



# PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

## EXAM OF 2024 SEMESTER PATTERN EXAMINATION

### DRAFT 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 MAR./APR-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 immediately. 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-2016 the persons with Disabilities are given 20 minutes extra for one per hour for the Online/Offline exam. (केंद्र शासनाच्या अपंग व्यक्ती अधिकार अधिनियम २०१६ मधील तरतूदीनुसार अपंग विद्यार्थ्यांना ऑनलाईन व ऑफलाईन परीक्षेमध्ये सर्वसाधारण विद्यार्थ्यांपेक्षा १ तासाला कमीतकमी २० मिनीट इतका वेळ वाढवून देण्यास सर्वानुमते मान्यता देण्यात आली.)

Sr. No.	Center	College Abbreviation	Place
1	Solapur	PAHSUS	University Campus
2		DBF	D.B.F. Dayanand College of Arts & Science
3	Pandharpur	KBP	KarmveerBhauraoPatilMahavidhyalaya
4	Barshi	SMB	Shri ShivajiMahavidhyalaya
5	Sangola	SANG	Sangola College, Sangola
6	Wadala	LOK	Lokmangal Science and Entrepreneurship College
7	AKKALKOT	CBK	C.B.Khedgi's College

[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.
Monday 22/04/2024	DSC 1	1	Physical Chemistry –I(2324101/2325101/2326101/2327101) (2302101/2303101/2304101/2305101)
Wednesday 24/04/2024	DSC 2	2	Organic Chemistry– I (2324102/2325102/2326102/2327102) (2302102/2303102/2304102/2305102)
Friday 26/04/2024	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)
Monday 29/04/2024	RM	6	Research Methodology (2324103/2325103/2326103/2327103) (2302103/2303103/2304103/2305103)

[1]Organic Chemistry	[2]Industrial Chemistry	[3]Polymer Chemistry	
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<b>Sem-I (w.e.f. June2020)</b> (CBCSPattern-2020) (Old up to MAR.-2024)			
Day & Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m.
Monday 22/04/2024	HCT-101	7	Inorganic Chemistry –I(MSC05101)
Wednesday 24/04/2024	HCT-102	8	Organic Chemistry–I(MSC05102)
Friday 26/04/2024	HCT-103	9	Physical Chemistry –I(MSC05103)
Monday 29/04/2024	SCT-104A	10	A) Analytical Chemistry– I(MSC05108)
	SCT-104B	11	OR B) Chemistry in Life Sciences(MSC05109)

[1]Organic Chemistry	[2]Industrial Chemistry	[3]Polymer Chemistry	
[4]Physical Chemistry	[5]Analytical Chemistry	[6]Inorganic Chemistry	
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<b>Sem-II(New w.e.f.Nov2023) (NEP CBCSPattern-2023)</b>			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 1:30 p.m
Saturday 20/04/2024	DSC-3	12	Physical Chemistry -II (2326201/2325201/2324201/2302201/2304201/ 2305201/2303201/2327201)
Tuesday 23/04/2024	DSC-4	13	Organic Chemistry -II (2326202/2325202/2324202/2302202/2304202/ 2305202/2303202/2327202)
Thursday 25/04/2024	DSE-2	14	A) Inorganic Chemistry -II (2326207/2325207/2324207/2302207/2304207/ 2305207/2303207/2327207)
		15	B) Green Chemistry (2326208/2325208/2324208/2302208/2304208/ 2305208/2303208/2327208)
		16	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) (CBCSPattern-2020) (Old up to OCT.2024)</b>			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00 p.m.
Saturday 20/04/2024	HCT-201	17	Inorganic Chemistry –II(MSC05201)
Tuesday 23/04/2024	HCT-202	18	Organic Chemistry –II (MSC05202)
Thursday 25/04/2024	SCT-203	19	A) Physical Chemistry–II MSC05206)
	SCT-204	20	B) Green Chemistry (MSC05207)
Thursday 02/05/2024	OET	---	[Choose from list]

<b>Organic Chemistry Sem– III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 22/04/2024	HCT 301	21	Advanced Organic Chemistry – I (MSC07301)
Wednesday 24/04/2024	HCT302	22	Chemistry of Bioactive Heterocycles (MSC07302)
Friday 26/04/2024	SCT301	23	A) Photochemistry and Pericyclic Reactions (MSC07306)
	SCT302	24	OR B) Drug Development (MSC07307)
Friday 03/05/2024	OET	--	[Choose from list]

