Stereochemistry & Reaction Advanced Integrated Course Type Cou					Curriculum IV	i.sc. Chemistry				
Signature Course Course					Semo	ester-I				
Si, No Course Code Course L										
Secrookemistry	Sl. No	Course Code		L	Т	P	c			
MSCH 5001 mechanisms			& Reaction							Course Typ (Theory/ Integrated Comprehens
Sino Course Code Congress of Physical Chemistry			Advanced Inorganic Chemistry and						(Theory/ Integrated/ Comprehensive/	Workshop
MBS24T1101 Chemistry 3	2		Basic Concepts	4	0	0	4	Credit	Workshop)	Theory
A	3	MBS24T1101	Chemistry	3	0	0	3		Theres	Madaka
SINo	4	MDC24T1102	Basic Analytical	2			2	'	Theory	Workshop
Applications for chemistry	4	VIBS2411102	Cnemistry		U	U	5	0	Workshop	Integrated
Computer Computer Applications for chemistry Lab - I 0 0 0 4 2 3 Integrated	5		Applications for	2	0	0	2			
SINo Course Code Name of the Course Code Course Co				<u>~</u>	v		-	5	Integrated	Integrated
NSCH 5007 Inorganic Computer Computer Applications for Computer Applications for Computer Applications for Computer Applications for Computer Computer Applications for Computer	6	MSCH 5006	chemistry Lab – I	0	0	4	2			
Name of the Course Code Name of the Code Name	7	MSCH 5007	Inorganic	0	0	4	2	5	Integrated	Integrate
MSCH 5031 chemistry Lab 0 0 2 1 6 Comprehensive Comprehens	,		Computer		V	·		3	Integrated	Integrated
Laboratory Operation Techniques	8			0	0	2	1			
Total 16 0 10 21	11		Operation				0	6	Comprehensive	Comprehen:
Semester-II	11	VIDSCETTOOT	reciniques					0	Workshop	Comprehen
Name of the Course Code Name of the Course L T P C 4 Integrated			Total	16	0	10	21			
Name of the Course Code Name of the Course L T P C 4 Integrated				Somo	stor-II					
SI No Course Code Course L T P C A Integrated I MSCH 5008 Spectroscopy 4 0 0 0 4 Reaction mechanism and Basics of group theory 3 0 0 0 3				Seille	····			1	Theory	Course Ty (Theory/ Integrated Comprehens
SI No Course Code Course L T P C			Name of the					4	Theory	Worksho
1 MSCH 5008 Organic Spectroscopy 4 0 0 4 Reaction mechanism and Basics of group to theory 3 Theory 3 Theory	Sl No	Course Code		L	Т	P	С	,	I-4	TI.
Reaction mechanism and Basics of group theory 3 0 0 3 Theory	1			4	0	0	4	4	integrated	Theory
2 MBS24T1103 theory 3 0 0 3	•		Reaction mechanism and		V			3	Theory	Theory
3 Integrated	2			3	0	0	3		Intertd	Int
Physical 0 0 4 4 3 MSCH 5024 Chemistry-II 4 0 0 4			Physical					3	integrated	Integrated

							5	Integrated	Integrated
		Techniques in Analytical							
4	MBS24T1104	Chemistry	3	0	0	3			
							0	Workshop	Integrated
5	MSCH 5012	Physical chemistry Lab – I	0	0	4	2			
<i>J</i>	1115011 5012	chemistry Lau – 1	•		7				Integrated
									-
		Analytical							
6	MSCH 5013	chemistry Lab – I	0	0	4	2	3		lete eneted
							3		Integrated
		Professional							
7	MLLUCT1001	Communication	1	0	4	3			
							1		Comprehensive
		Dacaarah							
8	MBS28T2111	Research Methodology	2	0	0	2			
· · ·	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Creativity,		-			3		
		Innovation and							
0	MI ELICTIOO2	Entrepreneurship	1	0		1			
9	MLEUCT1003	& IPR	1	0	0	1	1		Course Type
		Computational							(Theory/
