

S. S. Jain Subodh P. G. College, Jaipur

(Autonomous)



CRITERIA I

Curricular Aspects

1.3.3(d) Program and course contents having element of field projects / research projects / internships as approved by BOS

S. S. Jain Subodh P.G. College, Jaipur
(Autonomous)
Bachelor of Science (B.Sc. Honors)
Subject – Physics

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Examination Scheme

Semester – I		
Paper	Nomenclature of paper	Max. Marks
PAPER – I	HSPH101 MECHANICS – I	75 Marks
PAPER – II	HSPH102 ELECTROMAGNETISM – I	75 Marks
PAPER – III	HSPH103 OPTICS – I	75 Marks
PAPER – IV	HSPH104 ELECTRICAL AND DIGITAL ELECTRONICS – I	75 Marks
HSPH151 PHYSICS PRACTICAL – I		150Marks
Semester – II		
Paper	Nomenclature of paper	Max. Marks
PAPER – I	HSPH201 MECHANICS – II	75 Marks
PAPER – II	HSPH202 ELECTROMAGNETISM – II	75 Marks
PAPER – III	HSPH203 OPTICS – II	75 Marks
PAPER – IV	HSPH204 ELECTRICAL AND DIGITAL ELECTRONICS - II	75 Marks
HSPH251 PHYSICS PRACTICAL – II		150 Marks
Semester – III		
Paper	Nomenclature of paper	Max. Marks
PAPER – I	HSPH301 THERMODYNAMICAL AND STATISTICAL PHYSICS-I	75 Marks
PAPER – II	HSPH302 MATHEMATICAL PHYSICS AND SPECIAL THEORY OF RELATIVITY-I	75 Marks
PAPER – III	HSPH303 ELECTRONICS & SOLID STATE DEVICES-I	75 Marks
PAPER – IV	HSPH304 PHYSICS OF MATERIALS - I	75 Marks
HSPH351 PHYSICS PRACTICAL – III		150 Marks
Semester – IV		
Paper	Nomenclature of paper	Max. Marks
PAPER – I	HSPH401 THERMODYNAMICAL AND STATISTICAL PHYSICS -II	75 Marks
PAPER – II	HSPH402 MATHEMATICAL PHYSICS AND SPECIAL THEORY OF RELATIVITY-II	75 Marks
PAPER – III	HSPH403 ELECTRONICS & SOLID STATE DEVICES-II	75 Marks
PAPER – IV	HSPH404 PHYSICS OF MATERIALS - II	75 Marks
HSPH451 PHYSICS PRACTICAL – IV		150 Marks
Semester – V		
Paper	Nomenclature of paper	Max. Marks
PAPER – I	HSPH501 QUANTUM MECHANICS - I	75 Marks
PAPER – II	HSPH502 NUCLEAR PHYSICS - I	75 Marks
PAPER – III	HSPH503 SOLID STATE PHYSICS - I	75 Marks
PAPER – IV	HSPH504 ATOMIC AND MOLECULAR PHYSICS - I	75 Marks
HSPH551 PHYSICS PRACTICAL – V		150 Marks
Semester – VI		
Paper	Nomenclature of paper	Max. Marks
PAPER – I	HSPH601 QUANTUM MECHANICS - II	75 Marks
PAPER – II	HSPH602 NUCLEAR PHYSICS - II	75 Marks
PAPER – III	HSPH603 SOLID STATE PHYSICS - II	75 Marks
PAPER – IV	HSPH604 ATOMIC AND MOLECULAR PHYSICS - II	75 Marks
HSPH651 PHYSICS PRACTICAL – VI/ PROJECT WORK/DISSERTATION		150 Marks

Marks Break-Up : End-Semester Exam 54 Marks + Internal Assessment (CIA) 21 Marks = Total 75 Marks Per Paper.

Practical Marks : External Practical 90 Marks + Internal Practical Exam 60 Marks = Total 150 Marks.

Theory Classes : Two hours per week for each of the papers; end-semester exam duration of three hours for each of the papers.

Practical Classes : Eight hours practical classes per week; practical end-semester examination of five hours duration.

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B.Sc. Honors - Physics

Semester - VI

HSPH651 Physics Practical – VI/ Project Work/Dissertation


Max. Practical Marks = 150 Marks

Internal Marks = 60 Marks

External Practical Exam (Duration : 5 hrs.) = 90 Marks

**Note: Out of the following experiments, 8 experiments must be done by the students in the semester.
(8 hrs. per week)**

1. Determination of Planck's constant by photocell (retarding potential method using optical filters, preferably five wave length).
2. Determination of Planck's constant using solar cell.
3. Determination of Stefan's constant (Black body method).
4. Study of the temperature dependence of resistance of a semiconductor (four probe method).
5. Study of Iodine spectrum with the help of grating and spectrometer and ordinary bulb light.
6. Study of characteristics of a GM counter and verification of inverse square law for the same strength of a radioactive source.
7. Study of β -absorption in Al foil using GM counter.
8. To find the magnetic susceptibility of a paramagnetic solution using Quinck's method. Also, find the molecular susceptibility of the ion and magnetic moment of the ion in terms of Bohr magneton.
9. Determination of coefficient of rigidity as a function of temperature using torsional oscillator (resonance method).
10. Study of polarization by reflection from a glass plate with the help of Nicol's prism and photocell and verification of Brewster law and law of Malus.
11. Helical method for the determination of e/m .
12. Measurement of magnetic field using ballistic galvanometers and search coil. Study of variation of magnetic field of an electromagnet with current.
13. Measurement of electric charge by Millikan's oil drop method.
14. Any other experiment that relates to the theory.


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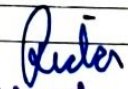
Department of Chemistry

Nomenclature of Paper with Paper code

B.Sc. (Hons.)

Session 2022-2023

Semester I		
S.No.	Nomenclature of Paper	Paper Code
1	Inorganic Chemistry-I	HSCH101
2	Organic Chemistry-I	HSCH102
3	Physical Chemistry-I	HSCH103
4	Analytical Chemistry-I	HSCH104
5	Chemistry Practical-I	HSCH151
Semester II		
6	Inorganic Chemistry-II	HSCH201
7	Organic Chemistry-II	HSCH202
8	Physical Chemistry-II	HSCH203
9	Analytical Chemistry-II	HSCH204
10	Chemistry Practical-II	HSCH251
Semester III		
11	Inorganic Chemistry-III	HSCH-301
12	Organic Chemistry-III	HSCH302
13	Physical Chemistry-III	HSCH303
14	Analytical Chemistry-III	HSCH304
15	Chemistry Practical-III	HSCH351
Semester IV		
16	Inorganic Chemistry-IV	HSCH401
17	Organic Chemistry-IV	HSCH402
18	Physical Chemistry-IV	HSCH403
19	Analytical Chemistry-IV	HSCH404
20	Chemistry Practical-IV	HSCH451
Semester V		
21	Inorganic Chemistry-V	HSCH501
22	Organic Chemistry-V	HSCH502
23	Physical Chemistry-V	HSCH503
24	Analytical Chemistry-V	HSCH504
25	Chemistry Practical-V	HSCH551
Semester VI		
26	Inorganic Chemistry-VI	HSCH-601
27	Organic Chemistry-VI	HSCH602
28	Physical Chemistry-VI	HSCH603
29	Analytical Chemistry-VI	HSCH-604
30	Chemistry Practical-VI/ Field Project / Internship	HSCH651

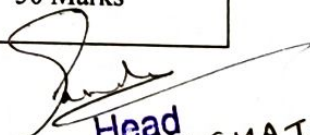

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**BACHELOR OF SCIENCE B.SC. (HONS.)
SUBJECT – MATHEMATICS**

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Examination Scheme:

