Laws related to Poisons & Poisoning in India	CK	MK	K	L, BS, TUT	P-VIVA, TH	F&S	I	
CO1, CO5	Explain the duties of Doctors in Poisoning Cases	CK	MK	K	L, L_VC, RP	P-VIVA, TH	F&S	I	
CO5	Explain Routes of administration, actions, fate and factors modifying the actions of poisons.	CK	MK	K	L&PPT, L_VC	P-VIVA, PRN, TH	F&S	I	
CO5	Describe the diagnosis of poisoning in living and dead.	CK	MK	K	L&PPT, L_VC	P-VIVA, TH	F&S	I	
CO5	Describe general principles of treatment of poisoning (Unani & Modern)	CK	MK	K	L&PPT, L_VC, DIS	T-OBT, P-VIVA, TH	F&S	I	
CO5	Enlist both Single & Compound Unani Tiryaaqat (Antidotes) and describe their indications	CK	MK	K	L&PPT, D	P-VIVA, TH	F&S	I	

CO5	Define and Classify Tiryaaqat (Antidotes) and describe their indications.	CK	MK	K	L&PPT, DIS	P-VIVA, P-EXAM, QZ, TH	F&S	I	
CO5	Explain indications, contraindications and procedure of Ghasle Meda (Gastric lavage)	CC	MK	KH	L&PPT, L_VC, D-M	P-VIVA, P-EXAM, P-PRF, TH	F&S	I	
CO5	Describe Muqiyat (Emetics) and explain their indications and contraindications	CC	MK	K	L&PPT	P-VIVA, TH	F&S	I	
CO5	Classify Muqee advia (Emetic Drugs)	CK	MK	K	L&PPT	P-VIVA, TH	F&S	I	
CO5	Explain the methods of induction of Qai (Emesis)	CC	MK	K	L&PPT, L_VC, D-M	P-VIVA, TH	F&S	I	
CO5	Describe Tahaffuze Ahsha (Preservation of viscera) indications, material to be preserved, preservatives used and methods of preservation.	CC	MK	K	L&PPT, L_VC, DIS	P-VIVA, TH	F&S	I	
CO5	Explain Packing & dispatch of viscera and describe Forensic Science Laboratory (FSL)	CK	NK	K	L&PPT, L_VC, DIS	P-VIVA, TH	F&S	I	
Topic 13 سوم اكاله Samoom Akkalah (Corrosive Poisons) (Lecture: 5 hours, non-lecture: 3 hours)									
CO6	I. Classify the Samoom-e-Akkalah (Corrosive Poisons) II. Explain the mode of actions of Samoom-e-Akkalah (Corrosive Poisons)	CK	MK	K	L, L&PPT	P-VIVA, TH	F&S	I	H-IA

	<p>III. Describe the complications of Samoom-e-Akkalah (Corrosive Poisons)</p> <p>IV. Define and identify:</p> <ul style="list-style-type: none"> • Tezab-e-Gandhak (Sulphuric Acid) • Tezab-e-Namak (Hydrochloric Acid) • Tezab-e-Shora (Nitric Acid) • Tezab-e-Sirka (Acetic Acid) • Hamiz-e-Qatran (Carbolic Acid) • Hamiz-e-Oxalic (Oxalic acid) • Hydrocyanic Acid. 								
CO6	<p>Explain the Muhlik Miqdar (Fatal doses) Muddate Halakat (Fatal Periods) and Sammi Alamaat (Clinical Features) of:</p> <p>Tezab-e-Gandhak (Sulphuric Acid)</p> <ul style="list-style-type: none"> • Tezab-e-Namak (Hydrochloric Acid) • Tezab-e-Shora (Nitric Acid) • Tezab-e-Sirka (Acetic Acid) • Hamiz-e-Qatran (Carbolic Acid) • Hamiz-e-Oxalic (Oxalic acid) • Hydrocyanic Acid. 	CK	MK	K	L&PPT, L_VC	T-OBT, P-VIVA, TH	F&S	I	H-IA
CO6, CO8	<p>Explain the Tiryaaq (Antidote) Ilaj (Treatment) Zawahirat Bad-al-Maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico-legal aspects) of:</p> <p>Tezab-e-Gandhak (Sulphuric Acid)</p> <ul style="list-style-type: none"> • Tezab-e-Namak (Hydrochloric Acid) • Tezab-e-Shora (Nitric Acid) • Tezab-e-Sirka (Acetic Acid) • Hamiz-e-Qatran (Carbolic Acid) 	CK	MK	K	L, L&PPT, L_VC	P-VIVA, TH	F&S	I	H-IA, V-MOA

	<ul style="list-style-type: none"> • Hamiz-e-Oxalic (Oxalic acid) • Hydrocyanic Acid. 								
CO6	<p>I. Classify the Asasaat/Qalviyaat & explain their modes of action</p> <p>II. Describe the complications of Qalviyaat</p> <p>III. Define and identify:</p> <p>i. Natroone Kaavi (Caustic Soda/Sodium Hydroxide)</p> <p>ii. Qalmi Kaavi (Potassium Hydroxide/ Caustic Potash)</p> <p>iii. Choona (Calcium Oxide)</p>	CK	DK	K	L, L&PPT	P-VIVA, TH	F&S	I	H-IA
CO6	<p>Explain the Muhlik Miqdar (Fatal doses) Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) of:</p> <p>I. Natroone Kaavi (Caustic Soda/Sodium Hydroxide)</p> <p>II. Qalmi Kaavi (Potassium Hydroxide/ Caustic Potash)</p> <p>iii. Choona (Calcium oxide)</p>	CK	DK	K	L, L&PPT	P-VIVA, TH	F&S	I	H-IA, V-MOA
CO6, CO8	<p>Explain the Tiryaq (Antidote) Ilaj (Treatment) Zawahirat Bad-al-Maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico-legal aspects) of:</p> <p>I. Natroone Kaavi (Caustic Soda/Sodium Hydroxide)</p> <p>II. Qalmi Kaavi (Potassium Hydroxide/ Caustic Potash)</p> <p>iii. Choona (Calcium oxide)</p>	CK	DK	K	L, L&PPT	P-VIVA, TH	F&S	I	H-IA, V-MOA
Topic 14									

سموم لاذعہ یا مخر شہ

Samoom Laziyah/ Mukharrisha (Irritant Poisons)

(Lecture: 8 hours, non-lecture: 5 hours)

CO6	<p>I. Classify the Samoom-e-Mukharrisha (Irritant Poisons)</p> <p>II. Define and identify the Ma'adani Mukharrishat (Metallic Irritants) and their Sammi Murakkabat (Toxic Compounds):</p> <ul style="list-style-type: none"> • Sammul-Far (Arsenic) • Seemab/Para (Mercury) • Seesa (Lead) • Surma/Asmad (Antimony) 	CK	MK	K	L, L&PPT	P-VIVA, TH	F&S	II	H-IA
CO6	<p>Explain the Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (Clinical Features) of Ma'adani Mukharrishat (Metallic Irritants) and their Sammi Murakkabat (Toxic Compounds):</p> <ul style="list-style-type: none"> • Sammul-Far (Arsenic) • Seemab/Para (Mercury) • Seesa (Lead) • Surma/Asmad (Antimony) 	CK	MK	K	L, L&PPT, L&GD	P-VIVA, P-EXAM, QZ, TH	F&S	II	H-IA, V-MOA
CO6, CO8	<p>Explain the Tiryag (Antidote), Ilaj (Treatment), Zawahirat Bad-al-Maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico-legal aspects) of Ma'adani Mukharrishat (Metallic Irritants) and their Sammi Murakkabat (Toxic Compounds):</p>	CK	MK	K	L, L&PPT, L_VC	P-VIVA, P-EXAM, TH	F&S	II	H-IA, V-MOA

	<ul style="list-style-type: none"> • Sammul-Far (Arsenic) • Seemab/Para (Mercury) • Seesa (Lead) • Surma/Asmad (Antimony) 								
CO6	<p>Define and identify the Ghair Ma'dani Mukharrishat (Non-Metallic Irritants):</p> <ul style="list-style-type: none"> • Khizreen (Chlorine) • Nafsheen (Iodine) • Nooreen (Phosphorus) 	CK	MK	K	L, L&PPT	P-VIVA, P-EXAM, P-ID, TH	F&S	II	H-IA
CO6	<p>Explain the Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) of Ghair Ma'dani Mukharrishat (Non-Metallic Irritants):</p> <ul style="list-style-type: none"> • Khizreen (Chlorine) • Nafsheen (Iodine) • Nooreen (Phosphorus) 	CK	MK	K	L, L&PPT	P-VIVA, P-EXAM, QZ, TH	F&S	II	H-IA
CO6, CO8	<p>Explain the Tiryaaq (Antidote), Ilaj (Treatment), Zawahirat Ba'd-al-Maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico-legal aspects) of Ghair Ma'dani Mukharrishat (Non-Metallic Irritants):</p> <ul style="list-style-type: none"> • Khizreen (Chlorine) • Nafsheen (Iodine) • Nooreen (Phosphorus) 	CK	MK	K	L, L&PPT, L_VC	P-VIVA, P-EXAM, TH	F&S	III	H-IA, V-MOA
CO6	<p>Define and identify the Nabaati Mukharrishat (Plant Irritants):</p> <ul style="list-style-type: none"> • Baladur/Bhilawan (<i>Semicarpus anacardium</i>) 	CK	MK	K	L, L&PPT, L_VC	P-VIVA, P-EXAM, P-ID, TH	F&S	II	H-IA

