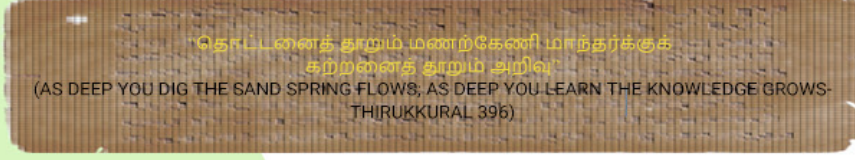


**Course curriculum for Second Professional (B.S.M.S)**

**(PRESCRIBED BY NCISM)**



**Bachelor of Siddha Medicine and Surgery (B.S.M.S)**

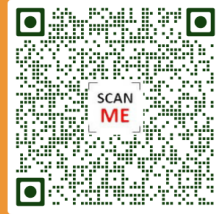
**(SUBJECT CODE : SIDUG – SSM & NM)**

**Sattam Saarntha Maruthuvamum Nanju Maruthuvamum  
(Forensic Medicine and Toxicology) Paper I & Paper II**

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



॥ आयुषे सर्वलोकानाम् ॥



NCISM\_II BSMS\_

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

## II Professional Siddha Maruthuva Arignar (B.S.M.S)

**Subject Code : SIDUG – SSM & NM**

### Summary

<b>Total number of Teaching hours: 260</b>			
<b>Lecture hours(LH)-Theory</b>		<b>120</b>	<b>120(LH)</b>
Paper I	60		
Paper II	60		
<b>Non Lecture hours(NLH)-Theory</b>		<b>140</b>	<b>140(NLH)</b>
Paper I	21		
Paper II	21		
<b>Non Lecture hours(NLH)-Practical</b>			
Paper I & II	98		

<b>Examination (Papers &amp; Mark Distribution)</b>					
<b>Item</b>	<b>Theory Component Marks</b>	<b>Practical Component Marks</b>			
		<b>Practical</b>	<b>Viva</b>	<b>Elective</b>	<b>IA</b>
Paper I	100	100	30	----	20
Paper II	100				
<b>Sub-Total</b>	200	150			
<b>Total marks</b>	350				

**Important Note:-**The User Manual II B.S.M.S 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](mailto:cur.imp@ncismindia.org)

## **PREFACE**

**Sattam Sarntha Maruthuvam and Nanju Maruthuvam (Forensic Medicine and Toxicology)** is a subject that deals with the application of medical knowledge to aid in the administration of justice and deals with the details of poisons, diagnosis and management of poisoning. This momentous subject is dealt here as separate papers for the detailed understanding of students which will have a significant impact on the practice of medicine, public health, and the justice system.

Sattam Sarntha Maruthuvam assistances Siddha Physician to have the most contact with law enforcement and is therefore well suited to aid in evidence conservation. The curriculum has been designed to provide a thorough understanding about the role of the forensic expert in the investigation and resolution of medico-legal cases through lecture and non-lecture hours. Also all the graduates will be made aware of the **Medical Ethics and Professional Conduct** in practice and they will gain a better understanding of the various types of certificates that can be issued. With the help of forensic knowledge, examination and diagnosis of individuals who have been injured by or who have died because of natural or unnatural causes can be ruled out.

Toxicology comprises the analysis of toxic substances and their metabolites in biological samples, to know the **fatal dose, fatal period, signs and symptoms, diagnosis and treatment for poisoning**. Also this subject gives more confidence to manage the poisoning cases as they become aware of the features, mechanism of action, prevention or elimination methods. The syllabus provides a complete knowledge about herbal, metal, mineral, animal and other poisonings as well as the medications used to treat the poisoning cases. Siddha physicians should know the adverse reactions of all preparations, they prescribe and use. As an outcome of their understanding of pharmacovigilance, physicians could able to get knowledge about detection,documentation of adverse drug reaction and managing the complaints regarding **ADR** and misleading advertishments.

The subject will also emphasize the development of critical thinking, analytical skills, and ethical values, which are essential for a competent expert in the field of Forensic medicine and Toxicology. The activity based learning in the curriculum will kindle the interest of students to explore more in this field and also helps to easily remember the things they learnt through lectures. Among those 20 activities, minimum 3 or 4 activities need to be carried out as mandatory covering the important areas of the subject. This syllabus will provide students with a strong foundation in Sattam Sarntha Maruthuvam and Nanju Maruthuvam, enabling them to serve society as competent and responsible Siddha Medical Practitioners.

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## Course Code and Name of Course

Course code	Name of Course
SIDUG-SSM&NM	Sattam Saarntha Maruthuvamum Nanju Maruthuvamum (Forensic Medicine and Toxicology) Paper I & Paper II

**Table 1- Course learning outcomes and matched PO**

SR1 CO No	A1 Course learning Outcomes (CO) SIDUG – SSM & NM At the end of the course SIDUG – SSM & NM, the students should be able to-	B1 Course learning Outcomes matched with program learning outcomes.
CO1	Appraise the Professional Ethics, Acts and Legal Responsibilities related to a Physician	PO1,PO11,PO12
CO2	Carry out the Examination of Living Persons in Medico Legal Cases	PO1,PO9,PO11,PO12
CO3	Analyze the Cause of Death due to various reasons, Time since Death and Value its Medico Legal Importance	PO1,PO9,PO11,PO12
CO4	Assess the Civil and Criminal Responsibilities of Insane person	PO1,PO11,PO12
CO5	Appraise the Significance and Role of Forensic Science Laboratory in Medico Legal cases	PO1,PO9,PO11,PO12
CO6	Evaluate the Diagnosis and Management of Various Poisonous Conditions	PO1,PO9,PO11,PO12
CO7	Demonstrate the Safety and Quality aspects of Food and Drugs in Patient Care	PO1,PO8,PO9,PO11,PO12
CO8	Assess and Plan Treatment Protocols for Drug Dependence	PO1,PO7,PO8,PO11,PO12
CO9	Demonstrate Awareness of Safety Parameters in Toxicology	PO1,PO9,PO11,PO12

**Table 2 : Contents of Course**

<b>Paper 1</b>					
<b>Sr. No</b>	<b>A2 List of Topics</b>	<b>B2 Term</b>	<b>C2 Marks</b>	<b>D2 Lecture hours</b>	<b>E2 Non- Lecture hours</b>
1	<p><b>1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</b></p> <p>Please Note:- Marks, Lecture hours, and Nonlecture hours are indicated for the entire topic. Hence they are shown as "0" In Sub topics, 1.1 to 1.4. Teachers can allocate time, based on objectives and teaching-learning methods.</p>	1	28	7	3
2	<p><b>1.1 Introduction to Forensic Medicine</b></p> <ul style="list-style-type: none"> <li>• Forensic Medicine</li> <li>• Forensic Pathology</li> <li>• Thanatology</li> <li>• Clinical Forensic Medicine</li> <li>• Medical Jurisprudence</li> <li>• Medical Ethics</li> <li>• Medical Etiquette</li> <li>• <b>Maruthuvar Ilakkanam (Siddhar's oath)</b></li> <li>• History of Forensic Medicine</li> </ul>	1		0	0
3	<p><b>1.2 Legal Procedures</b></p> <ul style="list-style-type: none"> <li>• IPC</li> <li>• CrPc</li> <li>• IEA</li> <li>• Unnatural Deaths</li> <li>• Inquest</li> <li>• Courts</li> <li>• Power of Courts</li> <li>• Proceedings of the Courts</li> <li>• Medical (Documentary) Evidences</li> <li>• Dying Declaration</li> <li>• Dying Deposition</li> <li>• Summon - Witness</li> </ul>	1		0	0

	<ul style="list-style-type: none"> <li>• Sentences</li> <li>• Duties of Doctors in Courts Proceedings</li> </ul>			
4	<p><b>1.3 Medical Law and Ethics</b></p> <ul style="list-style-type: none"> <li>• Duties of Medical Practitioners</li> <li>• <b>NMC</b></li> <li>• <b>NCISM</b></li> <li>• State Medical Council and Its Functions</li> <li>• The Tamil Nadu Siddha Medical Council</li> <li>• Professional Misconduct</li> <li>• Professional Secrecy</li> <li>• Professional Negligence</li> <li>• Consent</li> <li>• Mercy killing</li> <li>• Declaration of Geneva (1948)</li> <li>• Organ Transplantation Act</li> </ul>	1	0	0
5	<p><b>1.4 Law and Acts Regulating Medical Practice in India</b></p> <ul style="list-style-type: none"> <li>• Important Provisions of Constitution of India</li> <li>• Important Provisions of Indian Evidence Act</li> <li>• The National Medical Commission Act,2019</li> <li>• Indian Medicine Central Council Act,1970</li> <li>• Drugs and Cosmetics Act 1940 and its Amendments</li> <li>• Drugs,Medical Devices and Cosmetics Bill 2022</li> <li>• Drugs and Magic Remedies (objectionable) Advertisements Act 1954</li> <li>• Drugs Control Act 1950</li> <li>• Prohibition of violence against Medicare Service Insitutions Act 2009</li> <li>• <b>Important IPC and CrPC</b></li> <li>• IPC Section</li> <li>• 88—93,197, 272, 273,274,275,276,284, 302, 304, 304A,304B, 306, 309, 312-316, 320, 323, 324, 375, 376, 377,497</li> <li>• <b>CrPC Section 174</b></li> <li>• <b>Laws related to Medical Practice</b></li> <li>• Anatomy Act 1957</li> <li>• Mental Health Act 1987</li> <li>• Pharmacy Act 1948</li> <li>• Poison Act 1919</li> </ul>	1	0	0

	<ul style="list-style-type: none"> <li>• Prevention of Food Adulteration Act 1954</li> <li>• Protection of Human Rights Act 1993</li> <li>• Registration of Birth and Death Act 1969</li> <li>• Transplantation of Human Organ Act 1994</li> <li>• The Food Safety and Standards Act 2006</li> <li>• PoCSO Act 2004</li> <li>• Clinical Establishment Act 2010</li> <li>• Laws Regulating Emergency Medical Care given by AYUSH Medical Practitioner</li> <li>• Rights and Privileges of AYUSH Medical Practitioner</li> <li>• Procedures for Obtaining License for Sasthric and Patent Drug ( State / Central Regulation).</li> </ul>			
6	<p><b>2. IDENTITY</b></p> <ul style="list-style-type: none"> <li>• Useful factors for Identification</li> <li>• Identity in Civil and Criminal cases</li> <li>• Identity in Dead person and Living person</li> <li>• Racial Characters and Religion</li> <li>• Sex Determination</li> <li>• Age Estimation from Teeth and Bones</li> <li>• Medicolegal Importance of Age</li> <li>• Developmental features and Stature</li> <li>• Complexion features of Individual</li> <li>• Hair</li> <li>• External Peculiarities</li> <li>• Scars</li> <li>• Malformation</li> <li>• Tattoo Marks</li> <li>• Anthropometry</li> <li>• Dactylography</li> <li>• Poroscopy</li> <li>• Skull Photo Super imposition</li> <li>• Podography</li> <li>• Cheiloscopy</li> <li>• Occupational Marks</li> </ul>	1	9	3
7	<p><b>3 THANATOLOGY</b></p> <p>Please Note:- Marks, Lecture hours, and Nonlecture hours are indicated for the entire topic. Hence they are shown as</p>	1	3	2



	"0" In Sub topics, 3.1 to 3.3. Teachers can allocate time, based on objectives and teaching-learning methods.				
8	<b>3.1 Medico Legal Autopsy</b> <ul style="list-style-type: none"> <li>• Type of Autopsy</li> <li>• Obscure Autopsy</li> <li>• Negative Autopsy</li> <li>• Virtopsy</li> <li>• Autopsy Procedure</li> <li>• External and Internal Examination</li> <li>• Preparation of Specimens for Analysis</li> <li>• Exhumation</li> </ul>	1		0	0
9	<b>3.2 Death and It's Causes</b> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Medico Legal Importance</li> <li>• Harvard's Criteria (1968)</li> <li>• Modes of Death and Classification</li> <li>• Sudden Death</li> <li>• Issue of Death Certificate</li> <li>• Signs of Death.</li> </ul>	1		0	0
10	<b>3.3 Postmortem Changes</b> <ul style="list-style-type: none"> <li>• Postmortem Hypostasis</li> <li>• Cadaveric Changes in the Muscle</li> <li>• Primary Relaxation</li> <li>• Rigidity</li> <li>• Secondary Relaxation</li> <li>• Autolysis</li> <li>• Putrefaction</li> <li>• Adipocere Formation</li> <li>• Mummification</li> <li>• Estimation of Time Since Death</li> </ul>	1		0	0
11		2	17	9	3

	<p><b>4 ASPHYXIA</b></p> <ul style="list-style-type: none"> <li>• Definition Asphyxia</li> <li>• Asphyxial Death Causes</li> <li>• Features of Asphyxial Death</li> <li>• Autopsy findings of Asphyxial Deaths</li> <li>• Hanging</li> <li>• Complete and Incomplete Hanging</li> <li>• Causes for Death</li> <li>• Autopsy Findings</li> <li>• Judicial Hanging Medico Legal Aspects</li> <li>• Antemortem and Postmortem Hanging</li> <li>• Accidental - Suicidal - Homicidal Hanging</li> <li>• Strangulation Autopsy Finding</li> <li>• Medico Legal Aspects</li> <li>• Differences between Hanging and Strangulation</li> <li>• Throttling Autopsy Findings</li> <li>• Drowning Causes</li> <li>• Types of Drowning</li> <li>• Autopsy findings</li> <li>• Antemortem and Postmortem Drowning</li> <li>• Smothering</li> <li>• Suffocation</li> <li>• Medico Legal Aspects</li> <li>• Choking</li> <li>• Traumatic Asphyxia</li> <li>• Autopsy Findings</li> <li>• Medico Legal Aspects of Asphyxia</li> </ul>				
12	<p><b>5 MECHANICAL INJURIES</b></p> <ul style="list-style-type: none"> <li>• Injury</li> <li>• Classification</li> <li>• Abrasion</li> <li>• Contusion</li> <li>• Lacerated Wound</li> <li>• Incised Wound</li> <li>• Stab Wound</li> <li>• Fire arm Wound</li> <li>• Medico Legal Importance of Injuries</li> <li>• Antemortem and Postmortem Wounds</li> <li>• Internal and External Changes of Wounds</li> <li>• Age of the Wounds</li> <li>• Cause of Death due to Wounds</li> <li>• Fatal Injuries</li> <li>• Grievous Injuries</li> </ul>	2	17	10	3

	<ul style="list-style-type: none"> <li>• Defense Wound</li> <li>• Hemorrhage</li> <li>• Fat Embolism</li> <li>• Systemic Embolism</li> <li>• Bomb Explosive Wounds</li> <li>• Medico Legal Importance of RTA &amp; Head Injuries</li> </ul>				
13	<p><b>6 SEXUAL JURISPRUDENCE</b></p> <p>Please Note:- Marks, Lecture hours, and Nonlecture hours are indicated for the entire topic. Hence they are shown as "0" In Sub topics, 6.1 to 6.7. Teachers can allocate time, based on objectives and teaching-learning methods.</p>	3	38	9	2
14	<p><b>6.1 Unnatural Sexual Offenses</b></p> <ul style="list-style-type: none"> <li>• Sodomy</li> <li>• Examination of the Accused and Victim</li> <li>• Bestiality</li> <li>• Examination of the Accused and Animal</li> <li>• Buccal Coitus</li> <li>• Tribadism</li> <li>• Sexual Perversions</li> <li>• Transveritism</li> <li>• Sadism</li> <li>• Masochism</li> <li>• Exhibitionism</li> <li>• Fetchism</li> <li>• Necrophilia</li> <li>• Froteurism</li> <li>• Masturbation</li> <li>• Undinism</li> <li>• Sexting</li> <li>• Pedophilia</li> <li>• Lust Murder</li> <li>• Stains - Types, Medico Legal Aspect</li> </ul>	3		0	0
15	<p><b>6.2 Natural Sexual Offenses</b></p> <ul style="list-style-type: none"> <li>• Classifications of Sexual Offenses</li> </ul>	3		0	0

	<ul style="list-style-type: none"> <li>• Rape</li> <li>• Incest</li> <li>• Procedure for Examination of the Accused and Victim</li> <li>• Bloodstains</li> <li>• General Examination</li> <li>• Semenology</li> <li>• Physical - Chemical and Microscopic Examination of Semen</li> <li>• Medico Legal Importance of Semen</li> </ul>			
16	<p><b>6.3 Impotence, Sterility and Artificial Insemination</b></p> <ul style="list-style-type: none"> <li>• Impotence</li> <li>• Sterility</li> <li>• Sterilization</li> <li>• Artificial Insemination</li> <li>• Surrogate Motherhood - Medico Legal Aspect</li> </ul>	3	0	0
17	<p><b>6.4 Virginit</b></p> <ul style="list-style-type: none"> <li>• Anatomy of Female Genitalia</li> <li>• Hymen - Types</li> <li>• Causes for the Rupture of Hymen</li> <li>• Medico Legal Importance</li> </ul>	3	0	0
18	<p><b>6.5 Pregnancy</b></p> <ul style="list-style-type: none"> <li>• Fertilization</li> <li>• Confirmation findings for Pregnancy</li> <li>• Presumptive Signs</li> <li>• Probable Signs</li> <li>• Positive Signs</li> <li>• Biological Tests</li> <li>• Medico Legal Importance</li> <li>• Superfecundation</li> <li>• Superfoetation</li> <li>• Pseudocyesis</li> <li>• PcPNDT Act</li> </ul>	3	0	0

	<ul style="list-style-type: none"> <li>• Legitimacy and Paternity</li> <li>• Posthumous Child</li> </ul>			
19	<b>6.6 Delivery</b> <ul style="list-style-type: none"> <li>• Signs of Delivery in the Living</li> <li>• Sign of Remote Delivery in the Living</li> <li>• Signs of Delivery in the Dead</li> <li>• Supposititious Child</li> </ul>	3	0	0
20	<b>6.7 Abortion</b> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Cause and Types of Abortion</li> <li>• Procedures</li> <li>• Criminal Abortion</li> <li>• Complications</li> <li>• Cause of death</li> <li>• MTP act with Amendments</li> </ul>	3	0	0
21	<b>7 INFANTICIDE</b> <ul style="list-style-type: none"> <li>• Infanticide &amp; Its criminal proceedings</li> <li>• Still born or Live born</li> <li>• Dead born</li> <li>• Mummification</li> <li>• Causes of Death</li> <li>• To confirm whether Stillborn or Deadborn</li> <li>• Accidental causes</li> <li>• Natural Causes - Criminal Causes</li> <li>• Precipitate Labor</li> <li>• Medico legal Importance</li> <li>• Concealment of Birth</li> <li>• Sudden Infant Death Syndrome</li> <li>• Battered Baby Syndrome</li> </ul>	3	2	1
22		2	6	1

	<p><b>8 THERMAL, ELECTRICAL AND LIGHTNING INJURIES</b></p> <p>Please Note:- Marks, Lecture hours, and Nonlecture hours are indicated for the entire topic. Hence they are shown as "0" In Sub topics, 8.1 to 8.2 Teachers can allocate time, based on objectives and teaching-learning methods.</p>			
23	<p><b>8.1 Burns and Scalds</b></p> <ul style="list-style-type: none"> <li>• Burns</li> <li>• Scalds</li> <li>• Wallace Rule of Nine</li> <li>• Stages of Burns &amp; Scalds</li> <li>• Signs &amp; Symptoms</li> <li>• Causes of Death</li> <li>• Difference Between Burns &amp; Scalds</li> <li>• Autopsy findings</li> <li>• Medico legal Importance</li> </ul>	2	0	0
24	<p><b>8.2 Electrical Injuries,Lightning, Heat Stroke,Heat Exhaustion and Hypothermia</b></p> <ul style="list-style-type: none"> <li>• Electrical Injuries and Its Effect</li> <li>• Cause for Death</li> <li>• Treatment</li> <li>• Autopsy Findings</li> <li>• Medico Legal Importance</li> <li>• Hypothermia</li> <li>• Heat Stroke</li> <li>• Heat Exhaustion and its Effects</li> <li>• Autopsy Findings</li> <li>• Medico Legal Importance</li> </ul>	2	0	0
25	<p><b>9 STARVATION</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Signs &amp; Symptoms</li> <li>• Cause of death</li> <li>• Autopsy findings</li> </ul>	3	1	1