Semester- I			
Paper	Nomenclature of Paper	Paper Code	Max. Marks
Paper-I	Discrete Mathematics	HSMA101	100 Marks
Paper-II	Calculus-I	HSMA102	100 Marks
Paper-III	Three Dimensional Geometry and Vector Calculus	HSMA103	100 Marks
Paper-IV	Number Theory-I	HSMA104	100 Marks
	Mathematics Practical-I	HSMA151	50 Marks
Semester- II			
Paper	Nomenclature of Paper	Paper Code	Max. Marks
Paper-I	Graph Theory	HSMA201	100 Marks
Paper-II	Calculus-II	HSMA202	100 Marks
Paper-III	Optimization theory	HSMA203	100 Marks
Paper-IV	Number Theory-II	HSMA204	100 Marks
	Mathematics Practical-II	HSMA251	50 Marks
Semester- III			
Paper	Nomenclature of Paper	Paper Code	Max. Marks
Paper-I	Real Analysis-I	HSMA301	100 Marks
Paper-II	Differential Equation-I	HSMA302	100 Marks
Paper-III	Numerical Analysis	HSMA303	100 Marks
Paper-IV	Operations Research-I	HSMA304	100 Marks
	Mathematics Practical-III	HSMA351	50 Marks
Semester- IV			
Paper	Nomenclature of Paper	Paper Code	Max. Marks
Paper-I	Advanced Analysis and Metric Space	HSMA401	100 Marks
Paper-II	Differential Equation-II	HSMA402	100 Marks
Paper-III	Advanced Numerical Analysis	HSMA403	100 Marks
Paper-IV	Operations Research-II	HSMA404	100 Marks
	Mathematics Practical-IV	HSMA451	50 Marks
Semester- V			
Paper	Nomenclature of Paper	Paper Code	Max. Marks
Paper-I	Abstract Algebra-I	HSMA501	100 Marks
Paper-II	Complex Analysis-I	HSMA502	100 Marks
Paper-III	Dynamics	HSMA503	100 Marks
Paper-IV	Statistics-I	HSMA504	100 Marks
	Mathematics Practical-V	HSMA551	50 Marks
Semester- VI			
Paper	Nomenclature of Paper	Paper Code	Max. Marks
Paper-I	Abstract Algebra-II	HSMA601	100 Marks
Paper-II	Complex Analysis-II	HSMA602	100 Marks
Paper-III	Mechanics	HSMA603	100 Marks
Paper-IV	Statistics-II	HSMA604	100 Marks
	Mathematics Practical-VI/ Project Work	HSMA651	50 Marks


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Examination Scheme

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Syllabus Zoology Hons. Sem. I					
Course Code and Nomenclature			External Theories	Internal Theories	Total Max. Marks
Paper I	HSZ0101	Diversity of Animals-I (Lower Invertebrates)	45	30	75
Paper II	HSZ0102	Cell Biology	45	30	75
Paper III	HSZ0103	Developmental biology	45	30	75
Paper IV	HSZ0104	Principles of Ecology	45	30	75
Practical	HSZ0151			150	

Syllabus Zoology Hons. Sem. II					
Course Code and Nomenclature			External Theories	Internal Theories	Total Max. Marks
Paper I	HSZ0201	Diversity of Animals-II (Higher Invertebrates)	45	30	75
Paper II	HSZ0202	Molecular Biology	45	30	75
Paper III	HSZ0203	Principles of Genetics	45	30	75
Paper IV	HSZ0204	Evolutionary Biology	45	30	75
Practical	HSZ0251			150	
Syllabus Zoology Hons. Sem. III					

Syllabus Zoology Hons. Sem. III					
Course Code and Nomenclature			External Theories	Internal Theories	Total Max. Marks
Paper I	HSZ0301	Diversity of Animal-I (Chordates)	45	30	75
Paper II	HSZ0302	Animal Physiology I	45	30	75
Paper III	HSZ0303	Animal behaviour and Chronobiology	45	30	75
Paper IV	BSZ0304	Microbiology and Parasitology	45	30	75
Practical	BSZ0351			150	

Syllabus Zoology Hons. Sem. IV					
Course Code and Nomenclature			External Theories	Internal Theories	Total Max. Marks
Paper I	HSZ0401	Comparative anatomy and Biology of Vertebrates	45	30	75
Paper II	HSZ0402	Animal Physiology II	45	30	75
Paper III	HSZ0403	Immunology	45	30	75
Paper IV	HSZ0404	Applied Zoology	45	30	75
Practical	HSZ0451			150	


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Syllabus Zoology Hons. Sem. V

Course Code and Nomenclature			External Theories	Internal Theories	Total Max. Marks
Paper I	HSZ0451	Biochemistry	45	30	75
Paper II	HSZ0501	Wild life conservation and management	45	30	75
Paper III	HSZ0502	Bio techniques, Instrumentation and Bioinformatics	45	30	75
Paper IV	HSZ0503	Apiculture	45	30	75
Practical	HSZ0551		150		

Syllabus Zoology Hons. Sem. VI

Course Code and Nomenclature			External Theories	Internal Theories	Total Max. Marks
Paper I	HSZ0601	Animal Biotechnology	45	30	75
Paper II	HSZ0602	Environment and Public health	45	30	75
Paper III	HSZ0603	Research methodology And Biostatistics	45	30	75
Paper IV	HSZ0604	Medical Diagnostics, Health and Hygiene			
Practical	HSZ0551	Practical/Practical Training/ Dissertation/ Field Visit	150		


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S.S. JAIN SUBODH P.G. (AUTONOMOUS) COLLEGE, JAIPUR
(Affiliated to University of Rajasthan)



SYLLABUS

SCHEME OF EXAMINATION AND COURSES OF STUDY

FACULTY OF SCIENCE
DEPARTMENT OF BOTANY

Bachelor of Science
Subject: Botany (Honours)

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Semester Structure: The course details with codes and titles assigned are as given below.

Duration: 6 Semesters (3 Years)

Semester –I

HSBO101-Paper-I: Cytology

HSBO102-Paper-II: Algae and Lichens

HSBO103-Paper III: Plant Physiology I

HSBO 104 -Paper IV: Ecology

HSBO151 - Practical: Based on Theory Papers

Semester –II

HSBO201-Paper-I: Genetics and Plant Breeding

HSBO202-Paper-II: Mycology

HSBO203-Paper III: Plant Physiology II and Biochemistry

HSBO204 -Paper IV: Bryophyta

HSBO 251-Practical: Based on Theory Papers

Semester-III

HSBO301-Paper-I: Molecular Biology

HSBO302-Paper-II: Pteridophyta

HSBO303-Paper III: Morphology of Angiosperms

HSBO304 -Paper IV: Microbiology

HSBO 351-Practical: Based on Theory Papers

Semester –IV

HSBO401-Paper-I: Biotechniques and Biostatistics

HSBO402-Paper-II: Gymnosperms and Paleobotany

HSBO403-Paper III: Anatomy of Angiosperms

HSBO404-Paper IV: Plant Pathology

HSBO 451-Practical: Based on Theory Papers

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Semester –V

HSBO501-Paper-I: Plant Biotechnology

HSBO502-Paper-II: Systematics of Angiosperms

HSBO503-Paper III: Economic Botany

HSBO504-Paper IV: Embryology of Angiosperms

HSBO 551-Practical: Based on Theory Papers

Project and Dissertation

Semester –VI

HSBO601-Paper-I: Genetic Engineering

HSBO602-Paper-II: Ethnobotany

HSBO603-Paper III: Biodiversity Conservation & Human Welfare

HSBO604 -Paper- IV: Seed Science

HSBO 651-Practical: Based on Theory Papers

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COURSE STRUCTURE (B.COM. 2022-23)

The Bachelor of Commerce (B. Com) is a 6 semester's program. The following is the scheme for teaching and examination of B.Com.Hons. Course.

"The duration of external examination for each paper will be of 3 hours."

