



A premier higher education linguistic minority institutes run by Sindhi Hindi Vidya Samiti



RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

Direction No. 40 of 2016

DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF MASTER OF COMMERCE (CREDIT BASE SEMISTER PATTERN) FACULTY OF COMMERCE

(Issued under section 14(8) of the Maharashtra University Act 1994)
WHEREAS, Maharashtra University act No. xxxv of 1994 has come into force with effect from 22nd July
1994 and has been amended from time to time,

AND

WHERAS, the University Grants Commission, New Delhi vide letter no. D.O. No. F-2/2008/(XI Plan), Dated 31st January 2008 regarding new initiatives under the XI Plan-Academic reforms in the University has suggested for improving quality of higher education and to initiate the Academic reform at the earliest.

AND

WHEREAS, faculty of commerce act its meeting held on 14.2.2012 has decided to update the existing syllabus for award of the degree of Master of Commerce commensurate with the curricula existing in the various universities in India and with a view to include the latest trends in the commerce stream as well as to design it to suit to the needs of the industries and corporate houses,

AND

WHEREAS, University Grants Commission, New Delhi has prescribed the Model Curriculum for award of the Postgraduate degree in the Faculty of commerce and directed to implement the same from the academic session 2012-2013,

AND

WHEREAS, Chairman of all the Board of Studies in the Faculty of Commerce in their meeting held on 24.2.2016 prepared the Scheme of Credit Based Semester pattern for conduct of the M.Com. Examination,

AND

WHEREAS, Board of Studies viz. (1) Business Administration and Business Management, (2) Commerce, (3) Accounts and Statistics, (4) Business Economics and (5) Ad-hoc Board in Computer Application in its meetings held on 24.2.2016 respectively updated the existing syllabi and recommended some modifications in the scheme of examination for post graduate courses,







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RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

NOTIFICATION

No.

Date: 12th June, 2014

Acad/171.

To,

The Principal of all the affiliated Commerce Colleges of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Subject:- Direction No. 15 of 2014.

Sir/Madam,

I am forwarding herewith a copy of the Direction No. 15 of 2014 issued by the Hon'ble Vice- Chancellor under Section 14(8) of Maharashtra Universities Act, 1994 "Direction Governing The Examinations Leading To The Degree of Bachelor of Business Administration (BBA) (Credit Based Semester Pattern) In The Faculty Of Commerce" along with the scheme to be implemented from Academic Session 2014-2015.

You are requested to kindly bring it to the notice of all teachers and students of your college.

Thanking you,

Yours faithfully,

Encl: As above.

Sd/-(Dr. A.V. Gomashe) Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.

No. Acad/171.

Nagpur dated the 12th June, 2014

Copy for information and necessary action along with the Direction and Scheme as mentioned above to :-

- The Dean, Faculty of Commerce, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
- 2) The Chairman, All Board of Studies in Commerce Faculty, R.T.M. Nagpur University.
- 2) The Controller of Eveninations Dealtreagnt Tukadaji Maharaj Magnur University







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Semester-V

		1			Marks		
Course Code	Subjects	Internal /Uni. Examinat ion	Total Hours	Semester End Exam.	Internal Assessm ent	Total Marks	Credits
5T1	Core Group 1. Financial Accounting- IV	Uni.	60	80	20	100	4
5T2	2.Cost Accounting	Uni.	60	80	20	100	4
5T3	Management Process Indian Economics- 1	Uni.	60	80	20	100	4
5T4		Uni,	60	80	20	100	4
5T5	Elective Group –I 5T5.1 Marketing Management OR 5T5.2 Computerized Accounting	Uni.	60	80	20	100	4
	Foundation Group- I 5T6.1 Business Finance -I OR 5T6.2 Auditing	Uni.	60	80	20	100	4
	Total		360	480	120	600	24

Officiating Principal
Dada Ramchand Bakhru
Sindhu Mahavidyalaya, Nagpur-17



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Semester-VI

					Marks		
Course Code	Subjects	University Examination	Total Interna 1 /Hours	Semester End Exam.	Internal Assessm ent	Total Marks	Credits
	Core Group						
6T1	1. Financial Accounting -V	Uni.	60	80	20	100	4
6T2	2.Management Accounting	Uni.	60	80	20	100	4
6T3	3.Advanced Statistics	Uni.	60	80	20	100	4
6T4	4. Indian Economics - II	Uni.	60	80	20	100	4
6T5	Elective Group-II 6T5.1 Human Resource Management OR 6T5.2- Indirect Tax	Uni.	60	80	20	100	4
6T6	Foundation Group- II 6T6.1 Business Finance - II OR 6T6.2 Industrial Law	Uni.	60	80	20	100	4
	Total	1	360	480	120	600	24