	<ul style="list-style-type: none"> <li>• Medico legal importance</li> </ul>				
26	<p><b>10 FORENSIC PSYCHIATRY</b></p> <ul style="list-style-type: none"> <li>• Insanity</li> <li>• Delirium</li> <li>• Delusion</li> <li>• Medico Legal Aspects</li> <li>• Hallucination</li> <li>• Illusion</li> <li>• Lucid Interval</li> <li>• Impulse</li> <li>• Obsession</li> <li>• Phobia</li> <li>• Idiocy</li> <li>• Mental Subnormality</li> <li>• Diagnosis of Insanity</li> <li>• Imbecility</li> <li>• Feeble Mindedness</li> <li>• Dementia</li> <li>• Schizophrenia</li> <li>• Psychic Epilepsy</li> <li>• Melancholia</li> <li>• Bipolar Disorder</li> <li>• Psychiatry due to Alcohol Abuse</li> <li>• Feigned Insanity</li> <li>• Laws related to Psychiatry</li> <li>• Court and Psychiatry</li> <li>• Civil and Criminal Responsibilities of Mentally Ill persons</li> <li>• Somnambulism</li> <li>• Automatism</li> <li>• Hypnotism and Mesmerism</li> <li>• Medico Legal Importance.</li> </ul>	3		4	1
27	<p><b>11 FORENSIC SCIENCE LABORATORY</b></p> <ul style="list-style-type: none"> <li>• Definition - Branches and its Functions</li> </ul>	3	0	0	1
<b>Total Marks</b>			<b>100</b>	<b>60 hr</b>	<b>21 hr</b>

Paper 2					
Sr. No	A2 List of Topics	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
28	<p><b>1 INTRODUCTION TO TOXICOLOGY</b></p> <ul style="list-style-type: none"> <li>• Definition - Poison</li> <li>• Toxin</li> <li>• Toxinology</li> <li>• Toxicokinetics</li> <li>• History of Poison</li> <li>• <b>History of Siddha Toxicology</b></li> <li>• Adverse effects caused as a result of defects in pharmaceutical procedures (<b>Marunthu sarivara mudiyathathal aerpadum theemaikal</b>)</li> <li>• Siddha Parameters to check the quality of End products (<b>Marunthinal Varum Keduthigal</b>)</li> <li>• <b>Marunthu Sarivara Mudinthamaikkana Sothanaikal</b></li> <li>• Laws of Poison</li> <li>• Poison Information Centre</li> <li>• Classification of Poisons</li> <li>• Factors Modifying the effect of Poison</li> <li>• Actions of Poison</li> <li>• Biotransformation</li> <li>• Route of Administration</li> <li>• Route of Excretion</li> <li>• Toxicity Rating</li> <li>• Diagnosis of Poisoning in Living and Dead</li> <li>• Duties of a Doctor in case of Poisoning</li> <li>• Treatment of Poisoning</li> <li>• Ideal Homicidal and Suicidal poisons</li> <li>• <b>Siddha Emergency Treatment - Kudori, Pugai maruthuvam and it's Significance.</b></li> </ul>	1	18	12	6
29	<p><b>2 CORROSIVE POISON</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Types</li> </ul> <p><b>Inorganic acids:</b></p>	1	7	3	0



	<ul style="list-style-type: none"> <li>• Sulphuric acid -Vitriolage</li> <li>• Nitric acid</li> <li>• Hydrochloric acid</li> </ul> <p><b>Organic acids :</b></p> <ul style="list-style-type: none"> <li>• Carboilc Acid</li> <li>• Oxalic Acid</li> </ul> <p><b>Strong alkalis:</b></p> <ul style="list-style-type: none"> <li>• Sodium, Potassium, Ammonium hydroxide and Carbonates</li> <li>• <b>Upputhiravagam nanju</b></li> <li>• <b>Uppu nanju</b></li> <li>• <b>Chunnambu nanju</b></li> </ul>				
30	<p><b>3 IRRITANT POISON</b></p> <p>Please Note:- Marks, Lecture hours, and Nonlecture hours are indicated for the entire topic. Hence they are shown as "0" In Sub topics, 3.1 to 3.5. Teachers can allocate time, based on objectives and teaching-learning methods.</p>	2	23	13	4
31	<p><b>3.1 Agricultural Poison</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Types</li> <li>• Organo phosphorous</li> <li>• Organo chlorine</li> <li>• Carbamates</li> </ul>	2		0	0
32	<p><b>3.2 Inorganic Irritants - Metallic Poisons</b></p> <ul style="list-style-type: none"> <li>• Arsenic compounds</li> <li>• Lead</li> </ul>	2		0	0

	<ul style="list-style-type: none"> <li>• Copper</li> <li>• Mercury compounds</li> <li>• Zinc</li> </ul> <p><b>Siddha Aspect</b></p> <ul style="list-style-type: none"> <li>• Vellaipadanam</li> <li>• Gowripadanam</li> <li>• Thalagam</li> <li>• Mirudharsingi</li> <li>• Vangam</li> <li>• Sembu</li> <li>• Thurusu</li> <li>• Rasam</li> <li>• Veeram</li> <li>• Pooram</li> <li>• Lingam</li> </ul>			
33	<p><b>3.3 Inorganic Irritants - Non Metallic Poisons</b></p> <ul style="list-style-type: none"> <li>• Phosphorous</li> <li>• Sulphur</li> <li>• Mica</li> </ul> <p><b>Siddha aspect</b></p> <ul style="list-style-type: none"> <li>• Gandhagam</li> <li>• Abragam</li> </ul>	2	0	0
34	<p><b>3.4 Mechanical Irritant Poison</b></p> <ul style="list-style-type: none"> <li>• Glass powder</li> <li>• Diamond powder</li> <li>• Animal hairs</li> <li>• Vegetable stings</li> </ul>	2	0	0
35	<p><b>3.5 Organic Plant Irritant Poison</b></p>	2	0	0

	<ul style="list-style-type: none"> <li>• Identification</li> <li>• Poisonous Parts</li> <li>• Active Principle</li> <li>• Toxic Symptoms</li> <li>• Modern &amp; Siddha Line of Treatment</li> <li>• Postmortem Appearance and Medico Legal Aspects for</li> <li>• Kundrimani - <i>Abrus precatorius</i></li> <li>• Erukku - <i>Calotropis gigantea</i></li> <li>• Sengottai - <i>Semicarpus anacardium</i></li> <li>• Milakai - <i>Capsicum annum</i></li> <li>• Nervaalam - <i>Croton tiglium</i></li> <li>• Aamanakku - <i>Ricinus communis</i></li> <li>• Chathurakalli - <i>Euphorbia antiquorum</i></li> <li>• Thillai - <i>Excoearia agallocha</i></li> <li>• Kalappai kizhangu - <i>Gloriosa superba</i></li> <li>• Kodiveli - <i>Plumbago zeylanica</i></li> </ul>				
36	<p><b>4.ANIMAL POISON</b></p> <p><b>Modern Aspect</b></p> <p><b>Snake</b></p> <ul style="list-style-type: none"> <li>• Identification</li> <li>• Characters of Snake</li> <li>• Types of Snake</li> <li>• Fangs</li> <li>• Snake Venom and it's nature</li> <li>• Actions of Venom</li> <li>• Fatal Dose</li> <li>• Fatal Period</li> <li>• Diagnosis of Snake bite</li> <li>• Signs and Symptoms</li> <li>• Treatment of Snake bite</li> <li>• Post-mortem findings</li> <li>• Medico-legal aspects</li> </ul> <p><b>Scorpion sting</b></p> <ul style="list-style-type: none"> <li>• Types</li> <li>• Signs and symptoms</li> <li>• Treatment</li> <li>• Post-mortem findings</li> </ul>	2	18	13	4

- Bees Wasp & Hornets
- Signs and symptoms
- Treatment
- Cantharides
- Signs and Symptoms
- Treatment
- Centipedes and Millipedes

### **Siddha Aspect**

- Pambukalin vakaikal - Types of snakes
- Vazhvidam matrum Iyalbu - Habitat and character
- Parkadi nanju - Identification of snake Bite
- Theerum Theerathavaikuri - Curable , incurable symptoms
- Nanju Vegam - Speed of venom spreading
- Specific Treatment for Nanju Vegam
- Pambukadi Maruthuvam - General Treatment for Snake poisoning
- Viriyan pambu Nanju - (Viper snake) Types , Signs and symptoms
- Viriyan pambu kadi Maruthuvam - Treatment of Viper Poisoning
- Thel - (Scorpion) Types - Signs and symptoms - Treatment
- Nattuvaakaali - (King Scorpion) Types, signs and symptoms, Treatment

### **Signs and Symptoms and - Treatment of Following Poisonous bites**

- Eli - Rat
- Cheyyan - Red centipede
- Pooran - Centipede
- Onan - Garden Lizard
- Pachonthi - Chameleon
- Thavalai - Frog
- Palli - Lizard
- Attai - Leech
- Poonai - Cat
- Kurangu - Monkey
- Kuthirai - Horse
- Pei naikadi - Dog bite
- Kanakkadi - Unknown bite
- Vandu kadi - Beetle
- Kaatu Kosukkadi - Wild Mosquitto
- Kulavi - Wasp
- Malai Erumbu - Wild ant

	<ul style="list-style-type: none"> <li>• Kambali poochi - Caterpillar</li> <li>• Aranai - Skink</li> </ul> <p><b>Silanthi - Spider</b></p> <ul style="list-style-type: none"> <li>• Types</li> <li>• Toxin types</li> <li>• Nanju Vegam</li> <li>• Nanju verubaadu</li> <li>• Treatment of Silanthi Nanju</li> <li>• <b>Human and Animal Bites treated with Palagarai Parpam</b></li> <li>• <b>Animal Bites treated with Abraga Parpam</b></li> </ul> <p><b>Important Preparations for Treating Animal Bites</b></p> <ul style="list-style-type: none"> <li>• Abhraga Parpam Vidamai</li> <li>• Vidakulambu</li> <li>• EganthaThailam</li> <li>• Neelakanda Kuligai</li> <li>• Sundari Thailam</li> </ul>				
37	<p><b>5 HOUSEHOLD POISON</b></p> <ul style="list-style-type: none"> <li>• <b>Signs,Symptoms and Treatment of following poisons</b></li> <li>• Analgesics</li> <li>• Anti pyretics</li> <li>• Kerosene</li> <li>• Ant Powder</li> <li>• Rat poison</li> <li>• Camphor</li> <li>• Soodan - Siddha aspect</li> </ul>	2	1	1	1
38	<p><b>6 SYSTEMIC POISON AND ASPHYXIANTS</b></p> <p>Please Note:- Marks, Lecture hours, and Nonlecture hours are indicated for the entire topic. Hence they are shown as</p>	3	23	10	3

	"0" In Sub topics, 6.1, 6.1.1, 6.1.2, 6.1.3, 6.1.4, 6.2, 6.3. Teachers can allocate time, based on objectives and teaching-learning methods.			
39	<b>6.1 CEREBRAL AND SPINAL POISON</b>	3	0	0
40	<b>6.1.1 CNS Depressants</b> <ul style="list-style-type: none"> <li>• Alcoholic poisoning</li> <li>• Signs and symptoms</li> <li>• Treatment</li> <li>• Postmortem appearance</li> <li>• Medico legal importance</li> <li>• Drunkenness</li> <li>• Methyl alcohol poisoning</li> <li>• Toddy</li> <li>• Country Arrack</li> <li>• Stages and treatment protocol for Alcohol poisoning</li> <li>• Opium and its Derivatives</li> <li>• Signs and symptoms</li> <li>• Treatment</li> <li>• Postmortem aspect</li> <li>• Medico legal importance</li> </ul> <b>Siddha Aspect</b> <ul style="list-style-type: none"> <li>• Abini - <i>Papaver somniferum</i></li> <li>• Signs and symptoms</li> <li>• Treatment in siddha aspect</li> </ul>	3	0	0
41	<b>6.1.2 CNS Stimulants</b> <ul style="list-style-type: none"> <li>• Amphetamine</li> <li>• Caffeine</li> </ul>	3	0	0
42		3	0	0

	<p><b>6.1.3 Deliriant</b></p> <ul style="list-style-type: none"> <li>• Poisonous Parts</li> <li>• Active Principle</li> <li>• Toxic Symptoms</li> <li>• <b>Modern &amp; Siddha Line of Treatment and Postmortem Examination and Medico Legal aspects of</b></li> <li>• Oomathai - (<i>Datura metel</i>) poisoning</li> <li>• Ganja - (<i>Cannabis sativa</i>) Poisoning</li> <li>• Cocaine</li> <li>• Signs and Symptoms of Acute and Chronic poisoning</li> <li>• Treatment</li> <li>• Postmortem Aspect</li> <li>• Medico Legal Importance</li> </ul>				
43	<p><b>6.1.4 Spinal poison</b></p> <ul style="list-style-type: none"> <li>• Poisonous Parts</li> <li>• Active Principle</li> <li>• Toxic Symptoms</li> <li>• Line of Treatment</li> <li>• <b>Modern &amp; Siddha Aspect Postmortem Examination and Medico Legal Aspects of</b></li> <li>• Etti (<i>Strychnus nuxvomica</i>)</li> <li>• Peripheral Nerve Poison - Hemlock</li> </ul>	3		0	0
44	<p><b>6.2 Cardiac Poison</b></p> <ul style="list-style-type: none"> <li>• Poisonous Parts</li> <li>• Active Principle</li> <li>• Toxic Symptoms</li> <li>• Line of Treatment</li> <li>• <b>Modern &amp; Siddha Aspect and Post-mortem Examination and Medico Legal Aspects of</b></li> <li>• Arali - (<i>Nerium Odorum</i>)</li> <li>• Manjal Arali - (<i>Cerbera thevitea</i>)</li> <li>• Naabi - (<i>Aconitum ferox</i>)</li> <li>• Pugaiilai - (<i>NicotianaTobaccum</i>)</li> <li>• Oduvan - (<i>Cleistanthus Collinus</i>)-</li> <li>• Nari pugaiilai - (<i>Digitalis purpurea</i>)</li> </ul>	3		0	0

45	<p><b>6.3 Asphyxiants</b></p> <ul style="list-style-type: none"> <li>• Signs and symptoms</li> <li>• Treatment</li> <li>• <b>Post mortem appearance and Medico Legal Importance of</b></li> <li>• Carbon Monoxide</li> <li>• Carbon Dioxide</li> <li>• Hydrogen Sulphide</li> <li>• War Gases and its Types</li> </ul>	3		0	0
46	<p><b>7 FOOD POISONING AND FOOD ADULTERATION</b></p> <ul style="list-style-type: none"> <li>• Poisoning due to Micro organisms ( Bacteria, Protozoa, Fungus)</li> <li>• Botulism</li> <li>• Poison due to Chemical and Food Additives (Mono sodium glutamate - MSG)</li> <li>• Mushrooms</li> </ul> <p><b>Symptoms and Treatment for Excessive Intake of Food and Vegetable Origin</b></p> <ul style="list-style-type: none"> <li>• Lathyrus sativus</li> <li>• Rye</li> <li>• Oats</li> <li>• Barley</li> <li>• Ulunthu (<i>Vigna mungo</i>)</li> <li>• Thuvarai (<i>Gajanus Gajan</i>)</li> <li>• Motchai (<i>Phaseolus lunatus</i>)</li> <li>• Kollu (<i>Macrotyloma uniflorum</i>)</li> <li>• Kadalai (<i>Arachis hypogaea</i>)</li> <li>• Coconut</li> <li>• Hens egg</li> <li>• Banana</li> <li>• Jack fruit</li> <li>• Elavam Pisin (<i>Bombax ceiba</i>)</li> <li>• Naval Kottai (<i>Eugenia jumbolana</i>)</li> <li>• Sivanar kilangu</li> <li>• Nungu (<i>Palmyra fruit</i>)</li> <li>• Makizhampinchu (<i>Mimusops elengi</i>)</li> </ul>	3	7	5	2



	<ul style="list-style-type: none"> <li>• Wheat</li> <li>• Gingelly oil</li> <li>• Ghee with Honey in Equal Proportion</li> <li>• Curd Rice</li> <li>• Rice</li> <li>• Kudineer Thodam</li> <li>• Idu Marunthu</li> <li>• Neer Thodam</li> <li>• Anubana Thodam</li> </ul> <p>Features of Poisonous Food</p> <ul style="list-style-type: none"> <li>• Examination of Poisonous Foods - Signs and Symptoms - Treatment.</li> </ul>				
47	<p><b>8 DRUG DEPENDENCE AND ABUSE</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Treatment</li> <li>• Medico Legal Importance</li> </ul>	3	1	1	1
48	<p><b>9 PHARMACOVIGILANCE AND BRANCHES OF TOXICOLOGY</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• ADR</li> <li>• Dechallenge</li> <li>• Rechallenge</li> <li>• Misleading Advertisement</li> <li>• Analytical Toxicology</li> <li>• Environmental Toxicology</li> <li>• Industrial Toxicology</li> <li>• Experimental Toxicology</li>   <li>• Pre Clinical Safety Studies (WHO &amp; OECD Guidelines)</li> <li>• <b>Abathiya Kedugal</b></li> </ul>	3	2	2	0
<b>Total Marks</b>			<b>100</b>	<b>60 hr</b>	<b>21 hr</b>

**Table 3: Learning objectives (Theory) of Course**

<b>Paper 1</b>									
<b>A3 Course outcome</b>	<b>B3 Learning Objective (At the end of the session, the students should be able to)</b>	<b>C3 Dom ain/s ub</b>	<b>D3 Must to know / desirable to know / Nice to know</b>	<b>E3 Level Does/ Show s how/ Kno ws how/ Kno w</b>	<b>F3 T-L meth od</b>	<b>G3 Assessment (Refer abbr eviations)</b>	<b>H3 Form ative/ sum mative</b>	<b>I3 Term</b>	<b>J3 Integ ratio n</b>
<b>Topic 1</b>									
<b>1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</b>									
<b>(Lecture :7 hours, Non lecture: 3 hours)</b>									
<b>Topic 2</b>									
<b>1.1 Introduction to Forensic Medicine</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO1	Define Forensic pathology	CK	MK	K	L&G D		F&S	I	
CO3	Describe Thanatology	CK	MK	KH	L_VC	QZ	F&S	I	
CO1	Define Clinical forensic medicine	CK	MK	K	L&G	QZ	F&S	I	

					D				
CO1	Define Medical jurisprudence	CK	MK	K	L&G D		F&S	I	
CO1	Describe Medical Ethics	CK	MK	K	L&G D	QZ	F&S	I	
CO1	Explain Medical etiquette and its related regulations	CK	MK	K	L&PP T		F&S	I	
CO1	Describe Maruthuvar Ilakkanam (Siddhar's Oath)	CK	MK	K	DIS		F&S	I	
CO1	Describe History of Forensic Medicine	CK	MK	KH	L&G D	PRN	F&S	I	

### Topic 3

#### 1.2 Legal Procedures

(Lecture :0 hours, Non lecture: 0 hours)

