



# PUNYASHLOK AHILYADEVJI HOLKARSOLAPUR UNIVERSITY, SOLAPUR

## EXAM OF 2024 SEMESTER PATTERN EXAMINATION

### REVISED FINAL PROGRAM OF M.SC.

- [1] ORGANIC CHEMISTRY [2] INDUSTRIAL CHEMISTRY [3] POLYMER CHEMISTRY  
[4] PHYSICAL CHEMISTRY [5] ANALYTICAL CHEMISTRY [6] INORGANIC CHEMISTRY  
[7] PHARMACEUTICAL CHEMISTRY [8] MEDICAL CHEMISTRY

### SEM- I TO IV OCT./NOV-2024 EXAMINATION

1. Student should see their Seat No. and Name in the Name list and mistakes if any should be communicate to this office immediatly. All candidates are requested to confirm their Examination Seat No. as well as place of examination on the Notice Board of the University/College mentioned below at least two days before the date of Examination. The candidate should write correct Seat No. on each answer book. If candidate writes wrong Seat No. on answer Book the performance of such subject will not be considered.
2. Candidate are requested to be present at their respective places of the Examination **FIFTEEN MINUTES** before the time starting of the first paper and **TEN MINUTES** before the time starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
3. **Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents.
4. All the Candidates are asked to follow the timely instructions given by University in accordance with the examinations methodology.
5. As per the Rights of Person with Disabilities Act-२०१६ the persons with Disabilities are given २० minutes extra for the persons with Disabilities. (केंद्र शासनाच्या अपंग व्यक्ती अधिकार अधिनियम २०१६ मधील तरतूदीनुसार अपंग व्यक्तींकरिता परीक्षेपूर्वी ऑनलाईन ऑफिसरच्या आधीच्यापेक्षा १ तासाला कमीतकमी २० मिनीट इतका वेळ वाढवून देण्यास सर्वानुमते मान्यता देण्यात आली.)

Sr. No.	Center	College Abbreviation	Place
1	Solapur	PAHSUS	PUNYASHLOK AHILYADEVJI HOLKARSOLAPUR UNIVERSITY, SOLAPUR
2		DAV	D.A.V.Velankar College of Commerce, Solapur
3	Pandharpur	KBP	KarmveerBhauraoPatilMahavidhyalaya
4	Barshi	SBZ	Shriman Bhausahab Zadbuke Mahavidyalaya, Barshi
5	Sangola	SANG	Sangola College, Sangola
6		GDMAS	Dr. Ganpatrao Deshmukh Mahavidyalaya, Sangola
7	Wadala	MMW	Mauli Mahavidyalaya, wadala
8	AKKALKOT	MGKMMMA	Matoshri Gurubasavva Kalyanshetti Mahila Mahavidyalaya, Akkalkot

[1]Organic Chemistry	[2]Industrial Chemistry	[3]Polymer Chemistry	
[4]Physical Chemistry	[5]Analytical Chemistry	[6]Inorganic Chemistry	
[7]Pharmaceutical Chemistry[8]Medical Chemistry			
<b>Sem-I (New w.e.f. June 2023)</b> (NEP CBCSPattern-2023)			
Day&Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to5:30p.m.
Wednesday 01/01/2025	DSC 1	1	Physical Chemistry –I(2324101/2325101/2326101/2327101) (2302101/2303101/2304101/2305101)
Friday 03/01/2025	DSC 2	2	Organic Chemistry– I (2324102/2325102/2326102/2327102) (2302102/2303102/2304102/2305102)
Monday 06/01/2025	DSE 1 A	3	Inorganic Chemistry –I (2324107/2325107/2326107/2327107) (2302107/2303107/2304107/2305107)
	DSE 1 B	4	OR Chemistry in Life Sciences (2324108/2325108/2326108/2327108) (2302108/2303108/2304108/2305108)
	DSE 1 C	5	OR Medicinal Chemistry (2324109/2325109/2326109/2327109) (2302109/2303109/2304109/2305109)
Wednesday 08/01/2025	RM	6	Research Methodology (2324103/2325103/2326103/2327103) (2302103/2303103/2304103/2305103)

<b>M.Sc. Pharmaceutical Chemistry (w.e.f. June 2020)</b> (CBCS Pattern-2020)			
Day &Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Sunday 12/01/2025		200	Analytical Chemistry – I (MSC05108)