	<ul style="list-style-type: none"> • Madar (<i>Calotropis procera</i>) • Habbus Salateen/Jamalgota (<i>Croton tiglium</i>) • Shahm-e-Hanzal/Indrayin (<i>Citrulus colocynthis</i>) • Ratti/Ghungghi (<i>Abrus precatorious</i>) • Sheetraj/ Lalchitra (<i>Plumbago zeylanica</i>) 								
CO6	<p>Enlist Active principles and Alkaloids of Nabaati Mukharrishat (Plant Irritants):</p> <ul style="list-style-type: none"> • Baladur/Bhilawan (<i>Semicarpus anacardium</i>) • Madar (<i>Calotropis procera</i>) • Habbus Salateen/Jamalgota (<i>Croton tiglium</i>) • Shahm-e-Hanzal/Indrayin (<i>Citrulus colocynthis</i>) • Ratti/Ghungghi (<i>Abrus precatorious</i>) • Plumbago (<i>Plumbago zeylanica</i>) 	CK	MK	K	L,DIS,BS,Pr BL	P-VIVA, P- EXAM, QZ, TH	F&S	II	H-IA
CO6	<p>Explain the Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) of Nabaati Mukharrishat (Plant Irritants):</p> <p>Baladur/Bhilawan (<i>Semicarpus anacardium</i>)</p> <ul style="list-style-type: none"> • Madar (<i>Calotropis procera</i>) • Habbus Salateen/Jamalgota (<i>Croton tiglium</i>) • Shahm-e-Hanzal/Indrayin (<i>Citrulus colocynthis</i>) • Ratti/Ghungghi (<i>Abrus precatorious</i>) • Sheetraj/ Lalchitra (<i>Plumbago zeylanica</i>) 	CK	MK	K	L, L&PPT	P-VIVA, P- EXAM, QZ, TH	F&S	II	H-IA, V- MOA

CO6, CO8	<p>Explain the Tiryaq (Antidote), Ilaj (Treatment), Zawahirat Bad-al-Maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico-legal aspects) of Nabaati Mukharrishat (Plant Irritants):</p> <p>Baladur/Bhilawan (<i>Semicarpus anacardium</i>)</p> <ul style="list-style-type: none"> • Madar (<i>Calotropis procera</i>) • Habbus Salateen/Jamalgota (<i>Croton tiglium</i>) • Shahm-e-Hanzal/Indrayin (<i>Citrulus colocynthis</i>) • Ratti/Ghungchi (<i>Abrus precatorious</i>) • Sheetraj/ Lalchitra (<i>Plumbago zeylanica</i>) 	CK	MK	KH	L&PPT, L_VC	P-VIVA, P-EXAM, O-QZ, TH	F&S	II	H-IA, V-MOA
CO6, CO8	<ol style="list-style-type: none"> I. Explain Ladaghul Hayya (Snake bite poisoning) II. Classify snakes <ol style="list-style-type: none"> i. Describe general characteristics of snakes (Sense organs, Dietary habits, Reproduction and behaviors) ii. Differentiate between poisonous and non-poisonous snakes iii. Classify snake venoms and their actions iv. Describe fatal doses of different snake venoms v. Explain the symptoms and signs of venomous snake bite. vi. Explain general rules of management of Snake bite vii. Classify anti-snake venoms and describe their methods of preparation viii. Describe medico legal aspects of snake bite 	CK	MK	K	L, L&PPT, L_VC, SIM	P-VIVA, P-EXAM, P-ID, TH	F&S	II	H-IA, V-MOA

CO5	Describe Ladaghul Aqrab (Scorpion bite) i. Describe general features of Scorpions ii. Describe actions of scorpion venom iii. Explain Clinical features of Scorpion bite iv. Explain general management of scorpion bite	CC	MK	K	L&PPT,L_V C,SIM	P-VIVA,P- EXAM,TH	F&S	II	H-IA,V- MOA
CO5, CO8	Describe Zarareeh/Telni Makkhi (<i>Cantharis vesicatoria</i>) i. Classify cantharides and describe their features ii. Enlist the illegal preparation of cantharides and their uses iii. Explain clinical features of cantharides poisoning iv. Describe complications of cantharides poisoning and its management v. Explain medico legal aspects of cantharides poisoning	CC	MK	K	L&PPT, L_VC, SIM	P-VIVA, P- EXAM, PRN, TH	F&S	II	H-IA, V- MOA
CO6	Zamboor (Wasp) i. Describe features of Zamboor ii. Describe Clinical features and management of lazaye zamboor (Wasp sting) iii. Explain medico legal aspects of lazaye zamboor	CK	NK	K	L, L&PPT	P-VIVA, P- EXAM, P- ID, TH	F&S	II	H-IA, V- MOA
CO6	Shahad ki Makkhi (Bees). i. Describe features of Shahad ki Makkhi (Bees) ii. Explain its management & medico legal aspects	CK	NK	K	L, L&PPT	P-VIVA, P- EXAM, P- ID, TH	F&S	II	H-IA, V- MOA

Topic 15 سوم عصييه Samooome Asbiyah (Neurotic Poisons) (Lecture : 6 hours, Non lecture: 3 hours)									
CO6	Define and identify Demaghi Samoom (Cerebral poisons): Samooome munawwim (Somniferous poisons): <ul style="list-style-type: none"> Afiyoon (Opium) 	CC	MK	K	L, L&PPT, L_VC	P-VIVA, TH	F&S	II	H-IA
CO6	Enlist Active principles and Alkaloids and explain Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) Demaghi Samoom (Cerebral poisons): Samooome Munawwim (Somniferous): <ul style="list-style-type: none"> Afiyoon (Opium) 	CK	MK	K	L, L&GD	P-VIVA, TH	F&S	II	H-IA
CO6, CO8	Explain Tiryaaq (Antidotes), Ilaj (Treatment), Zawahirat badalmaat (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico legal aspects) of Demaghi Samoom (Cerebral poisons): Samooome Munawwim (Somniferous): <ul style="list-style-type: none"> Afiyoon (Opium) 	CK	MK	K	L&PPT, L_VC	P-VIVA, TH	F&S	II	H-IA, V-MOA
CO6	Define and identify Demaghi Samoom (Cerebral poisons): Samooome Munashshi (inebriant): <ul style="list-style-type: none"> Alcohol (Ethyl &Methyl) Chloroform Roghane Gil (Kerosene oil) Cocaine 	CK	MK	K	L, L&PPT, DIS, BS	P-VIVA, TH	F&S	II	H-IA

	<ul style="list-style-type: none"> Yabrooj (Belladona) 								
CO6	<p>Enlist Active principles and Alkaloids (if present) and explain Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) Demaghi Samoom (Cerebral poisons):</p> <p>Samoomo Munashshi (inebriant):</p> <ul style="list-style-type: none"> Alcohol (Ethyl & Methyl) Chloroform Roghane Gil (Kerosene oil) Cocaine Yabrooj (Belladona) 	CK	MK	K	L, L&PPT, DIS	P-VIVA, TH	F&S	II	H-IA
CO6, CO8	<p>Explain Tiryaaq (Antidotes), Ilaj (Treatment), Zawahirat badalmaut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico legal aspects) of Demaghi Samoom (Cerebral poisons):</p> <p>Samoomo Munashshi (inebriant):</p> <ul style="list-style-type: none"> Alcohol (Ethyl & Methyl) Chloroform Roghane Gil (Kerosene oil) Cocaine Bhang Yabrooj (Belladona) 	CK	MK	K	L, L&PPT, L_VC	P-VIVA, TH	F&S	II	H-IA, V-MOA
CO6	<p>Define and identify Demaghi Samoom (Cerebral poisons):</p> <p>Samoomo Mukhaddir (Deliriant):</p> <ul style="list-style-type: none"> Jauzemasil/Dhatura (Thorn Apple) 	CK	MK	K	L, L&PPT, BS	P-VIVA, TH	F&S	II	H-IA

CO6	Enlist Active principles and Alkaloids and explain Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) Demaghi Samoom (Cerebral poisons): Samoom Mukhaddir (Deliriant): <ul style="list-style-type: none"> Jauze masil/Dhatura (Thorn Apple) 	CK	MK	K	L, L&PPT, L&GD	P-VIVA, TH	F&S	II	H-IA
CO6, CO8	Explain Tiryag (Antidotes), Ilaj (Treatment), Zawahirat badalmaat (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico legal aspects) of Demaghi Samoom (Cerebral poisons): Samoom Mukhaddir (Deliriant): <ul style="list-style-type: none"> Jauze masil/Dhatura (Thorn Apple) 	CK	MK	K	L, L&PPT, TUT	P-VIVA, TH	F&S	II	H-IA, V-MOA
CO6	Define and identify Nukhayi Samoom Asbiyah (Spinal Neurotics): <ul style="list-style-type: none"> Azaraq/Kuchla (<i>Strychnos nuxvomica</i>) 	CC	MK	K	L&PPT	P-VIVA, P-EXAM, TH	F&S	II	H-IA
CO6	Enlist Active principles and Alkaloids and explain Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) of Nukhayi Samoom Asbiyah (Spinal Neurotics): <ul style="list-style-type: none"> Azaraq/Kuchla (<i>Strychnos nuxvomica</i>) 	CK	MK	K	L	P-VIVA, P-EXAM, TH	F&S	II	H-IA
CO6, CO8	Explain Tiryag (Antidotes), Ilaj (Treatment), Zawahirat badalmaat (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico legal aspects) of Nukhayi Samoom Asbiyah (Spinal Neurotics):	CK	MK	K	L&PPT, L_VC	P-VIVA, P-EXAM, TH	F&S	II	H-IA, V-MOA