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SYLLABUS for M. Sc. CHEMISTRY Choice Based Credit System (Semester Pattern) Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur Effective from 2018-2019

Candidates opting for this course are advised to go through the direction relating to the course "DIRECTION RELATING TO THE EXAMINATION LEADING TO THE DEGREE OF MASTER OF SCIENCE, SEMESTER PATTERN (CHOICE BASED CREDIT SYSTEM) AND DEGREE OF MASTER OF SCIENCE AND TECHNOLOGY (APPLIED GEOLOGY). SEMESTER PATTERN, (CHOICE BASED CREDIT SYSTEM) (FACULTY OF SCIENCE & TECHNOLOGY)" which is

available on R. T. M. Nagpur University website.

The direction will provide details on admission criteria, rules for ATKT, scheme of examination, absorption scheme for CBS students into CBCS pattern, elective papers, foundation course papers, subject centric papers, coding pattern, pattern of question papers, practicals, distribution of marks, seminars, project work, internal assessment, calculation of SGPA and CGPA, etc.







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Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in Chemistry

			M. Sc. C	hemistr	y Sem	ester l	Ī				
	I		ching sc ours / W				Ex	kaminati	on Schen	ne	
Code	Theory / Practical		נו	ı	Credits	n hrs.	Max.	Marks	arks	Minin Pass Mar	ing
	Theory /	Th	Pract	Total	Cre	Duration in hrs.	External Marks	Internal Ass	Total Marks	Th	Pract
(1T1)	Paper 1: Inorganic Chemistry	4	-	4	4	3	80	20	100	40	
(1T2)	Paper 2: Organic Chemistry	4	1	4	4	3	80	20	100	40	
(1T3)	Paper 3: Physical Chemistry	4	-	4	4	3	80	20	100	40	
(1T4)	Paper 4: Analytical Chemistry	4	1	4	4	3	80	20	100	40	
Pract. (1P1)	Practical 1: Inorganic Chemistry	-	8	8	4	3- 8*	100**	-	100		40
Pract. (1P3)	Practical 2: Physical Chemistry	-	8	8	4	3- 8*	100**	-	100		40
Seminar 1 (1S1)	Seminar 1	2	-	2	1			25	25	10	
	TOTAL	18	16	34	25		520	105	625	170	80







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			M. Sc. C	hemistr	y Semo	ester I	I				
	1		ching sc ours / W				Ex	kaminati	on Schen	ne	
Code	Theory / Practical		11	_	Credits	n hrs.	Max.	Marks	ırks	Minin Pass Mar	ing
5545	Theory /	Th	Pract	Total	Cre	Duration in hrs.	External Marks	Internal Ass	Total Marks	Th	Pract
(2T1)	Paper 5: Inorganic Chemistry	4	-	4	4	3	80	20	100	40	
(2T2)	Paper 6: Organic Chemistry	4	1	4	4	3	80	20	100	40	
(2T3)	Paper 7: Physical Chemistry	4	-	4	4	3	80	20	100	40	
(2T4)	Paper 8: Analytical Chemistry	4	1	4	4	3	80	20	100	40	
Pract. (2P2)	Practical 3: Organic Chemistry	-	8	8	4	3- 8*	100**	-	100		40
Pract. (2P4)	Practical 4: Analytical Chemistry	-	8	8	4	3- 8*	100**	-	100		40
Seminar 2 (2S1)	Seminar 2	2	-	2	1			25	25	10	
	TOTAL	18	16	34	25		520	105	625	170	80