CO1	Define Forensic Medicine	CK	MK	K	L&G D		F&S	I	
CO1	Describe IPC	CK	MK	KH	L&PP T		F&S	I	
CO1	Define Forensic Pathology	CK	MK	K	L&G D		F&S	I	
CO1	Describe CrPC	CK	MK	KH	L&PP T		F&S	I	
CO1	Describe IEA	CK	MK	KH	L&PP		F&S	I	

					T				
CO1	Explain Unnatural Deaths	CK	MK	KH	L_VC ,PER	CL-PR	F&S	I	
CO1	Discuss Inquest	CK	MK	K	L&PP T,AC T	QZ	F&S	I	
CO1	Discuss Courts	CK	MK	K	L&PP T,AC T	QZ	F&S	I	
CO1	Describe Power of Courts	CK	MK	KH	L&PP T,FV	QZ	F&S	I	
CO1	Discuss Proceedings of the Courts	CK	MK	KH	L&G D,FV	P-RP	F&S	I	
CO1	Explain Medical (Documentary) evidences	CK	MK	KH	L&PP T,ED U	P-RP	F&S	I	
CO1	Explain Dying declaration, Dying deposition	CK	MK	KH	L&PP T	PUZ	F&S	I	
CO1	Define Summon	CK	MK	K	L	WP	F&S	I	
CO1	Describe Witness	CK	MK	KH	L&PP	P-RP	F&S	I	

					T				
CO1	Define Sentence	CK	MK	K	L	PUZ	F&S	I	
CO1	List the Duties of Doctors in Court proceedings	CK	MK	KH	L&G D,L_ VC,B S,IBL ,RP	P-RP,QZ ,M- CHT	F&S	I	
<b>Topic 4</b>									
<b>1.3 Medical Law and Ethics</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO1	Describe Duties of Medical Practitioners	CK	MK	KH	L&G D,PB L	PRN	F&S	I	
CO1	Discuss National Medical Commission and its functions	CK	MK	K	L	PRN	F&S	I	
CO1	Discuss National Commission for Indian System of Medicine and its functions	CK	MK	K	DIS		F&S	I	
CO1	Explain State medical council and its functions	CK	MK	K	DIS		F&S	I	
CO1	Explain Tamil Nadu Siddha Medical Council & its Functions	CK	MK	K	DIS		F&S	I	

CO1	Explain Professional misconduct and its related regulations	CK	MK	K	L&PP T,PB L	P-RP	F&S	I	
CO1	Describe Professional Secrecy	CK	MK	K	FC	P-RP	F&S	I	
CO1	Describe Professional Negligence	CK	MK	KH	FC	P-RP	F&S	I	
CO1	Define Consent	CK	MK	K	L&G D	QZ	F&S	I	
CO1	Define Mercy killing	CK	MK	K	L_VC ,DIS		F&S	I	
CO1	State declaration of Geneva [1948]	CK	MK	KH	L&PP T		F&S	I	
CO1	State Organ transplantation act	CK	MK	KH	L&PP T		F&S	I	

## Topic 5

### 1.4 Law and Acts Regulating Medical Practice in India

(Lecture :0 hours, Non lecture: 0 hours)

CO1	Summarise important provisions of constitution of India	CE	DK	KH	L&PP T	P-REC	F	I	
CO1	Summarise important provisions of Indian Evidence act ( IEA)	CE	DK	K	L&PP T	P-REC	F	I	
CO1	State The National Medical Commission Act - 2019	CK	DK	K	L&PP T		F	I	
CO1	State Indian Medicine Central Council Act- 1970	CK	MK	KH	L&PP T		F	I	
CO1	State Drugs and Magic remedies[objectionable]advertisement act1954	CK	DK	K	L&PP T		F	I	
CO1	State Drugs and cosmetics Act 1940 with its amendments	CK	MK	KH	L&G D	QZ	F	I	
CO1	State Drugs Control Act1950	CK	DK	K	L&PP T		F	I	
CO1	Explain Important Provisions of Indian Penal Codes  IPC 88-93, 197, 272, 273,274,275, 276, 284, 302, 304, 304 A, 304 B, 306, 309, 312-316, 320, 323,324, 375, 376, 377, 497.	CK	MK	KH	L&PP T,DIS	T-OBT,QZ	F&S	I	
CO1	Explain Important Provisions of CrPC 174	CK	MK	KH	L&PP	QZ	F&S	I	

					T				
CO1	<p>Explain the Basic provisions of Laws Related to Medical Practice</p> <p>a) Anatomy Act 1957</p> <p>b) Mental Health Act 1987</p> <p>c) Pharmacy Act 1948</p> <p>d) Poison Act 1919</p> <p>e) Prevention of food Adulteration Act 1954</p> <p>f) Protection of Human Rights Act 1993</p> <p>g) Registration of Birth and Death Act 1969</p> <p>h) Transplantaion of Human Organ Act 1994</p> <p>i) The Food Safety and Standards Act 2006</p> <p>j) PoCSO Act 2004</p> <p>k) Clinical Establishment Act 2010</p> <p>l)Prohibition of violence against Medicare Service Insitutions Act 2009</p> <p>j)Drugs,Medical Devices and Cosmetics Bill 2022</p>	CK	MK	KH	L&PP T	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		F&S	I	
CO1	Explain Procedures for Obtaining Licence for Sasthric and Patent Drug ( State / Central Regulations )	CK	MK	KH	L&PP T		F	I	
<b>Topic 6</b>									
<b>2. IDENTITY</b>									
<b>(Lecture :9 hours, Non lecture: 3 hours)</b>									
CO2,CO3	List the factors used for identification	CK	MK	KH	L&G D	CL-PR,INT	F&S	I	
CO2,CO3	Relate the significance of Identity in civil and criminal cases	CK	MK	KH	L&G D	INT	F&S	I	
CO2,CO3	List out the features to identify in dead person	CK	MK	KH	L&PP T	CHK	F&S	I	
CO2,CO3	List out the features to identify in living person	CK	MK	KH	L&PP T	CHK	F&S	I	
CO2,CO3	Identify Racial characters and religion	CK	MK	KH	L&PP T		F&S	I	

CO2,CO3	Discuss Sex determination by Microscopic study from sex Chromatins	CK	MK	K	L&G D	PRN	F&S	I	
CO2,CO3	Explain Sex determination from bones	CK	MK	KH	L&PP T	PRN	F&S	I	
CO2,CO3	Estimate Age from teeth and its Medico legal Importance	CK	MK	KH	L&G D,XR ay	P-ID	F&S	I	
CO2,CO3	Estimate Age from bones and its Medico legal Importance	CK	MK	KH	L&PP T,XR ay	P-ID	F&S	I	
CO2,CO3	Explain Developmental Features at Different Ages	CK	MK	KH	L_VC	P-ID	F&S	I	
CO2,CO3	Describe Stature and its Medico-legal Importance	CK	MK	KH	L_VC ,DIS, BS	PRN,P-ID	F&S	I	
CO2,CO3	Explain Hair and it's Medico legal importance	CAP	MK	KH	L_VC ,D- M,LS	QZ	F&S	I	
CO2,CO3	Describe Scars and its Medico legal Importance	CK	MK	KH	L&G D,L_ VC,B S,RL E	P-MOD,P-ID	F&S	I	
CO2,CO3	Describe Tattoo marks and its Medico legal Importance	CK	MK	KH	L_VC ,BS,D-	P-ID,M-POS	F&S	I	

					M				
CO2,CO3	Describe Anthropometry and its Medico legal Importance	CK	MK	KH	L_VC ,ML	CL-PR	F&S	I	
CO2,CO3	Discuss Dactylography and its Medico legal Importance	CK	MK	KH	L_VC ,ML	M-CHT	F&S	I	
CO2,CO3	Explain Poroscopy and its Medico legal Importance	CK	MK	KH	L_VC ,ML	P-ID,M-CHT	F&S	I	
CO2,CO3	Explain Skull Photo Superimposition and its Medico legal Importance	CK	MK	KH	L_VC ,DIS, LS,X Ray		F&S	I	
CO2,CO3	Define Podography	CK	MK	K	L_VC ,DIS	M-CHT	F&S	I	
CO2,CO3	Define Chelioscopy	CK	MK	KH	L_VC	P-MOD,M- CHT	F&S	I	
CO2,CO3	Describe Occupational marks and its Medico legal Importances	CAN	MK	KH	L&G D,L_ VC,R LE	QZ	F&S	I	

### Topic 7

### 3 THANATOLOGY

(Lecture :3 hours, Non lecture: 2 hours)

### Topic 8

### 3.1 Medico Legal Autopsy

(Lecture :0 hours, Non lecture: 0 hours)

CO3	Describe Autopsy and Summarise Its procedures	CK	MK	KH	L_VC ,ACT	CL-PR	F&S	I	
CO3	Explain Negative Autopsy, Obscure Autopsy and Virtopsy	CK	MK	KH	L_VC	INT	F&S	I	
CO3	Explain External and internal Post-mortem Examination	CK	MK	KH	L_VC ,FV	PRN	F&S	I	
CO3	Demonstrate the Preparation of specimens for analysis	CK	MK	KH	L&PP T	INT	F&S	I	
CO3	Describe Exhumation and it's Medico legal importance	CK	MK	KH	L_VC	CL-PR	F&S	I	

### Topic 9

#### 3.2 Death and It's Causes

(Lecture :0 hours, Non lecture: 0 hours)

CO3	Define Death	CK	MK	K	L&G D		F&S	I	
CO3	Discuss Medico legal importance of Death	CK	MK	KH	L&G D	INT	F&S	I	
CO3	Summarise Harvard's Criteria (1968)	CK	MK	KH	L_VC	CL-PR	F&S	I	
CO3	Explain Modes of death and its classification	CK	MK	KH	L_VC	T-OBT	F&S	I	

CO3	Describe Sudden death and its Causes	CK	MK	KH	L&PP T	INT	F&S	I	
CO3	Discuss the Issue of death certificate	CAP	MK	KH	L&PP T		F&S	I	
CO3	Enumerate Signs of death	CK	MK	KH	L&G D	INT,CHK	F&S	I	
<b>Topic 10</b>									
<b>3.3 Postmortem Changes</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO3	Describe Post mortem hypostasis	CK	MK	KH	L_VC	PRN	F&S	I	
CO3	Describe Cadaveric changes in the muscles(primary relaxation, rigidity, secondary relaxation)	CK	MK	KH	L&G D	M-CHT	F&S	I	
CO3	Define Autolysis	CK	MK	K	L&PP T		F&S	I	
CO3	Describe putrefaction	CK	MK	KH	L&PP T		F&S	I	
CO3	Describe Adipocere formation	CK	MK	KH	L&PP T,DIS		F&S	I	

CO3	Define Mummification	CK	MK	K	L&PP T,DIS		F&S	I	
CO3	Explain Estimation of time Since death	CK	MK	KH	L&G D,IBL	CHK	F&S	I	
<b>Topic 11</b>									
<b>4 ASPHYXIA</b>									
<b>(Lecture :9 hours, Non lecture: 3 hours)</b>									
CO3	Define Asphyxia	CK	MK	K	DIS		F&S	II	
CO3	Explain Asphyxial deaths and its Causes	CK	MK	KH	L_VC ,DIS	INT	F&S	II	
CO3	Explain Features of asphyxial deaths and its autopsy findings	CK	MK	KH	L_VC ,BS,I BL	COM	F&S	II	
CO3	Define Hanging	CK	MK	K	L&PP T		F&S	II	
CO3	Differetiate Complete and incomplete hanging	CK	MK	KH	L_VC ,DIS	INT	F&S	II	
CO3	Describe the Cause of death of Hanging and its autopsy findings	CK	MK	KH	L_VC	INT	F&S	II	

CO3	Explain Judicial hanging and List out its Medicolegal Aspects	CK	MK	KH	DIS	CL-PR	F&S	II	
CO3	Differentiate Antemortem and Post-mortem Hanging	CK	MK	KH	L&PP T	M-POS	F&S	II	
CO3	Define Accidental, suicidal and homicidal hanging	CK	MK	K	L&PP T		F&S	II	
CO3	Define Strangulation	CK	MK	K	L&PP T		F&S	II	
CO3	Explain the Autopsy findings of Strangulation	CK	MK	KH	L_VC	CL-PR	F&S	II	
CO3	Explain Medicolegal aspects of strangulation	CK	MK	KH	L_VC	INT	F&S	II	
CO3	Tabulate the Difference between hanging and strangulation	CK	MK	KH	L&PP T,DIS	M-CHT	F&S	II	
CO3	Define Throttling	CK	MK	K	L&PP T		F&S	II	
CO3	Explain autopsy findings of Throttling	CK	MK	KH	L_VC	CL-PR	F&S	II	
CO3	Define Drowning	CK	MK	K	L&PP T		F&S	II	
CO3	Enumerate Causes of drowning	CK	MK	KH	DIS	PRN	F&S	II	

CO3	Explain the Types of Drowning	CK	MK	KH	L&PP T	QZ ,M-CHT	F&S	II	
CO3	Explain Autopsy findings of drowning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO3	Discuss the Difference Between Antemortem and Post-mortem Drowning	CK	MK	KH	L_VC	INT	F&S	II	
CO3	Define Smothering	CK	MK	K	L&PP T		F&S	II	
CO3	Define Suffocation	CK	MK	K	L&PP T		F&S	II	
CO3	Describe Medicolegal aspects of suffocation	CK	MK	KH	DIS		F&S	II	
CO3	Define Choking	CK	MK	K	L&PP T		F&S	II	
CO3	Define Traumatic asphyxia	CK	MK	K	L&PP T		F&S	II	
CO3	Describe Autopsy findings of Traumatic asphyxia	CK	MK	KH	L&PP T		F&S	II	

## Topic 12

### 5 MECHANICAL INJURIES



**(Lecture :10 hours, Non lecture: 3 hours)**

CO3	Define injury	CK	MK	K	L&PP T		F&S	II	
CO3	Describe the Classification of injuries	CK	MK	KH	L&PP T,SY	QZ	F&S	II	V- AM
CO3	Explain Abrasions and its medicolegal importance	CK	MK	KH	L&PP T	M-MOD	F&S	II	
CO3	Explain Contusions and its medicolegal importance	CK	MK	KH	L&PP T	M-MOD	F&S	II	
CO3	Explain Lacerated wounds and its medico legal importance	CK	MK	KH	L&PP T	M-MOD	F&S	II	
CO3	Explain Incised wounds and its medico legal importance	CK	MK	KH	L&PP T	M-MOD	F&S	I	
CO3	Explain Stab wound and its medico legal importance	CK	MK	KH	L&PP T	M-MOD	F&S	II	
CO3	Tabulate the Difference Between Incised , Stab and Lacerated Wounds	CK	MK	KH	L&PP T	M-CHT	F&S	II	
CO3	Explain Firearm wound and its medicolegal importance	CK	MK	KH	L_VC	INT	F&S	II	
CO3	Explain Cause of death due to firearm injury	CK	MK	KH	L&PP T	INT	F&S	II	

CO1	Distinguish Antemortem and post mortem wounds	CK	MK	K	L&G D	M-CHT	F&S	II	
CO3	Discuss Internal and external changes of wounds	CK	MK	KH	L&PP T	M-CHT	F&S	II	
CO3	Estimate the age of wounds	CK	MK	KH	L&PP T	CHK	F&S	II	
CO3	Classify the death due to wounds	CK	MK	KH	PBL	INT	F&S	II	
CO3	Define fatal Injuries	CK	MK	K	L&PP T	INT	F&S	II	
CO3	Explain Grievous injuries	CK	MK	KH	L&PP T	M-CHT	F&S	II	
CO3	Describe Defense wound	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO3	Define Hemorrhage	CK	MK	K	L&G D		F&S	II	
CO3	Enumerate the causes of Fat embolism	CK	MK	KH	L&PP T	INT	F&S	II	
CO3	Define Systemic embolism	CK	MK	K	L&PP T		F&S	II	

CO3	Describe bomb explosive wounds	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO3	List out medico legal importance of RTA	CK	MK	KH	L&G D	INT	F&S	II	
CO3	List out the Medico legal aspects of Head injuries	CK	MK	KH	L&G D	M-CHT,INT	F&S	II	
<b>Topic 13</b>  <b>6 SEXUAL JURISPRUDENCE</b>  <b>(Lecture :9 hours, Non lecture: 2 hours)</b>									
<b>Topic 14</b>  <b>6.1 Unnatural Sexual Offenses</b>  <b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO2,CO5	Describe Sodomy and its Examination of the accused and victim	CK	MK	KH	L&PP T	INT	F&S	II	
CO2,CO5	Describe Bestiality and its Examination of accused and animal	CK	MK	K	L&PP T	INT	F&S	II	
CO2,CO5	Define Buccal coitus	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Tribadism	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Transveritism	CK	MK	K	DIS		F&S	II	

CO2,CO5	Define Sadism	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Masochism	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Exhibitionism	CK	MK	K	DIS		F&S	II	
CO1,CO5	Defined Fetchism	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Necrophilia	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Frotteurism	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Masturbation	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Undinism	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Sexting	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Paedophilia	CK	MK	K	DIS		F&S	II	
CO2,CO5	Define Lust murder	CK	MK	K	DIS		F&S	II	
CO2,CO5	Describe Stains and Substance Resembling Blood Stains	CK	MK	K	L&PP T	M-POS	F&S	II	

CO2,CO5	Explain Medicolegal importance of Stains	CK	MK	K	L&G D	INT	F&S	II	
<b>Topic 15</b>									
<b>6.2 Natural Sexual Offenses</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO2,CO5	Explain Sexual Offences and its Classification	CK	MK	KH	L&PP T	INT	F&S	II	
CO2,CO5	Define Rape	CK	MK	K	L&G D		F&S	II	
CO2,CO5	Define Incest	CK	MK	K	L&G D		F&S	II	
CO2,CO5	Describe the Examination of the Victim in Sexual Offences	CK	MK	KH	L&G D	INT	F&S	II	
CO2,CO5	Describe the Examination of the Accused in Sexual Offences	CK	MK	KH	L&G D	INT	F&S	II	
CO2,CO5	Define Semonology	CK	MK	KH	L&PP T		F&S	II	
CO2,CO5	Explain Physical, Chemical and Microscopical examination of Semen and its Medico legal Importance	CK	MK	KH	L&PP T	CL-PR	F&S	II	
<b>Topic 16</b>									
<b>6.3 Impotence, Sterility and Artificial Insemination</b>									

**(Lecture :0 hours, Non lecture: 0 hours)**

CO2,CO5	Define Impotence and Sterility	CK	MK	K	L&PP T		F&S	II	
CO2,CO5	Describe Medico legal aspects of Impotence and Sterility	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO2,CO5	Explain Sterilization and its medico-legal importance	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO2,CO5	Explain Artificial insemination and its medico-legal importance	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO2,CO5	Discuss Surrogate motherhood and its medicolegal importance	CK	MK	KH	L&PP T	INT	F&S	II	

**Topic 17**

**6.4 Virginity**

**(Lecture :0 hours, Non lecture: 0 hours)**

CO2,CO5	Descibe Anatomy of female genitalia	CK	MK	KH	L&PP T	INT	F&S	II	
CO2,CO5	Describe Hymen and its Types	CK	MK	KH	L&PP T	CL-PR	F&S	III	