	<ul style="list-style-type: none"> Azaraq/Kuchla (<i>Strychnos nuxvomica</i>) 								
Topic 16 سوم قلبیہ Samooome Qalbiyah (Cardiac Poisons) (Lecture : 4 hours, Non lecture: 3 hours)									
CO6	Define and identify the Samoom-e-Qalbiyah (Cardiac Poisons): <ul style="list-style-type: none"> Beesh/Meetha Teelia (Aconite) Tambakoo (Tobacco) 	CK	MK	K	L, L&PPT, L_VC, DIS	P-VIVA, TH	F&S	II	H-IA
CO6	Enlist the Active principles and Alkaloids of Samoom-e-Qalbiyah (Cardiac Poisons): <ul style="list-style-type: none"> Beesh/Meetha Teelia (Aconite) Tambakoo (Tobacco) 	CK	DK	K	L, L&PPT, L_VC, DIS	P-VIVA, TH	F&S	II	H-IA
CO6	Explain the Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods) and Sammi Alamaat (symptoms) of Samooome Qalbiyah (Cardiac Poisons): <ul style="list-style-type: none"> Beesh/Meetha Teelia (Aconite) Tambakoo (Tobacco) 	CK	MK	K	L, L&PPT, L_VC, DIS	P-VIVA, TH	F&S	II	H-IA, V-MOA
CO6	Explain the Tiryaaq (Antidote), Ilaj (Treatment), Zawahirat Bad-al-Maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico-legal aspects) of Samooome Qalbiyah (Cardiac Poisons): <ul style="list-style-type: none"> Beesh/Meetha Teelia (Aconite) Tambakoo (Tobacco) 	CK	MK	K	L, L&PPT, L_VC, DIS	P-VIVA, TH	F&S	II	H-IA, V-MOA

Topic 17 سوم تنفسیہ Samooome Tanaffusiyah (Irrespirable Poisons/Asphyxiants) (Lecture : 5 hours, Non lecture: 1 hours)									
CO6, CO8	Define, identify and explain Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods), Sammi Alamaat (symptoms), Ilaj (treatment), Zawahirat ba'dal maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico legal aspects) of Irrespirable Poisons: <ul style="list-style-type: none"> • Carbon monoxide • Carbon dioxide 	CK	MK	K	L&PPT, L_VC, DIS	P-VIVA, TH	F&S	III	V-MOA
Topic 18 زراعتی اور گھریلو سوم Zara'ati aur Ghareloo Samoom (Agricultural & Household Poisons) (Lecture : 5 hours, Non lecture: 2 hours)									
CO6, CO8	Define, identify and explain Muhlik Miqdar (Fatal doses), Muddate Halakat (Fatal Periods), Sammi Alamaat (symptoms), Ilaj (Treatment), Zawahirat ba'dal maut (Postmortem appearances) & Tibbi Qanooni Ahmiyat (Medico legal aspects) of Agricultural & Household Poisons: <ul style="list-style-type: none"> • Tick-20 • Naphthalene balls • DDT Powder • Aluminum Phosphate • Pesticide 	CK	MK	K	L&PPT,L_V C,DIS	T- EW,T- CS,P- VIVA,P- EXAM,TH	F&S	III	H-IA,V- MOA

	<ul style="list-style-type: none"> Cosmetics: (Hair dye, Shampoo, Lipsticks, Skin Cream, Eye lotion & Eye Shades) 								
Topic 19 مفردات Mutafarriqat (Miscellaneous) (Lecture : 7 hours, Non lecture: 5 hours)									
CO7	Define and identify Drugs used for Nasha khori (addiction/Abuse)	CK	MK	K	L,L&PPT	P-VIVA,CHK,TH	F&S	III	H-IA
CO7	Explain need & importance of knowledge of Nasha khori (drug abuse)	CK	MK	K	L&GD	P-VIVA,TH	F&S	III	
CO7, CO8	Describe its Management through De-addiction therapies and Medicines used for Nasha Kushi(de-addiction) and its medicolegal importance	CC	MK	K	L&PPT,L_V C,RP	P-VIVA,TH	F&S	III	H-IA,V-MOA
CO7, CO8	Explain Bacterial food poisoning Food Poisoning from Vegetable Origin Food Poisoning from Animal Origin Food Poisoning from Contaminated foods with Chemicals and identify the causative factors	CC	MK	K	L&PPT,L_V C	P-VIVA,TH	F&S	III	H-IA,V-MOA
CO7, CO8	Explain management of Bacterial food poisoning, Food Poisoning from Vegetable Origin, Foods Poisoning from Animal Origin, Food Poisoning from Contaminated foods with Chemicals.	CC	MK	K	L&PPT,L_V C	P-VIVA,PRN,TH	F&S	III	H-TST,V-MOA

List of Practical (Term and Hours)

PRACTICALS (Marks-100)			
S.No	List of Topics	Term	Hours
1	طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Tibbul Qanoon)	1	5
2	شناخت Shanakht (Identification)	1	14
3	علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)	1	8
4	سموم اکالہ Samooome Akkalah (Corrosive Poisons)	1	10
5	زخم و جروحات Juroohat/Zakhm (Injuries/Wounds)	2	16
6	علم الاموات Ilmul Amwaat (Thanatology)	2	5
7	مرگ تشدد Marge Tashaddud (Violent death)	2	5
8	سموم لاذعہ یا مخر شہ Samooome Lazi'ah / Mukharrisha (Irritant Poisons)	2	14
9	سموم عصبیہ Samooome Asbiyah (Neurotic Poisons)	2	8
10	سموم قلبیہ Samooome Qalbiyah (Cardiac Poisons)	2	4
11	دوشیزگی اور ازالہ بکارت Dosheezgi (Virginity) & Izala e Bukarat (Defloration)	3	2
12	جنون Junoon (Insanity)	3	2
13	سموم تنفسی یا اختناقی Samooome Tanaffusi (Asphyxiants)	3	2

14	زراعتی اور گھریلو سموم Zara'ati wa Ghareloo Samoom (Agricultural and Household Poisons)	3	8
15	متفرقات Mutafarriqat (Miscellaneous)	3	9
16	خارجی دورہ Field visitation (as per feasibility)	3	14

Table 4: Learning objectives (Practical)

A4 Course outcome	B4 Learning Objective (At the end of the session, the students should be able to)	C4 Domain/ sub	D4 Must to know / desirable to know / Nice toknow	E4 Level Does/ Shows how/ Knows how/ Know	F4 T-L method (Refer abbreviations)	G4 Assessment	H4 Formative/ summative	I4 Term	K4 Integration
Topic 1 طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Tibbul Qanoon)									
CO1	Observe Criminal Court procedures through videos	CC	MK	KH	L_VC,RP,FV	P-VIVA,P-EXAM	F&S	I	
CO1	Prepare Medical certificates e.g., Fitness certificate, Sickness certificate, certificate for compos mentis, Birth report etc.	PSY-SET	MK	KH	L&PPT,DIS,PBL	P-VIVA,P-EXAM,Log book	F&S	I	
Topic 2 شناخت Shanakht (Identification)									
CO2	Demonstrate different types of fingerprints, foot prints, lip prints and hair through models, photographs and charts.	PSY-SET	MK	KH	L&PPT,PT,D	P-VIVA,P-EXAM,Log book	F&S	I	

CO2	Determine age from teeth, bones, and radiographs through photographs and charts	CC	MK	KH	D,PRA	P-VIVA,P-EXAM,Log book	F&S	I	
<p>Topic 3 زخم و جروحات Juroohat/Zakhm (Injuries/Wounds)</p>									
CO2	Identify and describe various weapon models e.g., Lathi, Knife, Axe, Kripan, Gupti, Gandasa, Farsha, Dagger, Bhala, Razor and stick, firearms, screwdriver etc.	CK	MK	K	D-M	P-VIVA,P-EXAM,RK	F&S	II	
CO2	Identify and demonstrate regional injuries to head (scalp wound, Skull fracture, Intracranial hemorrhage etc.) neck, Chest, Abdomen, Limbs, Genital organs, Spinal cord, Skeleton, Vehicular injuries and their primary and secondary impact, Secondary injuries, Crush syndrome, Railway spine through models, charts, and audiovisual aids.	CK	MK	K	L&PPT,D-M	P-VIVA,P-EXAM	F&S	II	
CO2	Prepare Injury report	PSY-GUD	MK	K	PRA	P-VIVA,P-EXAM,RK	F&S	II	

CO2	Estimate the severity of burn through model, photograph, charts and videos	CAN	MK	KH	L&PPT,L_VC,SIM,RP,D	P-VIVA,P-EXAM	F&S	II	
Topic 4 علم الاموات Ilmul Amwaat (Thanatology)									
CO2	Explain postmortem through audiovisual aid	CK	MK	K	D,PRA	P-VIVA,P-EXAM	F&S	II	
CO2	Identify early and late signs of maut through photographs and charts	CK	MK	K	D,PRA	P-VIVA,P-EXAM	F&S	II	
CO2	Prepare Medical Certification of Cause of death, Death Report	PSY-GUD	MK	KH	D,PRA	P-VIVA,P-EXAM,RK	F&S	II	
Topic 5 مرگ تشدد Marge Tashaddud (Violent death)									
CO2	Identify Gharqaabi (Drowning), Takhneeq (Strangulation), Taaleeq (Hanging), Harq wa Salq (Burn and scald) se Hone wali maut through photographs and charts.	CK	MK	K	L&PPT,L_VC,D-M	P-VIVA,P-EXAM	F&S	II	
CO6	Preparation of different types of knots	PSY-SET	MK	SH	L_VC,D	P-VIVA,P-EXAM	F&S	II	
Topic 6 دوشیزگی اور ازالہ کی کارٹ 									

Dosheezgi (Virginity) & Izala'e Bukarat (Defloration)									
CO4	Identify different types of hymens through models and charts.	CK	MK	K	D-M	P-VIVA,P-EXAM	F&S	III	
Topic 7 جنون Junoon (Insanity)									
CO3	Explain the examination of the patient of Izterab-e-Aqalee (Mental disorders)	CK	MK	K	L&PPT,L_VC	P-VIVA,P-EXAM	F&S	III	
CO3	Explain the preparation of Certificate of mental disorder	CK	MK	KH	SDL,PT	P-VIVA,P-EXAM,RK	F&S	III	
Topic 8 علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)									
CO5	Identify various types of gastric tubes used in stomach wash. Explain procedure of gastric lavage through visual aids	PSY-GUD	MK	KH	L_VC,D-M	P-VIVA,P-EXAM	F&S	I	
CO5	Identify different antidotes & antiseptics and their applications through specimens and audiovisual aids.	CC	MK	KH	L&PPT,L_VC,DIS,D	P-VIVA,P-EXAM,RK	F&S	I	
Topic 9									