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	M.	Sc. Ch	emisti	ry Sem	ester	III					
	al	sche	eachin me (Ho Week)				Ex	aminati	on Schen	ne	
Code	Theory / Practical				Credits	n hrs.	Max.	Marks	ırks	Minin Pass Mar	ing
	Theory	Th	Pract	Total	D	Duration in hrs.	External Marks	Internal Ass	Total Marks	Th	Pract
(3T1)	Paper 9: Special – I (Inorganic/ Organic / Physical / Analytical) Chemistry	4	-	4	4	3	80	20	100	40	
(3T2)	Paper 10: Special – II (Inorganic/ Organic / Physical / Analytical) Chemistry	4	-	4	4	3	80	20	100	40	
Elective 1 (3T3)	Paper 11: A) NuclearChemistry I (3T3A) ORB) Environmental Chemistry I (3T3B) ORC) Polymer Chemistry I(3T3C) ORD) Medicinal Chemisrty I(3T3D)	4	-	4	4	3	80	20	100	40	
Foundatio n Course 1 / Core Subject Centric 1 (3T4)	Paper 12: Applied AnalyticalChemistry-I / Spectroscopy I	4	-	4	4	3	80	20	100	40	
Pract. Core 9 & 10 (3P1)	Practical 5: Special (Inorganic/ Organic/ Physical / Analytical) Chemistry	-	8	8	4	3- 8*	100**	-	100		40







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(551)	TOTAL	18	16	34	25		520	105	625	170	80
Seminar 3 (3 S1)	Seminar 3	2	-	2	1			25	25	10	
Pract. Core Elective 1 (3P3)	Practical 6: A) Nuclear Chemistry I ORB) Environmental Chemistry I ORC) Polymer Chemistry I ORD) Medicinal Chemisrty I	-	8	8	4	3- 8*	100**	-	100		40

				M. Sc. Chemistry	Semes	ster IV								
Code	Code Examination Scheme													
	> ·	<u> </u>	ī Ē		e di									

			(Hour	s / We	ek)							
							in hrs.	Max.	Marks	rks	Minim Passi Mar	ng
			Th	Pract	Total		Duration i	External Marks	Internal Ass	Total Marks	Th	Pract
(4	4T1)	Paper 13: Special – I (Inorganic/ Organic/ Physical/ Analytical) Chemistry	4	-	4	4	3	80	20	100	40	

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(4T2)	Paper 14: Special – II (Inorganic/ Organic/ Physical/ Analytical) Chemistry	4	1	4	4	3	80	20	100	40	
Elective 2 (4T3)	Paper 15: A) Nuclear Chemistry II ORB) Environmental Chemistry II ORC) Polymer Chemistry II ORD) Medicinal Chemisrty II	4	,	4	4	3	80	20	100	40	
Foundati on Course 2 / Subject Centric 2 (4T4)	Paper 16: Applied Analytical Chemistry II/Spectroscopy II	4	-	4	4	3	80	20	100	40	
Pract. (4P1)	Practical 7: Special (Inorganic/ Organic/ Physical/ Analytical) Chemistry	ı	8	8	4	3- 8*	100**	ı	100		40
Project (4PROJ1)	Project	-	8	8	4	3- 8*	100**	-	100		40
Seminar 4 (4S1)	Seminar 4	2	ı	2	1			25	25	10	
	TOTAL	18	16	34	25		520	105	625	170	80

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SYLLABUS for M. Sc. Zoology

Choice Based Credit System (Semester Pattern)

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur With effect from 2018-19

Candidates opting for this course are advised to go through the direction relating to the course "DIRECTION RELATING TO THE EXAMINATION LEADING TO THE DEGREE OF MASTER OF SCIENCE, SEMESTER PATTERN (CHOICE BASED CREDIT SYSTEM) AND DEGREE OF MASTER OF SCIENCE AND TECHNOLOGY (APPLIED GEOLOGY). SEMESTER PATTERN, (CHOICE BASED CREDIT SYSTEM) (FACULTY OF SCIENCE & TECHNOLOGY)" which is

available on R. T. M. Nagpur University website.

The direction will provide details on admission criteria, rules for ATKT, scheme of examination, absorption scheme for CBS students into CBCS pattern, elective papers, foundation course papers, subject centric papers, coding pattern, pattern of question papers, practicals, distribution of marks, seminars, project work, internal assessment, calculation of SGPA and CGPA, etc.