FIRST SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
HCAS101	Financial Accounting	03	30	70	100
HCAS102	Elementary Statistics	03	30	70	100
HCAS103	Financial Management	03	30	70	100
HCAS104	Management Accounting	03	30	70	100

SECOND SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
HCAS201	Corporate Accounting	03	30	70	100
HCAS202	Business Statistics	03	30	70	100
HCAS203	Functional Accounting	03	30	70	100
HCAS204	Advanced Statistics	03	30	70	100

THIRD SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
HCAS301	Income Tax Law	03	30	70	100
HCAS302	Elementary Cost Accounting	03	30	70	100
HCAS303	Custom Duty	03	30	70	100

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HCAS304	Operation Research	03	30	70	100
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FOURTH SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
HCAS401	Income Tax Law & Practices	03	30	70	100
HCAS402	Methods & Techniques of Costing	03	30	70	100
HCAS403	Corporate Tax	03	30	70	100
HCAS404	Quantitative Techniques	03	30	70	100

FIFTH SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
HCAS501	Auditing	03	30	70	100
HCAS502	Higher Accounting	03	30	70	100
HCAS503	Tax Planning	03	30	70	100
HCAS504	Advanced Cost Accounting	03	30	70	100

SIXTH SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
HCAS601	Goods and Service Tax	03	30	70	100
HCAS602	Advanced Accounting	03	30	70	100
HCAS603	Project Planning and Management	03	30	70	100
HCAS604	Cost and Management Audit	03	30	70	100
HCAS651	Project/Dissertation/Summer Training/Field Visit	03		100	100

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Department of Business Administration
B.Com (Business Administration)
Nomenclature of the Paper 2022-23

Programme Code	Semester	Paper No.	Subject Name	Course Code
BC03	I	I	Business Law	HCBM101
		II	Business Organisation	HCBM102
		III	Human Resource Management	HCBM103
		IV	Corporate Communication	HCBM104
	II	I	Commercial Legislations	HCBM201
		II	Entrepreneurship	HCBM202
		III	Marketing Management	HCBM203
		IV	Personality Development	HCBM204
	III	I	Company Law	HCBM301
		II	Principles of Management and Practices	HCBM302
		III	Organisational Theory and Practices	HCBM303
		IV	Ethics , Governance and Sustainability	HCBM304
	IV	I	Secretarial Practices	HCBM401
		II	Business Environment	HCBM402
		III	Sales Promotion and Sales Management	HCBM403
		IV	Business and Finance Environment	HCBM404
	V	I	Labour Legislation	HCBM501
		II	E-Commerce	HCBM502
		III	Organisational Change and Development	HCBM503
		IV	Research Methodology	HCBM504
	VI	I	Industrial Law	HCBM601
		II	Production and Material Management	HCBM602

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		III	Marketing communication and Advertising Management	HCBM603
		IV	Group Project and Presentation (Practical)	HCBM604

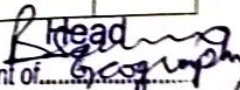


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Department of Geography
B.A HONS GEOGRAPHY
SEMESTER I-VI 2022-23

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CODE	COURSE TITLE/PAPER	NO.O F HRS /WEE K	INTERNAL	EXTERNAL	Time (ESE) HRS
SEMESTER-I					
HAGE101	Physical Geography-I (Geomorphology)	3	20	50	3
HAGE102	Human Geography -I	3	20	50	3
HAGE103	Economic Geography	3	20	50	3
HAGE104	Geography of Rajasthan -I (Physical and Cultural aspects)	3	20	50	3
HAGE151	Geography Practical-I	6	45	75	4
SEMESTER-II					
HAGE201	Physical Geography-II (Climatology & Oceanography)	3	20	50	3
HAGE202	Human Geography -II	3	20	50	3
HAGE203	Theories of Economic Geography	3	20	50	3
HAGE204	Geography of Rajasthan-II (Economic Aspects)	3	20	50	3
HAGE251	Geography Practical-II	6	45	75	4
SEMESTER-III					
HAGE301	Introduction to Political Geography	3	20	50	3
HAGE302	Cultural Geography-I	3	20	50	3
HAGE303	Fundamentals of Biogeography-I	3	20	50	3
HAGE304	Statistical Methods in Geography-I	3	20	50	3
HAGE351	Practical & Project -III	6	45	75	4
SEMESTER-IV					
HAGE401	Political Geography	3	20	50	3
HAGE402	Cultural Geography-II	3	20	50	3
HAGE403	Fundamentals of Biogeography-II	3	20	50	3
HAGE404	Statistical Methods in Geography-II	3	20	50	3
HAGE451	Practical & Project -IV	6	45	75	4
SEMESTER-V					
HAGE501	India-A Systematic Geography-I	3	20	50	3
HAGE502	Evolution of Geographical Thought-I	3	20	50	3
HAGE503	Agriculture Geography – An Introduction	3	20	50	3
HAGE504	Applied Geography-I	3	20	50	3
HAGE551	Geography Practical -V	6	45	75	4


 Department of Geography
 S.S. Jain Subodh P.G. College, Jaipur

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SEMESTER-VI					
HAGE601	India-A Systematic Geography-II	3	20	50	3
HAGE602	Evolution of Geographical Thought-II	3	20	50	3
HAGE603	Agriculture Geography	3	20	50	3
HAGE604	Applied Geography-II	3	20	50	3
HAGE651	Geography Practical -VI	6	45	75	4

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Bachelor of Computer Applications (BCA)

Three year (Six Semester) Course

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The course of study of Bachelor of Computer Applications (BCA) shall extend over a period of six semesters spread over three years. On satisfactory completion of the course and after passing the examinations, a candidate will be awarded the Bachelor of Computer Applications degree.

Every academic year shall be divided into two semesters. I semester starts from July and ends in December. II semester starts from January and ends in June and so on. There shall be an examination at the end of each semester. The examinations shall consist of theory papers, practical papers.

The examination of each semester will consist of four theory papers, and three practical papers.

Medium of instructions and examination will be **English only**.

Eligibility for admission:

Admission procedure for I semester starts in the month of June/July every year. The admission of the BCA course should be made irrespective of the stream (Arts/Science/Commerce) a candidate must have passed 10+2 level exam of any board with 50% or more (45% for SC/ST/OBC/SOBC category) in aggregate without any approximation.

Examination Scheme:

Each theory paper shall be of 100 marks (70 marks for written examination of 3 hrs duration and 30 marks for internal assessment).

Each practical paper shall be of 100 marks (60 for practical exam and 40 for internal assessment). The basis for internal evaluation in theory shall be home assignment, internal test and regularities in the attendance.

The basis for internal assessment in the laboratory courses shall be timely submission of the lab. records, performance in the lab., internal tests etc.

Each theory paper examination will be of three-hour duration and shall carry 70 marks. Theory paper shall contain three parts.


Semester V

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Paper Code	Nomenclature of the Paper	No. of Hours per Week	External Marks		Internal Marks		End Sem. Exam (in Hours)		
			Max.	Min.	Max.	Min.	Theory	Practical	
PBCA501	Computer Graphics	4	70	28	30	12	3		-
PBCA502	Dot Net Technologies	4	70	28	30	12	3		-
PBCA503	Programming in Python	4	70	28	30	12	3		-
PBCA504	Software Engineering	4	70	28	30	12	3		-
PBCA551	Computer Graphics Lab.	4	60	24	40	16	-		4
PBCA552	Dot Net Lab.	4	60	24	40	16	-		4
PBCA553	Python Lab.	4	60	24	40	16	-		4

Semester VI

Paper Code	Nomenclature of the Paper	No. of Hours per Week	External Marks		Internal Marks		End Sem. Exam (in Hours)		
			Max.	Min.	Max.	Min.	Theory	Practical	
PBCA601	E-Commerce Application Development	4	70	28	30	12	3		-
PBCA602	Cyber Security	4	70	28	30	12	3		-
PBCA603	Data Warehousing and Data Mining	4	70	28	30	12	3		-
	Elective Papers								
PBCA604-A	Artificial Intelligence and Expert Systems	4	70	28	30	12	3		-
PBCA604-B	Animation and Multimedia	4	70	28	30	12	3		-
PBCA651	Project	12	200	80	100	40	-		4


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S. S. Jain Subodh P.G. College
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(Department of Business Administration) **APPROVED**
Bachelor of Business Administration
(BBA)

Scheme of Examinations & Syllabus w. e. f. session 2022-23

(Semester - I)

Paper No.	Paper Code	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (End Sem. Exam)
1	PBBA 101	Principles and Practices of Management	03	70	30	100	3 Hrs.
2	PBBA 102	Business Communication	03	70	30	100	3 Hrs.
3	PBBA 103	Business Law	03	70	30	100	3 Hrs.
4	PBBA 104	Fundamentals of Computers	03	70	30	100	3 Hrs.
5	PBBA 105	Managerial Economics	03	70	30	100	3 Hrs.
6	PBBA 106	Fundamentals of Accounting	03	70	30	100	3 Hrs.

(Semester - II)

Paper No.	Paper Code	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1	PBBA 201	Entrepreneurship and Start up Management	03	70	30	100	3 Hrs.
2	PBBA 202	Human Resource Management	03	70	30	100	3 Hrs.
3	PBBA 203	Company Law	03	70	30	100	3 Hrs.
4	PBBA 204	Strategic Management	03	70	30	100	3 Hrs.
5	PBBA 205	Macro Economics	03	70	30	100	3 Hrs.
6	PBBA 206	Financial Management and Accounting	03	70	30	100	3 Hrs.