سمووم اككاله Samooome Akkalah (Corrosive Poisons)									
CO6	Identify and demonstrate Samooome Akkalah Acids: <ul style="list-style-type: none"> • Tezabe Gandhak (Sulphuric Acid) • Tezabe Namak (Hydrochloric Acid) • Tezabe Shora (Nitric Acid) • Tezabe Sirka (Acetic Acid) • Hamize Qatraan (Carbolic Acid) • Hamize oxalic (Oxalic Acid) • Hydrocyanic Acid Alkalies: <ul style="list-style-type: none"> • Natroone Kaavi (Caustic Soda/Sodium Hydroxide) • Qalmi Kaavi (Potassium Hydroxide/ Caustic Potash) • Choona (Calcium oxide) 	PSY-SET	MK	K	L&PPT,L_VC,D	P-VIVA,P-EXAM	F&S	I	
CO6	Explain management of vitriolage	CAP	MK	KH	D	P-VIVA,P-EXAM	F&S	I	
Topic 10 سمووم لاذع يا مخرشه Samooome Lazi'ah / Mukharrisha (Irritant Poisons)									

CO6	<p>Identify and demonstrate Samoome Mukharrisha (Irritant poisons) Madni:</p> <ul style="list-style-type: none"> • Sammul Far (Arsenic) • Seemab/Para (Mercury) • Seesa (Lead) • Surma (Antimony) <p>Ghair Madni:</p> <ul style="list-style-type: none"> • Khizreen (Chlorine) • Nafsheen (Iodine) • Nooreen (Phosphorus) 	PSY-SET	MK	K	L&PPT,D	P-VIVA,P-EXAM	F&S	II	
CO6	<p>Identify vegetable irritants and their plants through specimens, photograph and charts:</p> <ul style="list-style-type: none"> • Baladur/Bhilawan (<i>Semicarpus anacardium</i>) • Madar (Calotropis) • Habbus Salateen/Jamalgota (<i>Croton tiglium</i>) • ShahmeHanzal/Indrayin (<i>Citrulus colocynthis</i>) • Ratti/Ghungchi (<i>Abrus precatorious</i>) • Sheetraj/ Lalchitra (<i>Plumbago zeylanica</i>) 	PSY-SET	MK	K	L&PPT,D,DG	P-VIVA,RK	F&S	II	
CO6	Differentiate between non-poisonous and poisonous snakes	CK	MK	K	L&PPT,D_L,FV	P-VIVA,P-EXAM,RK	F&S	II	

CO6	Identify important poisonous snakes of India through specimens, photographs, charts and videos.	PSY-SET	MK	K	L_VC,D,FV	P-VIVA,P-EXAM	F&S	II	
CO6	Identify bite of venomous snakes through photographs, charts.	CC	MK	K	L&PPT,L_VC,RP,D	P-VIVA,P-EXAM	F&S	II	
CO6	Demonstrate application of tourniquet in case snake bite through model.	PSY-GUD	MK	K	SIM,D	P-VIVA,P-EXAM,Log book	F&S	II	
CO6	Identification of Zamboor (Wasp)	CK	MK	K	L&PPT,D-M	P-VIVA,P-EXAM	F&S	II	
CO6	Demonstration of management of Ladaghe Zamboor (Wasp sting)	PSY-GUD	MK	K	L_VC,SIM,D	P-VIVA,P-EXAM	F&S	II	
CO6	Identification of Shahed ki makhkhee (Honey Bee) through model. photograph and video	CC	MK	K	L_VC,D	P-VIVA,P-EXAM	F&S	II	
CO6	Demonstration of management of Honey bee sting	PSY-GUD	MK	SH	CBL,SIM,D	P-VIVA,P-EXAM	F&S	II	
<p>Topic 11</p> <p>سوم عصييه</p> <p>Samoom Asbiyah (Neurotic Poisons)</p>									
CO6	Identify and demonstrate Samoom Asbiyah and their plants through specimens, photographs and charts: <ul style="list-style-type: none"> Afiyoon (Opium) Alcohol 	PSY-SET	MK	K	L&PPT, D	P-VIVA, P-EXAM, RK	F&S	II	

	<ul style="list-style-type: none"> • Chloroform • Roghane Gil (Kerosene oil) • Cocaine • Bhang • Jauze masil/Dhatura (Thorn Apple) • Yabrooj (Belladonna) • Azaraqui (Strychnin) 								
Topic 12 سموم قلبیہ Samooome Qalbiyah (Cardiac Poisons)									
CO6	Identify and demonstrate the Samoom-e-Qalbiyah and their plants through specimens, photographs and charts: <ul style="list-style-type: none"> • Beesh/Meetha Teelia (Aconite) • Tambakoo (Tobacco) 	PSY-SET	MK	KH	L&PPT, D	P-VIVA, P-EXAM	F&S	II	
Topic 13 سموم تنفسی یا اعتقانی Samooome Tanaffusi (Asphyxiants)									
CO6	Demonstrate explanation of management of gaseous poisoning	CC	MK	K	L_VC, D	P-VIVA, P-EXAM	F&S	II	
Topic 14 زراعتی اور گھریلو سموم									

Zara'ati wa Ghareloo Samoom (Agricultural and Household Poisons)									
CO6	Identify and demonstrate Zara'ati wa Ghareloo Samoom (Agricultural and Household Poisons) through specimens, photographs, charts and videos: <ul style="list-style-type: none"> • Tick-20 • Naphthalene balls • DDT Powder • Aluminum Phosphate • Pesticides • Cosmetics: (Hair dye, Shampoo, Lipsticks, Skin Cream, Eye lotion & Eye Shades) 	PSY-SET	MK	K	L&PPT, D	P-VIVA, P-EXAM	F&S	III	
Topic 15 مترقات Mutafarriqat (Miscellaneous)									
CO7	Identification and demonstration of Nasha Awar Ashya Poisons) through specimens, photographs, charts and videos	CK	MK	KH	RP,PT,D	P-VIVA,P-EXAM	F&S	III	
CO7	Explain the examination of drug addicts through audio visual aid	CK	MK	KH	D,PRA	P-VIVA,P-EXAM	F&S	III	
CO7	Identify and demonstrate of causative factors Ghizayi	CK	MK	KH	PT,D	P-VIVA,P-EXAM	F&S	III	

	Tasammum (Food Poisoning) through specimens, photographs, charts and videos								
CO7	Management of addiction through different de addiction therapies	CAP	MK	KH	L_VC,SIM,D	P-VIVA,P-EXAM	F&S	III	
Topic 16 خارجی دورہ Field visitation (as per feasibility)									
CO1, CO2, CO5, CO7	<ul style="list-style-type: none"> • Visit to Museum of other colleges • Visit to snake park • Visit to Mental hospital • Visit to court • Visit to FSL • Visit to De addiction center • Visit to Mortuary • Visit to Police station 	CK	MK	K	FV	P-VIVA	F&S	III	

Table 4a: List of Practical

S.No	Name of practical	Term	Activity	Practical hrs
1	طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Tibbul Qanoon)	1	I. عدالت مجرمانہ کی کارروائی Criminal Court procedures II. طبی دستاویزات Medical certificates e.g., Fitness certificate, Sickness certificate, certificate for compos mentis, Birth Report etc.	5
2	شناخت Shanakht (Identification)	1	I. نشانات انگشت اور بالوں کی اقسام Types of fingers prints and hair II. دانت، ہڈی اور شعائیات کے توسط سے عمر کا تعین Determination of age from teeth, bones, and radiographs III. اشاریہ قیفال کے ذریعہ نسل کا تعین Determination of race from cephalic index	14
3	زخم و جروح Juroohat/Zakhm (Injuries/Wounds)	2	I. مختلف اقسام کے ہتھیاروں کے ماڈل کا مشاہدہ Various weapon models: e.g., Lathi, Knife, Axe, Kripan, Gupti, Gandasa, Farsha, Dagger, Bhala, Razor and stick, firearms, ropes & chains, screwdriver etc. II. چارٹ، نمونہ جات اور آڈیو ویڈیو کے ذریعہ مختلف قسم کے جروح کا مشاہدہ Regional injuries to head (scalp wound, Skull fracture, Intracranial hemorrhage etc.), neck, Chest, Abdomen, Limbs, Genital organs, Spinal cord, Skeleton, Vehicular injuries and their primary and	16

			<p>secondary impact, Secondary injuries, Crush syndrome, Railway spine through models, charts, and audiovisual aids.</p> <p>III. جروحات کی رپورٹ تیار کرنا Preparation of injury report</p>	
4	<p>علم الاموات Ilmul Amwaat (Thanatology)</p>	2	<p>I. تشریح بعد الموت Tashreeh Badal Maut (Postmortem)</p> <p>II. موت کی ابتدائی اور بعیدی علامات Maut ki Ibtidayi aur Baeedi alamaat (Early and late signs of death)</p> <p>III. جسمانی تبرید کے ذریعہ موت کے وقفہ کا تعین کرنا Estimation of time since death by cooling of body</p> <p>IV. سبب موت کی طبی تصدیق، موت کا دستاویز رپورٹ Medical Certification of Cause of death, Death Report</p>	5
5	<p>مرگ تشدد Marge Tashaddud (Violent death)</p>	2	<p>I. تغریق یا غرقابی Taghreeq/Gharqaabi (Drowning)</p> <p>II. تختیق Takhneeq (Strangulation)</p> <p>III. تعلیق Taaleeq (Hanging)</p> <p>IV. حرق و سلق سے ہونے والی اموات Harq wa Salq se Hone wali Amwaat (Death due to Burn and scald)</p>	5
6	<p>دوشیزگی اور ازالہ بکارت Dosheezgi (Virginity) & Izala'e</p>	3	<p>I. پردہ بکارت کی اقسام Types of hymens</p>	2