		and Graphical							Integrated/ Comprehensive
10		Tools				0			Workshop)
							4		
		Total	18	0	12	24			
							3		Theory
			1		1				
			Semes	ter-III					
			Semes	ter-III			3		Theory
			Semes	ter-III			3		Theory
			Semes	ter-III			3		Theory
			Semes	ter-III			3		Theory
			Semes	ter-III					
SI No.	Course Code	Name of the			D	C			
SI No	Course Code	Name of the Course	Semes	ter-III	P	С	2		Theory
SI No	Course Code				P	С			
		Course	L	Т			2		Theory
Sl No	Course Code MBS24P3000				P	C	2		Theory
		Course	L	Т			2		Theory
		Course	L	Т			2		Theory
		Course	L	Т			0		Theory Integrated Integrated
		Project (Phase-I)	L	Т		10	2		Theory
		Project (Phase-I)	L	Т		10	0		Theory Integrated Integrated
		Project (Phase-I)	L	Т		10	0		Theory Integrated Integrated
		Project (Phase-I)	L 0	Т		10	0		Integrated Integrated Integrated
		Project (Phase-I)	L 0	Т		10	0		Integrated Integrated Integrated
		Project (Phase-I) Total	L 0	T		10	0		Integrated Integrated Integrated
		Project (Phase-I) Total	L 0	T		10	0 3		Integrated Integrated Integrated Comprehensive
		Project (Phase-I) Total	L 0	T		10	0		Integrated Integrated Integrated Comprehensive
		Project (Phase-I) Total	L 0	T		10	0 3		Integrated Integrated Integrated Comprehensive
		Project (Phase-I) Total	L 0	T		10	3		Integrated Integrated Integrated Comprehensive
		Project (Phase-I) Total	L 0	T		10	0 3		Integrated Integrated Integrated Comprehensive
		Project (Phase-I) Total Or	L 0	T		10	3		Integrated Integrated Integrated Comprehensive
		Project (Phase-I) Total	L 0	T		10	3		Integrated Integrated Integrated Comprehensive
1	MBS24P3000	Project (Phase-I) Total Or	L Semester-IV ganic Specializati	T 0	0	10	3		Theory Integrated Integrated Integrated Comprehensive
1	MBS24P3000	Project (Phase-I) Total Or	L Semester-IV ganic Specializati	T 0	0	10	2 0 3 1		Integrated Integrated Integrated Comprehensive

3 Reagents and Heterocyclic MSCH6002 Chemistry 4 0 0 4 Integrated Chemistry of Natural Products and MSCH6003 Retrosynthesis 0 0 4 Integrated 0 MBS24TXXX (Elective) 0 0 3 3 0 Integrated Organic chemistry Lab – 5 MSCH 6005 0 0 4 8 Integrated MBS24P3001 Project Phase II 0 0 0 4 Integrated Campus to MLLUCT1003 Corporate 3 0 0 3 Comprehensive Start up, Innovation, Incubation and Entrepreneurship 0 0 Comprehensive Total 18 0 25 InOrganic Specialization Credit Course Type (Theory/ Integrated/ 4 Name of the Comprehensive/ Workshop) Sl No Course Code Course T P 3 Organometallic MSCH 6006 Chemistry 1 4 0 0 4 Theory Spectroscopic techniques in Inorganic MSCH 6012 Chemistry 0 0 4 Theory Bio-Inorganic MSCH 6009 Chemistry 0 0 3 Integrated MBS24TXXX (elective) 3 0 0 3 Integrated Inorganic chemistry Lab – II MSCH 6010 0 0 8 4 Integrated 6 MBS24P3001 Project Phase II 0 0 0 3 0 Campus to MLLUCT1003 Corporate 3 0 0 3

		Start up, Innovation, Incubation and Entrepreneurship	0			0		Course Type (Theory/ Integrated/ Comprehensive/
		Entrepreneursing					3	Workshop)
		Total	18	0	8	25		
		DL	orical Superializati				3	Theory
		rny	sical Specializati	ion			1	Theory
Sl No	Course Code	Name of the Course						
							4	Theory