[1]Organic Chemistry	[2]Industrial Chemistry	[3]Polymer Chemistry	
[4]Physical Chemistry	[5]Analytical Chemistry	[6]Inorganic Chemistry	
[7]Pharmaceutical Chemistry[8]Medical Chemistry			
<b>Sem-II(New w.e.f.Nov2023)</b> <b>(NEPCBCSPattern-2023)</b>			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 1:30 p.m
Thursday 02/01/2025	DSC-3	7	Physical Chemistry -II (2326201/2325201/2324201/2302201/2304201/ 2305201/2303201/2327201)
Saturday 04/01/2025	DSC-4	8	Organic Chemistry -II (2326202/2325202/2324202/2302202/2304202/ 2305202/2303202/2327202)
Tuesday 07/01/2025	DSE-2	9	A) Inorganic Chemistry -II (2326207/2325207/2324207/2302207/2304207/ 2305207/2303207/2327207)
		10	OR B) Green Chemistry (2326208/2325208/2324208/2302208/2304208/ 2305208/2303208/2327208)
		11	OR C) Industrial Chemicals and Environment (2326209/2325209/2324209/2302209/2304209/ 2305209/2303209/2327209)

[1]Organic Chemistry	[2]Industrial Chemistry	[3]Polymer Chemistry	
[4]Physical Chemistry	[5]Analytical Chemistry	[6]Inorganic Chemistry	
[7]Pharmaceutical Chemistry[8]Medical Chemistry			
<b>Sem-II (w.e.f.Nov2020)</b> <b>(CBCSPattern-2020) (Old up to OCT.2024)</b>			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00 p.m.
Thursday 02/01/2025	HCT-201	12	Inorganic Chemistry –II(MSC05201)
Saturday 04/01/2025	HCT-202	13	Organic Chemistry –II (MSC05202)
Tuesday 07/01/2025	SCT-203	14	A) Physical Chemistry–II MSC05206)
	SCT-204	15	OR B) Green Chemistry (MSC05207)
Wednesday 15/01/2025	OET	---	[Choose from list]

<b>Organic Chemistry Sem– III (New w.e.f. June 2024)</b> (NEP CBCS Pattern-2023)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 1:30p.m
Wednesday 01/01/2025	DSC-5	16	Advanced Spectroscopic Methods (2326301)
Friday 03/01/2025	DSC-6	17	Photochemistry and Pericyclic Reactions (2326302)
Monday 06/01/2025	DSE-3	18 19	A) Advanced Organic Chemistry (2326306) OR B) Applied Organic Chemistry (2326307)

<b>Organic Chemistry Sem– III (w.e.f. June 2021)</b> (CBCS Pattern-2020) (Old up to MAR.-2025)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Wednesday 01/01/2025	HCT 301	20	Advanced Organic Chemistry – I (MSC07301)
Friday 03/01/2025	HCT302	21	Chemistry of Bioactive Heterocycles (MSC07302)
Monday 06/01/2025	SCT301 SCT302	22 23	C) Photochemistry and Pericyclic Reactions (MSC07306) OR D) Drug Development (MSC07307)
Saturday 11/01/2025	OET	--	[Choose from list]

<b>Organic Chemistry Sem– IV (New w.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m.
Thursday 02/01/2025	HCT 401	24	Advanced Organic Chemistry –II (MSC07401)
Saturday 04/01/2025	HCT 402	25	Modern Organic Chemistry (MSC07402)
Tuesday 07/01/2025	HCT 403	26	Chemistry of Natural Products (MSC07403)
Thursday 09/01/2025	SCT 404A SCT 404B	27 28	A) Medicinal Chemistry (MSC07408) OR B) Pharmaceutical Technology (MSC07409)

<b>Industrial Chemistry Sem– III (New w.e.f. June 2024)</b> <b>(NEP CBCS Pattern-2023)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m.to 1:30p.m</b>
<b>Wednesday 01/01/2025</b>	DSC-5	29	Unit operations of chemical Engineering (2325301)
<b>Friday 03/01/2025</b>	DSC-6	30	Unit process in Chemical Industries (2325302)
<b>Monday 06/01/2025</b>	DSE-3	31 32	Industrial Analytical Chemistry-I (2325306) OR Industrial Analytical Chemistry-II (2325307)

