CURRICULUM AND ITS RELEVANCE TO LOCAL /NATIONAL /REGIONAL/GLOBAL NEEDS

M.Sc. Chemistry Course Details

Paper Code	Paper Name	Local/Regional/National/Global	Description need for student
MSCCH E-101	INORGANIC CHEMISTRY-1	National	Covers periodic properties and bonding. Includes transition metals and their coordination chemistry.
MSCCH E-102	ORGANIC CHEMISTRY-1	National	Explores reaction mechanisms in organic chemistry. Covers stereochemistry and functional group transformations.
MSCCH E-103	PHYSICAL CHEMISTRY-1	National	Introduces thermodynamics and kinetics. Discusses molecular interactions and quantum mechanics basics.
MSCCH E-PR-01	PRACTICAL-1	National	Lab experiments covering inorganic, organic, and physical chemistry. Focuses on synthesis and analytical techniques.
MSCCH	ANALYTICAL	National	Covers classical
	MSCCH E-102 MSCCH E-103 MSCCH E-103	MSCCH E-101 INORGANIC CHEMISTRY-1 MSCCH E-102 CHEMISTRY-1 MSCCH E-103 PHYSICAL CHEMISTRY-1 MSCCH E-103 PRACTICAL-1 E-PR-01	MSCCH E-101 INORGANIC CHEMISTRY-1 National MSCCH E-102 CHEMISTRY-1 National MSCCH E-103 PHYSICAL CHEMISTRY-1 MSCCH E-103 PRACTICAL-1 National MSCCH E-103 PRACTICAL-1 National

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	E-201	CHEMISTRY		and instrumental
				analysis
				techniques.
				Includes
				chromatography,
				spectroscopy, and
				titrations.
6	MSCCH	GROUP	National	Explores
	E-202	THEORY &		molecular
		SPECTROSCOP		symmetry and
		Y		group theory.
				Discusses
				applications in
				spectroscopy and
				quantum
			The state of the s	chemistry.
7	MSCCH	PHYSICAL	National	Covers
/	E-203	CHEMISTRY-2	Ivalional	
	E-203	CHEWIISTRY-2		electrochemistry
	,			and surface
				chemistry.
	150000000000000000000000000000000000000	annual	A LOND BY THE PARTY OF THE PART	Discusses
	STATE OF THE PARTY		CONTRACTOR OF THE PARTY OF THE	catalysis and
	10 17 3 B		外公益1130年0月	advanced
	Sales Contract	Consumited by Paris 1995	AND A STATE OF THE	thermodynamics.
8	MSCCH	PRACTICAL-2	National	Advanced
	E-PR-02			laboratory
			18.00	techniques in
			The second secon	spectroscopy and
				chromatography.
		-14. 1	the second second	Focus on
		The state of the s	The second second	quantitative
		700.0	of the second	analysis.
9	MSCCH	APPLICATION	National	Studies
	E-301	S OF	1 million	spectroscopic
	2 301	SPECTROSCOP)	techniques like
	1	Y		
		1		NMR, IR, and
				UV. Applications
				in structural
1.6				determination.
10	MSCCH	ENVIRONMEN	Global	Focuses on
	E-302	TAL		pollution control
		CHEMISTRY		and green
				chemistry. Covers
				climate change
				and sustainable
	1	11.14		

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1.1	MOCCIT	DIO	N	T
11	MSCCH	BIO-	National	Explores
	E-303	CHEMISTRY		biomolecules like
1				proteins and
				nucleic acids.
				Discusses
				enzymatic
				reactions and
				metabolism.
12	MSCCH	PRACTICAL-3	National	Hands-on
	E-PR-03			experiments in
•				biochemistry and
				environmental
				chemistry. Focus
				on analytical
12	MOCCOLL	DITAGLOAT		techniques.
13	MSCCH	PHYSICAL	National	Covers statistical
	E-401A	CHEMISTRY -		mechanics and
		III		molecular
			The little was the little with the little was the l	simulations.
				Includes quantum
	Witness Address Witness			mechanics
	150004.00		Contract the Contract of the C	applications.
14	MSCCH	PHYSICAL	National	Studies
	E-402A	CHEMISTRY -	Company of the State of the Sta	photochemistry
		IV		and solid-state
				chemistry.
				Includes
				spectroscopy and
				reaction
			and the same	dynamics.
15	MSCCH	PROJECT	National	
13	The second secon	The second secon	National	Research-based
	E-403A	WORK	A Abrella	project in
			and the second	chemistry.
	益 集下水			Develops
				problem-solving
				and analytical
				skills.
16	MSCCH	PRACTICAL-	National	Lab experiments
	E-PR-	4A		on advanced
	04A			physical
				chemistry
				concepts.
				Includes surface
			WERG	and colloidal
			(K) & (K)	chemistry.
17	MSCCH	INORGANIC	National	Studies 1
1/	MISCOIL	HOROMIC	IVALIOITAL .	Studies

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	T 1015	CITED TO THE		
	E-401B	CHEMISTRY-II		coordination
				chemistry and
				organometallics.
				Applications in
				catalysis and
				bioinorganic
				chemistry.
18	MSCCH	INORGANIC	National	Covers
	E-402B	CHEMISTRY -		lanthanides,
3		III		actinides, and
				solid-state
				chemistry.
				Discusses
				advanced
			20 4620	inorganic
			A STATE OF THE PARTY OF THE PAR	materials.
19	MSCCH	PROJECT	National	
1)	E-403B	WORK	National	Independent
	E-403B	WORK	THE RESERVE OF THE PERSON OF T	research on
			THE PERSON NAMED IN	inorganic
				chemistry.
	Tankson same			Develops
	A STATE OF THE STA		10 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	experimental and
20) (CCCCV	DD I CTVC I V	The second second	analytical skills.
20	MSCCH	PRACTICAL-	National	Hands-on
	E-PR-	4B		experiments in
	04B	NA WAY		inorganic
		W. W.	material of the State	chemistry.
				Includes synthesis
		THE TOTAL	The second second	and
			Section 18 Provided in the Section 18 Provided i	characterization
		The state of the s	The second second	techniques.
21	MSCCH	ORGANIC	National	Discusses
	E-401C	CHEMISTRY -II	The state of the s	pericyclic and
				photochemical
	,			reactions. Covers
				advanced
				synthetic
				strategies.
22	MSCCH	ORGANIC	National	Explores natural
	E-402C	CHEMISTRY -		products and
		III		heterocyclic
		***		chemistry.
				Applications in
				pharmaceuticals and materials
				I UDO DOLOTOLO
			a P.C.	science.

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23	MSCCH E-403C	PROJECT WORK	National	Research-based work in organic chemistry. Focus on modern synthetic methods.
24	MSCCH E-PR- 04C	PRACTICAL- 4C	National	Lab-based experiments in organic synthesis. Includes isolation and purification techniques.





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