(Semester - III)

Paper No.	Paper Code	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1	PBBA 301	Indian Management Thought	03	70	30	100	3 Hrs.
2	PBBA 302	Marketing Management	03	70	30	100	3 Hrs.
3	PBBA 303	Personality Development	03	70	30	100	3 Hrs.
4	PBBA 304	Industrial and Production Management	03	70	30	100	3 Hrs.
5	PBBA 305	Fundamentals of Banking	03	70	30	100	3 Hrs.
6	PBBA 306	Business Statistics	03	70	30	100	3 Hrs.

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 Department
 BBA

 S. S. Jain Subodh P.G. College

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**S. S. Jain Subodh P.G. College
(Autonomous)
(Department of Business Administration)
Bachelor of Business Administration
(BBA)**

**Scheme of Examinations & Syllabus w. e. f. session 2022-23
(Semester - IV)**

Paper No.	Paper Code	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1	PBBA 401	Green Management and Sustainability	03	70	30	100	3 Hrs.
2	PBBA 402	Organizational Behavior	03	70	30	100	3 Hrs.
3	PBBA 403	Advertising and Sales Promotion	03	70	30	100	3 Hrs.
4	PBBA 404	E-Commerce	03	70	30	100	3 Hrs.
5	PBBA 405	Research Methods in Business Management	03	70	30	100	3 Hrs.
6	PBBA 406	Quantitative Techniques	03	70	30	100	3 Hrs.

(Semester - V)

Paper No.	Paper Code	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1	PBBA 501	Ethics and Corporate Social Responsibility	03	70	30	100	3 Hrs.
2	PBBA 502	Consumer Behavior and Marketing Research	03	70	30	100	3 Hrs.
3	PBBA 503	International Business	03	70	30	100	3 Hrs.
4	PBBA 504	Project Report and Viva-Voce	-	-	-	100	-
5	PBBA 505	Business Budgeting	03	70	30	100	3 Hrs.
6	PBBA 506	Management Accounting		70	30	100	3 Hrs.

(Semester - VI)

Paper No.	Paper Code	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1	PBBA 601	Retail Management	03	70	30	100	3 Hrs.
2	PBBA 602	Compensation Management	03	70	30	100	3 Hrs.
3	PBBA 603	Management Information System	03	70	30	100	3 Hrs.
4	PBBA 604	Group Project and Presentation		-	-	100	-
5	PBBA 605	Risk and Insurance Management	03	70	30	100	3 Hrs.
6	PBBA 606	Cost Accounting		70	30	100	3 Hrs.

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Jaipur

M.Sc. Physics Course Structure

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The medium of instruction and examination shall be English only.

First Semester

1. MSPH101 Classical Mechanics
2. MSPH102 Quantum Mechanics
3. MSPH 103 Classical Electrodynamics-I
4. MSPH 104 Mathematical Methods in Physics
5. MSPH 151 Electronics Lab/Advanced Optics Lab/General Lab
6. MSPH 152 Seminar-I/ Lab Project Work

Second Semester


1. MSPH 201 Electronics
2. MSPH 202 Atomic and Molecular Physics
3. MSPH 203 Classical Electrodynamics-II
4. MSPH 204 Numerical Methods
5. MSPH 251 Electronics Lab/Advanced Optics Lab/General Lab
6. MSPH 252 Seminar-II/ Lab Project Work

Third Semester

1. MSPH 301 Advance Quantum Mechanics
2. MSPH 302 Statistical and Solid State Physics
3. MSPH 303 Nuclear Physics -I
4. MSPH 304 Core Elective - I
 - MSPH 304A (i) Microwave Electronics - I
 - MSPH 304B (ii) Condensed Matter Physics-I
 - MSPH304C (iii) Nanotechnology
 - MSPH304D (iv) Basics of Astrophysics & Astronomy
5. MSPH 351 Advance Physics Laboratory
6. MSPH 352 Project Work/ Summer Training Project (STP)/ Seminar-I

Fourth Semester

1. MSPH 401 Introductory Quantum Field Theory
2. MSPH 402 Solid State Physics
3. MSPH 403 Nuclear Physics –II
4. MSPH 404 Core Elective – II
 - MSPH 404 (i) Microwave Electronics- II
 - MSPH 404 (ii) Condensed Matter Physics –II
 - MSPH 404C (iii) Nanotechnology
 - MSPH 404D (iv) Basics of Astrophysics & Astronomy
5. MSPH 451 Advance Laboratory Work
6. MSPH 452 Project Work/Summer Training Programme (STP)/Dissertation


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**S. S. Jain Subodh P.G. College, Jaipur
(Autonomous)**

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Master of Science (M.Sc.) Subject – Physics

Examination Scheme

Semester – I		
Paper	Nomenclature of paper	Max. Marks
PAPER – I [MSPH101]	CLASSICAL MECHANICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – II [MSPH102]	QUANTUM MECHANICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – III [MSPH103]	CLASSICAL ELECTRODYNAMICS - I	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – IV [MSPH104]	MATHEMATICAL METHODS IN PHYSICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – V [MSPH151]	ELECTRONICS LAB/ADVANCED OPTICS LAB/GENERAL LAB	80 Marks
PAPER – VI [MSPH152]	SEMINAR – I/LAB PROJECT WORK	60 Marks
	CIA (INTERNAL PRACTICAL MARKS)	60 Marks
	TOTAL	600 Marks
Semester – II		
Paper	Nomenclature of paper	Max. Marks
PAPER – I [MSPH201]	ELECTRONICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – II [MSPH202]	ATOMIC AND MOLECULAR PHYSICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – III [MSPH203]	CLASSICAL ELECTRODYNAMICS - II	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – IV [MSPH204]	NUMERICAL METHODS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – V [MSPH251]	ELECTRONICS LAB/ADVANCED OPTICS LAB/GENERAL LAB	80 Marks
	CIA (INTERNAL PRACTICAL MARKS)	60 Marks
PAPER – VI [MSPH252]	SEMINAR – II/LAB PROJECT WORK	60 Marks
	TOTAL	600 Marks

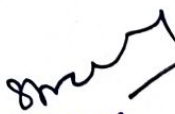

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Semester – III		
Paper	Nomenclature of paper	Max. Marks
PAPER – I [MSPH301]	ADVANCED QUANTUM MECHANICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – II [MSPH302]	STATISTICAL AND SOLID STATE PHYSICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – III [MSPH303]	NUCLEAR PHYSICS – I	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – IV [MSPH304(A)] [MSPH304(B)] [MSPH304(C)] [MSPH304(D)]	CORE ELECTIVES (i) MICROWAVE ELECTRONICS (ii) CONDENSED MATTER PHYSICS (iii) Nanotechnology (iv) Basics of Astrophysics & Astronomy	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – V [MSPH351]	ADVANCED PHYSICS LABORATORY	80 Marks
	CIA (INTERNAL PRACTICAL MARKS)	60 Marks
PAPER – VI [MSPH352]	PROJECT WORK/SUMMER TRAINING PROGRAMME(STP)/ SEMINAR – I	60 Marks
	TOTAL	600 Marks
Semester – IV		
Paper	Nomenclature of paper	Max. Marks
PAPER – I [MSPH401]	INTRODUCTORY QUANTUM FIELD THEORY	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – II [MSPH402]	SOLID STATE PHYSICS	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – III [MSPH403]	NUCLEAR PHYSICS – II	70 Marks
	CIA (INTERNAL MARKS)	30 Marks
PAPER – IV [MSPH404(A)] [MSPH404(B)] [MSPH404(C)] [MSPH404(D)]	CORE ELECTIVES (i) MICROWAVE ELECTRONICS (ii) CONDENSED MATTER PHYSICS (iii) Nanotechnology (iv) Basics of Astrophysics & Astronomy	
	CIA (INTERNAL MARKS)	30 Marks
PAPER – V [MSPH451]	ADVANCED LABORATORY WORK	80 Marks
	CIA (INTERNAL PRACTICAL MARKS)	60 Marks
PAPER – V [MSPH452]	PROJECT WORK/SUMMER TRAINING PROGRAMME(STP)/ DISSERTATION	60 Marks
	TOTAL	600 Marks

Theory Classes : Four hours per paper per week.

Practical Classes : Three hours per day, all six days a week.