<b>Industrial Chemistry Sem– III (w.e.f. June 2021)</b> <b>(CBCS Pattern-2020) (Old up to MAR-2025)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m.to 2:00p.m</b>
<b>Wednesday 01/01/2025</b>	HCT 301	33	Unit operations of chemical Engineering (MSC06301)
<b>Friday 03/01/2025</b>	HCT302	34	Unit processes in Chemical technology (MSC06302)
<b>Monday 06/01/2025</b>	SCT301	35 36	Instrumental Analysis-I (MSC06307) OR Instrumental Analysis –II (MSC06308)
<b>Saturday 11/01/2025</b>	OET	--	<b>[Choose from list]</b>

<b>Industrial Chemistry Sem– IV (Neww.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m
Thursday 02/01/2025	HCT 401	37	Chemical Industries (MSC06401)
Saturday 04/01/2025	HCT 402	38	Pollution Monitoring and Control(MSC06402)
Tuesday 07/01/2025	HCT 403	39	Nanomaterial and its Characterization (MSC06403)
Thursday 09/01/2025	SCT 404A	40	A) Industrial Management and Material Balance (MSC06408)
	SCT 404B	41	OR B) Advanced Topics in Industrial Chemistry-II (MSC06409)

<b>Polymer Chemistry Sem – III(Neww.e.f. June 2024)</b> (NEP CBCS Pattern-2023)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 1:30p.m
Wednesday 01/01/2025	DSC-5	42	Fundamentals of Polymer Science (2324301)
Friday 03/01/2025	DSC-6	43	Chain Polymerization Mechanism and Kinetics (2324302)
Monday 06/01/2025	DSE-3	44	A) Polymer Analysis and Characterization techniques (2324306)
		45	OR B) Physical Chemistry of Polymers (2324307)

<b>Polymer Chemistry Sem – III(w.e.f. June 2021)</b> (CBCS Pattern-2020) (Old up to MAR.-2025)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Wednesday 01/01/2025	HCT 301	46	Fundamentals of Feedstocks and Polymers (MSC05301)
Friday 03/01/2025	HCT302	47	Morphology and Physical Chemistry of Polymers (MSC05302)
Monday 06/01/2025	SCT301	48	A) Basic Concepts of Polymerization (MSC05306)
	SCT302	49	OR B) Natural and Synthetic Textile fibers and Resins (MSC05307)
Saturday 11/01/2025	OET	--	[Choose from list]

<b>Polymer Chemistry Sem– IV (Neww.e.f. Nov 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m.to 6:00p.m</b>
<b>Thursday</b> <b>02/01/2025</b>	HCT 401	50	Step-growth Polymers (MSC05401)
<b>Saturday</b> <b>04/01/2025</b>	HCT 402	51	Stereoregular Polymers and Modern Polymerisation Methods (MSC05402)
<b>Tuesday</b> <b>07/01/2025</b>	HCT 403	52	Selected Topics in Polymers(MSC05403)
<b>Thursday</b> <b>09/01/2025</b>	SCT 401	53	A) Processing Technology and Polymer Properties (MSC05408)
	SCT 402	54	OR B) Inorganic and Biopolymers(MSC05409)

<b>Physical Chemistry Sem – III (Neww.e.f. June 2024)</b> <b>(NEP CBCS Pattern-2023)</b>			
<b>Day &amp;Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m.to 1:30p.m</b>
<b>Wednesday</b> <b>01/01/2025</b>	DSC-5	55	Quantum Chemistry (2302301)
<b>Friday</b> <b>03/01/2025</b>	DSC-6	56	Electrochemistry and Chemical Kinetics (2302302)
<b>Monday</b> <b>06/01/2025</b>	DSE-3	57	a) Solid State Chemistry OR (2302306)
		58	OR b) Biophysical Chemistry (2302307)
		59	OR c) Radiation and Photochemistry (2302308)