<b>Organic 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.
Saturday 20/04/2024	HCT 401	25	Advanced Organic Chemistry –II (MSC07401)
Tuesday 23/04/2024	HCT 402	26	Modern Organic Chemistry (MSC07402)
Thursday 25/04/2024	HCT 403	27	Chemistry of Natural Products (MSC07403)
Saturday 27/04/2024	SCT 404A	28	A) Medicinal Chemistry (MSC07408)
	SCT 404B	29	OR B) Pharmaceutical Technology (MSC07409)

<b>Industrial Chemistry Sem– III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 22/04/2024	HCT 301	30	Unit operations of chemical Engineering (MSC06301)
Wednesday 24/04/2024	HCT302	31	Unit processes in Chemical technology (MSC06302)
Friday 26/04/2024	SCT301	32	Instrumental Analysis-I (MSC06307)
		33	OR Instrumental Analysis –II (MSC06308)
Friday 03/05/2024	OET	--	[Choose from list]

<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
Saturday 20/04/2024	HCT 401	34	Chemical Industries (MSC06401)
Tuesday 23/04/2024	HCT 402	35	Pollution Monitoring and Control(MSC06402)
Thursday 25/04/2024	HCT 403	36	Nanomaterial and its Characterization(MSC06403)
Saturday 27/04/2024	SCT 404A	37	A) Industrial Management and Material Balance (MSC06408)
	SCT 404B	38	OR B) Advanced Topics in Industrial Chemistry-II (MSC06409)

<b>Polymer Chemistry Sem – III(Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 22/04/2024	HCT 301	39	Fundamentals of Feedstocks and Polymers (MSC05301)
Wednesday 24/04/2024	HCT302	40	Morphology and Physical Chemistry of Polymers (MSC05302)
Friday 26/04/2024	SCT301	41	A) Basic Concepts of Polymerization (MSC05306)
	SCT302	42	OR B) Natural and Synthetic Textile fibers and Resins (MSC05307)
Friday 03/05/2024	OET	--	[Choose from list]

<b>Polymer 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
Saturday 20/04/2024	HCT 401	43	Step-growth Polymers (MSC05401)
Tuesday 23/04/2024	HCT 402	44	Stereoregular Polymers and Modern Polymerisation Methods(MSC05402)
Thursday 25/04/2024	HCT 403	45	Selected Topics in Polymers(MSC05403)
Saturday 27/04/2024	SCT 401	46	A) Processing Technology and Polymer Properties (MSC05408)
	SCT 402	47	OR B) Inorganic and Biopolymers(MSC05409)

<b>Physical Chemistry Sem – III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 22/04/2024	HCT3.1	48	Quantum Chemistry (MSC11301)
Wednesday 24/04/2024	HCT3.2	49	Electrochemistry (MSC11302)
Friday 26/04/2024	SCT3.1	50	Molecular Structure-I (MSC11306)
	SCT 3.2	51	OR Biophysical Chemistry (MSC11307)
Friday 03/05/2024	OET	--	[Choose from list]

<b>Physical 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
Saturday 20/04/2024	HCT 401	52	Statistical Mechanics and Irreversible Thermodynamics (MSC11401)
Tuesday 23/04/2024	HCT 402	53	Chemical Kinetics (MSC11402)
Thursday 25/04/2024	HCT 403	54	Molecular Structure-II (MSC11403)
Saturday 27/04/2024	SCT 404A	55	A) Surface Chemistry (MSC11408)
	SCT 404B	56	OR B) Chemistry of Materials (MSC11409)

<b>Analytical Chemistry Sem– III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00 p.m.to 2:00p.m
Monday 22/04/2024	HCT3.1	57	Advance Separation Techniques (MSC013301)
Wednesday 24/04/2024	HCT3.2	58	Instrumental Methods of Analysis- I (MSC013302)
Friday 26/04/2024	SCT3.1	59	Applied Analytical Chemistry (MSC013306)
	SCT3.2	60	OR Analysis of Commercial Materials (MSC013307)
Friday 03/05/2024	OET	--	[Choose from list]