			L	T	P	С	3	Theory
1	MSCH6021	Applied Electrochemistry	4	0	0	4	3	Theory
1	17150110021	Chemical	· ·	,		7	1	Integrated
2	MSCH6022	Kinetics and Surface Chemistry	4	0	0	4		
	WISCHOOZZ	Chemistry		· ·	0	4	4	Project
		Molecular						
3	MSCH6023	Spectroscopy	4	0	0	4	3	
4	MBS24TXXX	(Elective)	3	0	0	3		
							0	
5	MSCH6025	Physical chemistry Lab –II	0	0	8	4		
-			·	-				
	MDC24D2001	D : (D) H	0					
6	MBS24P3001	Project Phase II	0	0	0	3		Course Type
	MLLUCT1003	Campus to Corporate	3	0	0	3		(Theory/ Integrated/ Comprehensive/ Workshop)
		Start up, Innovation,					Credit	
		Incubation and Entrepreneurship	0			0		
		реголомир	~				3	Theory
		Total	10	0	0	25		
		Total	18	0	8	25	4	Theory
			• *	pecialization				Theory
Sl No	Course Code	Name of the Course	L	Т	P	C		
51 140	Course Code	Course	L	1	Г			Integrated
		Electroanalytical						
1	MSCH6031	methods	4	0	0	4		Integrated
		Quality control						
2	MSCH6032	and quality assurance	4	0	0	4		

	1				ı	1			
							Credit		
		Advanced							
,	MSCH6033	Instrumentation methods	4	0	0	4			
3	МЗСПООЗЗ	methous	4	0	0	4	4	Course Type	
							4	(Theory/	
								Integrated/	
4	MBS24TXXX	(Elective)	3	0	0	3		Comprehensive/	
4	WIB5241AAA	(Elective)	3	0	0	3	3	Workshop)	
							3		
				ļ					
7	MSCH6034	Analytical chemistry Lab -II	0	0	8	4			
	WISCH0034	Chemistry Lab -11	0	0	0	4	4	Theory	
							4	Theory	
				ļ					
	MDC24D2001	Dania at Dhana II				2			
6	MBS24P3001	Project Phase II	0	0	0	3	0	Theres	
				ļ			3	Theory	
	NELLICE LOGS	Campus to				2			
	MLLUCT1003	Corporate	3	0	0	3	_		
		Start up,		ļ			3	Theory	
		Innovation,							
		Incubation and							
		Entrepreneurship	0			0			
			į				1	Integrated	
		Total	18	0	8	25			
	VSBA5001	Academic Report	Value-added	2	0	0	0	Integrated	
		writing and		ļ					
		Funding Opportunities		ļ					
List of Electives		Оррогинись		ļ					
					•	•		Project	
			I						
			I						
			I						
							4		
		Name of the							
SI No	Course Code	Electives	L	T	P	C			
					_		1	+	
				ļ					
		Dalumar							
1	MBS24T5101	Polymer chemistry	3	0	0	3			
1	WID52413101	Chemistry			0	3	3	+	
			ı	į		Ì			
		1							
2		Industrial							
	MRS24T5102	Industrial	2	0	0	2			
<u></u>	MBS24T5102	Industrial chemistry	3	0	0	3	A		
2	MBS24T5102		3	0	0	3	4		
	MBS24T5102	chemistry	3	0	0	3	4		
		chemistry Solid State					4		
3	MBS24T5102 MBS24T5103	chemistry	3	0	0	3			
		Solid State chemistry					4 3		
		Solid State chemistry Environmental							
3	MBS24T5103	Solid State chemistry Environmental analytical	3	0	0	3			
		Solid State chemistry Environmental					3		
3	MBS24T5103	Solid State chemistry Environmental analytical	3	0	0	3			
3	MBS24T5103	Solid State chemistry Environmental analytical chemistry	3	0	0	3	3		
3	MBS24T5103 MBS24T5104	Solid State chemistry Environmental analytical chemistry Bio-organic	3	0	0	3	3		
3	MBS24T5103	Solid State chemistry Environmental analytical chemistry	3	0	0	3	3		
3	MBS24T5103 MBS24T5104	Solid State chemistry Environmental analytical chemistry Bio-organic	3	0	0	3	3		
3	MBS24T5103 MBS24T5104	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry	3	0	0	3	3		