CO2,CO5	Describe Causes for hymen rupture	CK	MK	KH	L&PP T	INT	F&S	II	
CO2,CO5	Explain Medico legal importance of Hymen	CK	MK	KH	L&PP T	CL-PR	F&S	II	
<b>Topic 18</b>									
<b>6.5 Pregnancy</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO2,CO5	Define Fertilization	CK	MK	K	L&PP T		F&S	II	
CO2,CO5	Summarize Confirmatory findings of pregnancy	CE	MK	KH	L&PP T	CHK	F&S	II	
CO2,CO5	Categorize Presumptive signs	CAN	DK	KH	L&PP T	CHK	F&S	II	
CO2,CO5	Categorize Probable signs	CAN	DK	KH	L&PP T	CHK	F&S	II	
CO2,CO5	Categorize Positive sign	CAN	DK	KH	L&PP T	CHK	F&S	II	V- SMM
CO2,CO5	Demonstrate Biological tests for pregnancy confirmation	CK	DK	KH	L&PP T	CL-PR	F&S	II	

CO2,CO5	Explain Medicolegal importance of pregnancy	CK	DK	KH	L&PP T	INT	F&S	III	
CO2,CO5	Define Superfecundation	CK	DK	K	L&PP T		F&S	II	
CO2,CO5	Define Superfoetation	CK	DK	K	L&PP T		F&S	II	
CO2,CO5	Define Pseudocyesis	CK	DK	K	L&PP T		F&S	II	
CO2,CO5	Define PNDR act	CK	DK	K	L&PP T		F&S	II	
CO2,CO5	Define Legitimacy	CK	DK	K	L&PP T		F&S	II	
CO2,CO5	Define Paternity	CK	DK	K	L&PP T		F&S	II	
CO2,CO5	Define Posthumous child	CK	DK	K	L&PP T		F&S	II	
<b>Topic 19</b>									
<b>6.6 Delivery</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO2,CO5	Describe Signs of delivery in the living	CK	DK	KH	L&PP T	CL-PR	F&S	II	V- SMM
CO2,CO5	Describe Signs of remote delivery in the living	CK	DK	KH	L&G D	CL-PR	F&S	II	



CO2,CO5	Describe the Signs of delivery in the dead	CK	DK	KH	L&PP T	CL-PR	F&S	II	
CO2,CO5	Define Supposititious child	CK	DK	K	L&PP T		F&S	II	
<b>Topic 20</b>									
<b>6.7 Abortion</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO2,CO5	Define Abortion	CK	MK	K	L&PP T		F&S	II	
CO2,CO5	Discuss Natural abortion	CK	NK	KH	L&PP T	INT	F&S	II	
CO2,CO5	Describe the Types of Abortion	CK	NK	KH	L&G D	T-OBT	F&S	II	
CO2,CO5	Describe the Procedure of Abortion	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO2,CO5	Explain Criminal abortion	CK	MK	K	L&PP T	CL-PR	F&S	II	
CO2,CO5	Discuss Complications of abortion	CK	MK	KH	PBL	M-CHT	F&S	II	
CO2,CO5	Discuss the Cause of death in abortion	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO2,CO5	State MTP act with amendments	CK	MK	KH	L&PP T	QZ	F&S	II	

<b>Topic 21</b>									
<b>7 INFANTICIDE</b>									
<b>(Lecture :2 hours, Non lecture: 1 hours)</b>									
CO3	Explain Infanticide and its criminal proceedings	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO3	Discuss the feature of Still born babies	CK	MK	KH	L&PP T	PRN	F&S	II	
CO3	Discuss the feature of Dead born Babies	CK	MK	K	L&PP T	PRN	F&S	II	
CO3	Define Mummification	CK	MK	K	L&PP T		F&S	II	
CO3	Analyse Cause of death in Infanticide	CK	MK	KH	L,L& PPT	PRN	F&S	II	
CO3	Differentiate the significant feature to confirm whether still born or birth after death	CK	MK	KH	L&PP T	PRN	F&S	II	
CO3	Describe accidental causes of Infanticide	CK	MK	KH	L&PP T	PRN	F&S	II	
CO3	Describe Natural causes of Infanticide	CK	MK	KH	L&PP T	PRN	F&S	II	
CO3	Describe criminal causes of Infanticide	CK	MK	KH	L&G	INT	F&S	II	

					D				
CO3	Define Precipitate labour	CK	MK	K	L&PP T	PRN	F&S	II	
CO3	Explain Medico legal importance of Infanticide	CK	MK	KH	L&PP T	PRN	F&S	II	
CO3	Discuss Concealment of birth	CK	MK	KH	L&PP T	INT	F&S	II	
CO3	Describe Sudden infant death syndrome	CK	DK	KH	L&PP T	PRN	F	II	V- KM
CO3	Describe Battered baby syndrome	CK	DK	KH	L&PP T	PRN	F	II	

## Topic 22

### 8 THERMAL, ELECTRICAL AND LIGHTNING INJURIES

(Lecture :6 hours, Non lecture: 1 hours)

## Topic 23

### 8.1 Burns and Scalds

(Lecture :0 hours, Non lecture: 0 hours)

CO3	Describe Burns	CK	MK	KH	L_VC	CL-PR	F&S	III	
CO3	Describe Scalds	CK	MK	K	L_VC	CL-PR	F&S	III	

CO3	Explain Wallace rule of nine	CK	MK	KH	L&PP T	INT	F&S	III	
CO3	Summarize Stages of burns and scalds	CK	MK	KH	L&PP T	M-POS	F&S	III	
CO3	Distinguish the signs and symptoms of Burns and Scalds	CK	MK	K	L&PP T	M-CHT	F&S	III	
CO3	Describe Causes of death in Burns and Scalds	CK	MK	K	L&PP T	INT	F&S	III	
CO3	Discuss Autopsy findings of Burns and Scalds	CK	MK	K	L&PP T	INT	F&S	III	
CO3	Describe the Medico legal Aspect of Burns and Scalds	CK	MK	KH	L&PP T	PRN	F&S	III	

## Topic 24

### 8.2 Electrical Injuries, Lightning, Heat Stroke, Heat Exhaustion and Hypothermia

(Lecture :0 hours, Non lecture: 0 hours)

CO3	Summarise Lightning and its effects	CK	MK	K	L&G D	INT	F&S	III	
CO3	Describe the Treatment for Lightning	CK	DK	K	L&G D	INT	F&S	III	
CO3	Describe Autopsy findings of Lightning	CK	MK	K	L&G D	INT	F&S	III	

CO3	Summarise Electrical injury and its effect	CK	MK	KH	L&G D	CL-PR	F&S	III	
CO3	Describe Causes for death in Electrical injury	CK	MK	KH	L&G D	CL-PR	F&S	III	
CO3	Describe the Treatment for Electrical injury	CK	MK	KH	L&G D	CL-PR	F&S	III	
CO3	Describe Autopsy findings of Electricity Death	CK	MK	KH	L&G D	CL-PR	F&S	III	
CO3	Describe Medico legal aspect of Electricity Death	CK	MK	K	L&G D	CL-PR	F&S	III	
CO3	Describe Hyperthermia and its effects	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO3	Describe Autopsy findings of Death due to Hypethermia	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO3	Describe Medico legal aspect of death due to Hyperthermia	CK	DK	KH	L&PP T	CL-PR	F&S	III	
CO3	Describe Hypothermia and its effects	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO3	Describe Autopsy findings of Death due to Hypothermia	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO3	Describe Medico legal aspect of death due to Hypothermia	CK	DK	K	L&PP T	CL-PR	F&S	III	

<b>Topic 25</b>									
<b>9 STARVATION</b>									
<b>(Lecture :1 hours, Non lecture: 1 hours)</b>									
CO3	Define Starvation	CK	MK	K	L&G D		F&S	III	
CO3	Describe the Signs and symptoms of Starvation	CK	MK	KH	CBL	WP	F&S	III	
CO3	Distinguish Causes of death in starvation	CK	MK	KH	CBL	QZ	F&S	III	
CO3	Describe Autopsy findings of Starvation	CK	MK	KH	L	INT	F&S	III	
CO3	Describe Medico legal importance of Starvation	CK	MK	KH	CBL	PUZ	F&S	III	
<b>Topic 26</b>									
<b>10 FORENSIC PSYCHIATRY</b>									
<b>(Lecture :4 hours, Non lecture: 1 hours)</b>									
CO4	Define Insanity	CK	MK	K	L&PP T		F&S	III	
CO4	Define Delirium	CK	MK	K	L&PP T		F&S	III	
CO4	Explain Delusion and its Types	CC	MK	KH	L&PP T	CL-PR	F&S	III	

CO4	Explain the Medico legal aspects of Delusion	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO4	Explain Hallucination and its Types	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO4	Explain Illusion and its Types	AFT- VAL	MK	KH	L&G D	CL-PR	F&S	III	
CO4	Define Lucid interval	CK	MK	K	L&G D		F&S	III	
CO4	Define Impulse	CK	MK	K	L&G D		F&S	III	
CO4	Define obsession	CK	MK	K	L&G D		F&S	III	
CO4	Define Phobia	CK	MK	K	L&G D		F&S	III	
CO4	Define Idiocy	CK	MK	K	L&G D		F&S	III	
CO4	Explain Mental sub normality	CK	MK	KH	L&PP T	INT	F&S	III	
CO4	Analyze Diagnosis of insanity	CK	MK	KH	L&PP T	CL-PR	F&S	III	V- VPS
CO4	Define Imbecility	CK	MK	K	L&G D		F&S	III	

CO4	Define Feeble mindedness	CK	MK	K	L&PP T		F&S	III	
CO4	Define Dementia	CK	MK	K	L&PP T		F&S	III	
CO4	Explain Schizophrenia	AFT- REC	MK	KH	L&PP T	INT	F&S	III	
CO4	Explain Psychic epilepsy	AFT- VAL	MK	KH	L&PP T	CL-PR	F&S	III	
CO4	Define Melancholia	CK	MK	K	L&G D		F&S	III	
CO4	Explain bipolar disorder	AFT- VAL	MK	KH	L&PP T,RP	CL-PR	F&S	III	
CO4	Describe psychiatric changes due to alcohol abuse	AFT- VAL	MK	KH	BS,IB L	CL-PR	F&S	III	
CO4	Define feigned insanity	CK	MK	K	L&PP T		F&S	III	
CO4	List the laws related to psychiatry	AFT- VAL	MK	KH	L&PP T	M-CHT	F&S	III	
CO4	Describe Court proceedings in psychiatry	CK	MK	KH	L&G D	INT	F&S	III	
CO4	Describe Civil and Criminal responsibilities of Mentally ill person	AFT- VAL	MK	KH	L&PP T	CL-PR	F&S	III	



CO4	Define Somnambulism	CK	MK	K	L&G D		F&S	III	
CO4	Define Automatism	CK	MK	K	L&G D		F&S	III	
CO4	Define Hypnotism and mesmerism	CK	MK	K	L&G D		F&S	III	
CO4	Explain Medico legal importance of Psychiatry	CK	MK	KH	L&PP T	CL-PR	F&S	III	

**Topic 27**

**11 FORENSIC SCIENCE LABORATORY**

**(Lecture :0 hours, Non lecture: 1 hours)**

CO5	Express the basic knowledge of Forensic science laboratory	CK	NK	K	L&PP T,AC T	CL-PR	F	II	
CO5	Observe its functions and responsibilities	CK	DK	KH	L&PP T,AC T	M-CHT	F	III	

**Paper 2**

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A3 Course outcome	B3 Learning Objective (At the end of the session, the students should be able to)	C3 Dom ain/s ub	D3 Must to know / desirable to know / Nice to know	E3 Level Does/ Show s how/ Kno ws how/ Kno w	F3 T-L meth od	G3 Assessment (Refer abbr eviations)	H3 Form ative/ sum mative	I3 Term	J3 Integ ratio n
<b>Topic 1</b> <b>1 INTRODUCTION TO TOXICOLOGY</b> <b>(Lecture :12 hours, Non lecture: 6 hours)</b>									
CO6	Define Toxicology	CK	MK	K	L&G D		F&S	I	
CO6	Define Siddha Toxicology	CK	MK	K	L&G D		F	I	
CO6	Describe History of Poison	CK	MK	K	DIS	INT	F	I	
CO6	Summarize the history of Siddha Toxicology	CK	MK	KH	L&PP T	INT	F	I	
CO6,CO7,CO 9	Explain the adverse effects caused as a result of defects in pharmaceutical procedures (Marunthu Sarivara Mudiyaathal	CK	MK	K	DIS	CL-PR	F	I	

	Varum Theemaigal)								
CO6,CO7,CO9	Demonstrate the Siddha parameters to check the quality of end products of Siddha Preparation (Marunthu Sarivara mudinthamaikkana sothanaigal)	CK	MK	K	L&GD	INT	F	I	
CO1	State laws of poisons	CK	MK	K	DIS	CL-PR	F&S	I	
CO6	Classify the poisons	CK	MK	K	SY	QZ	F&S	I	
CO6	Enumerate ideal homicidal poisoning	CK	MK	K	L&GD	CHK	F&S	I	
CO6	Enumerate ideal suicidal poisoning	CK	MK	K	L&GD	CHK	F&S	I	
CO6	List the routes of administration	CK	MK	K	L&GD	CL-PR	F&S	I	
CO6	Describe Actions of poison	CK	MK	K	L&PPT	PRN	F&S	I	
CO6	Enumerate the factors modifying the effects of poison	CK	MK	K	L&GD	CL-PR	F&S	I	
CO6	List the routes of excretion	CK	MK	K	L&PPT	INT	F&S	I	
CO6	Define Toxicity Rating	CK	NK	K	DIS	INT	F	I	

CO1,CO6,CO9	Enlist the Duties of doctor in case of poisoning	AFT-RES	MK	K	DIS	COM	F&S	I	
CO1,CO6,CO9	Explain the diagnosis of poisoning in living	CK	MK	K	IBL,P BL	PRN	F&S	I	
CO6,CO9	Summarize the diagnosis of poisoning in dead	CK	MK	K	L&G D	PRN	F&S	I	
CO1,CO6,CO9	Explain the treatment of Poisoning	CK	MK	KH	FC,A CT	CL-PR	F&S	I	
CO6,CO9	Observe the Poison Information center and its activities	CK	MK	KH	DIS,A CT	INT	F	I	
CO6,CO9	Describe Toxicokinetics	CK	NK	K	L&G D		F	I	
CO6,CO9	Describe Siddha Emergency treatment - Kudori/Pugai Maruthuvam and its significance	CK	NK	K	L&G D		F	I	
<b>Topic 2</b>									
<b>2 CORROSIVE POISON</b>									
<b>(Lecture :3 hours, Non lecture: 0 hours)</b>									
CO6	Explain Corrosive Poison and its types	CK	MK	KH	L&PP T	CL-PR	F&S	I	
CO6,CO9	Explain Sulphuric Acid poisoning and its medico-legal importance	CK	MK	KH	L&G D	PRN	F&S	I	

CO6,CO9	Discuss Vitriolage and the related IPCs	CK	MK	KH	L&G D	T-CS	F&S	I	
CO6,CO9	Explain Nitric Acid poisoning and its medico-legal importance	CK	MK	KH	L&G D	INT	F&S	I	
CO6	Describe Hydrochloric Acid poisoning and its medico-legal importance	CK	MK	KH	DIS	PRN	F&S	I	
CO6	Describe Oxallic Acid poisoning and its medico-legal importance	CK	MK	KH	L&PP T	INT	F&S	I	
CO6	Describe Carbolic Acid poisoning and its medico-legal importance	CK	MK	KH	L_VC	PRN	F&S	I	
CO6	Describe Sodium Hydroxide poisoning and its medico-legal importance	CK	MK	KH	L&G D	CL-PR	F&S	I	
CO6	Describe Potassium Hydroxide poisoning and its medico-legal importance	CK	MK	KH	L&G D	INT	F&S	I	
CO6	Describe Ammonium Hydroxide poisoning and its medico-legal importance	CK	MK	KH	L&G D	PRN	F&S	I	
CO6	Explain Sodium ,Potassium and Ammonium Carbonate poisoning and its medico-legal importance	CK	MK	K	L&PP T	INT	F&S	I	

CO6	Describe Signs, Symptoms and Treatment of Uppu Thiravagam poisoning	CK	MK	K	DIS	CL-PR	F&S	I	
CO6	Describe Signs, Symptoms and Treatment of Uppu Poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	I	
CO6	Describe Signs, Symptoms and Treatment of Chunnambu Poisoning	CK	MK	K	DIS	CL-PR	F&S	I	
<b>Topic 3</b> <b>3 IRRITANT POISON</b> <b>(Lecture :13 hours, Non lecture: 4 hours)</b>									
<b>Topic 4</b> <b>3.1 Agricultural Poison</b> <b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6	Define Agricultural Poison and it's Types	CK	MK	KH	L&G D		F&S	II	
CO6	Describe Poisoning due to Organo phosphorous compounds and it's Classification	CK	MK	KH	L&PP T,DIS	QZ ,CL-PR	F&S	II	
CO6		CK	MK	KH	BS	CL-PR	F&S	II	

	Describe the signs, Symptoms and Treatment of Organo phosphorous compounds Poisoning								
CO6	Describe Postmortem appearance and Medico legal importance of Organo phosphorous compounds Poisoning	CK	MK	KH	BS	INT	F&S	II	
CO6	Describe Organo chlorine compounds and its classification	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6	Describe the signs and Symptoms and Treatment of Organo-chlorine compounds Poisoning	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Describe Post-mortem appearance and Medico legal importance of Organo-chlorine compounds Poisoning	CK	MK	KH	L&PP T,DIS	INT	F&S	II	

<b>Topic 5</b>									
<b>3.2 Inorganic Irritants - Metallic Poisons</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6,CO7	Define Arsenic compounds	CK	MK	K	DIS		F&S	II	
CO6,CO7	Describe Fatal dose,Fatal period, Signs and Symptoms of Arsenic Poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6,CO7	Describe Treatment of Arsenic poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6,CO7	Explain Postmortem appearance and Medico legal aspect of Arsenic poisoning	CK	MK	KH	L&PP T	INT	F&S	II	
CO6,CO7	Describe Chronic poisoning of Arsenic	CK	MK	KH	BS	PRN	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Vellai padanam poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	



CO6,CO7	Differentiate the Acute Symptoms of Vellai padanam poisoning and Ozhi Noi	CK	MK	KH	L&PP T,BS	PRN	F&S	II	
CO6,CO7	Describe Siddha Treatment of Vellai padanam poisoning	CK	MK	KH	L&PP T,DIS	PRN	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Thalagam poisoning	CK	MK	KH	L&PP T	INT	F&S	II	
CO6,CO7	Explain Siddha Treatment of Thalagam poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Gowri padanam/Eli Padanam poisoning	CK	MK	KH	DIS	PRN	F&S	II	
CO6,CO7	Explain Siddha Treatment of Gowri padanam/Eli Padanam poisoning	CK	MK	KH	L&G D	PRN	F&S	II	
CO6,CO7		CK	MK	KH	DIS	PRN	F&S	II	

	Describe Signs and Symptoms of Mirutharsingi poisoning								
CO6,CO7	Explain Siddha Treatment of Mirutharsingi poisoning	CK	MK	KH	DIS	CL-PR	F&S	II	
CO6,CO7	Define Lead Poisoning	CK	MK	KH	DIS		F&S	II	
CO6,CO7	Describe Fatal dose,Fatal period, Signs and Symptoms of Lead poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6,CO7	Describe Treatment of Lead poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6,CO7	Describe Postmortem appearance and Medico legal aspect of Lead poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	

CO6,CO7	Describe Chronic poisoning of Lead	CK	MK	KH	L_VC	CL-PR	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Chronic poisoning of Iruvangam	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6,CO7	Describe Siddha Treatment of Iruvangam poisoning	CK	MK	KH	L&PP T,BS	CL-PR	F&S	II	
CO6,CO7	Define Copper poisoning	CK	MK	K	BS		F&S	II	
CO6,CO7	Describe Signs and Symptoms of Copper poisoning	CK	MK	KH	L&PP T,DIS	CL-PR	F&S	II	
CO6,CO7	Describe Treatment of Copper poisoning	CK	MK	KH	DIS	CL-PR	F&S	II	
CO6,CO7		CK	MK	KH	L_VC	INT	F&S	II	