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Semester IV

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Semester Scheme

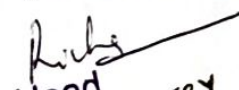
Group A : Elective Papers : Organic Chemistry

Paper Code	Paper title	Course Category	Total contact hours per semester / per week		Maximum Marks	Minimum Marks	ESE in hrs	
							Theory	Practical
MSCH 401A	Green Chemistry	DSE	60	4	100	40	3	-
MSCH402A	Organic Synthesis-II	DSE	60	4	100	40	3	-
MSCH 403A	Medicinal Chemistry and Natural Products-II	DSE	60	4	100	40	3	-
MSCH404A	Heterocyclic Chemistry-II	DSE	60	4	100	40	3	-
MSCH451	Inorganic Chemistry Practical / Field Project / Internship / dissertation	DSEP	90	6	100	40	-	6
MSCH 452A	Organic Chemistry Practical / Field Project / Internship / dissertation	DSEP	90	6	100	40	-	6
MSCH 453A	Seminar Project	-			100	40	-	-
					700		-	-
Group B: Elective Papers : Physical Chemistry								
MSCH 401B	Nanochemistry and Nanocatalysis	DSE	60	4	100	40	3	-
MSCH 402B	Polymer Chemistry	DSE	60	4	100	40	3	-
MSCH 403B	Chemistry of Materials	DSE	60	4	100	40	3	-
MSCH 404B	Advanced Electrochemistry -II	DSE	60	4	100	40	3	-
MSCH 451	Inorganic Chemistry Practical / Field Project / Internship / dissertation	DSEP	90	6	100	40	-	6
MSCH452B	Physical Chemistry Practical / Field Project / Internship / dissertation	DSEP	90	6	100	40	-	6
MSCH453B	Seminar Project	-			100	40	-	-
					700		-	-

The details of the courses with code and title assigned are given below.

DSE= Discipline Specific Elective ESE = End Semester Examination

DSEP = Discipline Specific Elective Practical


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 Department of CHEMISTRY
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S. S. Jain Subodh PG (Autonomous) College, Jaipur

Department of Mathematics

Master of Science

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Examination Scheme:

Semester - I		
Paper	Nomenclature of paper	Max. Marks
MSMA101	Algebra -I	70 Marks
MSMA102	Real Analysis	70 Marks
MSMA103	Differential Equations-I	70 Marks
MSMA104	Differential Geometry	70 Marks
MSMA105	Dynamics of Rigid Bodies	70 Marks
MSMA106	Calculus of Variation and Special Function-I	70 Marks
Semester - II		
Paper	Nomenclature of paper	Max. Marks
MSMA201	Algebra -II	70 Marks
MSMA202	Topology	70 Marks
MSMA203	Differential Equations-II	70 Marks
MSMA204	Riemannian Geometry and Tensor Analysis	70 Marks
MSMA205	Hydrodynamics	70 Marks
MSMA206	Special Function-II	70 Marks
Semester - III		
Paper	Nomenclature of paper	Max. Marks
MSMA301	Functional Analysis-I	70 Marks
MSMA302	Viscous Fluid Dynamics-I	70 Marks
MSMA303	Mathematical Programming-I	70 Marks
MSMA304	Integral Transforms	70 Marks
MSMA305	Relativistic Mechanics	70 Marks
MSMA306	Numerical Analysis-I	70 Marks

Semester - IV		
Paper	Nomenclature of paper	Max. Marks
MSMA401	Functional Analysis-II and Advanced Calculus	70 Marks
MSMA402	Viscous Fluid Dynamics-II	70 Marks
MSMA403	Mathematical Programming-II	70 Marks
MSMA404	Integral Equations	70 Marks
MSMA405	General Relativity & Cosmology	70 Marks
MSMA406	Numerical Analysis-II	70 Marks
MSMA407	Project/Dissertation	100 Marks

Student can Opt Project/ Dissertation in lieu of any paper in IV Semester.

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M.Sc. Botany course Structure

M.Sc. Botany course will be completed in two academic years; There will be two semesters in each year.

The medium of instruction and examination shall be English only.

First Year

First Semester

1. MSBO 101 Cell Biology and Evolution
2. MSBO 102 Morphology and Diversity of Non Vascular Plants
3. MSBO 103 Biology and Diversity of Microbes
4. MSBO 104 Plant Ecology and Environment
5. MSBO 151 PRACTICAL and seminar
6. MSBO 152 PRACTICAL and seminar

Second Semester

1. MSBO 201 Genetics and Plant Breeding
2. MSBO 202 Morphology and Diversity of Vascular Plants
3. MSBO 203 Phytopathology
4. MSBO 204 Plant Physiology and Metabolism
5. MSBO 251 PRACTICAL and seminar
6. MSBO 252 PRACTICAL and seminar


Second Year

Third Semester

1. MSBO 301 Molecular Biology
2. MSBO 302 Taxonomy of Angiosperms
3. MSBO 303 Morphology and Developmental Anatomy of Angiosperms
4. MSBO 304 Core Electives I: Advanced Plant Pathology-I /
Core Electives II: Seed Science and Technology-I/
Core Electives I: Advanced Plant Physiology - I
5. MSBO 351 PRACTICAL and Seminar
6. MSBO 352 PRACTICAL and Submission of synopsis with viva-voce

Fourth Semester

1. MSBO 401 Embryology of Angiosperms
2. MSBO 402 Plant Resource Utilization and Ethnobotany
3. MSBO 403 Plant Biotechnology and Genetic Engineering
4. MSBO 404 Core Electives II: Advanced Plant Pathology-II /
Core Electives II: Seed Science and Technology-II/
Core Electives II: Advanced Plant Physiology - II
5. MSBO 451 PRACTICAL and seminar
6. MSBO 452 PRACTICAL and Submission of **Dissertation of project work/training programme report**


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Botany
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S.S.JAIN SUBODH P.G. COLLEGE, JAIPUR

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Syllabus

**SCHEME OF EXAMINATION AND COURSES OF STUDY FACULTY OF
SCIENCE
DEPARTMENT OF ZOOLOGY**

**M.Sc. Zoology
(I, II, III and IV Semester)**

SESSION-2022-23

Max.Marks(Theory):400

Nomenclature			External/ Theories	Internal/ Theories	Total Mini. Marks	Total Max Marks
Core Papers:						
MSZO401	Paper I	Applied Zoology & Biostatistics	70	30	40	100
MSZO402	Paper II	Tools & Techniques in Biology	70	30	40	100
Elective I: Environmental Toxicology						
MSZO403A	Paper III	Applied Aspects of Toxicology	70	30	40	100
MSZO404A	Paper IV	Bio monitoring & Bioremediation	70	30	40	100
Elective II: Radiation Biology						
MSZO403B	Paper III	Principles of Radiation Protection, Legislation & International Framework	70	30	40	100
MSZO404B	Paper IV	Occupational Exposure and Radiation Safety	70	30	40	100
Elective III: Entomology						
MSZO403C	Paper III	Industrial, Medical & Veterinary Entomology	70	30	40	100
MSZO404C	Paper IV	Insect Toxicology and Pest Control	70	30	40	100
Elective IV: Cell & Molecular Biology						
MSZO403D	Paper III	Cellular mechanics	70	30	40	100
MSZO404D	Paper IV	Molecular Immunology	70	30	40	100
MSZO 451 Practical (External) Lab Work & Seminar			50	50	80	200
MSZO452 Elective Practical (External) & Dissertation (Internal)			50	50		

Note: Minimum number of applicants must be 10 to run the special paper.