<b>Physical Chemistry Sem – III (w.e.f. June 2021)</b> <b>(CBCS Pattern-2020)(Old up to MAR-2025)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00a.m.to 2:00p.m</b>
<b>Wednesday</b> <b>01/01/2025</b>	HCT3.1	60	Quantum Chemistry (MSC11301)
<b>Friday</b> <b>03/01/2025</b>	HCT3.2	61	Electrochemistry (MSC11302)
<b>Monday</b> <b>06/01/2025</b>	SCT3.1 SCT 3.2	62 63	Molecular Structure-I (MSC11306) OR Biophysical Chemistry (MSC11307)
<b>Saturday</b> <b>11/01/2025</b>	OET	--	[Choose from list]

<b>Physical Chemistry Sem – IV (Neww.e.f. Nov 2021)</b> <b>(CBCS Pattern-2020)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 3:00 p.m.to 6:00p.m</b>
<b>Thursday</b> <b>02/01/2025</b>	HCT 401	64	Statistical Mechanics and Irreversible Thermodynamics (MSC11401)
<b>Saturday</b> <b>04/01/2025</b>	HCT 402	65	Chemical Kinetics (MSC11402)
<b>Tuesday</b> <b>07/01/2025</b>	HCT 403	66	Molecular Structure-II (MSC11403)
<b>Thursday</b> <b>09/01/2025</b>	SCT 404A SCT 404B	67 68	A) Surface Chemistry (MSC11408) OR B) Chemistry of Materials (MSC11409)

<b>Analytical Chemistry Sem– III(Neww.e.f. June 2024)</b> <b>(NEP CBCS Pattern-2023)</b>			
<b>Day &amp; Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00 p.m.to 1:30p.m</b>
<b>Wednesday</b> <b>01/01/2025</b>	DSC-5	69	Advance Separation Techniques (2304301)
<b>Friday</b> <b>03/01/2025</b>	DSC-6	70	Instrumental Methods of Chemical Analysis-I (2304302)
<b>Monday</b> <b>06/01/2025</b>	DSE-3	71 72	A) Analytical Spectroscopy (2304306) OR B) Applied Analytical Chemistry (2304307)



<b>Analytical Chemistry Sem– III (w.e.f. June 2021)</b> <b>(CBCS Pattern-2020) (Old up to MAR.-2025)</b>			
<b>Day &amp;Date</b>	<b>Paper No.</b>	<b>Sr. No.</b>	<b>Subject</b> <b>Time: 11:00 p.m.to 2:00p.m</b>
<b>Wednesday 01/01/2025</b>	HCT3.1	73	Advance Separation Techniques (MSC013301)
<b>Friday 03/01/2025</b>	HCT3.2	74	Instrumental Methods of Analysis- I (MSC013302)
<b>Monday 06/01/2025</b>	SCT3.1	75	Applied Analytical Chemistry (MSC013306) OR
	SCT3.2	76	Analysis of Commercial Materials (MSC013307)
<b>Saturday 11/01/2025</b>	OET	--	<b>[Choose from list]</b>

<b>Analytical Chemistry Sem – IV (New w.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m. to 6:00 p.m
Thursday 02/01/2025	HCT 401	77	Advanced Analytical Techniques (MSC013401)
Saturday 04/01/2025	HCT 402	78	Instrumental Methods of Analysis-II (MSC013402)
Tuesday 07/01/2025	HCT 403	79	Biochemical and Food Analysis (MSC013403)
Thursday 09/01/2025	SCT-A	80	A) Environmental Chemical Analysis (MSC013408)
	SCT-B	81	OR B) Pharmaceutical Analysis (MSC013409)

<b>Inorganic Chemistry Sem – III (w.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00 a.m. to 2:00 p.m
Wednesday 01/01/2025	HCT3.1	81	Inorganic Chemical Spectroscopy (MSC14301)
Friday 03/01/2025	HCT3.2	82	Co-ordination Chemistry – I (MSC14302)
Monday 06/01/2025	SCT3.1	83	Nuclear Chemistry (MSC14306)
	SCT 3.2	84	OR Separation Science (MSC14307)
Saturday 11/01/2025	OET	-	[Choose from list]

<b>Inorganic Chemistry Sem – IV (New w.e.f. Nov 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m. to 6:00 p.m
Thursday 02/01/2025	HCT 401	85	Instrumental Techniques (MSC14401)
Saturday 04/01/2025	HCT 402	86	Co-ordination Chemistry-II (MSC14402)
Tuesday 07/01/2025	HCT 403	87	Chemistry of Inorganic Materials (MSC14403)
Thursday 09/01/2025	SCT 404A	88	A) Applied Inorganic Chemistry (MSC14408)
	SCT 404B	89	OR Bioinorganic Chemistry (MSC14409)