	Bukarat (Defloration)		II. حقیقی اور غیر حقیقی باکرہ کے درمیان تفریق Differentiate between True & False Virgin	
7	جنون Junoon (Insanity)	3	I. دماغی مریض کا امتحان Examination of Mentally ill person II. دماغی مرض کی سند تیار کرنا Preparation of Mental illness certificate	2
8	علم السوموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)	1	I. غسل معدہ Ghasle Meda (Gastric Lavage) II. تریاقات و مانع عفونت مواد Antidotes & Antiseptics	8
9	سوموم اکالہ Samoom Akkalah (Corrosive Poisons)	1	I. حامضات یا تیزابات Hamizaat (Acids): i. تیزاب گندھک Tezabe Gandhak (Sulphuric Acid), ii. تیزاب نمک Tezabe Namak (Hydrochloric Acid), iii. تیزاب شورہ Tezabe Shora (Nitric Acid), iv. تیزاب سرکہ Tezabe Sirka (Acetic Acid), v. حامض قطران Hamize Qutran (Carbolic Acid) vi. حامض آگزیک Hamize Oxalic (Oxalic acid) vii. تیزاب ہائیڈروسایانک Hydrocyanic Acid.	10

			<p>II. اساسات يا قلوويات</p> <p>Asasaat / Qulviyaat (Alkalis):</p> <p>i. نظرون كاوى</p> <p>Natroone Kavi (Sodium Hydroxide/Caustic Soda)</p> <p>ii. قلمى كاوى</p> <p>Qalmi Kavi (Potassium Hydroxide/ Caustic Potash)</p> <p>iii. چونا</p> <p>Choona (Calcium oxide)</p>	
10	<p>سموم لاذعه يا مخرشة</p> <p>Samoom Lazi'ah /</p> <p>Mukharrisha</p> <p>(Irritant Poisons)</p>	2	<p>I. معدنى مخرشات</p> <p>Ma'dani Mukharrishat</p> <p>i. سم الفاريا سكلھيا</p> <p>Sammul Far / Sankhiya (Arsenic)</p> <p>ii. سيماب يا پاره</p> <p>Seemab/Para (Mercury),</p> <p>iii. سسيه</p> <p>Seesa(Lead),</p> <p>iv. سرمه</p> <p>Surma (Antimony),</p> <p>II. غير معدنى مخرشات</p> <p>Ghair Ma'dani Mukharrishat (Non-Metallic Irritants):</p> <p>i. خضرين يا كلورين</p> <p>Khizreen (Chlorine),</p> <p>ii. نفشين يا آيوڊين</p> <p>Nafsheen (Iodine)</p> <p>iii. نورين يا فاسفورس</p> <p>Nooreen (Phosphorus)</p>	14

		<p>III. نباتی مخرشات</p> <p>Nabaati Mukharrishat (Plant Irritants)</p> <p>i. بھلاواں</p> <p>Baladur (Semicarpus anacardium)</p> <p>ii. مدار</p> <p>Madar (Calotropis)</p> <p>iii. حب السلاطین یا جما لگوٹہ</p> <p>Habbus Salateen/Jamalgota (Croton tiglium)</p> <p>iv. شحم حنظل یا اندرائن</p> <p>Shahme Hanzal/Indrayin (Citrus colocynth)</p> <p>v. رتی یا گھو گھجی</p> <p>Ratti/Ghungchi (Abrus precatorious)</p> <p>VI. شیطرح یا لال چترہ</p> <p>Sheetraj/ Lalchitra (Plumbago zeylanica)</p> <p>IV. حیوانی مخرشات</p> <p>Haiwani Samoom (Animal Poison)</p> <p>i. لدغ الحیہ یا مار گزیدگی</p> <p>Ladaghul Hayya/Maar Gazeedgi (Snake bite poisoning)</p> <p>ii. لدغ عقرب یا بچھو کا کاٹنا</p> <p>Ladaghul Aqrab (Scorpion bite)</p> <p>iii. ذرات تیلنی مکھی</p> <p>Zarareeh/Telni Makkhi (Canthride)</p>		
11	<p>سموم عصبیہ</p> <p>Samoom Asbiyah</p> <p>(Neurotic Poisons)</p>	2	<p>I. دماغی سموم عصبیہ</p> <p>Dimaghi Samoom Asbiyah (Cerebral neurotics):</p> <p>i. ائیون</p>	8

			<p>Afiyoon(Opium)</p> <p>ii. الكوحل</p> <p>Alcohol (Ethanol & Methanol)</p> <p>iii. كلوروفارم</p> <p>Chloroform</p> <p>iv. روغن گل</p> <p>Roghane Gil (Kerosene oil)</p> <p>v. كوكين</p> <p>Cocaine</p> <p>vi. بھنگ</p> <p>Bhang (Cannabis)</p> <p>vii. جوزمائل يادھتورہ</p> <p>Jauze Masil/Dhatura (Thorn Apple)</p> <p>viii. يبروج</p> <p>Yabrooj (Belladona)</p> <p>II. نخاعى سموم عصيبه</p> <p>Nukhayi Samoome Asbiya (Spinal neurotics):</p> <p>i. اذراقى</p> <p>Azaraqui (Strychninos nuxvomica)</p>	
12	<p>سموم قلبيه</p> <p>Samooome Qalbiyah</p> <p>(Cardiac Poisons)</p>	2	<p>I. بيش يا بيٹھا تيليا</p> <p>Beesh/MeethaTeelia(Aconite)</p> <p>II. تمباکو</p> <p>Tambakoo (Tobacco)</p>	4
13	<p>سموم تنفسى يا اختناقى</p> <p>Samooome Tanaffusi</p> <p>(Asphyxiants)</p>	3	<p>I. کاربن مونو آکسائڈ</p> <p>Carbon Monoxide</p> <p>II. کاربن ڈائى آکسائڈ</p> <p>Cabon dioxide</p>	2

14	<p>زراعتی اور گھریلو سموم Zara'ati wa Ghareloo Samoom (Agricultural and Household Poisons)</p>	3	<p>I. ٹک ٹوٹی Tick-20 II. نیفتھلین بالز Naphthalene balls III. ڈی ڈی ٹی پاؤڈر DDT Powder IV. المونیم فوسفیٹ Aluminum Phosphate V. حشرات کش ادویہ Pesticides VI. زیبائشی یا آرائشی مواد Cosmetics: (Hair dye, Shampoo, Lipsticks, Skin Cream, Eye lotion & Eye Shades)</p>	8
15	<p>متفرقات Mutafarriqat (Miscellaneous)</p>	3	<p>I. نشہ خوری و نشہ کشی Nasha Khori wa Nasha Kushi (Addiction and De-addiction) i. نشہ آور اشیاء Nasha Awar Ashya (Addictives) ii. نشہ خور کا امتحان Examination of drug addict iii. نشہ خوری کا علاج Management of Addiction II. غذائی سمیت Ghizayi Tasammum (Food Poisoning) i. جراثیمی ذرائع Jarasimi Zaraye (Bacterial Sources) ii. نباتی ذرائع Nabaati Zaraye (Vegetable Sources) iii. حیوانی ذرائع</p>	9

			Haiwani Zaraye (Animal Sources) iv. کیمیادی ذرائع Kimiyawari Zaraye (Chemical Sources)	
16	خارجی دورہ Field visitation (as per feasibility)	3	I. دیگر کالجز کے میوزیم کا دورہ Visit to Museum of other colleges II. سانپ گاہ کا دورہ Visit to snake park III. دماغی ہاسپٹل کا دورہ Visit to Mental hospital IV. عدالت کا دورہ Visit to court V. معمل قضائی یا قانونی کا دورہ Visit to Forensic Science laboratory (FSL) VI. نشہ کش مراکز کا دورہ Visit to De addiction centers VII. نعش خانہ یا مردہ گھر کا دورہ Visit to Mortuary VIII. پولس اسٹیشن کا دورہ Visit to Police station	14
Total Hr				126

Activity

CO	Topic name	Activity Details	Hours#
CO1	General Introduction of Tibbul Qanoon	<ol style="list-style-type: none"> 1. Role play of court procedures 2. Role play of Gawah (Witness) 3. Role play of Shahadat (Evidence) 4. Role play of Taftesh (Inquest) <ul style="list-style-type: none"> • The class room will be assumed as a court • Students will be given different roles, like judge, advocate, coroner (in case of inquest) witness, jury and other people present in the court • The role play will be conducted in the presence of a subject teacher. • Intervene during role play and give your opinion about the correct aspect of the topic. • Play will be conducted only after completion of the related topic. • Record the statements in the practical record book. 	1 hour and 40 minutes
CO1	Introduction of Tibbul Qanoon	<p>Role play of Bayane Naza'yi (Dying Declaration) & Shahadate Naza'yi (Dying deposition)</p> <ul style="list-style-type: none"> • Make a small group of students • Assign them the duty of doctor, victim, police, advocate, judge. • Ask them to act as per the topic. • Discuss with the students during role play about the correct aspect of the topic. • Play will be conducted only after completion of the related topic. • Record the statements in the practical record book. 	20 minutes
CO1	Introduction of Tibbul Qanoon	<p>Role play and brainstorming on Professional misconduct.</p> <ul style="list-style-type: none"> • Make a small group of students • Assign them the duty of doctor, patient. • Ask them to act as per the topic. • Discuss with the students. • Record the activity in the practical record book. 	1 hour
CO1	Introduction of Tibbul Qanoon	Simulation and role play of duties of Physician at the time of examination of injured person in Medico legal case.	1 hour