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S.S.JAIN SUBODH P.G. (Autonomous) COLLEGE JAIPUR

(Affiliated to University of Rajasthan)



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SYLLABUS

SCHEME OF EXAMINATION AND COURSES OF STUDY

FACULTY OF SCIENCE

DEPARTMENT OF ENVIRONMENTAL SCIENCE

- **M.Sc. Environmental Science (I, II, III and IV Semester-XXXXXXXXXX)**
- **Foundation Environmental Studies for BA/B.Com./B.Sc. (Compulsory in Semester III and IV)**

M.Sc.I Semester

Max.Marks (Theory): 400

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Nomenclature			External/ Theories	Internal / Theories	Total Max Marks	Total Mini. Marks
MES 101	Paper I	Ecology and Ecosystem	70	30	100	40
MES 102	Paper II	Biodiversity and Conservation	70	30	100	40
MES 103	Paper III	Environmental Pollution and Health	70	30	100	40
MES 104	Paper IV	Environmental Issues: Regional and Global	70	30	100	40
MES 111 Practical: Based on Theory Paper Max Marks 200						
			Experimental work	80	200	80
			Seminar	60		

M.Sc. II Semester

Nomenclature			External/ Theories	Internal / Theories	Total Max. Marks	Total Mini. Marks
MES 201	Paper I	Waste Management	70	30	100	40
MES 202	Paper II	Environmental Policies, Legislation and Ethics	70	30	100	40
MES 203	Paper III	Environmental Chemistry	70	30	100	40
MES 204	Paper IV	Environmental Disasters and Management	70	30	100	40
MES 211 Practical: Based on Theory Paper Max Marks 200						
			Experimental work	80	200	80
			Seminar	60		

M.Sc. III Semester

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Max. Marks Theory Papers: 400

Nomenclature			External/ Theories	Internal / Theories	Total Max. Marks	Total Mini. Marks
MES 301	Paper I	Instrumentation for Environmental Monitoring and Analysis	70	30	100	40
MES 302	Paper II	Environmental Bioremediation Process and Technology	70	30	100	40
MES 303	Paper III	Pollution Control Technology	70	30	100	40
MES 304	Paper IV	Statistics, Environmental Modeling and Research Methodology	70	30	100	40
MES 311 Practical: Based on Theory Paper Max Marks 200						
Experimental work			80	60	200	80
Synopsis Preparation of Minor/ Major Research work				60		

M.Sc. IV Semester

Max. Marks Theory Papers: 400

Nomenclature			External/ Theories	Internal /Theories	Total Max. Marks	Total Mini. Marks
MES 401	Paper I	Environmental Impact Assessment and Sustainable Development	70	30	100	40
MES 402	Paper II	Environmental Clearance and Environmental Audit	70	30	100	40
MES 403	Paper III	Remote sensing & GIS FOR Environmental Science	70	30	100	40
MES 404	Paper IV	Energy and Environment	70	30	100	40
MES 411 Practical: Based on Theory Paper , Max Marks :200						
Experimental work			80	60	200	80
Industrial Training / Minor Research work				60		

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M. Sc. Biotechnology
Semester Structure: The details of the courses with code, title assigned is as given below.

Duration: 4 Semesters (2 Years)

Semester-I

Paper I -Cell Biology

Paper II- Genetics

Paper III- Microbiology

Paper IV- Elective 1 (Analytical techniques)

Lab 1- Based on Papers I & II

Lab 2- Based on Papers III & IV

Semester -II

Paper I -Molecular Biology

Paper II- Enzymology

Paper III- Immunology

Paper IV- Elective 2 (Virology)

Lab 1- Based on Papers I & II

Lab 2- Based on Papers III & IV

Semester III

Paper I -Genetic Engineering and System Biology

Paper II- Animal Biotechnology

Paper III- Seminar,Scientific Writing and Power Point Presentation

Paper IV- Elective 3 (Bioinformatics & Biostatistics)

Lab 1- Based on Papers I & II

Lab 2- Based on Papers III & IV

Semester IV

Paper I -Plant Biotechnology

Paper II- IPR & Bioethics

Paper III-Dissertation and Industrial training

Paper IV- Elective 4 (Bio-processing Engineering)

Lab 1- Based on Papers I & II

Lab 2- Based on Papers III & IV

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Semester -III

Paper code	Paper No	Nomenclature	Course Category	EoSE Duration		EoSE Assessment			
				Theo	Prac	EX.	In.	Min.marks	Max.marks
	Paper I	Genetic Engineering & System Biology	CCC	3hrs	0	70	30	36	100
	Paper II	Animal Biotechnology	CCC	3hrs	0	70	30	36	100
	Paper III	Seminar & Their Presentation	CCC	3hrs	0	70	30	36	100
	Paper IV	Elective-3 (Bioinformatics & Biostatistics)	CCC	3hrs	0	70	30	36	100
	Lab 1	Practicals based on Paper I & II	CCC	0	4hrs	60	40	40	100
	Lab 2	Practicals based on Paper III & IV	CCC	0	4hrs	60	40	40	100

Semester IV

Paper code	Paper No	Nomenclature	Course Category	EoSE Duration		EoSE Assessment			
				Theo	Prac	EX.	In.	Min.marks	Max.marks
	Paper I	Plant Biotech	CCC	3hrs	0	70	30	36	100
	Paper II	Bioethics & IPR	CCC	3hrs	0	70	30	36	100
	Paper III	Dissertation and Industrial training	CCC	3hrs	0	70	30	36	100
	Paper IV	Elective-4 (Bioprocessing engineering)	CCC	3hrs	0	70	30	36	100
	Lab 1	Practicals based on Paper I & II	CCC	0	4hrs	60	40	40	100
	Lab 2	Practicals based on Paper III & IV	CCC	0	4hrs	60	40	40	100


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 S.S. Jain Subodh P.G. College, Jaipur

APPROVED**4. SEMESTER STRUCTURE: M. Sc. Microbiology**

The details of the course with code and title assign are as given below:

Semester I	Paper Code	Name of Paper
Paper I	MSMB101	General Microbiology
Paper II	MSMB102	Bioinstrumentation and Microbial Techniques
Paper III	MSMB103	Microbial Biochemistry and Physiology
Paper IV	MSMB104	Food and Dairy Microbiology
PR-I	MSMB151	Based on Theory Papers (1 & 2)
PR-II	MSMB152	Based on Theory Papers (3 & 4)
Semester II	Paper Code	Name of Paper
Paper I	MSMB201	Bacteriology
Paper II	MSMB202	Molecular Biology and Microbial Genetics
Paper III	MSMB203	Microbial Ecology
Paper IV	MSMB204	Medical Microbiology
PR-I	MSMB251	Based on Theory Papers (1 & 2)
PR-II	MSMB252	Based on Theory Papers (3 & 4)
Semester III	Paper Code	Name of Paper
Paper I	MSMB301	Virology
Paper II	MSMB302	Environmental and Agricultural Microbiology
Paper III	MSMB303	Genetic Engineering
Paper IV	MSMB304	Pharmaceutical Microbiology
PR-I	MSMB351	Based on Theory Papers (1 & 2)
PR-II	MSMB352	Based on Theory papers (3 & 4) Project /Seminar/Educational Tour
Semester IV	Paper Code	Name of Paper
Paper I	MSMB401	Immunology
Paper II	MSMB402	Industrial Microbiology
Paper III	MSMB403	Bioethics, Biosafety and IPR
Paper IV	MSMB404	Clinical Microbiology
PR-I	MSMB451	Based on Theory Papers (1 & 2)
PR-II	MSMB452	Based on Theory papers (3 & 4) project/presentation / dissertation/Seminar /Educational Tour


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 Department of Microbiology
 S.S. Jain Subodh P.G. College, Jaipur

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M. Sc. Microbiology course will be completed in two academic years; there will be two semesters in each year. The medium of instruction and examination shall be English only.

Semester-I

- MSMB101 Paper I : General Microbiology
MSMB102 Paper II : Bioinstrumentation and Microbial Techniques
MSMB103 Paper III: Microbial Biochemistry and Physiology
MSMB104 Paper IV: Food and Dairy Microbiology
MSMB151 Lab 1 : Based on Theory Papers (1 & 2)
MSMB152 Lab 2 : Based on Theory Papers (3 & 4)

Semester-II

- MSMB201 Paper I : Bacteriology
MSMB202 Paper II : Molecular Biology and Microbial Genetics
MSMB203 Paper III : Microbial Ecology
MSMB204 Paper IV : Medical Microbiology
MSMB251 Lab 1 : Based on Theory Papers (1 & 2)
MSMB252 Lab 2 : Based on Theory Papers (3&4)

Semester-III

- MSMB301 Paper I : Virology
MSMB302 Paper II : Environmental and agriculture Microbiology
MSMB303 Paper III : Genetic Engineering
MSMB304 Paper IV: Pharmaceutical Microbiology
MSMB351 Lab 1 : Based on Theory Papers (1 & 2)
MSMB352 Lab 2 : Based on Theory Papers (3&4) /Project /Seminar/Educational Tour

Semester-IV

- MSMB401 Paper I : Immunology
MSMB402 Paper II : Industrial Microbiology
MSMB403 Paper III : Bioethics, Biosafety and IPR
MSMB404 Paper IV : Clinical Microbiology
MSMB451 Lab 1 : Based on Theory Papers (1 & 2)
MSMB452 Lab 2 : Based on Theory Papers (3 & 4), project/Dissertation/Seminar/Educational tour etc


Head
Department of Microbiology
S.S. Jain Subodh P.G. College, Jaipur

Contents:

1. Eligibility
2. Objectives:
3. Scheme of Examination
4. Semester Structure
5. Course Outcome

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1. ELIGIBILITY:

10+2+3 with 55% from any recognized University in Science Stream in the concerned discipline/ CGPA of 3.5 in the UGC Seven Point scale. For candidates from outside state of Rajasthan 60% or CGPA of 4.0 in the UGC Seven Point Scale will be applicable irrespective of the category.