Syllabus for M. Sc. Zoology (Semester with credit based Pattern) w e f 2018-19 Academic session

Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in Zoology

M. Sc. Zool	ogy Semes	ster I										
Code	tical			Teaching scheme (Hours / Week)			Exam	iination	Schem	ie		
	y / Practical						ion in	Max. N	Marks	Marks	Minin mPas Mark	sing
	Theory		Th	Th Pract Total		Credits	Duration	Exte rnal	Inte rnal		Th	Prac
Core 1	Paper Structure Function Invertebra	of	4	-	4	4	3	80	20	Dada i	40	khru





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Core 2	Paper 1T ₂ :	4	-	4	4	3	80	20	100	40	
	General										
	Physiology										
Core 3	Paper	4	-	4	4	3	80	20	100	40	
	1T ₃ :										
	Cell Biology and Genetics										
Core 4	Paper 1T ₄ :	4	-	4	4	3	80	20	100	40	
	Advanced										
	Reproductive										
	Biology										
Pract.	Practical 1P ₁ :	-	8	8	4	3-	100*	-	100		40
Core 1 &	Based on					8*	*				
2	theory Paper										
	$1T_1 \& 1T_2$										
Pract.	Practical 1P ₂ :	-	8	8	4	3-	100*		100		40
Core 3 &	Based on					8*	*				





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4	theory Paper 1T ₃ & 1T ₄									
Seminar 1	Seminar -1S ₁	2	-	2	1		25	25	10	
	TOTAL	18	16	34	25	520	105	625	170	80

M. Sc. Zoo	logy Semester II										
Code		Tea	ching s urs / W	cheme /eek)		Exan	ninatior	Schem	ie		
	Theory / Practical				S	ion in	Max. I	Marks	Total Marks	Minin mPas Mark	sing s
	Theor	Th	Pract	Total	Credits	Duration	Exte	Inte r nal	Total	Th	Pract
Core 5	Paper 2T₁: Structure and Function of Vertebrates	4	-	4	4	3	80	20	100	40	
Core 6	Paper 2T2 :Comparative Endocrinolog	4	-	4	4	3	80	20	100	40	
Core 7	Paper 2T ₃ :Molecular Biology and Biotechnolog	4	-	4	4	3	80	20	100	40	
Core 8	Paper 2T4 :Advanced Development al Biology	4	-	4	4	3	80	20	100	40	
Pract. Core 5 & 6	Practical 2P₁: Based on theory Paper 2T₁& 2T₂	-	8	8	4	3- 8*	100*	-	100		40
Pract. Core 7 & 8	Practical 2P₂: Based on theory	-	8	8	4	3- 8*	100*	-	100 Officiating Pada Ramchan		40





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	Pape									
	r 2T ₃ & 2T ₄									
Seminar 2	Seminar -2S ₂	2	-	2	1		25	25	10	
	TOTAL	18	16	34	25	520	105	625	170	8

M. Sc. Zoology Semester III											
Code	heo '	ract	Teaching scheme (Hours / Week)	redit	Examination Scheme						
	E	/ P ₁	T P r T	Ü	☐ Max. Marks ☐ ☐ Minimum						





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										Passir g Marks	5
							Exte rnal	Inte rnal		Th	Pract
Core 9	Paper 3T₁: Parasitology and Immunology	4	-	4	4	3	80	20	100	40	
Core 10	Paper 3T ₂ : Special Group- PaperI Entomology Fish andFisheries Mammalian Reproductiv ePhysiology (MRP) Animal Physiolog y Environme ntal Biology	4	-	4	4	3	80	20	100	40	
Core 11	Special Group- Paper 3T ₃ • Entomology • Fish andFisheries • Mammalian Reproductiv ePhysiology (MRP) • Animal Physiolog y • Environme ntal Biology	4	-	4	4	3	80	20	100	40	





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Foundati	Paper 3T ₄ :	4	-	4	4	3	80	20	100	40	
on	Foundation - I										
Course 1	• Basic										
(NOTE:	Entomology										
Only for	/										
students	• Core										
of other	(Subject										
M. Sc.	Centric)-										
Subjects	IWild Life										
	and										
	Avian										





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)	Biology										
Pract.	Practical 3P ₁ :	-	8	8	4	3-	100*		100		40
Core 9	Based					8*	*				
	0										
	ntheory of $\mathbf{3T_1}$										
Pract.	Practical 3P ₂ :	-	8	8	4	3-	100*		100		40
Core	Based					8*	*				
Elective	0										
1 and 2	ntheory of $3T_2$										
	and $\mathbf{3T}_3$										
Seminar	Seminar -3S ₃	2	-	2	1			25	25	10	
3											
	TOTAL	18	16	34	25		520	105	625	170	8
											0