<b>Analytical 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
Saturday 20/04/2024	HCT 401	61	Advanced Analytical Techniques (MSC013401)
Tuesday 23/04/2024	HCT 402	62	Instrumental Methods of Analysis-II (MSC013402)
Thursday 25/04/2024	HCT 403	63	Biochemical and Food Analysis(MSC013403)
Saturday 27/04/2024	SCT-A	64	A) Environmental Chemical Analysis (MSC013408)
	SCT-B	65	OR B) Pharmaceutical Analysis(MSC013409)

<b>Inorganic Chemistry Sem – III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day & Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 22/04/2024	HCT3.1	66	Inorganic Chemical Spectroscopy (MSC14301)
Wednesday 24/04/2024	HCT3.2	67	Co-ordination Chemistry – I (MSC14302)
Friday 26/04/2024	SCT3.1	68	Nuclear Chemistry (MSC14306)
	SCT 3.2	69	OR Separation Science (MSC14307)
Friday 03/05/2024	OET	-	[Choose from list]

<b>Inorganic 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
Saturday 20/04/2024	HCT 401	70	Instrumental Techniques (MSC14401)
Tuesday 23/04/2024	HCT 402	71	Co-ordination Chemistry-II(MSC14402)
Thursday 25/04/2024	HCT 403	72	Chemistry of Inorganic Materials(MSC14403)
Saturday 27/04/2024	SCT 404A	73	A) Applied Inorganic Chemistry(MSC14408)
	SCT 404B	74	OR Bioinorganic Chemistry(MSC14409)

<b>Pharmaceutical Chemistry Sem – III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
<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>Monday</b> <b>22/04/2024</b>	HCT3.1	75	Advanced Organic Chemistry-I (MSC012301)
<b>Wednesday</b> <b>24/04/2024</b>	HCT3.2	76	Chemistry of Bioactive Heterocycles(MSC012302)
<b>Friday</b> <b>26/04/2024</b>	SCT3.1	77	A) Drug Development(MSC012306)
	SCT3.2	78	OR B) Biochemistry(MSC012307)
<b>Friday</b> <b>03/05/2024</b>	OET	-	[Choose from list]

<b>Pharmaceutical Chemistry Sem – IV (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
<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>Saturday</b> <b>20/04/2024</b>	HCT-401	79	Photochemistry and Pericyclic Reactions (MSC012401)
<b>Tuesday</b> <b>23/04/2024</b>	HCT-402	80	Advanced Organic Chemistry-II(MSC012402)
<b>Thursday</b> <b>25/04/2024</b>	HCT-403	81	Pharmaceutical Dosage Forms(MSC012403)
<b>Saturday</b> <b>27/04/2024</b>	SCT4.1	82	A) Pharmaceutical Technology(MSC012408)
	SCT4.2	83	OR B) Industrial Pollution and Control(MSC012409)



<b>MEDICINL CHEMISTRY Sem – III (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day &Date	Paper No.	Sr. No.	Subject Time: 11:00a.m.to 2:00p.m
Monday 22/04/2024	HCT-3.1	84	Advanced Organic Chemistry – I (MSC08301)
Wednesday 24/04/2024	HCT-3.2	85	Chemistry of Bioactive Heterocycles (MSC08302)
Friday 26/04/2024	SCT3.1	86	A) Photochemistry and Pericyclic Reactions (MSC08306)
	SCT3.2	87	OR B) Drug Development(MSC08307)
Friday 03/05/2024	OET	-	[Choose from list]

<b>MEDICINL CHEMISTRY Sem – IV (Neww.e.f. June 2021)</b> (CBCS Pattern-2020)			
Day &Date	Paper No.	Sr. No.	Subject Time: 3:00 p.m.to 6:00p.m
Saturday 20/04/2024	HCT-4.1	88	Pharmaceutical Dosage Forms (MSC08401)
Tuesday 23/04/2024	HCT-4.2	89	Modern Organic Chemistry (MSC08402)
Thursday 25/04/2024	HCT-4.3	90	Drug Regulatory Affairs (MSC08403)
Saturday 27/04/2024	SCT4.1	91	A) Medicinal Chemistry (MSC08408)
	SCT4.2	92	OR B) Pharmaceutical Technology (MSC08409)

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Ref No.: PAHSUS/EXAM/TIME-TABLE/2024/575

Date: 12/03/2024

Sd/-

**Ag. Director**

Board of Examinations and Evaluation