3 4	MBS24T5103 MBS24T5104 MBS24T5105	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green	3 3	0	0	3 3	3		
3	MBS24T5103 MBS24T5104	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry	3	0	0	3	1 4		
3 4	MBS24T5103 MBS24T5104 MBS24T5105	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green	3 3	0	0	3 3	3		
3 4	MBS24T5103 MBS24T5104 MBS24T5105	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green	3 3	0	0	3 3	1 4		
3 4 5	MBS24T5103 MBS24T5104 MBS24T5105 MBS24T5106	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green Chemistry	3 3	0 0 0	0 0 0	3 3	1 4		
3 4	MBS24T5103 MBS24T5104 MBS24T5105	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green	3 3	0	0	3 3	1 4		
3 4 5	MBS24T5103 MBS24T5104 MBS24T5105 MBS24T5106	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green Chemistry	3 3 3	0 0 0	0 0 0	3 3 3	1 4		
3 4 5	MBS24T5103 MBS24T5104 MBS24T5105 MBS24T5106	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green Chemistry Carbon Materials	3 3 3	0 0 0	0 0 0	3 3 3	1 4 3		
3 4 5	MBS24T5103 MBS24T5104 MBS24T5105 MBS24T5106	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green Chemistry Carbon Materials	3 3 3	0 0 0	0 0 0	3 3 3	1 4 3		
3 4 5	MBS24T5103 MBS24T5104 MBS24T5105 MBS24T5106	Solid State chemistry Environmental analytical chemistry Bio-organic Chemistry Advanced Green Chemistry Carbon Materials	3 3 3	0 0 0	0 0 0	3 3 3	1 4 3		

		1		I				
9	MBS24T5109	Industrial Biochemistry	3	0	0	3		
	Course Code	Course Name	Course Type	Teaching Scheme				
				L	Т	P	Credit	
Sem VII	B030701T	Linear Algebra	Major	3	1	0	4	
Sem VII	B030702T	Real Analysis	Major	3	1	0	4	
Sem VII	B030703T	Ordinary Differential Equations	Major	3	1	0	4	
Sem VII	B030704T	Mathematical Statistics	Major	3	1	0	4	
Sem VII	B030705P	Mathematical Statistics Lab using R	Major	0	2	1	1	
Sem VII		Ability Enhancement Course	University core				3	
Sem VII	B010721T	Research Methodology	University core	2	0	0	2	
			Total cı	redit=22				
Sem VIII	B030801T	Abstract Algebra	Major	3	1	0	4	
Sem VIII	B030802T	PartialDifferential Equations	Major	3	1	0	4	
Sem VIII	B030803T	Topology	Major	3	1	0	4	
Sem VIII	B030801R	Research Project	PBL	0	0	12	6	

			Total cr	redit=18								
	Total credits for RSc (Hons) Degree in Mathematics –160											
	Total credits for BSc (Hons) Degree in Mathematics =160											
		List of A	bility Enhancement	Courses								
SI No	Course Code	Name of the										
		Ability Enhancement										
		Courses	L	Т	P	С						
			_		•							
1		Professional Communication-II	1	0	4	3						
2		Campus to Corporate	3	0	0	3						
		Vocational Cou	rses List- SBAS									
Semester	Bucket -I (Physics)	Bucket -II (Chemistry)	Bucket -III (Math)	Bucket -IV (Forensic)	Bucket -V (Bio)							
Sem IV	Vocational Minor-I	Vocational Minor-I	Probability and Statistics+ Lab	Vocational Minor-I	Vocational Minor-I							
Sem V	Vocational Minor-II	Vocational Minor-II		Vocational Minor-II	Vocational Minor-II							
			and Design of Experiment									
Sem VI	Vocational Minor-	Vocational Minor-	Financial	Vocational Minor-	Vocational Minor-							
Som vi	III	III	Mathematics	III	III							