<b>Pharmaceutical Chemistry Sem – III (New w.e.f. June 2024)</b> (NEP CBCS Pattern-2023)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00 a.m.to 1:30 p.m
Wednesday 01/01/2025	DSC-5	90	Advanced Spectroscopic Methods (2303301)
Friday 03/01/2025	DSC-6	91	Drug Development (2303302)
Monday 06/01/2025	DSE-3	92	A) Modern Pharmaceutical Analytical Techniques (2303306)
		93	OR B) Biochemistry (2303307)

<b>Pharmaceutical Chemistry Sem – III (w.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Wednesday 01/01/2025	HCT3.1	94	Advanced Organic Chemistry-I (MSC012301)
Friday 03/01/2025	HCT3.2	95	Chemistry of Bioactive Heterocycles (MSC012302)
Monday 06/01/2025	SCT3.1	96	C) Drug Development(MSC012306)
		97	OR D) Biochemistry(MSC012307)
Saturday 11/01/2025	OET	-	[Choose from list]

<b>Pharmaceutical Chemistry Sem – IV (New w.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m
Thursday 02/01/2025	HCT-401	98	Photochemistry and Pericyclic Reactions (MSC012401)
Saturday 04/01/2025	HCT-402	99	Advanced Organic Chemistry-II(MSC012402)
Tuesday 07/01/2025	HCT-403	100	Pharmaceutical Dosage Forms(MSC012403)
Thursday 09/01/2025	SCT4.1	101	A) Pharmaceutical Technology(MSC012408)
	SCT4.2	102	OR B) Industrial Pollution and Control(MSC012409)

<b>MEDICINL CHEMISTRY Sem – III (Neww.e.f. June 2024)</b> <b>(NEP CBCS Pattern-2023)</b>			
Day &Date	Paper No.	Sr. No.	Subject <b>Time: 11:00a.m.to 1:30p.m</b>
Wednesday 01/01/2025	DSC-5	103	Advanced Spectroscopic Methods (2327301)
Friday 03/01/2025	DSC-6	104	Drug Development (2327302)
Monday 06/01/2025	DSE-3	105 106	A) Advanced Organic Chemistry (2327306) OR B) Biochemistry (2327307)

<b>MEDICINL CHEMISTRY Sem – III (w.e.f. June 2021)</b> <b>(CBCS Pattern-2020) (Old up to MAR-2025)</b>			
Day &Date	Paper No.	Sr. No.	Subject <b>Time: 11:00a.m.to 2:00p.m</b>
Wednesday 01/01/2025	HCT-3.1	107	Advanced Organic Chemistry – I (MSC08301)
Friday 03/01/2025	HCT-3.2	108	Chemistry of Bioactive Heterocycles (MSC08302)
Monday 06/01/2025	SCT3.1 SCT3.2	109 110	A) Photochemistry and Pericyclic Reactions (MSC08306) OR B) Drug Development(MSC08307)
Saturday 11/01/2025	OET	-	[Choose from list]

<b>MEDICINL CHEMISTRY Sem – IV (New w.e.f. June 2021)</b> <b>(CBCS Pattern-2020)</b>			
Day &Date	Paper No.	Sr. No.	Subject <b>Time: 3:00 p.m.to 6:00p.m</b>
Thursday 02/01/2025	HCT-4.1	111	Pharmaceutical Dosage Forms (MSC08401)
Saturday 04/01/2025	HCT-4.2	112	Modern Organic Chemistry (MSC08402)
Tuesday 07/01/2025	HCT-4.3	113	Drug Regulatory Affairs (MSC08403)
Thursday 09/01/2025	SCT4.1 SCT4.2	114 115	A) Medicinal Chemistry (MSC08408) OR B) Pharmaceutical Technology (MSC08409)

Please visit -<http://su.digitaluniversity.ac>

Ref No.: PAHSUS/EXAM/TIME-TABLE/2024/45

Date: 04/01/2025

Sd/-

Director

Board of Examinations and Evaluation