	Explain Postmortem appearance and Medico legal aspect of Copper poisoning				,BS				
CO6,CO7	Describe Chronic poisoning of Copper	CK	MK	KH	L_VC	CL-PR	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Sembu Poisoning	CK	MK	KH	BS	PRN	F&S	II	
CO6,CO7	Describe Siddha Treatment of Sembu Poisoning	CK	MK	KH	L&PP T,DIS	PRN	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Thurusu Poisoning	CK	MK	KH	L&G D	PRN	F&S	II	
CO6,CO7	Describe Siddha Treatment of Thurusu Poisoning	CK	MK	KH	L&PP T,DIS	CL-PR	F&S	II	

CO6,CO7	Define Mercury compounds	CK	MK	K	DIS		F&S	II	
CO6,CO7	Describe Fatal dose,Fatal period ,Signs and Symptoms of Mercury poisoning	CK	MK	KH	DIS,B L	PRN	F&S	II	
CO6,CO7	Describe Treatment of Mercury poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6,CO7	Describe Postmortem appearance and Medico legal aspect of Mercury poisoning	CK	MK	KH	DIS	INT	F&S	II	
CO6,CO7	Describe Chronic Poisoning of Mercury	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Rasam Poisoning	CK	MK	KH	L&PP T,DIS	PRN	F&S	II	
CO6,CO7	Describe SiddhaTreatment of Rasam Poisoning	CK	MK	KH	L_VC ,DIS	INT	F&S	II	

CO6,CO7	Describe Signs and Symptoms of Veeram Poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6,CO7	Describe Siddha Treatment of Veeram Poisoning	CK	MK	KH	BS	INT	F&S	II	
CO6,CO7	Describe Signs and Symptoms of Pooram Poisoning	CK	MK	KH	DIS	PRN	F&S	II	
CO6,CO7	Describe Siddha Treatment of Pooram Poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6,CO7	Describe Fatal dose ,Fatal period Signs and Symptoms of Lingam Poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6,CO7	Describe Siddha Treatment of Lingam Poisoning	CK	MK	KH	L&G D	CL-PR	F&S	II	

<b>Topic 6</b>									
<b>3.3 Inorganic Irritants - Non Metallic Poisons</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6	Define Phosphorous poisoning	CK	MK	K	DIS	PRN	F&S	II	
CO6	Describe fatal dose ,fatal period and Signs and Symptoms of Phosphorous poisoning	CK	MK	KH	DIS	INT	F&S	II	
CO6	Describe Treatment of phosphorous poisoning	CK	MK	KH	DIS	CL-PR	F&S	II	
CO6	Describe Postmortem appearance and Medico legal aspect of Phosphorous poisoning	CK	MK	KH	DIS	INT	F&S	II	
CO6	Describe Chronic Poisoning of Phosphorous	CK	MK	KH	L_VC	INT	F&S	II	

CO6	Describe Signs and Symptoms of Gandhagam Poisoning	CK	MK	KH	DIS	PRN	F&S	II	
CO6	Describe Siddha Treatment of Gandhagam Poisoning	CK	MK	KH	DIS	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms of Abragam Poisoning	CK	MK	KH	DIS	CL-PR	F&S	II	
CO6	Describe Siddha Treatment of Abragam Poisoning	CK	MK	KH	DIS	INT	F&S	II	

## Topic 7

### 3.4 Mechanical Irritant Poison

(Lecture :0 hours, Non lecture: 0 hours)

CO6	Describe Glass powder Poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	
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CO6	Describe Kannadi Poisoning and it's Siddha Treatment	CK	MK	KH	L&G D	DEB	F&S	II	
CO6	Describe Diamond powder Poisoning	CK	MK	KH	L_VC	DEB	F&S	II	
CO6	Describe Animal hair Poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Vegetable sting Poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
<b>Topic 8</b>  <b>3.5 Organic Plant Irritant Poison</b>  <b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6	Identify Abrus precatorius and Mention the poisonous parts and active principle	CK	MK	KH	ACT	WP	F&S	II	

CO6	Describe Signs and Symptoms of Abrus precatorius poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Siddha/Modern Treatment of Abrus precatorius poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Postmortem appearance and Medico legal aspect of Abrus precatorius poisoning	CK	MK	KH	DIS,P BL	DEB	F&S	II	
CO6	Identify Calotropis gigantea and Mention the poisonous parts and active principle	CK	MK	KH	L&PP T		F&S	II	
CO6	Describe Signs and Symptoms of Calotropis gigantea poisoning	CK	MK	KH	DIS	PUZ	F&S	II	

CO6	Describe Siddha/Modern Treatment of Calotropis gigantea poisoning	CK	MK	KH	DIS,I BL	CL-PR	F&S	II	
CO6	Describe Postmortem appearance and Medico legal aspect of Calotropis gigantea poisoning	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Identify Semicarpus anacardium and Mention the poisonous parts and active principle	CK	MK	KH	FC	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms of Semicarpus anacardium poisoning Modern/Siddha aspect	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Siddha/Modern Treatment of Semicarpus anacardium poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	

CO6	Describe Postmortem appearance and Medico legal aspect of Semicarpus anacardium poisoning	CK	MK	KH	CBL	PA	F&S	II	
CO6	Define Capsicum annum and Mention the poisonous parts and active principle	CK	MK	KH	L&PP T		F&S	II	
CO6	Describe Signs and Symptoms of Capsicum annum poisoning Modern/Siddha aspect	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Siddha/Modern Treatment of Capsicum annum poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Medico legal aspect of Capsicum annum poisoning	CK	MK	KH	L&PP T	DEB	F&S	II	

CO6	Identify Croton tiglium and Mention the poisonous parts and active principle	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms of Croton tiglium poisoning Modern/Siddha aspect	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Siddha/Modern Treatment of Croton tiglium poisoning	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Describe Postmortem appearance and Medico legal aspect of Croton tiglium poisoning	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Identify Ricinus communis and Mention the poisonous parts and active principle	CK	MK	KH	L&PP T	PRN	F&S	II	

CO6	Describe Signs and Symptoms of Ricinus communis poisoning Modern/Siddha aspect	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Siddha/Modern Treatment of Ricinus communis poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Postmortem appearance and Medico legal aspect of Ricinus communis poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms of Euphorbia antiquorum poisoning Siddha aspect	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Siddha Treatment of Euphorbia antiquorum poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms of Excoeria agallocha poisoning Siddha aspect	CK	MK	KH	L&PP T	PRN	F&S	II	

CO6	Describe Siddha Treatment of Excoeria agallocha poisoning	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Signs and Symptoms of Glariosa superba poisoning Siddha aspect	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Siddha Treatment of Gloriosa superba poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms of Plumbago zeylanica poisoning Siddha aspect	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Signs and Symptoms of Plumbago zeylanica poisoning Siddha aspect	CK	MK	KH	L&PP T	PRN	F&S	II	

**Topic 9****4.ANIMAL POISON****(Lecture :13 hours, Non lecture: 4 hours)**

CO6	Identify the Snakes	CK	MK	KH	L_VC ,ACT	QZ	F&S	II	
CO6	Explain Characters of snakes	CK	MK	KH	L_VC ,FV	PUZ	F&S	II	
CO6	Describe the Types of snakes	CK	MK	KH	DIS,F V	INT	F&S	II	
CO6	Classify Venomous and Non Venomous snakes	CK	MK	K	L_VC	INT	F&S	II	
CO6	Describe the fangs of Snakes	CK	MK	K	L_VC	QZ	F&S	II	
CO6	Explain Snake venom and it's Nature	CK	MK	K	L&G D	COM	F&S	II	
CO6	Explain Actions of venom	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Define Fatal dose /Fatal Period	CK	MK	K	L&G D	WP	F&S	II	



CO6	Explain Diagnosis of snake bites	CK	MK	K	L&PP T	CL-PR	F&S	II	
CO6	Describe Signs and symptoms of Snake Bites	CK	MK	K	L&G D	CL-PR	F&S	II	
CO6	Discuss Treatment of snake bites	CK	MK	KH	L_VC	T-OBT	F&S	II	
CO6	Describe Post-mortem findings and medico legal aspects of snake bite	CK	MK	K	L&PP T,DIS	PRN	F&S	II	
CO6	Categorise Types of snake in Siddha aspect	CK	MK	KH	L&PP T	PUZ	F&S	II	
CO6	Discover Habitat and character of snakes in Siddha Aspect	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Identification of snake bites through Siddha Aspect	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Parkadi Nanju and its Significance	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Classify Theerum theerathavai kurigunangal	CK	MK	KH	L&PP T	DEB	F&S	II	
CO6	Summarise Nanju vegangal	CK	MK	KH	L&G D	PRN	F&S	II	
CO6	Enumerate the Specific treatment for Nanju vegangal	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe the General treatment for snake poisoning in Siddha Aspect	CK	MK	KH	L&PP T	INT	F&S	II	

CO6	Define Viriyan snake	CK	MK	K	L&G D	INT	F&S	II	
CO6	Categorize Types of viriyan snakes	CK	MK	KH	L&PP T	PUZ	F&S	II	
CO6	Explain Signs and symptoms of viriyan snake bite	CK	MK	KH	L&G D	PRN	F&S	II	
CO6	Describe Treatment of viriyan snake bite	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Define Scorpion and its types	CK	MK	K	L&G D	INT	F&S	II	
CO6	Explain Signs and symptoms of Scorpion sting	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe the Treatment for Scorpion sting	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Describe the Post-mortem findings and Medico legal aspect of scorpion sting	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Define Thel and its types in Siddha Aspect	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Describe the Signs and Symptoms , Treatment for Thel kadi in Siddha Aspect	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Define Nattuvakali and its types in Siddha Aspect	CK	MK	K	L&PP T	PUZ	F&S	II	

CO6	Describe the Signs and Symptoms ,Treatment for Nattuvakali in Siddha Aspect	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Define Bees ,wasp and hornets	CK	MK	K	L&G D		F&S	II	
CO6	Describe Bees , wasp and hornets sting and its Signs and symptoms	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe the Treatment of Bees , wasp and hornets sting	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatment of kulavi Kadi in Siddha Aspect	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Centipedes and millipedes	CK	MK	KH	L&PP T	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms and Treatment of Pooran	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Describe the Signs and Symptoms and Treatment of cheyyan	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Eli kadi	CK	MK	KH	L&PP T	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Onan Kadi	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of pachonthi	CK	MK	KH	L_VC	PRN	F&S	II	

CO6	Describe Signs and Symptoms and Treatments of thavalai Kadi	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Palli	CK	MK	KH	L_VC	PRN	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Attai Kadi	CK	MK	KH	L_VC	PRN	F&S	II	
CO6	Describe Treatment of Pei Naai Kadi	CK	MK	KH	L&G D	PRN	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Poonai kadi	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Kurangu Kadi	CK	MK	KH	L	CL-PR	F&S	II	
CO6	Describe Signs and Symptoms and Treatments of Kaana kadi	CK	MK	KH	BS	DEB	F&S	II	
CO6	Describe Signs and Symptoms and Treatment of Vandukadi	CK	MK	KH	L	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatment of Kaattu Kosu kadi	CK	MK	KH	DIS	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatment of Malai Erumbu Kadi	CK	MK	KH	L&G D	INT	F&S	II	
CO6	Describe Signs and Symptoms and Treatment of Kambalipoochi Kadi	CK	MK	KH	L&G D	INT	F&S	II	

CO6	Describe Signs and Symptoms and Treatment of Aranai Nakkal	CK	MK	KH	DIS	CL-PR	F&S	II	
CO6	Categorise Silanthi types and it's toxin	CK	MK	KH	L&G D	CHK	F&S	II	
CO6	Describe Silanthi kadi Nanju vegam and Nanju Verupadu	CK	MK	KH	L&G D	PRN	F&S	II	
CO6	Describe Treatment of Silanthi kadi	CK	MK	KH	DIS	PRN	F&S	II	
CO6	Describe Human and animal bites treated with Palagarai Parpam	CK	MK	KH	L&PP T	PRN	F&S	II	
CO6	Describe Animal bites treated with Abraga Parpam	CK	MK	KH	DIS	QZ	F&S	II	
CO6	Describe Vidamai Preparation	CK	MK	KH	DIS	PRN	F&S	II	
CO6	Describe vidakulambu Preparation	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6	Describe Eganthathylam Preparation	CK	MK	KH	L&G D	CL-PR	F&S	II	
CO6	Describe Neelakandakuligai Preparation	CK	MK	KH	DIS	CL-PR	F&S	II	

## Topic 10

### 5 HOUSEHOLD POISON

(Lecture :1 hours, Non lecture: 1 hours)

CO6	Describe Treatment of Poisoning due to Analgesics and its Medico Legal Aspects	CK	MK	KH	DIS	T-CS	F&S	II	
CO6	Describe Treatment of Poisoning due to Antipyretics and its Medico Legal Aspects	CK	MK	KH	DIS	PRN	F&S	II	
CO6	Describe Treatment of Poisoning due to Kerosene and its Medico Legal Aspects	CK	MK	KH	L&PP T,DIS	INT	F&S	II	
CO6	Describe Treatment of Poisoning due to Camphor and its Medico Legal Aspects	CK	MK	KH	DIS	PRN	F&S	II	
CO6	Describe Signs and symptoms of Poisoning due to Soodan and its Siddha Treatment	CK	MK	KH	L_VC	PRN	F&S	II	
CO6	Describe Treatment of Poisoning due to Ant powder and its Medico Legal Aspects	CK	MK	KH	L&G D	PRN	F&S	II	
CO6	Describe Treatment of Poisoning due to Rat poison and its Medico Legal Aspects	CK	MK	KH	DIS	INT	F&S	II	

## Topic 11

### 6 SYSTEMIC POISON AND ASPHYXIANTS

(Lecture :10 hours, Non lecture: 3 hours)

**Topic 12****6.1 CEREBRAL AND SPINAL POISON****(Lecture :0 hours, Non lecture: 0 hours)****Topic 13****6.1.1 CNS Depressants****(Lecture :0 hours, Non lecture: 0 hours)**

CO6	Define Alcohol Poisoning (Ethyl Alcohol)	CK	MK	KH	L&G D,AC T	T-CS	F&S	III	
CO6	Describe Concentration of Alcoholic beverages	CK	MK	KH	L&PP T	CHK	F&S	III	
CO6	Describe Fatal dose,Fatal period ,Signs and Symptoms of Alcohol poisoning	CK	MK	KH	L&PP T,LRI	PRN	F&S	III	
CO6	Explain Treatment of Alcohol Poisoning	CK	MK	KH	RP,R LE,A CT	PRN	F&S	III	
CO6	Describe Post mortem appearance and Medico legal importance of Alcohol poisoning	CK	MK	KH	L&PP T	INT	F&S	III	
CO6	Explain Drunkenness	CK	MK	KH	CBL	PA	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Methyl Alcohol	CK	MK	KH	L&PP	INT	F&S	III	

	Poisoning				T,RP				
CO6	Describe Signs and Symptoms of Alcohol poisoning in Siddha Aspect	CK	MK	KH	CBL	INT	F&S	III	
CO6	Describe Treatment of Alcohol Poisoning in Siddha Aspect	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO6	Define Opium and its derivatives	CK	MK	KH	L&PP T	O-QZ	F&S	III	
CO6	Describe Fatal dose,Fata period ,Signs and Symptoms and Treatment of Poisoning due to Opium derivative	CK	MK	KH	DIS	CL-PR	F&S	III	
CO6	Describe Post mortem appearance and Medico Legal aspect of Poisoning due to Opium derivative	CK	MK	KH	DIS	CL-PR	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Poisoning due to Abini in Siddha Aspect	CK	MK	KH	L&G D	INT	F&S	III	
CO6	Describe Toddy / Country arrack	CK	MK	KH	DIS	INT	F&S	III	

## Topic 14

### 6.1.2 CNS Stimulants

(Lecture :0 hours, Non lecture: 0 hours)

CO6	Describe Amphetamine Poisoning	CK	MK	KH	L&PP	INT	F&S	III	
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CO6	Describe Caffeine Poisoning	CK	MK	KH	L&G D	INT	F&S	III	
<b>Topic 15</b>									
<b>6.1.3 Deliriant</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6	Identify Datura and Mention the poisonous parts and active principle	CK	MK	K	DIS	INT	F&S	III	
CO6	Describe Signs and Symptoms of Datura poisoning Modern aspect	CK	MK	KH	DIS	T-CS	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Datura poisoning in Siddha aspect	CK	MK	KH	L_VC	PRN	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Datura poisoning	CK	MK	KH	L&PP T	INT	F&S	III	
CO6	Identify Cannabis sativa and Mention the poisonous parts and active principle	CK	MK	KH	L_VC ,DIS	QZ	F&S	III	

CO6	Describe Signs and Symptoms and Treatment of Cannabis sativa poisoning in Modern aspect	CK	MK	KH	BS	T-CS	F&S	III	
CO6	Expain Signs and Symptoms and Treatment of Cannabis sativa poisoning in Siddha aspect	CK	MK	KH	DIS	T-CS	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Cannabis Sativa poisoning	CK	MK	KH	L_VC ,DIS	T-CS	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Cocaine poisoning	CK	MK	KH	L&PP T,DIS	T-CS	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Cocaine poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO6	Describe Signs and Symptoms of Chronic poisoning of Cocaine	CK	MK	KH	L&PP T	CL-PR	F&S	III	
<p><b>Topic 16</b></p> <p><b>6.1.4 Spinal poison</b></p> <p><b>(Lecture :0 hours, Non lecture: 0 hours)</b></p>									

CO6	Identify Strychnus nux vomica and Mention the poisonous parts and active principle	CK	MK	KH	L_VC	PRN	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Strychnus nux vomica poisoning in Modern aspect	CK	MK	KH	L&PP T	INT	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Strychnus nux vomica poisoning in Siddha aspect	CK	MK	KH	DIS	PRN	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Strychnus nux vomica poisoning	CK	MK	KH	L_VC	INT	F&S	III	
CO6	Discuss Peripheral nerve poisoning	CK	MK	KH	L&PP T,DIS	CL-PR	F&S	III	
CO6	Define Hemlock	CK	DK	K	DIS		F&S	III	
<b>Topic 17</b>									
<b>6.2 Cardiac Poison</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6	Identify Aconitum ferox and Mention the poisonous parts and active principle	CK	MK	KH	L&G D	INT	F&S	III	

CO6	Describe Signs and Symptoms of Aconitum ferox poisoning in Modern/Siddha aspect	CK	MK	KH	DIS	T-CS	F&S	III	
CO6	Describe Siddha/Modern Treatment of Aconitum ferox poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Aconitum ferox poisoning	CK	MK	KH	L&PP T	CL-PR	F&S	III	
CO6	Identify Nerium odorum and Mention the poisonous parts and active principle	CK	MK	KH	L&PP T,D	PRN	F&S	III	
CO6	Describe Signs and Symptoms of Nerium odorum poisoning in Modern and Siddha aspect	CK	MK	KH	L&PP T,D	T-CS	F&S	III	
CO6	Describe Siddha and Modern Treatment of Nerium odorum poisoning	CK	MK	KH	L&PP T	INT	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Nerium odorum poisoning	CK	MK	KH	L&PP T,DIS	CL-PR	F&S	III	
CO6	Discuss about Signs and Symptoms and Modern/ Siddha	CK	MK	KH	L_VC	T-CS	F&S	III	