M. Sc. Zoole	ogy Semester IV										
Code	cal		ching s urs / V	scheme Veek)		Exam	ination	Schem	ie		
	acti						Max. N	Marks		Minin	
	Pra					in			rks	Passii	1
	Theory / Practical		t		lits	Duration			Total Marks	g Marks	5
	Thec	Th	Pract	Total	Credits	Dura	Ext	Int er	Tota	Th	Pra
	Paper 4T ₁ : Biotechnique, Biostatistics, Ethology, Toxicology and Bioinformatics	4	-	4	4	3	80	20	100	40	





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Core 12	Paper 4T ₂ :	4	-	4	4	3	80	20	100	40	
	Special										
	Group- Paper										
	4T ₂										
	 Entomology 										
	• Fish										
	andFisheries										
	 Mammalian 										
	Reproductiv										
	ePhysiology										
	(MRP)										
	Animal										
	Physiolog										
	у										
	• Environme										
	ntal Biology										
Core	Paper 4T ₃ :	4	-	4	4	3	80	20	100	40	





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Elective 2	Special										
	Group- Paper										
	4T ₃										
	 Entomology 										
	• Fish										
	andFisheries										
	 Mammalian 										
	Reproductiv										
	ePhysiology										
	(MRP)										
	• Animal										
	Physiolog										
	y										
	• Environme										
	ntal Biology										
Foundati	Paper 4T ₄ :	4	-	4	4	3	80	20	100	40	
on	Foundation- II	_		_							
Course 2	 Applied 										
(NOTE:	and										
Only for	Industrial										
students	Entomology										
of	/										
_	• Core										
r	(Subject										
M. Sc.	Centric)-II										
Subjects)	Radiation and										
Subjects	Chronobiolog										
	у										
Pract.	Practical 4P ₁ :	-	8	8	4	3-	100*	-	100		40
Core	Based on					8*	*				
11	t										
,	heory of $4T_2$										
	and 4T ₃										
Elective 2											
Project	Project - Pro	-	8	8	4	3- 0*	100*	-	100		40
Comiraci	Cominar AC	2		2	1	8*	-1-	25	25	10	
Seminar 4	Seminar- 4S ₄		-	2	1			25	25	10	
	TOTAL	18	16	34	25		520	105	625	170	8
											0

Note: Th = Theory; Pr = Practical/lab, * = If required, for two days.

^{** =} The Practical and Project shall be evaluated by both the External and Internal Examiner in therespective Department / Center / Affiliated College.





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M. Sc. Botany Syllabus Semester pattern with Choice Base Credits System

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

APPENDIX - 1

Scheme of teaching under choice based credit system for M. Sc. Program in Botany.



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S. No.	Semester	Cours eCode / Paper		Course /Paper	Т	eaching Sch	eme
					Theory (Hours)	Practical (Hours)	Number of Credits
1	One	1T1	Microbiology, Algae and Fungi	I	04	04	04
2	One	1T2	Bryophytes & Pteridophyte s	II	04	04	04
3	One	1T3	Paleobotany and Gymnosperms	III	04	04	04
4	One	1T4	Cytology and Genetics	IV	04	04	04
5	One	1P1	Algae, fungi, Bryophytes	Pract. I	-	-	04
6	One	1P2	Pteridophytes , Gymnosperm s, Paleobotany, Cytology & Genetics	Pract. II	-	-	04
7	One	1S1 Semi	nar				01
8	Two	2T1	Plant Physiology and Biochemistry	I	04	04	04
9	Two	2T2	Plant Development and Reproduction	II	04	04	04
10	Two	2T3	Cell and Molecula rBiology- I	III	04	04	04
11	Two	2T4	Angiosperms-I and Ethnobotany	IV	04	04	04
12	Two	2P1	Plant Physiology,Plant Biochem., Plant Development & Reproduction	Pract. I	-	-	04





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13	Two	2P2	Cell and Molecula rBiology I, Angiosperms I	Pract. II	-	-	04
14	Two	2S1 Semir	nar				01
15	Three	3T1	Plant Ecology andConservation Biology	I	04	04	04
16	Three	3T2	Angiosperms-II	II	04	04	04
17	Three	3T3	Elective -I	III	04	08	04
18	Two	3T4	Foundation I	IV	04	-	04





