

**SCHEME
OF
EXAMINATION**

Under Choice Based Credit System (CBCS)

For

M.Sc. (Industrial Chemistry)- 2 Years

(w.e.f. Session 2019-20)



**UTTARANCHAL UNIVERSITY,
DEHRADUN**

Evaluation Scheme (CBCS system)**(w. e. f. Session 2019-20)**

SEMESTER-I						
S.N.	Paper Code	Subject	L-T-P	Credit	Max Marks	
					Ext.	Int.
1.1	MICH-101	Analytical & Separation Techniques	4-0-0	4	60	40
1.2	MICH-102	Inorganic Chemistry	4-0-0	4	60	40
1.3	MICH-103	Organic Chemistry	4-0-0	4	60	40
1.4	MICH-104	Physical Chemistry	4-0-0	4	60	40
1.5	MICH-105	Computer for Chemists	2-0-0	2	60	40
1.6	PICH-101	Analytical Chem Lab	0-0-4	2	60	40
1.7	PICH-102	Inorganic Chem Lab	0-0-4	2	60	40
1.8	PICH-103	Organic Chem Lab	0-0-4	2	60	40
1.9	PICH-104	Physical Chem Lab	0-0-4	2	60	40
2.0	PICH-105	Computer for Chemists Lab	0-0-2	1	60	40
Total for I sem			18-0-18	27	1000	
SEMESTER-II						
S.N.	Paper Code	Subject	L-T-P	Credit	Max Marks	
					Ext.	Int.
2.1	MICH-201	Advance Analytical Techniques	4-0-0	4	60	40
2.2	MICH-202	Advanced Inorganic Chemistry	4-0-0	4	60	40
2.3	MICH-203	Advanced Organic Chemistry	4-0-0	4	60	40
2.4	MICH-204	Advanced Physical Chemistry	4-0-0	4	60	40
2.5	MICH-205	Essential Mathematics & Bio stats	4-0-0	4	60	40
2.6	PICH-201	Advanced Analytical Lab	0-0-4	2	60	40
2.7	PICH-202	Advanced Inorganic Chemistry Lab	0-0-4	2	60	40
2.8	PICH-203	Advanced Organic Chemistry Lab	0-0-4	2	60	40
2.9	PICH-204	Advanced Physical Chemistry lab	0-0-4	2	60	40
Total for II sem			20-0-16	28	900	

SEMESTER-III						
S.N.	Paper Code	Subject	L-T-P	Credit	Max Marks	
					Ext.	Int.
3.1	MICH-301	Polymer Chemistry	4-0-0	4	60	40
3.2	MICH-302	Pharmaceuticals Chemistry	4-0-0	4	60	40
3.3	MICH-303	Elective-1	4-0-0	4	60	40
3.4	MICH-304	Elective –II	4-0-0	4	60	40
3.5	PICH-301	Polymer Chemistry Lab	0-0-4	2	60	40
3.6	PICH-302	Pharmaceuticals Chemistry Lab	0-0-4	2	60	40
3.7	PICH-303	Elective-I Lab	0-0-4	2	60	40
3.8	PICH-304	Elective-II Lab	0-0-4	2	60	40
3.9	PICH-305	Seminar Based on Industrial Training	0-0-2	1	00	50
Total for III sem			16-0-18	25	850	
SEMESTER-IV						
S.N.	Paper Code	Subject	L-T-P	Credit	Max Marks	
					Ext.	Int.
4.1	MICH-401	Open Elective	4-0-0	4	60	40
4.2	MICH-402	Special Elective –III	4-0-0	4	60	40
4.3	MICH-403	Special Elective –IV	4-0-0	4	60	40
4.4	PICH-402	Special Elective – Lab	0-0-4	2	60	40
4.3	PICH-402	Project Work	0-0-12	6	200	100
Total for IV Sem			12-0-16	20	700	
Grand Total for all Semesters					100	3450

Elective I for III Sem

- Sugar, Pulp & starch Industry
- Nanotechnology
- Heavy and Fine Chemical Industry
- Any other Paper

Elective II for III Sem

- Environmental & Green Chemistry
- Petroleum Chemistry and Agrochemical
- Bioinorganic, Bioorganic & Biophysical Chemistry
- Any other Paper

Open Elective for IV Sem

- Total Quality Management
- Analytical Chemistry
- Advances in Ion Exchange
- Renewable Energy and Energy Harvesting (Approved by Dept of Physics)
- Any Other Paper

Special Elective (III & IV) for IV Sem

- Food Science & Biotechnology
- Fertilizer cement & Ceramics
- Stock Preparation and pulping Techniques
- Paper making and Finishing
- Any Other Paper