	Treatments of Cerbera thevitea Poisoninig				,DIS				
CO6	Identify Nicotina tobaccum and Mention the poisonous parts and active principle	CK	MK	KH	L&G D	CL-PR	F&S	III	
CO6	Describe Signs and Symptoms of Nicotina tobaccum poisoning in Modern/Siddha aspect	CK	MK	KH	L_VC	T-CS	F&S	III	
CO6	Describe Siddha/Modern Treatment of Nicotina tobaccum poisoning	CK	MK	KH	BS,IB L	T-CS	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Nicotina tobaccum poisoning	CK	MK	KH	L&PP T,DIS	T-CS	F&S	III	
CO6	Discuss about Signs and Symptoms and Treatments of Cleistanthus collinus Poisoninig in Morden and Siddha aspect	CK	MK	KH	IBL	T-CS	F&S	III	
CO6	Identify Digitalis purpurea and Mention the poisonous parts and active principle	CK	MK	KH	L&G D	T-CS	F&S	III	
CO6	Describe Signs and Symptoms of Digitalis purpurea poisoning in Modern and Siddha aspect	CK	MK	KH	L&PP T	T-CS	F&S	III	

CO6	Explain Siddha and Modern Treatment of Digitalis purpurea poisoning	CK	MK	KH	DIS	T-CS	F&S	III	
CO6	Describe Postmortem appearance and Medico legal aspect of Digitalis purpurea poisoning	CK	MK	KH	L&PP T	T-CS	F&S	III	
<b>Topic 18</b>									
<b>6.3 Asphyxiants</b>									
<b>(Lecture :0 hours, Non lecture: 0 hours)</b>									
CO6	Define Carbon monoxide Poisoning	CK	MK	K	DIS		F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Carbon monoxide Poisoning	CK	MK	K	L&PP T	CL-PR	F&S	III	
CO6	Explain the Post mortem appearance and Medico Legal aspect of Carbon monoxide Poisoning	CK	MK	KH	L_VC	INT	F&S	III	
CO6	Define Carbon dioxide	CK	MK	K	L&G D		F&S	III	

CO6	Describe Signs and Symptoms and Treatment of Carbon dioxide Poisoning	CK	MK	KH	L_VC	CL-PR	F&S	III	
CO6	Define Hydrogen sulphide	CK	MK	K	L_VC		F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Hydrogen sulphide Poisoning	CK	MK	K	L&PP T	T-OBT	F&S	III	
CO6	Describe the Post mortem appearance and Medico Legal aspect of Hydrogen sulphide Poisoning	CK	MK	K	L_VC ,DIS	PRN	F&S	III	
CO6	Explain War gases and it's Sub types	CK	DK	KH	DIS	T-OBT	F&S	III	
CO6	Describe Signs and Symptoms and Treatment of Types of War gases	CK	MK	KH	L_VC	T-OBT	F&S	III	
CO6	Describe the Post mortem appearance and Medico Legal aspect of War gases	CK	MK	K	L&G D	T-OBT	F&S	III	

<b>Topic 19</b>									
<b>7 FOOD POISONING AND FOOD ADULTERATION</b>									
<b>(Lecture :5 hours, Non lecture: 2 hours)</b>									
CO7	Define – Food Poisons	CK	MK	K	DIS,I BL		F&S	III	
CO7	Categorize Poison causing microorganisms	CK	MK	KH	CBL		F&S	III	
CO7	Describe Diagnosis and Differential diagnosis of Food Poisoning	CK	MK	KH	L_VC ,BS	CL-PR	F&S	III	
CO7	Prevention and Treatment of Food poisoning	AFT- REC	MK	KH	L&PP T,DIS	DEB	F&S	III	
CO7	Describe Botulism	CK	MK	KH	L&PP T		F&S	III	
CO7	Define Food additives with examples	CK	MK	K	L&PP T,AC T	CL-PR,M- POS	F&S	III	
CO7	Describe Chemical food poisoning Monosodium glutamate (MSG)	CK	MK	KH	L_VC ,DIS	T-CS	F&S	III	



CO7	Define Lythyrus sativus Poisoning	CK	DK	K	DIS	T-CS	F&S	III	
CO7	Describe Active principle, Signs and Symptoms and Treatment of Lythyrus sativus Poisoning	CK	MK	KH	D	PRN,M-POS	F&S	III	
CO7	Describe Symptoms and Treatment of Mushroom Poisoning	CK	DK	KH	DIS	CL-PR	F&S	III	
CO7	Discuss about Excessive intake of Rye/ Oats/ Barley poisoning	CK	DK	KH	DIS	CL-PR	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Groundnut Poisoning	CK	MK	KH	DIS	INT	F&S	III	
CO7	Describe Symptoms of adulterating Argemone mexicana seeds Poisoning	CK	MK	KH	DIS,A CT	PRN	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Ulunthu Poisoning	CK	MK	KH	DIS	WP	F&S	III	

CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Thuvarai Poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Kadalai Poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Motchai Poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Coconut Poisoning	CK	MK	KH	DIS	INT	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Banana fruit Poisoning	CK	MK	KH	DIS,B S	CL-PR	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Jack fruit Poisoning	CK	MK	KH	IBL	CL-PR	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Bombax malbaricum Poisoning	CK	MK	KH	L&PP T,DIS	WP	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Naval kottai Poisoning	CK	MK	KH	BS	CL-PR	F&S	III	

CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Sivanar Kizhangu Poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Nungu Poisoning	CK	MK	KH	L&G D	INT	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Magilam poo Poisoning	CK	MK	KH	DIS	PRN	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Wheat Poisoning	CK	MK	KH	L&PP T	PRN	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Gingelly oil Poisoning	CK	MK	KH	L&G D	DEB	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Ghee Poisoning	CK	MK	KH	DIS	INT	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Honey Poisoning	CK	MK	KH	DIS	PRN	F&S	III	

CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Curd rice Poisoning	CK	MK	KH	DIS	INT	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Excessive intake of Rice Poisoning	CK	MK	KH	IBL	PRN	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Excessive intake of Egg Poisoning	CK	MK	KH	DIS,I BL	INT	F&S	III	
CO7	Describe Siddha Treatment of Kudineer thoodam	CK	MK	KH	BS	PRN	F&S	III	
CO7	Explain Siddha Treatment of anupana thoodam	CK	MK	K	L&G D	CL-PR	F&S	III	
CO7	Explain Symptoms and Siddha Treatment of Idumarunthu	CK	DK	KH	DIS	INT	F&S	III	
CO7	Describe Symptoms and Siddha Treatment of Neerthoodam	CK	MK	KH	L&G D	PRN	F&S	III	
CO7	Explain Features of poisonous foods in Siddha Aspect	CK	MK	KH	IBL	DEB	F&S	III	
CO7	State the Examinations of poisonous foods in Siddha Aspect	CK	MK	KH	L&PP T	INT	F&S	III	
CO7	Describe Signs and symptoms of poisonous food in Siddha Aspect	CK	MK	KH	L&PP T	DEB	F&S	III	

CO7	Explain Treatment of poisonous food in Siddha Aspect	CK	MK	KH	DIS	DEB	F&S	III	
CO7	Identify Food adulteration	CK	MK	K	DIS	QZ	F&S	III	
CO7	Explain Medico legal importance of Food Adulteration	CK	MK	KH	BL	PRN	F&S	III	
CO7	Describe Food safety and standards authority of India(FSSAI)	CK	MK	KH	L&PP T,BS	PRN	F&S	III	
CO7	Demonstrate the Detection of food adulteration (DART)	CK	MK	KH	L_VC ,D_L	INT	F&S	III	

## Topic 20

### 8 DRUG DEPENDENCE AND ABUSE

(Lecture :1 hours, Non lecture: 1 hours)

CO8	Definie Drug Dependence And Abuse	CK	MK	K	L&G D		F&S	III	
CO8	Explain treatment aspects of Drug Dependence and Abuse	AFT- RES	MK	KH	IBL	T-CS	F&S	III	
CO8		CK	MK	KH	DIS	DEB	F&S	III	

	Explain Medico legal importance of Drug Dependence and Abuse								
<b>Topic 21</b>									
<b>9 PHARMACOVIGILANCE AND BRANCHES OF TOXICOLOGY</b>									
<b>(Lecture :2 hours, Non lecture: 0 hours)</b>									
CO7,CO9	Define Pharmacovigilance	CK	MK	K	L&PP T		F&S	III	
CO7,CO9	Explain aim of pharmacovigilance	CK	MK	K	L&PP T		F&S	III	
CO7,CO9	Describe Hierarchy of Pharmacovigilance centers	CK	DK	KH	L&PP T		F&S	III	
CO7,CO9	Describe History of Pharmacovigilance	CK	DK	KH	DIS		F&S	III	
CO7,CO9	Define Terminologies related to Pharmacovigilance	CK	MK	K	DIS		F&S	III	
CO7,CO9	Demonstrate the reporting ADR in its format	CK	MK	KH	L&PP T	PA	F&S	III	
CO7,CO9	Explain De-challenge and Re-challenge	CK	DK	KH	L&PP T		F&S	III	

CO7,CO9	Define Misleading Advertisement	CK	MK	K	L&PP T		F&S	III	
CO7,CO9	Demonstrate the reporting format of Misleading Advertisement	CK	MK	KH	L&PP T		F&S	III	
CO9	Explain Analytical toxicology	CK	NK	KH	L&G D		F&S	III	
CO9	Explain Environmental toxicology	CK	NK	KH	L&G D		F&S	III	
CO9	Explain Industrial toxicology	CK	NK	KH	DIS		F&S	III	
CO9	Explain Experimental toxicology	CK	DK	KH	DIS		F&S	III	
CO9	Demonstrate the details about Abathiya Kedugal (Drug Interaction)	CK	MK	KH	L&G D	PRN	F&S	III	
CO9	Explain WHO guidelines for safety studies	CK	NK	KH	BL		F&S	III	
CO9	Summarise OECD Guidelines for Toxicity studies	CK	NK	KH	BL		F&S	III	
CO9	Demonstrate the activities of National / Intermediary / Perepheral	CK	DK	K	FV,A	CL-PR,TR	F&S	III	

Pharmaco vigilance centre				CT				
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**List of Practicals (Term and Hours)**

<b>PRACTICALS (Marks-100)</b>			
<b>S.No</b>	<b>List of Topics</b>	<b>Term</b>	<b>Hours</b>
1	<b>Identification of Equipment's used for the treatment of poisoning</b> <ul style="list-style-type: none"><li>• Stomach wash tube</li><li>• Ryle's tube</li></ul>	1	2
2	<b>Identification of Histopathological specimens</b> <ul style="list-style-type: none"><li>• Human Hair</li><li>• Animal Hair</li><li>• Fibres</li><li>• Stains</li><li>• Semen</li><li>• Human Blood</li><li>• Animal blood</li></ul>	1	5
3	<b>Certificate proceedings</b> <ul style="list-style-type: none"><li>• Medical Certificate</li><li>• Medical Fitness Certificate</li><li>• Age certificate</li><li>• Death Certificate</li><li>• Physical fitness certificate</li><li>• Wound Certificate</li><li>• Drunkenness certificate</li><li>• Adverse Drug Reaction (ADR) Form</li></ul>	1	5
4	<b>Age Estimation from Radiographs</b> <ul style="list-style-type: none"><li>• Dentition Radiographs</li><li>• Bones radiographs</li><li>• Sex Determination from Bones</li></ul>	1	12

5	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Plants poisons</li> <li>• Irritants</li> </ul>	2	6
6	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Metallic poisons</li> </ul>	2	8
7	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Non metallic poisons</li> </ul>	2	3
8	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Mechanical irritant Poisons</li> </ul>	2	2
9	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Animal Poisons</li> </ul>	2	6
10	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Household Poisons</li> </ul>	2	2
11	<p><b>Identification of Weapons</b></p> <ul style="list-style-type: none"> <li>• Asphyxial materials</li> <li>• Blunt and Sharp edged weapons</li> </ul>	2	6

	<ul style="list-style-type: none"> <li>• Heavy and Sharp cutting weapons</li> <li>• Flat ended weapons</li> <li>• Pointed weapons</li> <li>• Fire arms</li> </ul>		
12	<p><b>Preparation of Siddha Formulations (Nanju Murivu Marunthugal)</b></p> <ul style="list-style-type: none"> <li>• Plant Poisoning</li> <li>• Metal Poisoning</li> <li>• Mineral Poisoning</li> <li>• Animal Poisoning</li> </ul>	2	15
13	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Plants poisons</li> <li>• Systemic Poisons</li> </ul>	3	6
14	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Alcohol and Tobacco Poisons</li> </ul>	3	3
15	<p><b>Medico Legal Interpretation of Photographs</b></p> <ul style="list-style-type: none"> <li>• Identity</li> <li>• Thanatology</li> <li>• Corrosive Poisons</li> <li>• Asphyxia</li> <li>• Mechanical Injuries</li> <li>• Animal Poisons</li> <li>• Thermal Injuries</li> <li>• Electrical and Lightning</li> <li>• Narcotic poisons</li> <li>• Food Poisons</li> <li>• Drug Dependence and abuse</li> </ul>	3	6

16	<b>Interpretation of Medico legal cases through newspaper and other media sources</b>	3	5
17	<b>DART</b>	3	6

**Table 4: Learning objectives (Practical)**

A4 Course outcome	B4 Learning Objective (At the end of the session, the students should be able to)	C4 Dom ain/s ub	D4 Must to know / desirable to know / Nice to know	E4 Level Does/ Show s how/ Kno ws how/ Kno w	F4 T-L meth od	G4 Assessment (Refer abbr eviations)	H4 Form ative/ sum mative	I4 Term	K4 Integ ratio n
<p><b>Topic 1</b></p> <p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• <b>Plants poisons</b></li> <li>• <b>Irritants</b></li> </ul>									
CO6	Observe and identify the spotter- Plant Irritant Poison	PSY- ADT	MK	SH	D_L	M-CHT,RK	F&S	II	
CO6	Explain Fatal Dose /Fatal Period /Signs and Symptoms/ Treatment of poisoning in Morden / siddha Aspect and its Medico legal aspects	CC	MK	KH	D_L	M-CHT,RK	F&S	II	
<p><b>Topic 2</b></p> <p><b>Identification of Toxicological specimens</b></p>									

- **Plants poisons**
- **Systemic Poisons**

CO6	Observe and identify the spotter- Systemic Plant Poison	PSY-ADT	MK	SH	D_L	M-CHT,RK	F&S	III	
CO6	Explain Fatal Dose /Fatal Period /Signs and Symptoms/ Treatment of poisoning in Modern / siddha Aspect and its Medico legal aspects	CC	MK	KH	DIS,D _L	M-CHT,RK	F&S	III	

### Topic 3

#### Identification of Toxicological specimens

- **Metallic poisons**

CO6	Observe and identify the spotter -Metallic Poison	PSY-ADT	MK	SH	D_L	QZ ,RK	F&S	II	
CO6	Explain Fatal Dose /Fatal Period /Signs and Symptoms/ Treatment of poisoning in Morden / siddha Aspect and its Medico legal aspects	CC	MK	KH	DIS,D _L	QZ ,OSPE ,RK	F&S	II	

### Topic 4

#### Identification of Toxicological specimens

- **Non metallic poisons**

CO6	Observe and identify the spotter - Non metallic poisons	PSY-ADT	MK	SH	D_L	QZ ,RK	F&S	II	
CO6	Summarise the modern / siddha aspects of signs and symptoms, treatment and its medicolegal importance	CK	MK	KH	DIS,D_L	QZ ,M-CHT,RK	F&S	II	

### Topic 5

#### Identification of Toxicological specimens

- **Mechanical irritant Poisons**

CO6	Identify the spotter-Mechanical Irritant Poison	PSY-ADT	MK	SH	D_L	QZ ,RK	F&S	II	
CO6	Explain the Signs and Symptoms,treatment of poisoning in modern/siddha aspect and its medicolegal aspects	CC	MK	KH	D_L	WP,RK	F&S	II	

### Topic 6

#### Identification of Toxicological specimens

- **Alcohol and Tobacco Poisons**

CO6,CO8	Observe and identify the spotter - Alcohol and Tobacco Poisons	PSY-ADT	MK	SH	L_VC ,D_L, FV	QZ ,RK	F&S	III	
CO6,CO8	Explain Fatal Dose and Fatal Period of Alcohol and Tobacco Poisons	CC	MK	KH	L_VC ,D_L	QZ ,RK	F&S	III	
CO6,CO8	Demonstrate the Signs,Symptoms,Treatment of Poisoning-Siddha and Modern aspect-Alcohol and Tobacco Poisons	CC	MK	KH	L_VC ,D_L	QZ ,OSPE ,RK	F&S	III	

### Topic 7

#### Identification of Toxicological specimens

- Animal Poisons

CO6	Observe and identify the spotter-Animal Poison	PSY-ADT	MK	SH	D_L	RK	F&S	II	
CO6	Explain Fatal Dose /Fatal Period /Signs and Symptoms/ Treatment of poisoning in Morden / siddha Aspect and its Medico legal aspects-Animal Poison	CC	MK	KH	D_L	QZ ,OSPE ,RK	F&S	II	

### Topic 8

#### Identification of Toxicological specimens



• **Household Poisons**

CO6	Observe and identify the spotter-House Hold Poison	PSY-ADT	MK	SH	D_L	OSPE ,RK	F&S	II	
CO6	Explain Fatal Dose /Fatal Period /Signs and Symptoms/ Treatment of poisoning in Morden / siddha Aspect and its Medico legal aspects-Household Poison	CC	MK	KH	D_L	QZ ,OSPE ,RK	F&S	II	

**Topic 9**

**Identification of Equipment's used for the treatment of poisoning**

- **Stomach wash tube**
- **Ryle's tube**

CO6	Observe and identify the spotter-Equipments used for treatment of poisoning	PSY-ADT	MK	SH	D_L	OSPE ,RK	F&S	I	
CO6	Describe the uses and contraindication of Equipement used in the Treatment of Poisoning-Equipments used for treatment of poisoning	CC	MK	KH	D_L	INT,OSPE ,RK	F&S	I	

## Topic 10

### Identification of Histopathological specimens

- Human Hair
- Animal Hair
- Fibres
- Stains
- Semen
- Human Blood
- Animal blood

CO2,CO3	Observe and identify the spotter-Histopathological Specimen	PSY-ADT	MK	SH	D_L	RK	F&S	II	
CO1,CO3	Demonstrate the features of Histo pathological specimen	CC	MK	KH	D_L	CL-PR,RK	F&S	II	
CO1,CO3	Explain the Medico Legal Importance of Histopathological specimen	CC	MK	KH	D_L	RK	F&S	II	

## Topic 11

### Medico Legal Interpretation of Photographs

- Identity

- **Thanatology**
- **Corrosive Poisons**
- **Asphyxia**
- **Mechanical Injuries**
- **Animal Poisons**
- **Thermal Injuries**
- **Electrical and Lightning**
- **Narcotic poisons**
- **Food Poisons**
- **Drug Dependence and abuse**

CO3,CO6	Observe and identify the spotter	PSY-ADT	MK	SH	D_L	RK	F&S	I	
CO3,CO6	Explain the Medico Legal Importance of identified Photograph	CC	MK	KH	D_L	RK	F&S	I	

**Topic 12**

**Identification of Weapons**

- **Asphyxial materials**
- **Blunt and Sharp edged weapons**
- **Heavy and Sharp cutting weapons**
- **Flat ended weapons**
- **Pointed weapons**
- **Fire arms**

CO3	Observe and identify the spotter- Weapons	PSY-ADT	MK	SH	D_L	RK	F&S	II	
CO3	Explain the Injuries caused by the Weapon	CC	MK	KH	D_L	RK	F&S	II	
CO3	Explain the Medico Legal Importance of the Weapon	CC	MK	KH	D_L	RK	F&S	II	