		<ul style="list-style-type: none"> • A simulation drill will be performed in the hospital which is related to the Medical College. • Students will be given different roles, like an injured person, his family members, doctors and the • The play will be conducted in the presence of a subject teacher. • Play and simulation drill will be conducted only after completion of the related topic in the class. • Observe the entire procedures carefully and document them in the practical record book 	
CO2	Shanakht (Identification)	<ol style="list-style-type: none"> 1. Group discussion on medico legal importance of Umr (Age). 2. X-Ray identification of ossification of different Bones to determine the age 3. Group discussion on Determine the Anthropometry Stature and Height. <ul style="list-style-type: none"> • Make a small group of students • Assign them the topics of discussion. • Ask them to discuss various aspects of the topic. • Intervene in the discussion and give your opinion about the correct aspect of the topic. • Record the activity in the practical record book. 	4 hours
CO2	Zakhm/Jurooh (Wounds/Injuries)	<ol style="list-style-type: none"> 1. Demo on models to identify and describe characteristic features, causative factors and medicolegal importance of Sahaj (Abrasion), Razz/Khadash (Bruise/contusion), Jarha-e-Mumazziqah (lacerated wound), Jarha e Shaqqiya/Qatayiya (Incised wound), Jarha-e-Wakhziah (Punctured wound/Stab wound) and Jarha e Nariya (Firearm injuries), Defaayi Zakhm (Defense wound, Zakhme Jaali (Fabricated wound) 2. Demo on models to differentiate between Jarha e Qablal maut (Ante Mortem wounds) and Jarha e Ba'dal maut (Post Mortem wounds) 	5 hours

		<p>3. Group discussion on classification of severity of Harq (Burns) observing the photographs, charts.</p> <ul style="list-style-type: none"> • Photographs, charts, and models of various types of wounds will be provided to students. • Students will be asked to give demo on various models in front of class. • Students will be divided into groups of 5-10 according to convenience. • Discuss the topic and write various classifications of burns and which classification is better and why and then submit it to their subject teacher. • Activity will be done only after when the related topic is taught in the class. 	
CO2	Ilmul amwaat (Thanatology)	<p>Group discussion on postmortem changes in Eyes, Skin, muscles, Conditions simulating Rigor Mortis observing the photographs, charts, videos.</p> <ul style="list-style-type: none"> • Make a small group of students • Students will be provided with photographs, charts, and videos in the class. • Assign them the topics of discussion. • Ask them to discuss various aspects of the topic. • Intervene in the discussion and give your opinion about the correct aspect of the topic. • Activity will be done only after completion of the related topic in the class. • Record the activity in the practical record book. 	1 hour
CO2	Marge Tashaddud (Violent death)	<ol style="list-style-type: none"> 1. Group discussion on classification of Marge Tashaddud (Violent death) 2. Group discussion on Hanging, its post mortem appearances and medicolegal importance 3. Group discussion on Strangulation, its post mortem appearances and medicolegal importance 4. Group discussion on Throttling, Smothering, Gagging, Choking their post mortem appearances and medicolegal importance 5. Group discussion on Suffocation its post mortem appearances and medicolegal importance 	3 hours

		<p>6. Demo on models of Drowning and Explain its Mechanism, post mortem appearances</p> <ul style="list-style-type: none"> • Make a small group of students • Students will be provided with photographs, charts, models, and videos in the class. • Assign them the topics of discussion. • Ask them to discuss various aspects of the topic. • Intervene in the discussion and give your opinion about the correct aspect of the topic. • Record the activity in the practical record book. 	
CO3	Junoon (Insanity)	<p>Role play to differentiate between Junoon sadiq (True insanity) and Junoon kazib (Feigned insanity)</p> <ul style="list-style-type: none"> • Make a small group of students • Assign them the duty of doctor, patient. • Ask them to act as per the topic. • Discuss with the students. • Record the activity in the practical record book. 	30 minutes
CO5	Ilmus Samoom ka umoomi Ta'aruf (General introduction of Toxicology)	<p>Classification of samoom (poisons) by playing a web-based game.</p>	1 hour
CO1, CO5	Ilmus Samoom ka Umoomi Ta'aruf (General introduction of Toxicology)	<p>Role play to understand the duties of doctors in the cases of poisoning.</p> <ul style="list-style-type: none"> • Make a small group of students • Assign them the duty of doctor, patient. • Ask them to act as per the topic. • Discuss with the students. • Record the activity in the practical record book. 	1 hour
CO6	Samooome Laziyah/Mukharrisha (Irritant Poisons)	<p>Visit to Snake Park</p> <ul style="list-style-type: none"> • Identification of nearby Snake Park. • Communicate with them regarding permission to visit. • Students may be divided into groups for convenience. • Observe and learn about the snakes. • Report submission after the visit. 	4 hours
CO3	Junoon (Insanity)	<p>Visit to mental hospital</p>	4 hours

		<ul style="list-style-type: none"> • Identification of nearby mental hospital or a hospital having mental health unit. • Obtain prior permission for visit. • Students may be divided into groups for convenience. • Observe and learn about the functioning of the hospital, • Observed the diagnosis and treatment of Mental patients. • Report submission after the visit 	
CO1	Tibbul Qanooni ka Umoomi Ta'aruf (General introduction of Forensic Medicine)	<p>Visit to court</p> <ul style="list-style-type: none"> • Identification of nearby court. • Communicate with them regarding permission to visit. • Students may be divided in small groups. • Students must visit in proper dress e.g. Apron with name plate and stethoscopes. • Observe the various proceedings of the court and document them in the practical record book. • Report submission after the visit. 	4 hours
CO5	Ilmus Samoom ka Umoomi Ta'aruf (General introduction of Toxicology)	<ol style="list-style-type: none"> 1. Tutorial will be given to students to Describe and enlist Laws related to Poisons & Poisoning 2. Role play of Duties of doctors in Poisoning Cases 3. Demonstration on Single & Compound Unani Tiryaaqat (Antidotes) and describe their indications 4. Discussion on classification Tiryaaqat (Antidotes) and describe their indications. 5. Demonstration on models for procedure of Ghasle Meda (Gastric lavage) 6. Discussion on Tahaffuze Ahsha (Preservation of viscera) indications, material to be preserved, preservatives used and methods of preservation. 7. Discussion on Packing & dispatch of viscera and describe Forensic Science Laboratory (FSL) 8. Visit to FSL <ul style="list-style-type: none"> • Students will be given different roles, like patient, family members, doctor and the play will be conducted in the presence of a subject teacher. 	4 hours

		<ul style="list-style-type: none"> • Play will be conducted only after when the related topic will have been taught in the class. • Locate the nearest FSL. • Communicate with the authorities regarding permission of educational tour. • Students may be divided into groups for convenience • Observe various machinery, procedures in the FSL • Report submission after the visit to subject teacher. 	
CO7	Mutafarriqat (Miscellaneous)	<p>Visit to De-addiction center</p> <ul style="list-style-type: none"> • Identification of nearby deaddiction center or a hospital having deaddiction unit. • Communicate with them regarding permission to visit. • Students may be divided into groups for convenience. • Observe and learn about the functioning of the center, • Observed the diagnosis and treatment methods of deaddiction. • Report submission after the visit 	4 hours
CO2	Ilmul Amwaat (Thanatology)	<p>Visit to Mortuary</p> <ul style="list-style-type: none"> • Identification of nearby mortuary. • Communicate with them regarding permission to visit. • Students may be divided in small groups. • Observe the postmortem and document them in the practical record book. • Report submission after the visit. 	4 hours
CO1	Tibbul Qanooni ka Umoomi Ta'aruf (General introduction of Forensic Medicine)	<p>Visit to Police station</p> <ul style="list-style-type: none"> • Identification of nearby Police Stations. • Communicate with them regarding permission to visit. • Students may be grouped with 20 members in each group. • Observe different types of inquest and proceedings related to inquest. • Report submission after the visit 	2 hours
CO1	Tibbul Qanooni ka Umoomi Ta'aruf	<p>Visit to Museum of other AYUSH/Medical college to observe different types of specimens etc.</p>	4 hours

	(General Introduction) of Forensic Medicine)	<ul style="list-style-type: none"> • Identification of nearby museum of other AYUSH/Medical college. • Communicate with them regarding permission to visit. • Students may be grouped with 20 members in each group. • Observe different types of specimens available there. • Report submission after the visit 	
CO4	Dosheezgi aur Izala'e Bukarat (Virginity & Defloration)	<ol style="list-style-type: none"> 1. Self-directed Learning and demo on model for types of Parde e bukarat (Hymen) 2. Self-Directed Learning on signs and medicolegal importance of Dosheezgi and Izala e bukarat 3. Self-Directed Learning on Differentiate between Dosheezgi Sadiq (true virginity) and Dosheezgi kazib (false virginity) <ul style="list-style-type: none"> • Assign topics to all students. • Ask them to study various aspects of the topic. • Have a discussion and give your opinion about the correct aspect of the topic. • Record the activity in the practical record book. 	1 hour
CO4	Ghareloo/Khangi Tashaddud (Domestic violence)	<ol style="list-style-type: none"> 1. Discussion on Tifl-e-Mazroob (Battered baby), Zaujah-e- Mazroob (Battered wives) and Mashaikh-e- Mazroob (Battered Elderly) 2. Group discussion on Physical assault on doctors-IPC 354, -355 <ul style="list-style-type: none"> • Make a small group of students • Assign them the topics of discussion. • Ask them to discuss various aspects of the topic. • Intervene in the discussion and give your opinion about the correct aspect of the topic. • Record the activity in the practical record book. 	1 hour
# Hours indicated are included in calculations of Table 3 and 4			

Table 5- Teaching learning method

Sr No	Teaching learning methods in the course	No of Activities
1	Lecture	93
2	Lecture with Power point presentation	120
3	Lecture & Group Discussion	25
4	Lecture with Video clips	67
5	Discussions	28
6	Brainstorming	11
7	PBL	1
8	CBL	4
9	Project-Based Learning	2
10	Flipped classroom	2
11	Simulation	4
12	Role plays	12
13	Self-directed learning	4
14	Game-Based Learning	1
15	Demo on Model	11
16	Library Session	1
17	Tutorial	2
18	Presentations	1
19	X ray identification	1
20	Demonstration	1
21	Field visit	1

These are overall teaching learning methods listed in Table 3 and 4. Teachers can select the best possible method amongst the given methods as per objective, available time etc.

