

# **College of Allied Sciences (COAS)**

## **PROGRAM STRUCTURE AND SCHEME OF EXAMINATION**

As per National Credit Framework, National Education Policy  
UGC Guidelines

**(Academic Session 2024 - 25)**



**M.Sc. Forensic Chemistry**

**7<sup>th</sup>KM, Roorkee Haridwar Highway, Vardhman Puram,  
Roorkee 247667 (Uttarakhand)**

**2024**

# **DEPARTMENT OF CHEMISTRY**

## **CURRICULUM**

**M.Sc. Forensic Chemistry**

**Total Credits: 86**

## TEACHING STRUCTURE

Semester I

Credits: 22

SN	Course Code	CC	Course Title	Cr	L	T	P	ATT	CWA/PWA	MTE	ESE	Total Marks
								10	20/40	20	50	100
1	ASAC 501 T	MCS-1	Advance Inorganic Chemistry- 1	3	3	1	0					
2	ASAC 503	MCS-2	Advance Organic Chemistry -1	4	3	1	0					
3	ACFC 501	MCS-3	Fundamentals of questioned document examination	4	3	1	0					
4	ASCHDE 06	DSE-1	Criminology, Criminal law, and Police Administration.	3	2	0	0					
5	ASAC 501 P	Lab	Inorganic Chemistry Lab	1	0	0	4					
6	UAC 009T	AEC	Fundamental of MS office	2	1	0	2					
7	UVC 022T	VAC	IPR	2	2	0	0					
8	SEAS01	SEC	Fundamental of Professional Development	3	0	0	6					
<b>TOTAL</b>				<b>22</b>	14	03	12					

\*SEC (Skill Enhancement Courses) will be evaluated by T&P cell based on Assignments/ Tutorials/Mock Interviews.

## Semester II

Credits: 21

SN	Course Code	CC	Course Title	Cr	L	T	P	ATT	CWA/ PWA	MTE	ESE	Total Marks
								10	20/40	20	50	100
1	ASAC 502	MCS-1	Advance Inorganic Chemistry -2	4	3	1	0					
2	ASAC 504	MCS-2	Advance Organic Chemistry - 2	4	3	1	0					
3	ASFC 502	MCS-3	Forensic Biology and Forensic Medicine	3	3	1	0					
4	ASCHDE07 T	DSE-2	Forensic Chemistry and Toxicology	3	2	0	0					
5	ASCHDE07 P	Lab	Forensic Drug Analysis and Toxicology Lab -1	1	0	0	4					
6	OCE 003T	OE	Environment al Manage. and Sust. Devel.	3	2	0	0					
7	SEAS02	SEC	Analytical thinking & problem-solving skills	3	0	0	6					
<b>TOTAL</b>				<b>21</b>	13	03	10					

\*SEC (Skill Enhancement Courses) will be evaluated by T&P cell based on Assignments/ Tutorials/Mock Interviews.

SN	Course Code	CC	Course Title	C r	L	T	P	ATT	CWA/ PWA	MTE	ESE	Total Marks
								10	20/40	20	50	100
1	ASAC 601 T	MCS-1	Spectroscopic Techniques and Application	3	3	1	0					
2	ASAC 603	MCS-2	Analytical procedures and Research Methodology	4	3	1	0					
3	ASFC 605	MCS-3	Information Security and Cyber Crime	4	3	1	0					
4	ASCHDE 08	DSE-3	Fundamentals of Forensic Psychology	3	2	0	0					
5	ASAC 601 P	LAB	Forensic Drug Analysis and Toxicology Lab 2	1	0	0	4					
6	OAS014T	OE	Toxic Chemicals in Env.	3	2	0	0					
7	SIA069	Summer Internship (SI) *	Book Chapter / Paper/ Patent	2	0	0	4					
<b>TOTAL</b>				<b>20</b>	<b>13</b>	<b>03</b>	<b>08</b>					

**\*Evaluation of SI will be conducted in forth sem.**

## Semester IV

Credit: 23

SN	Course Code	CC	Course Title	Cr	L	T	P	A	CWA/PWA	MTE	ESE	Total Marks
								T				
								10	20/40	20	50	100
1	ASFC 602	MCS-1	Analytical Forensic Toxicology	4	3	1	0					
2	ASFC 604	MCS-2	Modern Trends in Fingerprint Science	4	3	1	0					
3	OAS015T	OE	Food Chem and Adul.	3	2	0	0					
3	ASPRO602	Major Project	Project Work, Dissertation	12	0	0	0					
<b>TOTAL</b>				<b>23</b>	<b>08</b>	<b>02</b>	<b>0</b>					