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19	Three	3P1	Plant Ecology andConservation	Pract. I	-	-	04
			Biology and				
			Angiosperms II				
20	Three	3P2	Elective	Pract. II	-	-	04
21	Three	3S1 Sen	ninar	•		·	01
22	Four	4T1	Cell and Molecula rBiology- II	I	04	04	04
23	Four	4T2	Plant Biotechnolog yand Plant Breeding	II	04	04	04
24	Four	4T3	Elective II	III	04	-	04
25	Four	4T4	Foundation II	IV	04	-	04
26	Four	4P1	Cell and Molecular Biology-II, Plant Biotechnology and Plant Breedin g	Pract. I	-	-	04
27	Four	4P2	Project	Pract. II	-	08	04
28	Four	4S1 Sen	ninar		•		01





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Revised SYLLABUS Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur M. Sc. MATHEMATICS Choice Based Credit System(Semester Pattern

Course Study and Scheme of Examination with paper code

				Semester	I				
Sr. No.	Paper Core/Elect ive	Paper	Code	Title of the paper	Hrs. in week	Credit	Maximum Marks		
							Int. Ass	Ext. Mar	Tot al
1	Core -1	Paper -I	1T1	Algebra I	5	5	25	100	125
2	Core -2	Paper -II	1T2	Real Analysis I	5	5	25	100	125
3	Core -3	Paper -III	1T3	Topology I	5	5	25	100	125
4	Core-4	Paper -IV	1T4	Ordinary Differential Equations	5	5	25	100	125
5	Core-5	Paper -V	1T5	Integral Equations	5	5	25	100	125
	l	1	_I	Semester	II				
Sr. No.	Paper Core/Ele ctive	Paper	Code	Title of the paper	Hrs. in week	Credit	Maximum Marks		·ks
							Int. Ass	Ext. Mar	Tot al
1	Core -1	Paper -VI	2T1	Algebra II	5	5	25	100	125
			1	R	1		1		1





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2	Core -2	Paper -VII	2T2	Real Analysis II	5	5	25	100	125
3	Core -3	Paper -VIII	2T3	Topology II	5	5	25	100	125
4	Core-4	Paper -IX	2T4	Differential geometry	5	5	25	100	125
5	Core-5	Paper -X	2T5	Classical Mechanics	5	5	25	100	125

M.Sc. (Mathematics) Under CBCS

	Semester										
	T		Code Title of the paper								
Sr. No.	Paper Core/Elect ive	Paper	Code	Title of the paper	Hrs. in week	Credit	Maximum Marks				
							Int. Ass	Ext. Mar	Tot al		
1	Core -1 (Compulsor ypaper)	Paper -XI	3T1	Complex Analysis	5	5	25	100	125		
2	Core -2 (Compulsor ypaper)	Paper -XII	3T2	Functional Analysis	5	5	25	100	125		
3	Core -3 (Compulsor ypaper)	Paper -XIII	3T3	Mathematical Method	5	5	25	100	125		
4	Core Electiv e (Opt anyone)	Paper -XIV (Opt anyone)	3T4	(i) Fluid Dynamics-I (ii) Genera lRelativity (iii) Measure and Integration Theory(New) (iv) Numbe rTheory (v) Algebrai cTopology- I	5	5	25	100	125		
5	Foundation Paper	Paper -XV	3T5	Elementary Mathematics -I	5	5	25	100	125		
OR	Subjec t Centric	Paper -XV	3T5	Operation Research -I	5	5	25	100	125		



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				Semester	•				
				IV					
Sr. No.	Paper Core/Elect ive	Paper	Code	Title of the paper	Hrs. in week	Credit	Maximum Marks		
							Int. Ass	Ext. Mar	Tot al
1	Core -1 (Compulsor ypaper)	Paper -XVI	4T1	Dynamical Systems	5	5	25	100	125
2	Core -2 (Compulsor ypaper)	Paper -XVII	4T2	Partial Differential Equations	5	5	25	100	125
3	Core -3 (Compulsor ypaper)	Paper -XVIII	4T3	Advance Numerical Methods	5	5	25	100	125
4	Core Electiv e (Opt anyone)	Paper -XIX (Opt anyone)	4T4	(i) Fluid Dynamics II (ii) Cosmology (iii) Cryptography (iv)Operator theory (v)Algebraic Topology-II	5	5	25	100	125
5	Foundatio nPaper	Paper -XX	4T5	Elementary Discrete Mathematics -I	5	5	25	100	125
OR	Subjec t Centric	Paper -XX	4T5	Operation Research - II	5	5	25	100	125