6 A-Number of Papers and Marks Distribution

Subject Code	Papers	Theory	Practical/Clinical Assessment					Grand Total
			Practical	Viva	Elective	IA	Sub Total	
UNIUG-TQS	1	100	100	20	10	20	150	250

6 B - Scheme of Assessment (formative and Summative)

PROFESSIONAL COURSE	DURATION OF PROFESSIONAL COURSE		
	First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)
Second	3 PA & First TT	3 PA & Second TT	3 PA & UE**

PA: Periodical Assessment; TT: Term Test; UE: University Examinations.
**** University Examination shall be on entire syllabus**

6 C - Calculation Method for Internal Assessment Marks (20 Marks)

Term	Periodical Assessment*				Term Test**	Term Assessment	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) (20)	Term Test (MCQ+SAQ+LAQ and Practical) (Converted to 20)	Sub Total	Term Assessment
First						D+E	D+E /2
Second						D+E	D+E /2
Third					NIL		D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						
	<p>* Select an Evaluation Methods which is appropriate for the objectives of Topics from the Table 6 D. Convert it to 20 marks.</p> <p>** Conduct Theory (100 Marks) (MCQ (20*1 Marks), SAQ (8*5), LAQ (4*10)) and Practical (100 Marks) Then convert to 20 Marks.</p>						

6 D - Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Activities Indicated in Table 3 - Column G3 as per Indicated I, II or III term in column I3 & I4.

6 E Question Paper Pattern

II PROFESSIONAL BUMS EXAMINATIONS UNIUG-TQS PAPER-1 Time: 3 Hours Maximum Marks: 100 INSTRUCTIONS: All questions compulsory				
		Number of Questions	Marks per question	Total Marks
Q 1	MULTIPLE CHOICE QUESTIONS (MCQ)	20	1	20
Q 2	SHORT ANSWER QUESTIONS (SAQ)	8	5	40
Q 3	LONG ANSWER QUESTIONS (LAQ)	4	10	40
				100

Similar for Paper II (If applicable)

6 F Distribution of theory examination

Paper 1						
Part A						
Sr.No	A List of Topics	B Term	C Marks	MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1	طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Forensic Medicine)	1	17	Yes	Yes	Yes
2	شناخت Shanakht (Identification)	1		Yes	Yes	Yes
3	زخم / جروح Zakhm /Jurooh (Wounds/Injuries)	2	6	Yes	Yes	No
4	علم الاموات Ilmul Amwaat (Thanatology)	2	5	No	Yes	No
5	مرگ تشدد Marge Tashaddud (Violent death)	2	10	No	No	Yes
6	عنانیت و عققر Ananat wa Uqr (Impotence & Sterility)	3	2	Yes	No	No
7	دوشیزگی اور ازالہ بکارت Dosheezgi aur Izala e Bukarat (Virginity & Defloration)	3	1	Yes	No	No
8	جنسی جرائم Jinsi Jara'im (Sexual offences)	3	2	Yes	No	No
9	حمل و اسقاط حمل Hamal (Pregnancy) & Isqaate Hamal (Abortion)	3	5	No	Yes	No
10	گھریلو یا خانگی تشدد Ghareloo/Khangi Tashaddud	3	1	Yes	No	No

	(Domestic violence)					
11	جنون یا دیوانگی Junoon ya Deewangi (Insanity)	3	1	Yes	No	No
Total Marks			50			
Part B						
Sr.No	A List of Topics	B Term	C Marks	MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
12	علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)	1	12	Yes	No	Yes
13	سموم اکالہ Samooome Akkalah (Corrosive Poisons)	1	3	Yes	No	No
14	سموم لاذعہ یا محرشہ Samooome Laziyah/ Mukharrisha (Irritant Poisons)	2	15	No	Yes	Yes
15	سموم عصبیہ Samooome Asbiyah (Neurotic Poisons)	2		No	Yes	Yes
16	سموم قلبیہ Samooome Qalbiyah (Cardiac Poisons)	2	5	No	Yes	No
17	سموم تنفسیہ Samooome Tanaffusiyah (Irrespirable Poisons/Asphyxiants)	3	2	Yes	No	No
18	زرعتی اور گھریلو سموم Zara'ati aur Ghareloo Samoom (Agricultural & Household Poisons)	3	6	Yes	Yes	No
19	متفرقات Mutafarriqat (Miscellaneous)	3	7	Yes	Yes	No
Total Marks			100			

6 G Blue print of paper I & II

Paper No:1		
Question No	Type of Question	Question Paper Format
Q1	<p>Multiple choice Questions 20 Questions 1 mark each All compulsory</p> <p>Must know part - 15 MCQ</p> <p>Desirable to know - 3 MCQ</p> <p>Nice to know part - 2 MCQ</p>	<ol style="list-style-type: none"> 1. عنانت و عقر Ananat wa Uqr (Impotence & Sterility) 2. عنانت و عقر Ananat wa Uqr (Impotence & Sterility) 3. دوشیزگی اور ازالہء بکارت Dosheezgi aur Izala'e Bukarat (Virginity & Defloration) 4. جنسی جرائم Jinsi Jara'im (Sexual offences) 5. جنسی جرائم Jinsi Jara'im (Sexual offences) 6. گھریلو یا خانگی تشدد Ghareloo/Khangi Tashaddud (Domestic violence) 7. طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Forensic Medicine) 8. شناخت Shanakht (Identification) 9. زخم / جروح Zakhm /Jurooh (Wounds/Injuries) 10. جنون یا دیوانگی Junoon ya Deewangi (Insanity) 11. علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology) 12. علم السموم کا عمومی تعارف

		<p>Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)</p> <p>13. سموم اكاله Samoom Akkalah (Corrosive Poisons)</p> <p>14. سموم اكاله Samoom Akkalah (Corrosive Poisons)</p> <p>15. سموم اكاله Samoom Akkalah (Corrosive Poisons)</p> <p>16. سموم تنفسيه Samoom Tanaffusiyah (Irrespirable Poisons/Asphyxiants)</p> <p>17. سموم تنفسيه Samoom Tanaffusiyah (Irrespirable Poisons/Asphyxiants)</p> <p>18. زراعتي اور گھریلو سموم Zara'ati aur Ghareloo Samoom (Agricultural & Household Poisons)</p> <p>19. متفرقات Mutafarriqat (Miscellaneous)</p> <p>20. متفرقات Mutafarriqat (Miscellaneous)</p>
Q2	<p>Short answer Questions Eight Questions 5 Marks Each All compulsory</p> <p>Must know - 7 SAQ Desirable to know - 1 SAQ No questions on Nice to know</p>	<p>1. شناخت Shanakht (Identification) / طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Forensic Medicine)</p> <p>2. زخم/جروح Zakhm /Jurooh (Wounds/Injuries)</p> <p>3. علم الاموات Ilmul Amwaat (Thanatology)</p> <p>4. حمل واستقاط حمل Hamal (Pregnancy) & Isqaate Hamal (Abortion)</p>

		<p>5. سموم لاذعہ یا مخر شہ Samooome Laziyah/ Mukharrisha (Irritant Poisons) /</p> <p>سموم عصیبہ Samooome Asbiyah (Neurotic Poisons)</p> <p>6. زراعتی اور گھریلو سموم Zara'ati aur Ghareloo Samoom (Agricultural & Household Poisons)</p> <p>7. متفرقات Mutafarriqat (Miscellaneous)</p> <p>8. سموم قلبیہ Samooome Qalbiyah (Cardiac Poisons)</p>
Q3	<p>Long answer Questions Four Questions 10 marks each All compulsory</p> <p>All questions on must know. No Questions on Nice to know and Desirable to know</p>	<p>1. شناخت Shanakht (Identification) /</p> <p>طب القانون کا عمومی تعارف Tibbul Qanoon ka Umoomi Ta'aruf (General Introduction of Forensic Medicine)</p> <p>2. مرگ تشدد Marge Tashaddud (Violent death)</p> <p>3. علم السموم کا عمومی تعارف Ilmus Samoom ka Umoomi Ta'aruf (General Introduction of Toxicology)</p> <p>4. سموم لاذعہ یا مخر شہ Samooome Laziyah/ Mukharrisha (Irritant Poisons) /</p> <p>سموم عصیبہ Samooome Asbiyah (Neurotic Poisons)</p>