### Topic 13

#### Certificate proceedings

- **Medical Certificate**
- **Medical Fitness Certificate**
- **Age certificate**
- **Death Certificate**
- **Physical fitness certificate**
- **Wound Certificate**
- **Drunkenness certificate**
- **Adverse Drug Reaction (ADR) Form**

CO1,CO2,CO3	Observe, Interpret and Construct the empty certificates according to the given Medico legal history	CC	MK	KH	D_L	OSPE ,RK	F&S	I	
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### Topic 14

#### Age Estimation from Radiographs

- **Dentition Radiographs**
- **Bones radiographs**
- **Sex Determination from Bones**

CO3,CO6	Observe the Features and Estimate the Age through Bones / Bone Xrays / Dentition Xrays	PSY-ADT	MK	SH	XRy, D_L	RK	F&S	I	V-UK
CO3,CO6	Observe the Features and Determine the sex through Bones.	PSY-ADT	MK	SH	XRy, D_L	RK	F&S	I	V-UK

**Topic 15**

**Interpretation of Medico legal cases through newspaper and other media sources**

CO3,CO6	Identify the cause of death from the given news paper and media source	PSY-ADT	MK	SH	D_L	CR-RED,RK	F&S	III	
CO3,CO6	Explain the Medico Legal aspect and its IPC Involved	CC	MK	KH	D_L	M-POS	F&S	III	

**Topic 16**

**DART**

CO7	Demonstrate the DART	PSY-ADT	MK	SH	D_L	RK	F&S	III	
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**Topic 17****Preparation of Siddha Formulations (Nanju Murivu Marunthugal)**

- **Plant Poisoning**
- **Metal Poisoning**
- **Mineral Poisoning**
- **Animal Poisoning**

CO6	Demonstrate Nanju Murivu Preparation according to Nanju Murivu Nool	PSY-ADT	MK	SH	D_L	RK	F&S	III	H-G MM, H- GMK
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**Table 4a: List of Practical**

<b>S.No</b>	<b>Name of practical</b>	<b>Term</b>	<b>Activity</b>	<b>Practical hrs</b>
<b>1</b>	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Plants poisons</li> <li>• Irritants</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter through characteristic features</li> <li>• Write the Active principle, Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	6
<b>2</b>	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Plants poisons</li> <li>• Systemic Poisons</li> </ul>	3	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter through characteristic features</li> <li>• Write the Active principle, Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	6
<b>3</b>	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Metallic poisons</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter through characteristic features</li> <li>• Write the Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	8

4	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Non metallic poisons</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter through characteristic features</li> <li>• Write the Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	3
5	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Mechanical irritant Poisons</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter through characteristic features</li> <li>• Write the Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	2
6	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Alcohol and Tobacco Poisons</li> </ul>	3	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter</li> <li>• Write the Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	3
7	<b>Identification of Toxicological specimens</b> <ul style="list-style-type: none"> <li>• Animal Poisons</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given spotter through characteristic features</li> <li>• Write the Type of Venom,Fatal Dose</li> </ul>	6



			<p>and Fatal Period</p> <ul style="list-style-type: none"> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	
8	<p><b>Identification of Toxicological specimens</b></p> <ul style="list-style-type: none"> <li>• Household Poisons</li> </ul>	2	<p><b>Stepwise Procedure</b></p> <ul style="list-style-type: none"> <li>• Identify the given spotter</li> <li>• Write the Fatal Dose and Fatal Period</li> <li>• Write the Signs and Symptoms (Specific symptoms of poisoning)</li> <li>• Write the Treatment of Poisoning ( Siddha and Allopathy)</li> <li>• Write the Medico Legal Importance of the spotter</li> </ul>	2
9	<p><b>Identification of Equipment's used for the treatment of poisoning</b></p> <ul style="list-style-type: none"> <li>• Stomach wash tube</li> <li>• Ryle's tube</li> </ul>	1	<p><b>Stepwise Procedure</b></p> <ul style="list-style-type: none"> <li>• Identify the given spotter</li> <li>• Write the parts and it's dimension</li> <li>• Write how to use in the treatment of poisoning</li> <li>• Write the contra indications</li> <li>• Write the Complications</li> </ul>	2
10	<p><b>Identification of Histopathological specimens</b></p> <ul style="list-style-type: none"> <li>• Human Hair</li> <li>• Animal Hair</li> <li>• Fibres</li> <li>• Stains</li> <li>• Semen</li> <li>• Human Blood</li> <li>• Animal blood</li> </ul>	1	<p><b>Stepwise Procedure</b></p> <ul style="list-style-type: none"> <li>• Identify the given slide through microscope</li> <li>• Write the features</li> <li>• Write the Medico Legal Importance</li> </ul>	5

11	<b>Medico Legal Interpretation of Photographs</b> <ul style="list-style-type: none"> <li>• Identity</li> <li>• Thanatology</li> <li>• Corrosive Poisons</li> <li>• Asphyxia</li> <li>• Mechanical Injuries</li> <li>• Animal Poisons</li> <li>• Thermal Injuries</li> <li>• Electrical and Lightning</li> <li>• Narcotic poisons</li> <li>• Food Poisons</li> <li>• Drug Dependence and abuse</li> </ul>	3	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given Photograph</li> <li>• Write the Medico Legal Importance</li> </ul>	6
12	<b>Identification of Weapons</b> <ul style="list-style-type: none"> <li>• Asphyxial materials</li> <li>• Blunt and Sharp edged weapons</li> <li>• Heavy and Sharp cutting weapons</li> <li>• Flat ended weapons</li> <li>• Pointed weapons</li> <li>• Fire arms</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Identify the given Weapon/Asphyxial material</li> <li>• Write the Type of weapon, Injury caused by the weapon</li> <li>• Write the Medico Legal Importance</li> </ul>	6
13	<b>Certificate proceedings</b> <ul style="list-style-type: none"> <li>• Medical Certificate</li> <li>• Medical Fitness Certificate</li> <li>• Age certificate</li> <li>• Death Certificate</li> <li>• Physical fitness certificate</li> </ul>	1	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Observe the given medico legal history</li> <li>• Interpret and fill the empty certificate/ADR form according the observation</li> </ul>	5

	<ul style="list-style-type: none"> <li>• Wound Certificate</li> <li>• Drunkenness certificate</li> <li>• Adverse Drug Reaction (ADR) Form</li> </ul>			
14	<b>Age Estimation from Radiographs</b> <ul style="list-style-type: none"> <li>• Dentition Radiographs</li> <li>• Bones radiographs</li> <li>• Sex Determination from Bones</li> </ul>	1	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Observe the Radiograph / Bone</li> <li>• Write the interpretation</li> <li>• Write the opinion about the age through X-ray / sex through bone</li> </ul>	12
15	<b>Interpretation of Medico legal cases through newspaper and other media sources</b>	3	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Observe the given Medico legal history (News paper / Any Medica source)</li> <li>• Identify the cause of death</li> <li>• Write the Medico legal aspect and it's IPC</li> </ul>	5
16	<b>DART</b>	3	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Demonstrate the procedure</li> <li>• Identify whether the product is adulterated or not?</li> </ul>	6
17	<b>Preparation of Siddha Formulations (Nanju Murivu Marunthugal)</b> <ul style="list-style-type: none"> <li>• Plant Poisoning</li> <li>• Metal Poisoning</li> <li>• Mineral Poisoning</li> </ul>	2	<b>Stepwise Procedure</b> <ul style="list-style-type: none"> <li>• Prepare the Nanju Murivu formulation</li> <li>• Write the indication of the Nanju Murivu formulation</li> </ul>	15

	• Animal Poisoning		
<b>Total Hr</b>			<b>98</b>

### Activity

CO	Topic name	Activity Details	Hours#
CO3	POST MORTEM CLASS	<p>Visit the nearby Hospitals and Observe the procedures of medico-legal Autopsy</p> <ul style="list-style-type: none"> <li>• Identification of Postmortem centres nearby</li> <li>• Communicate with the Institute / hospital for getting permission</li> <li>• Students can be grouped with 20 members in each</li> <li>• Observe the procedure and take notes in detail</li> <li>• Report submission after the visit</li> </ul>	4
CO5	FORENSIC SCIENCE LABORATORY VISIT	<p>Visit to nearby District or State Forensic science lab to know its functions</p> <ul style="list-style-type: none"> <li>• Identification of nearby Forensic Science Laboratory.</li> <li>• Communicate with the Laboratory regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe the different departments and the equipments used there.</li> <li>• Gain knowledge about its functionalities and applications.</li> <li>• Report submission after the visit.</li> </ul>	4

CO7	FSSAI LABORATORY VISIT	<p>Visit to FSSAI Regional Office to gain knowledge about Food safety and adulteration methods</p> <ul style="list-style-type: none"> <li>• Identification of nearby FSSAI Laboratory.</li> <li>• Communicate with the Laboratory regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe the different procedures followed to analyse the quality of foods.</li> <li>• Gain knowledge about its functionalities and applications.</li> <li>• Report submission after the visit.</li> </ul>	4
CO6	POISON INFORMATION CENTRE VISIT	<p>Visit to nearby Poison Information Centre to know their roles and responsibilities</p> <ul style="list-style-type: none"> <li>• Identification of nearby Poison Information Centre.</li> <li>• Communicate with the Centre regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe and learn their roles, responsibilities and how they provide toxicological information and guidance in managing poison cases.</li> <li>• Report submission after the visit.</li> </ul>	4
CO1	COURT VISIT	Visit to nearby courts to observe the court proceedings	4

		<ul style="list-style-type: none"> <li>• Identification of nearby Courts.</li> <li>• Communicate with them regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe the legal proceedings carried out at various levels in courts.</li> <li>• Role Play / Report submission after the visit.</li> </ul>	
CO1	POLICE STATION VISIT	<p>Visit nearby Police station to observe the various types of Inquest and its functions</p> <ul style="list-style-type: none"> <li>• Identification of nearby Police Stations.</li> <li>• Communicate with them regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe different types of inquest and proceedings related to inquest.</li> <li>• Role Play / Report submission after the visit.</li> </ul>	3
CO3	AWARENESS PROGRAMME ON SEXUAL ABUSE AMONG SCHOOL CHILDREN	<p>Conduct Awareness Programme on Adolescent Health Issues like Good touch, Bad touch, Sexual Offences, Child Abuse, Child help line number, etc... among School Children.</p> <ul style="list-style-type: none"> <li>• Identification of nearby Schools.</li> <li>• Communicate with them regarding permission to conduct awareness programmes.</li> <li>• Students may be grouped and involved different activities in the awareness programme.</li> <li>• Provide awareness through public talks, skit, mime, song, poetry, etc.</li> <li>• Feedback documentation and Report submission need to be encouraged.</li> </ul>	3
CO1	AWARENESS PROGRAMME ON OCCASIONS	<p>Organise Awareness Programmes on the occasions of Tobacco Day, Cancer Day, etc</p>	3

		<ul style="list-style-type: none"> <li>• Identification of the occasions whenever awareness programmes will be needed.</li> <li>• Notify the targeted audience about the date, time &amp; venue of the programme.</li> <li>• Students may be grouped and involved different activities in the awareness programme.</li> <li>• Provide awareness through public talks, skit, mime, song, poetry, etc.</li> <li>• Feedback documentation and Report submission need to be encouraged.</li> </ul>	
CO1	BASIC LIFE SUPPORT CLASS	<p>Demonstrate the procedures of CPR on mannequin</p> <ul style="list-style-type: none"> <li>• Identification of organisation conducting BLS courses for students</li> <li>• Organising demonstration class in our respective campus</li> <li>• Make sure the availability of mannequin and BLS kit Apparatus for demonstration</li> <li>• Divide the students into small groups for convenience.</li> <li>• Hands-On training should be given to each and everyone.</li> <li>• Periodical demonstration or Practice among the students should be encouraged.</li> </ul>	3
CO1	VISIT TRADITIONAL VISAKKADI VAIDYARS	<p>Visit and interact with nearby Traditional Vaidhiyars practicing Visha Kadi Sikichai</p> <ul style="list-style-type: none"> <li>• Identification of nearby traditional Visakkadi vaidyars.</li> </ul>	3

		<ul style="list-style-type: none"> <li>• Communicate with them regarding permission to visit.</li> <li>• Students may be divided into groups for interactions and documentations.</li> <li>• Observe and learn their method of approach in handling poisoning cases and related details should be noted in detail.</li> <li>• Report submission after the visit.</li> </ul>	
CO8	VISIT DEADDICTION CENTRE	<p>Visit the nearby deaddiction centre and Observe the various protocols followed for De-Addiction</p> <ul style="list-style-type: none"> <li>• Identification of nearby De-addiction Centre.</li> <li>• Communicate with the centre regarding permission to visit.</li> <li>• Students may be divided into groups for interactions and documentations.</li> <li>• Observe and learn their method of approach in the management of de-addiction.</li> <li>• Report submission after the visit.</li> </ul>	3



CO1	FIELD VISIT - SNAKE IDENTIFICATION	<p>Visit local snake catchers and discuss the significant points in identifying snake varieties with the help of field guides</p> <ul style="list-style-type: none"> <li>• Identification of local snake catchers.</li> <li>• Communicate with them regarding permission to visit.</li> <li>• Students may be divided into groups for convenience.</li> <li>• Gain knowledge by observing the features by which they identify the different types of snakes.</li> <li>• Report submission after the visit.</li> </ul>	3
CO1	VISIT TO SNAKE VENOM EXTRACTION UNIT	<p>Observe the venom extraction process at Irulas society, Vadanemmeli, Mahabalipuram, Tamilnadu.</p> <ul style="list-style-type: none"> <li>• Identification of nearby snake venom extraction units.</li> <li>• Communicate with them regarding permission to visit.</li> <li>• Students may be divided into groups for convenience.</li> <li>• Observe and learn the venom extraction process with utmost protective measures.</li> <li>• Report submission after the visit.</li> </ul>	4
CO7	AWARENESS CAMP ON FOOD ADULTERATION	<p>Organize Food Adulteration awareness camp at College/Institute OPD</p> <ul style="list-style-type: none"> <li>• Identification of the target audience for awareness camp.</li> <li>• Notify the targeted audience about the date, time &amp; venue of the programme.</li> <li>• Students may be grouped and involved different activities in the awareness programme.</li> <li>• Provide awareness through public talks, skit, Adulteration Identification Test demonstration, etc.</li> </ul>	3

		<ul style="list-style-type: none"> <li>• Feedback documentation and Report submission need to be encouraged.</li> </ul>	
CO1	FIELD VISIT - TO IDENTIFY TOXIC PLANT	<p>Identify Toxic Plants through a field trip to nearby areas</p> <ul style="list-style-type: none"> <li>• Identification of nearby place (within or outside the campus) for field visit.</li> <li>• Trip need to be guided by a botanist for toxic plant identification.</li> <li>• Students may be divided into groups for interactions and documentations.</li> <li>• Observe and learn the identification features of individual plants along with photo &amp; video documentations.</li> <li>• Report submission after the visit.</li> </ul>	3
CO6	VISIT HOSPITALS TO OBSERVE TREATMENT OF POISONING	<p>Observe management of poisoning practicing at nearby Hospitals</p> <ul style="list-style-type: none"> <li>• Identification of nearby hospitals with casualty facility.</li> <li>• Communicate with the hospital regarding permission to visit.</li> <li>• Students may be divided into groups for convenience..</li> <li>• Observe and learn the protocols followed in the management of poisoning cases in hospital setting.</li> <li>• Report submission after the visit.</li> </ul>	3
CO7	AWARENESS ABOUT SUICIDAL HELPLINE CENTRES	<p>Observe the Activities of any Suicidal Help lines</p> <ul style="list-style-type: none"> <li>• Identification of the target audience for awareness programmes.</li> <li>• Notify the targeted audience about the</li> </ul>	3

		<p>date, time &amp; venue of the programme.</p> <ul style="list-style-type: none"> <li>• Students may be grouped and involved different activities in the awareness programme.</li> <li>• Provide awareness through public talks, skit, mime, etc.</li> <li>• Involvement of Motivational speakers in the programme may be encouraged.</li> <li>• Feedback documentation and Report submission need to be done.</li> </ul>	
CO7	AWARENESS ABOUT PHARMACOVIGILANCE AND REGIONAL RAW DRUG REPOSITORY	<p>Visit nearby National / Intermediary / Peripheral Pharmacovigilance centre, Regional Raw Drug Repository (RRDR) -National Institute of Siddha, Chennai and Observe it's functions.</p> <ul style="list-style-type: none"> <li>• Identification of the target audience for awareness programmes.</li> <li>• Notify the targeted audience about the date, time &amp; venue of the programme.</li> <li>• Students may be grouped and involved different activities in the awareness programme.</li> <li>• Provide awareness through public talks, skit, mime, etc.</li> <li>• Involvement of pharmacovigilance centre co-ordinators in the programme may be encouraged.</li> <li>• Visit to nearby pharmacovigilance and RRDR centres may also be encouraged.</li> <li>• Feedback documentation and Report submission need to be done.</li> </ul>	3
CO3	FORENSIC MUSEUM AND POLICE MUSEUM VISIT	<p>Visit to nearby Forensic and Police Museum</p> <ul style="list-style-type: none"> <li>• Identification of nearby Forensic or</li> </ul>	3

		<p>Police museums.</p> <ul style="list-style-type: none"> <li>• Communicate with them regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe the various sections of museum and document the interesting features displayed in the layouts.</li> <li>• Report submission after the visit.</li> </ul>	
CO8	FORENSIC MODELS PREPARATION	<p>Prepare Hand-made Forensic Models by using POP</p> <ul style="list-style-type: none"> <li>• Identification of themes for model preparation</li> <li>• Students may be divided into groups for effective output.</li> <li>• Arrange the requirements for model preparations.</li> <li>• Encourage and guide the students throughout the process.</li> <li>• Display the models prepared in the department museum.</li> </ul>	3
CO8	VISIT ALCOHOLIC DEADDICTION CENTRES	<p>Observe Alcoholic deaddiction awareness from nearby Alcoholic Anonymous organisation</p> <ul style="list-style-type: none"> <li>• Identification of nearby Alcoholic De-addiction Awareness Centre.</li> <li>• Communicate with the centre regarding permission to visit.</li> <li>• Students may be divided into groups for interactions and documentations.</li> <li>• Observe and learn their method of approach in the management of alcohol de-addiction awareness.</li> <li>• Report submission after the visit.</li> </ul>	3

CO9	ANALYTICAL LABORATORY VISIT	<p>Visit nearby Sophisticated Analytical instruments laboratory to observe procedures and analyze toxic materials</p> <ul style="list-style-type: none"> <li>• Identification of nearby Analytical Laboratory.</li> <li>• Communicate with the Laboratory regarding permission to visit.</li> <li>• Students may be grouped with 20 members in each group.</li> <li>• Observe the different equipments used for analysis.</li> <li>• Gain knowledge about its functionalities and applications.</li> <li>• Report submission after the visit.</li> </ul>	3
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# 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	7
2	Lecture with Power point presentation	263
3	Lecture & Group Discussion	123
4	Lecture with Video clips	65
5	Discussions	135
6	Brainstorming	23
7	Inquiry-Based Learning	14
8	PBL	6
9	CBL	7
10	Flipped classroom	4

11	Blended Learning	4
12	Edutainment	1
13	Mobile learning	3
14	Role plays	4
15	Demo on Model	2
16	Library Session	2
17	Real life experience	3
18	Symposium	2
19	Presentations	1
20	X ray identification	3
21	Lab report interpretation	1
22	Demonstration	3
23	Demonstration Lab	1
24	Field visit	6
25	Activity	14

**Table 6: Assessment Summary: Assessment is subdivided in A to H points**

#### 6 A-Number of Papers and Marks Distribution

Subject Code	Papers	Theory	Practical/Clinical Assessment				Sub Total	Grand Total
			Practical	Viva	Elective	IA		
SIDUG – SSM & NM	2	200	100	30	-----	20	150	350