2. OBJECTIVES:

The objective of the course M.Sc. Microbiology is to impart knowledge of Microbiology to graduates of Biology with an emphasis on the world of microbes, their evolution to the present forms over time, their habitats and their co-existence with each other. Thus, knowledge of Microbiology is essential to experience the wonders of nature in the fullest. The program enhances students to take up emerging opportunities in Life Sciences, in fields like Aqua Culture, Fisheries, Nanotechnology, Medical Informatics and Environmental Management. Students are provided with requisite skills to take up **research**, teaching, entrepreneurship and other employment opportunities in Microbiology.

The main Goals and objectives of the course are: The Department stabs to achieve the overall goals and objectives of the college and also focuses on the following special departmental objectives:

- Provide quality education in natural science.
- Inculcate the spirit of resource conservation and love for nature.
- Motivate students for self-employment in applied branches of Microbiology.
- Equip the students for higher education.
- Impart value based education and makes them members of civil society and provide opportunities for professional and personal development through curricular and cocurricular activities.
- Conduct field studies - document biodiversity, water quality, soil profile etc. through **student projects** and faculty **research**, and Provide consultancy and organize extension activities.


About the Department:

The Department of Microbiology since its foundation is deeply committed to provide quality education with equal emphasis on holistic theoretical and practical learning for students ensures them the in depth understanding of forefront of microbiology. The Department houses advance instruments like ELISA Reader, PCR-thermocycler, cooling ultracentrifuges, LAF station, BOD Incubator, Spectrophotometer, UV transilluminator and fluorescence microscope, electrophoresis unit, digital colony counter etc. The mandates of the department are to shape microbiologists of excellent caliber with **good technical and research skills** with essential industrial visits and certified trainings to improve their employability in academia as well as industries. The department aims to place students in good positions in the marketplace, therefore attracts a large number of students looking at the vast scope of the subject. The students from this department are already employed in various National/International academic, **research** and industrial organizations. Considering modern microbiological approaches and applications, the curriculum is designed to enlighten the students in basics of Microbiology to advancements.

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- carry two marks for correct answer.
3. Parts "B" of EoSE theory paper will consist of four questions from each unit with internal choice of 14 marks each. The limit of answer will be five pages.
 4. Each Laboratory EoSE will be of four hour durations and involve laboratory experiments/exercises/ Seminar presentation / Synopsis presentation/Project work or field study / Industrial Training/ consultancy training and viva-voce examination consisting of 200 Marks.
 5. The aim of Project work or field study /Research laboratories/ Hospital training is to introduce students to research methodology in the subject and prepare them for pursuing research in theoretical or experimental or computational areas of the subject. The project work or Field Study is to be undertaken under guidance jointly by Head of the Department and a senior faculty or a Scientist or any other suitable person with proven research excellence in the concerned field of study. Project work or field study /Hospital Training/ can also be taken up in an outside institution of repute Department. The guide will make continuous internal assessment of the Project work or field study/Hospital Training. EoSE for Project work or field study / Hospital Training and seminar will be held at department of the college by a board of three examiners consisting of HOD, two senior faculty of the department or expert from interdisciplinary department of the institution.
 6. Supplementary/due paper/ special examinations will be resolute as per the institutions autonomous rules.
 7. Grade/CGPA/percentage/division will be decided as per the autonomous guidelines of the institution.


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Department of Microbiology
S.S. Jain Subodh P.G. College, Jaipur

MCA (Master of Computer Applications)

MCA SYALLABUS YEAR-II SESSION 2021-22
YEAR-II

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1. III-Semester (Second Year)

S No	Category	Credit
1	Theory	18
2	Practical	03
3	SODECA	02
Total		23

III-Semester (Second Year) MCA Year 2 - Semester III								
Theory								
S. No.	Course Code	Course Title	Hours		Marks			Credits
			L	P	IA	ETE	Total	
1	MCA-301	Cloud Computing	3		30	70	100	3
2	MCA-302	Analysis and Design of Algorithm	3		30	70	100	3
3	MCA-303	Artificial Intelligence	3		30	70	100	3
4	MCA-304	Information Security	3		30	70	100	3
5	MCA-305	Mobile Application Development	3		30	70	100	3
6	MCA-306	Elective 1	3		30	70	100	3
Practical								
1	MCA-351	ADA Lab		2	30	70	100	01
2	MCA-352	Mobile Application Development Lab		2	30	70	100	01
3	MCA-353	Summer Industrial Training Presentation		2	30	70	100	01
4		SODECA						02
Total					270	630	900	23

L= Lecture, P = Practical, IA = Internal Assessment, ETE = End Term Exam

Elective -1:

- Data Mining and Warehousing
- Big Data Technologies
- Soft Computing

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2. IV-Semester (Second Year)

S No	Category	Credit
1	Theory	06
2	Practical	06
3	SODECA	02
Total		14

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MCA Year 2 - Semester IV								
Theory								
S. No.	Course Code	Course Title	Hours		Marks			Credits
			L	P	IA	ETE	Total	
1	MCA-401	Software Project Management	3		30	70	100	3
2	MCA-402	Elective 2	3		30	70	100	3
Practical								
3	MCA-451	Industrial Project		12	30	70	100	06
4		SODECA						02
Total					90	210	300	14

L= Lecture, P = Practical, IA = Internal Assessment, ETE = End Term Exam

Note: The industrial project is part of the curriculum will be held in the institute as one of the laboratories. This may be in continuations to the project under taken by the student during industrial training and/or of industrial nature and/or have good industrial significance and/or may be done in collaboration with industry (as per suitability at the institute level). The evaluation will be done in the institute by one internal examiner and one external examiner (from outside the institute) appointed by RTU.

- Elective 2:**
- a) Principles of Management and Information System
 - b) Machine Learning
 - c) Data Science with R

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M.Sc. Information Technology Semester III

Paper Code	Theory Papers	Teaching Per Week Hrs	End Semester Exam (ESE)	Continuous Internal Assessment (CIA)	Exam Hrs.	Credits
PMIT301	.Net Technologies	04	70	30	03	4
PMIT302	Python Programming	04	70	30	03	4
PMIT303	PHP	04	70	30	03	4
PMIT304	E-Commerce Application Development	04	70	30	03	4
PMIT305	Software Engineering and Testing	04	70	30	03	4
	Practical Papers					
PMIT351	.Net Lab	04	60	40	06	3
PMIT352	Python Lab	04	60	40	06	3
PMIT353	PHP Lab	04	60	40	06	3
	Total	32	530	270	33	29

M.Sc. Information Technology Semester IV

Paper Code	Theory (Elective Paper)	Teaching Per Week Hrs	End Semester Exam (ESE)	Continuous Internal Assessment (CIA)	Exam Hrs.	Credits
PMIT401	Data Warehousing and Data Mining	04	70	30	03	4
PMIT402	Elective Paper-I Artificial Intelligence and Expert Systems Information Protection and Security	04	70	30	03	4
PMIT403	Elective Paper-II Open Source Operating System Mobile Application Development	04	70	30	03	4
	Practical /Project					
PMIT451	Linux Lab	04	60	40	04	3
PMIT452	Mobile Application Lab					
PMIT453	Project(Project, Report, Viva)	08	120	80	04	6
	Total	24	390	210	17	21

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Department of Geography
M.Sc. GEOGRAPHY
SEMESTER I-IV 2022-23