6 H Distribution of Practical Exam

S.No	Heads	Marks
1	<p>Spotting: 1: Identification and description of different specimens of gastric tubes and their uses, tiryaaqat and their indications, poisons and their fatal dose, fatal period, symptoms and signs of poisoning, treatment, post mortem appearances or medico legal aspects (Any 10)</p> <ol style="list-style-type: none"> 1. Amboobe Medi (Gastric tube) 2. Tiryaaqat (Antidotes) 3. Samoome Akkalah (Corrosive Poisons) 4. Samoome Laziyah (Irritant Poisons) 5. Samoome Haiwani (Animal Poisons) 6. Samoome Asbiyah (Neurotic Poisons) 7. Samoome Qalbiyah (Cardiac Poisons) 8. Zara'ati wa Ghareloo Samoom (Agriculture & Household Poisons) 	30
2	<p>Spotting: 2: Identification and description of different specimen/photographs of Tibbul Qanoon, medicolegal importance etc. (Any 10)</p> <ol style="list-style-type: none"> 1. Photoraphs or Models of Shanakht 2. Photographs or models of Injuries 3. Photgraphs or models of weapons 4. Photograph or models signs of death 5. Photographs or models of asphyxial violent death 6. Photographs or models of various types of hymens 7. Photographs or models of Battered baby, battered wife and battered elderly 8. Photographs or models of Insanity 	30
3	<p>Demonstration: 1: (Any 03)</p> <ol style="list-style-type: none"> 1. Structure of Gastric tube/ Method of gastric Lavage. 2. Management of Vitriolage 3. Ilmu samoom (Differentiate between poisonous and non-poisonous snakes) 4. Characteristics of bite of poisonous snakes 5. Application of Tourniquet in cases of injectable poisons 6. Management of axphyxiant poisoning 7. Management of addiction through de addiction therapies. 	15
4	<p>Demonstration 2: (Any 03)</p> <ol style="list-style-type: none"> 1. Preparation of different certificates 2. Estimation of time of death from cooling of body 3. Explain the examination of the patient of izterab-e-Aqlee(Mental disorders) 	15

	<p>4. Demonstrate different types of fingerprints, foot prints, lip prints and hair through models, photographs and charts.</p> <p>5. Estimation of severity of burn using Rule of nine</p> <p>6. Various types of knots used in case of Hanging</p> <p>7. Demonstrate regional injuries to head (scalp wound, Skull fracture, Intracranial hemorrhage etc.) neck, Chest, Abdomen, Limbs, Genital organs, Spinal cord, Skeleton, Vehicular injuries and their primary and secondary impact, Secondary injuries, Crush syndrome, Railway spine through models, charts.</p>	
5	Record Book	10
6	Viva	20
7	Electives	10
8	Internal Assessment	20
Total Marks		150

References Books/ Resources

S.No	Book	Resources
1	Zakhirah Khawarizam Shahi	Ismaeel Jurjani.Matba Munshi Nawal Kishor
2	Kitabul Havi Fit Tib	Vol-19-Zakariya Razi, CCRUM
3	Kamilus Sana'ah	Ali Ibne Abbas Majoosi (Urdu Tarjuma: Gulam Husain Kantoori), Idara Kitabush Shifa, New Delhi
4	Alqanoon Fit Tib	Vol-3rd -Ibne Sina-Idara Kitabush Shifa, New Delhi
5	Kitabul Mukhtarat Fit Tib	Vol.4-Ibne Hubal Bughdadi-CCRUM
6	Ilmus Samoom	Hammad Usmani.Usmaniya Academy Allahabad
7	Makhzanul Ilaj Almaroof Bayaze Jilani	Gulam Jilani, Idara Kitabush Shifa, New Delhi
8	Marajul Bahrain	Syed Abdul Hameed, Idara Kitabush Shifa, New Delhi
9	Sadeedi	Sadeeduddeen Gazrooni, Idara Kitabush Shifa, New Delhi
10	Makhzane Hikmat	Ghulam Jeelani, Idara Kitabush Shifa, New Delhi
11	Tibbe Akbar	Akbar Arzani, Idara Kitabush Shifa, New Delhi
12	Firdausul Hikmat	Abul Hasan Ali Ibn Sahal At-tabri, Idara Kitabush Shifa, New Delhi
13	Samoom wa Tasammum	Intezar Ahmad, Wasim Ahmad, Hidayat Publishers & Distributors New Delhi
14	Tibbul Qanoon wa Ilmus Samoom	Qaumi Council barae Farog Urdu Zuban New Delhi (NCPUL)
15	Tibb-e- Qanooni wa Samoomiyat	J. Dicson Maan Traslated by Dr. Mohammad Husain, Jamiya Usmaniya Sarkar Aali Haidrabad Dakan
16	Tibb-e- Qanuni	Yusuf Ansari, Idara Kitabush Shifa, New Delhi
17	Ilmus Samoom	Yusuf Ansari, Idara Kitabush Shifa, New Delhi
18	Tauzihat Kulliyat Advia	Abdul Lateef, Ibn Sina Academy Aligarh
19	Essential of Toxicology	Mohd Akmal, Afsahul Kalam, uniCure UHCC Publication Patna
20	Khazainul advia	Najmul Gani, Idara Kitabush Shifa, New Delhi

21	Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology	CK Parikh, CBS Publishers and Distributors
22	Review of Forensic Medicine and Toxicology	Gautam Biswas, Jaypee Brothers Medical Publishers (P) Ltd
23	A Textbook of Medical Jurisprudence and Toxicology	-Krishan Viji, ELSEVIER
24	Modern Medical Toxicology	V V Pillay, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD
25	Concise Textbook of Forensic Medicine and Toxicology	R.K. Sharma, Global education consultant U.P
26	Textbook of Forensic Medicine & Toxicology	Nageshkumar G Rao, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD
27	Principles of Forensic Medicine	Apurba Nandy, New Central Book Agency, Kolkata
28	Textbook of Forensic Medicine and Toxicology	Anil Aggrawal, Avichal Publishing Company (APC)
29	The Essentials of Forensic Medicine and Toxicology	K. S. NARAYAN REDDY, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD
30	Principles of Forensic Medicine and Toxicology	Rajesh Bardale, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD
31	Case Studies in Medical Toxicology	Leslie R. Dye Christine Murphy Diane P. Calello Michael D. Levine Aaron Skolnik, Springers
32	Critical Care Toxicology	Jeffrey Brent, Keith Burkhart, Paul Dargan, Benjamin Hatten, Bruno Megarbane, Robert Palmer, Julian White, Springer
33	Textbook of Preventive and Social Medicine	Park K, Banarsidas Bhanot Publication: Jabalpur
34	Forensic Toxicology: A comparative approach	Vipul Ambade, CBS Publishers & Distributors Pvt. Ltd.

Abbreviations

Domains

S.No	Short form	Description
1	CK	Cognitive/Knowledge
2	CC	Cognitive/Comprehension
3	CAP	Cognitive/Application
4	CAN	Cognitive/Analysis
5	CS	Cognitive/Synthesis
6	CE	Cognitive/Evaluation
7	PSY-SET	Psychomotor/Set
8	PSY-GUD	Psychomotor/Guided response
9	PSY-MEC	Psychomotor/Mechanism
10	PSY-ADT	Psychomotor Adaptation
11	PSY-ORG	Psychomotor/Origination
12	AFT-REC	Affective/ Receiving
13	AFT-RES	Affective/Responding
14	AFT-VAL	Affective/Valuing
15	AFT-SET	Affective/Organization
16	AFT-CHR	Affective/ characterization

Teaching Learning Methods

S.No	Short form	Description
1	L	Lecture
2	L&PPT	Lecture with Power point presentation
3	L&GD	Lecture & Group Discussion
4	L_VC	Lecture with Video clips
5	DIS	Discussions
6	BS	Brainstorming
7	IBL	Inquiry-Based Learning
8	PBL	PBL
9	CBL	CBL
10	PrBL	Project-Based Learning
11	TBL	TBL
12	TPW	Team project work
13	FC	Flipped classroom
14	BL	Blended Learning
15	EDU	Edutainment
16	ML	Mobile learning
17	ECE	ECE
18	SIM	Simulation
19	RP	Role plays
20	SDL	Self-directed learning
21	PSM	Problem solving method
22	KL	Kinesthetic Learning
23	W	Workshops
24	GBL	Game-Based Learning
25	D-M	Demo on Model
26	LS	Library Session
27	PL	Peer learning

28	RLE	Real life experience
29	REC	Recitation
30	SY	Symposium
31	TUT	Tutorial
32	PER	Presentations
33	PT	Practical
34	X-Ray	X ray identification
35	CD	Case diagnosis
36	LRI	Lab report interpretation
37	DA	Drug analysis
38	D	Demonstration
39	D_BED	Demonstration bedside
40	D_L	Demonstration Lab
41	DG	Demonstration Garden
42	FV	Field visit
43	PRA	Practical

Assessments

S.No	Short form	Description
1	T-EMI	Theory extended matching item
2	T- EW	Theory Essay writing
3	T- MEQs	Theory MEQs –
4	T-CRQs	Theory CRQs-
5	T-CS	Theory case study-
6	T-OBT	Theory open book test –
7	P-VIVA	Practical Viva
8	P-REC	Practical Recitation
9	P-EXAM	Practical exam
10	PRN	Presentation
11	P-PRF	Practical Performance

12	P-SUR	Practical Survey
13	P-EN	Practical enact
14	P-RP	Practical Role play
15	P-MOD	Practical Model
16	P-POS	Practical Poster
17	P-CASE	Practical Case taking
18	P-ID	Practical identification
19	P-PS	Practical Problem solving
20	QZ	Quiz
21	PUZ	Puzzles
22	CL-PR	Class Presentation,
23	DEB	Debate
24	WP	Word puzzle
25	O-QZ	Online quiz
26	O-GAME	Online game-based assessment
27	M-MOD	Making of Model
28	M-CHT	Making of Charts
29	M-POS	Making of Posters
30	C-INT	Conducting interview
31	INT	Interactions
32	CR-RED	Critical reading papers
33	CR-W	Creativity Writing
34	C-VC	Clinical video cases,
35	SP	Simulated patients
36	PM	Patient management problems
37	CHK	Checklists
38	OSCE	OSCE
39	OSPE	OSPE,
40	Mini-CEX	Mini-CEX
41	DOPS	DOPS

42	CWS	CWS
43	RS	Rating scales
44	RK	Record keeping
45	COM	Compilations
46	Portfolios	Portfolios
47	Log book	Log book
48	TR	Trainers report
49	SA	Self-assessment
50	PA	Peer assessment
51	360D	360-degree evaluation
52	TT-Theory	Theory
53	PP-Practical	Practical
54	VV-Viva	Viva