#### 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

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
<b>Final IA</b>	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 B.S.M.S EXAMINATIONS

#### SIDUG – SSM & NM

#### 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

## 6 F Distribution of theory examination

Paper 1						
Sr. No	A List of Topics	B Term	C Marks	MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1	<b>1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</b>	1	28	Yes	Yes	Yes
2	<b>1.1 Introduction to Forensic Medicine</b>	1		Yes	Yes	No
3	<b>1.2 Legal Procedures</b>	1		Yes	Yes	Yes
4	<b>1.3 Medical Law and Ethics</b>	1		Yes	Yes	Yes
5	<b>1.4 Law and Acts Regulating Medical Practice in India</b>	1		Yes	Yes	No
6	<b>2. IDENTITY</b>	1		Yes	Yes	Yes
7	<b>3 THANATOLOGY</b>	1		Yes	Yes	Yes

8	<b>3.1 Medico Legal Autopsy</b>	1		Yes	Yes	Yes
9	<b>3.2 Death and It's Causes</b>	1		Yes	Yes	Yes
10	<b>3.3 Postmortem Changes</b>	1		Yes	Yes	Yes
11	<b>4 ASPHYXIA</b>	2	17	Yes	Yes	Yes
12	<b>5 MECHANICAL INJURIES</b>	2	17	Yes	Yes	Yes
13	<b>6 SEXUAL JURISPRUDENCE</b>	3	38	Yes	Yes	Yes
14	<b>6.1 Unnatural Sexual Offenses</b>	3		Yes	Yes	Yes
15	<b>6.2 Natural Sexual Offenses</b>	3		Yes	Yes	Yes
16	<b>6.3 Impotence, Sterility and Artificial Insemination</b>	3		Yes	Yes	No

17	<b>6.4 Virginity</b>	3
18	<b>6.5 Pregnancy</b>	3
19	<b>6.6 Delivery</b>	3
20	<b>6.7 Abortion</b>	3
21	<b>7 INFANTICIDE</b>	3
22	<b>8 THERMAL, ELECTRICAL AND LIGHTNING INJURIES</b>	2
23	<b>8.1 Burns and Scalds</b>	2
24	<b>8.2 Electrical Injuries, Lightning, Heat Stroke, Heat Exhaustion and Hypothermia</b>	2
25		3

Yes	Yes	No
Yes	Yes	No
Yes	Yes	No
Yes	Yes	Yes
Yes	Yes	No
Yes	Yes	No
Yes	Yes	No
Yes	No	No

	<b>9 STARVATION</b>					
26	<b>10 FORENSIC PSYCHIATRY</b>	3		Yes	Yes	Yes
27	<b>11 FORENSIC SCIENCE LABORATORY</b>	3	0	No	No	No
<b>Total Marks</b>			<b>100</b>			

<b>Paper 2</b>						
<b>Sr. No</b>	<b>A List of Topics</b>	<b>B Term</b>	<b>C Marks</b>	<b>MCQ (1 Mark)</b>	<b>SAQ (5 Marks)</b>	<b>LAQ (10 Marks)</b>
28	<b>1 INTRODUCTION TO TOXICOLOGY</b>	1	18	Yes	Yes	Yes
29	<b>2 CORROSIVE POISON</b>	1	7	Yes	Yes	No
30	<b>3 IRRITANT POISON</b>	2	23	Yes	Yes	Yes
31	<b>3.1 Agricultural Poison</b>	2		Yes	Yes	Yes
32		2		Yes	Yes	Yes

	<b>3.2 Inorganic Irritants - Metallic Poisons</b>					
33	<b>3.3 Inorganic Irritants - Non Metallic Poisons</b>	2		Yes	Yes	Yes
34	<b>3.4 Mechanical Irritant Poison</b>	2		Yes	No	No
35	<b>3.5 Organic Plant Irritant Poison</b>	2		Yes	Yes	No
36	<b>4.ANIMAL POISON</b>	2	18	Yes	Yes	Yes
37	<b>5 HOUSEHOLD POISON</b>	2	1	Yes	No	No
38	<b>6 SYSTEMIC POISON AND ASPHYXIANTS</b>	3	23	Yes	Yes	Yes
39	<b>6.1 CEREBRAL AND SPINAL POISON</b>	3		Yes	Yes	Yes
40	<b>6.1.1 CNS Depressants</b>	3		Yes	Yes	Yes

41	<b>6.1.2 CNS Stimulants</b>	3		Yes	No	No
42	<b>6.1.3 Deliriants</b>	3		Yes	Yes	Yes
43	<b>6.1.4 Spinal poison</b>	3		Yes	Yes	Yes
44	<b>6.2 Cardiac Poison</b>	3		Yes	Yes	Yes
45	<b>6.3 Asphyxiants</b>	3		Yes	Yes	Yes
46	<b>7 FOOD POISONING AND FOOD ADULTERATION</b>	3	7	Yes	Yes	Yes
47	<b>8 DRUG DEPENDENCE AND ABUSE</b>	3	1	Yes	No	No
48	<b>9 PHARMACOVIGILANCE AND BRANCHES OF TOXICOLOGY</b>	3	2	Yes	No	No
<b>Total Marks</b>			<b>100</b>			

## 6 G Blue print of paper I & II

Paper No:1		
Question No	Type of Question	Question Paper Format
Q1	<p><b>Multiple choice Questions</b>  <b>20 Questions</b>  <b>1 mark each</b>  <b>All compulsory</b></p> <p><b>Must know part - 15 MCQ</b>  <b>Desirable to know - 3 MCQ</b>  <b>Nice to know part - 2 MCQ</b></p>	<p>1. 1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</p> <p>2. 1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</p> <p>3. 1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</p> <p>4. 2. IDENTITY</p> <p>5. 2. IDENTITY</p> <p>6. 2. IDENTITY</p> <p>7. 3 THANATOLOGY</p> <p>8. 3 THANATOLOGY</p> <p>9. 4 ASPHYXIA</p> <p>10. 4 ASPHYXIA</p> <p>11. 5 MECHANICAL INJURIES</p> <p>12. 5 MECHANICAL INJURIES</p> <p>13. 6 SEXUAL JURISPRUDENCE</p> <p>14. 6 SEXUAL JURISPRUDENCE</p> <p>15. 7 INFANTICIDE</p> <p>16. 7 INFANTICIDE</p> <p>17. 8 THERMAL, ELECTRICAL AND LIGHTNING INJURIES</p> <p>18. 9 STARVATION</p> <p>19. 10 FORENSIC PSYCHIATRY</p>



		20. 10 FORENSIC PSYCHIATRY
<b>Q2</b>	<p><b>Short answer Questions</b>  <b>Eight Questions</b>  <b>5 Marks Each</b>  <b>All compulsory</b></p> <p><b>Must know - 7 SAQ</b>  <b>Desirable to know - 1 SAQ</b>  <b>No questions on Nice to know</b></p>	<p>1. 2. IDENTITY</p> <p>/</p> <p>1. INTRODUCTION TO MEDICAL JURISPRUDENCE, MEDICAL LAW AND ETHICS</p> <p>2. 2. IDENTITY</p> <p>/</p> <p>3 THANATOLOGY</p> <p>3. 4 ASPHYXIA</p> <p>4. 5 MECHANICAL INJURIES</p> <p>5. 6 SEXUAL JURISPRUDENCE</p> <p>6. 7 INFANTICIDE</p> <p>7. 8 THERMAL, ELECTRICAL AND LIGHTNING INJURIES</p> <p>/</p> <p>10 FORENSIC PSYCHIATRY</p> <p>8. 10 FORENSIC PSYCHIATRY</p>
<b>Q3</b>	<p><b>Long answer Questions</b>  <b>Four Questions</b>  <b>10 marks each</b>  <b>All compulsory</b></p> <p><b>All questions on must know.</b>  <b>No Questions on Nice to know and Desirable to know</b></p>	<p>1. 2. IDENTITY</p> <p>/</p> <p>3 THANATOLOGY</p> <p>/</p> <p>1. INTRODUCTION TO MEDICAL</p>

		<p>JURISPRUDENCE, MEDICAL LAW AND ETHICS</p> <p>2. 4 ASPHYXIA</p> <p>3. 5 MECHANICAL INJURIES</p> <p>4. 10 FORENSIC PSYCHIATRY</p> <p>/</p> <p>6 SEXUAL JURISPRUDENCE</p>
<b>Paper No:2</b>		
<b>Question No</b>	<b>Type of Question</b>	<b>Question Paper Format</b>
<b>Q1</b>	<p><b>Multiple choice Questions</b>  <b>20 Questions</b>  <b>1 mark each</b>  <b>All compulsory</b></p> <p><b>Must know part - 15 MCQ</b>  <b>Desirable to know - 3 MCQ</b>  <b>Nice to know part - 2 MCQ</b></p>	<p>1. 1 INTRODUCTION TO TOXICOLOGY</p> <p>2. 1 INTRODUCTION TO TOXICOLOGY</p> <p>3. 1 INTRODUCTION TO TOXICOLOGY</p> <p>4. 2 CORROSIVE POISON</p> <p>5. 2 CORROSIVE POISON</p> <p>6. 3 IRRITANT POISON</p> <p>7. 3 IRRITANT POISON</p> <p>8. 3 IRRITANT POISON</p> <p>9. 4.ANIMAL POISON</p> <p>10. 4.ANIMAL POISON</p> <p>11. 4.ANIMAL POISON</p> <p>12. 5 HOUSEHOLD POISON</p> <p>13. 6 SYSTEMIC POISON AND ASPHYXIANTS</p> <p>14. 6 SYSTEMIC POISON AND ASPHYXIANTS</p>

		<p>15. 6 SYSTEMIC POISON AND ASPHYXIANTS</p> <p>16. 7 FOOD POISONING AND FOOD ADULTERATION</p> <p>17. 7 FOOD POISONING AND FOOD ADULTERATION</p> <p>18. 8 DRUG DEPENDENCE AND ABUSE</p> <p>19. 9 PHARMACOVIGILANCE AND BRANCHES OF TOXICOLOGY</p> <p>20. 9 PHARMACOVIGILANCE AND BRANCHES OF TOXICOLOGY</p>
<b>Q2</b>	<p><b>Short answer Questions</b>  <b>Eight Questions</b>  <b>5 Marks Each</b>  <b>All compulsory</b></p> <p><b>Must know - 7 SAQ</b>  <b>Desirable to know - 1 SAQ</b>  <b>No questions on Nice to know</b></p>	<p>1. 1 INTRODUCTION TO TOXICOLOGY</p> <p>2. 2 CORROSIVE POISON</p> <p>3. 3 IRRITANT POISON</p> <p>4. 3 IRRITANT POISON</p> <p>5. 4. ANIMAL POISON</p> <p>6. 6 SYSTEMIC POISON AND ASPHYXIANTS</p> <p>7. 6 SYSTEMIC POISON AND ASPHYXIANTS</p> <p>8. 7 FOOD POISONING AND FOOD ADULTERATION</p>
<b>Q3</b>	<p><b>Long answer Questions</b>  <b>Four Questions</b>  <b>10 marks each</b>  <b>All compulsory</b></p> <p><b>All questions on must know.</b></p>	<p>1. 1 INTRODUCTION TO TOXICOLOGY</p> <p>2. 3 IRRITANT POISON</p> <p>3. 4. ANIMAL POISON</p>

<b>No Questions on Nice to know and Desirable to know</b>	4.6 SYSTEMIC POISON AND ASPHYXIANTS
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## 6 H Distribution of Practical Exam

S.No	Heads	Marks
1	<p><b>Spotters:</b> (11 x 5 = 55) Duration: 11x4 = 44 mins  <b>Head no.1,2,3,4,5,6,7,8</b>            Identification of Toxicological Specimens</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Identification of Spotter, Type of poison ,Signs and Symptoms, Fatal dose and Fatal period,Treatment,Medico legal importance</li> </ul> <p><b>Head no.9</b> Duration: 4 mins            Equipment's Used in the Treatment of Poisoning</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Identification of Spotter,how to use in the treatment, Contra Indication</li> </ul> <p><b>Head no. 11</b> Duration: 4 mins            Medico legal Interpretation of Photographs</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Identification of Photograph, Medico legal importance</li> </ul> <p><b>Head no.12</b> Duration: 4 mins            Weapons</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Identification of Weapon, Type of weapon, Injury caused by the weapon, Medico legal importance</li> </ul>	55
2	<p><b>Head no.10.</b> (1x5 = 5) Duration: 5 mins            Histopathological Specimens</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Identification of Slide,Features and its Medico legal importance</li> </ul>	5
3	<p><b>Head no.13.</b>(1x5 = 5) Duration: 5 mins            Certificate proceedings</p>	5

	<ul style="list-style-type: none"> <li>• Questions:</li> <li>• Observe, Interpret and fill the empty certificate according to the given medico legal history.</li> </ul>	
4	<p><b>Head.no14.</b>(1x5 = 5) Duration: 4 mins Age Estimation from Radiographs,Dentition Radiographs ,Bones ,Sex Determination by Bones</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Estimate the age from Radiographs / Dentition Radiographs / Bone radiograph</li> </ul> <p style="text-align: center;">or</p> <ul style="list-style-type: none"> <li>• Determine the sex through bones</li> </ul>	5
5	<p><b>Head no.15.</b>(1x5 = 5) Duration: 5 mins Interpretation of Medico legal cases through newspaper and media sources</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Identify the cause of death, Medico legal aspect and it's IPC from the given news paper cutting / media source</li> </ul>	5
6	<p><b>Head.no.16</b> (1x5 = 5) Duration: 15 mins DART</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Demonstrate the procedure and identify whether the product is adulterated or not?</li> </ul>	5
7	<p><b>Head no.17.</b>(1x10 = 10) Duration: 30 mins Preparation of Siddha Formulations (Nanju Murivu Marunthugal)</p> <ul style="list-style-type: none"> <li>• Questions:</li> <li>• Prepare the Nanju Murivu formulation and mention the indications.</li> </ul>	10

8	<ul style="list-style-type: none"> <li>• Record</li> </ul>	10
9	<ul style="list-style-type: none"> <li>• Viva</li> </ul>	30
10	<ul style="list-style-type: none"> <li>• Electives</li> </ul>	-----
11	<ul style="list-style-type: none"> <li>• Internal Assesment</li> </ul>	20
<b>Total Marks</b>		<b>150</b>

**References Books/ Resources**

<b>S.No</b>	<b>Book</b>	<b>Resources</b>
1	Sattam Sarntha Maruthuvamum Nanju Maruthuvamum. (Text Book)	Pa. A. Mohammed Iqbal.3rd edition, Department of Indian medicine and Homeopathy ; 2021
2	Nanju Murivu Nool (Text Book)	Murugesu Mudhaliyar, Pon Kurusironmani. 3rd edition, Department of Indian Medicine and Homeopathy,Chennai;1993.
3	Textbook of forensic medicine and toxicology	Pillay. VV, Paras Medical Publishers; 2011
4	Nandy's Hand Book of Forensic Medicine and Toxicology	Nandy A.New Central Book Agency; 2013
5	Textbook of forensic medicine and toxicology	Ignatius PC,4th ed. Elsevier,2019
6	Principles of Forensic Medicine and Toxicology	Bardale R, Jaypee Brothers Medical Publications; 2021
7	Essentials of Forensic Medicine and Toxicology (Text Book)	K.S.Narayan Reddy,O.murty, Jaypee Brothers 2017.
8	Textbook of forensic medicine and toxicology	Rao NG,Jaypee Brothers Medical Publishers; 2010
9	Practical Forensic Medicine	K.Thangaraj, CBS Publishers, 1st Edition;2016
10	Practical Manual of Sattam Sarntha Maruthuvamum Nanju Maruthuvamum	Sathish Adithya.R, Kanimozhi.S,1st edition. Dharshan Publishers; 2021
11	Siddha Maruthuvam Pothu	Kuppusamy Mudhaliyar,Department of Indian Medicine and Homeopathy;2018. Page no. 840 - 846.
12	Siddha Maruthuvanga Surukkam (Maruthuvar Ilakkanam Ref)	C S Utthamarayan,Department of Indian Medicine and Homeopathy;2018. Page no.455-460



13	Visa Vaithiya Aruda Noolgal	Ramachandran S.P,1st Edition,Thamarai Publishers;2000 . Pageno.329
14	Sarabendirar Vaithiya Muraigal (Visa Roga Sigichai)	Venkatarajan.S, 5th Edition, Saraswathi Mahal Noolagam Publishers;2005
15	Visa Vaithiya Sinthamani (Pugai and Kudori Maruthuvam Ref))	Sirumanavur Munisamy Muthaliyar,Rathina Nayakkar&sons;2003 . - Page.no 65 - Details of Kudori maruthuvam
16	Vaadha Vaithiyathukkathi	Balaramaiah,3rd Edition,Arul Jothi Publishers;1988 Page. no -574-584
17	Theran Kaapiam	Anandakumar.A, Edited by Literary Research Unit, Central Council for Research in Indian Medicine;1975
18	Siddha Toxicology	Edited By,Anaivaari R.Anandan, 1st Edition, Department of Indian Medicine and Homoeopathy;2010 (Text Book)
19	Snakes of India-The Field Guide	Romulus whitaker & Ashok captain,Draco Books Publishers;2015
20	Pharmacovigilance for Herbal Medicines: A Perspective from the Herbal Medicines Industry. In: Barnes, J. (eds) Pharmacovigilance for Herbal and Traditional Medicines.	Rasmussen, P, Published by Adis, Cham;2022
21	Pharmacovigilance in ASU Drugs: Necessity of Today	Kartikey, Deepika Verma, Rajnikant Rohila. Shikha Pandey, World Journal of Pharmaceutical and Medical Research, 2021,7(11), 80 – 84
22	Pharmacovigilance And Its Relevance To Siddha System	Meena.R,Ramaswamy R S,International journal of pharma and bio sciences;July;4(3): (B) 131 - 139
23	Online source (Details of Pharmacovigilance)	<a href="https://www.ayushsuraksha.com/">https://www.ayushsuraksha.com/</a>
24	Online source (Details about Toxicity Studies guidelines)	<a href="https://www.oecd.org/">https://www.oecd.org/</a>

25	Tanjore Pills	Sashidhar V.R.,Current Science,2014;107(3);337-338
26	Online source (Details about Roles, Responsibilities and activities of TamilNadu Siddha Medical Council)	<a href="https://www.tnsmc.com">https://www.tnsmc.com</a>
27	Online source (Details about activities of NMC)	<a href="https://www.nmc.org.in/">https://www.nmc.org.in/</a>
28	Online source (Details about activities of NCISM)	<a href="https://ncismindia.org/">https://ncismindia.org/</a>
29	Online source State Drug Licencing Authority	<a href="https://www.tnslaim.tn.gov.in/">https://www.tnslaim.tn.gov.in/</a>
30	Online source (Details of DART- Detect Adultration with Rapid Test)	<a href="https://eatrightindia.gov.in/dart/">https://eatrightindia.gov.in/dart/</a>
31	Online source (Details of Pre Clinical Studies -WHO Guidelines)	<a href="https://apps.who.int/iris/handle/10665/66783">https://apps.who.int/iris/handle/10665/66783</a>
32	Online source (Details about Forensic science laboratory)	<a href="https://forensic.tn.gov.in/">https://forensic.tn.gov.in/</a>

## Abbreviations

### Domain

S.No	Short form	Descriptions
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

## T L method

S.No	Short form	Descriptions
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	XRay	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	ACT	Activity
44	PRA	Practical

## Assessment

S.No	Short form	Descriptions
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	NFE	Not for exam