CODE	COURSE TITLE/PAPER	NO.OF HRS /WEEK	INTERNAL	EXTERNAL	Time (ESE) HRS
SEMESTER-I					
MSGE101	Geographical Thought-I (Upto Medieval period)	4	30	70	3
MSGE102	Dynamic Geomorphology	4	30	70	3
MSGE103	Economic Geography	4	30	70	3
MSGE104A / MSGE104B	Man and Natural Environment – I / Quantitative Techniques in Geography-I	4	30	70	3
MSGE151	Geography Practical-I	12	80	120	4
SEMESTER-II					
MSGE201	Geographical Thought-II ((Modern))	4	30	70	3
MSGE202	Climatology & Oceanography	4	30	70	3
MSGE203	Principles and Theory of Economic Geography	4	30	70	3
MSGE204A/ MSGE204B	Man and Natural Environment – II / Quantitative Techniques in Geography-II	4	30	70	3
MSGE251	Practical & Village Project-II	12	80	120	4
SEMESTER-III					
MSGE301	Advanced Geography of India	4	30	70	3
MSGE302A/ MSGE302B	Agricultural Geography-I/ Disaster Perception and Management	4	30	70	3
MSGE303A / MSGE303B	Urban Geography/ Regional Planning	4	30	70	3
MSGE304A/ MSGE304B/ MSGE304C	Political Geography/ Water Resource and their Management-I/ Research Methodology	4	30	70	3
MSGE351	Geography Practical & Project Work - III	12	80	120	4
SEMESTER-IV					
MSGE401	Geography of Rajasthan	4	30	70	3
MSGE402A/ MSGE402B	Agricultural Geography-I/Climatology	4	30	70	3
MSGE403A / MSGE403B/ MSGE403C	Industrial Geography/ Fundamentals of Remote Sensing	4	30	70	3
MSGE404A/ MSGE404B/ MSGE404C	Biogeography/Water Resource and their Management-II/Applied Geography	4	30	70	3
MSGE451	Geography Practical -IV	12	80	120	8

[Signature]

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S. S. Jain Subodh P.G. College, Jaipur

Autonomous M.Sc. Psychology Syllabus Semester Scheme

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M.Sc. Semester-III

S. No.	Subject Code	Course Title	Contact hours/ week	EoSE Duration (Hrs.)	
				Theory	Practical
1	MAPY301 / MSPY301	Cognitive Psychology	4	3	0
2	MAPY302 / MSPY302	Research Designs	4	3	0
3	MAPY303A / MSPY303A	Foundations of Clinical Psychology	4	3	0
4	MAPY303B / MSPY303B	Clinical Disorders	4	3	0
5	MAPY304A / MSPY304A	Counselling Psychology	4	3	0
6	MAPY304B / MSPY304B	Child and Adolescent Counselling	4	3	0
7	MAPY305/ MSPY305	Project Work (PRJ)	-	-	-
8	MAPY351/ MSPY351	General Lab	9	0	4

Department will offer minimum two and maximum three theory elective courses for the semester based on options submitted by the students and availability of faculty to teach the course.

M. Sc. Semester – IV

S. No	Subject Code	Course Title	Contact Hours/ Week	EoSE Duration (Hrs.)	
				Theory	Practical
1	MAPY401 /MSPY401	Indian Psychology	4	3	0
2	MAPY402 /MSPY402	Applied Psychology	4	3	0
3	MAPY403A/MSPY403A	Psychodiagnostics	4	3	0
4	MAPY403B / MSPY403B	Therapeutic Approaches	4	3	4
5	MAPY404A / MSPY404A	Counselling Theories and Techniques	4	3	0
6	MAPY404B / MSPY404B	Vocational Psychology	4	3	0
7	MAPY405/ MSPY405	Project Work	4	3	0
8	MAPY451/ MSPY451	General Lab	9	0	4

Department will offer minimum two and maximum three theory elective courses for the semester based on options submitted by the students and availability of faculty to teach the course.

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S. S. JAIN SUBODH P.G. COLLEGE

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SCHEME OF EXAMINATION & DETAILED COURSE STRUCTURE

FOR

MASTER OF COMMERCE (M.COM.)

Accountancy and Business Statistics (ABST)

RAMBAGH CIRCLE, TONK ROAD, JAIPUR, RAJASTHAN

N.P. Turanki

Head

Department of.....**ABST**.....
S.S. Jain Subodh P.G. College, Jaipur

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THIRD SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
MCAS301	Research Methodology	03	30	70	100
MCAS302	Custom Duty	03	30	70	100
MCAS303	Project Planning & Management	03	30	70	100
MCAS304	Tax Planning	03	30	70	100

FOURTH SEMESTER EXAMINATION

Code No.	Name of Paper	No. of Hours Per Week	Internal Marks	External Marks	Total Marks
MCAS401	Operational Research and Quantitative Techniques	03	30	70	100
MCAS402	Financial Reporting	03	30	70	100
MCAS403	Strategic Financial Management	03	30	70	100
MCAS404	Dissertation (Project) and comprehensive Viva	03		100	100

Note: The Student shall be permitted to use Battery operated calculator that should not have more than 12 digits, 6 functions and 2 memories and should be noiseless and cordless.

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S. S. Jain Subodh P.G. (Autonomous) College

(Economic Administration and Financial Management)

M.Com. Scheme of Examinations & Syllabus

APPROVED

(Semester - I)

Paper No.	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1.	Economic Analysis	4	70	30	100	3Hrs.
2.	Financial Management	4	70	30	100	3Hrs.
3.	Business Budgeting	4	70	30	100	3Hrs.
4	Public Finance	4	70	30	100	3Hrs.

(Semester - II)


Paper No.	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1.	Managerial Economics	4	70	30	100	3Hrs.
2.	Financial Analysis & Control	4	70	30	100	3Hrs.
3.	Project Planning & Control	4	70	30	100	3Hrs.
4	Financial System in India	4	70	30	100	3Hrs.

(Semester - III)

Paper No.	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1.	Indian Economy	4	70	30	100	3Hrs.
2.	Indian Banking System	4	70	30	100	3Hrs.
3.	International Banking	4	70	30	100	3Hrs.
4	Research Methodology And Statistics	4	70	30	100	3Hrs.

(Semester - IV)

Paper No.	Nomenclature of the Paper	No. of Hours per week	Theory	Internal	Total	Time (end sem. exam)
1.	Co-Operative Sector Management	4	70	30	100	3Hrs.
2.	Bank Management	4	70	30	100	3Hrs.
3.	Rural Development	4	70	30	100	3Hrs.
4	Central Banking	4	70	30	100	3Hrs.
5.	Dissertation	NA	NA	NA	100	NA


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Department of Business Administration
M.Com. (Business Administration)
Nomenclature of the Paper 2022-23

Programme Code	Semester	Paper No.	Subject Name	Course Code
MC03	I	I	Theory and Practice of Management	MCBM101
		II	Marketing Management	MCBM102
		III	Human Resource Management	MCBM103
		IV	Managerial Economics	MCBM104
	II	I	Management Thinkers	MCBM201
		II	Advertising Management	MCBM202
		III	Organisational Behaviour	MCBM203
		IV	Financial Management	MCBM204
	III	I	Business Environment	MCBM301
		II	E-Commerce	MCBM302
		III	International Business	MCBM303
		IV	Research Methodology	MCBM304
	IV	I	Strategic Management	MCBM401
		II	Tourism Marketing	MCBM402
		III	Human Resource Development	MCBM403
		IV	Dissertation	MCBM404

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Department of..... Bus. Adm. :
S.S Jain Subodh P.G. College, Jaipur

S. S. Jain Subodh P. G. College
M.A. Political Science
Scheme of Examinations & Syllabus (2022-23)

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FIRST SEMESTER

S. No.	Subject Code	Course Title	ESE	Internal	Total	Duration ESE
1	MAPO 101	Western Political Thought -I	70	30	100	3 hrs.
2	MAPO 102	Indian Political Thought-I	70	30	100	3 hrs.
3	MAPO 103	International Politics-I	70	30	100	3 hrs.
4	MAPO 104	Theory and Practice of Public Administration-I	70	30	100	3 hrs.

SECOND SEMESTER

S. No.	Subject Code	Course Title	ESE	Internal	Total	Duration ESE
1	MAPO 201	Western Political Thought -II	70	30	100	3 hrs.
2	MAPO 202	Indian Political Thought-II	70	30	100	3 hrs.
3	MAPO 203	International Politics-II	70	30	100	3 hrs.
4	MAPO 204	Theory and Practice of Public Administration-II	70	30	100	3 hrs.

THIRD SEMESTER

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S. No.	Subject Code	Course Title	ESE	Internal	Total	Duration ESE
1	MAPO 301	Comparative Politics and Institutions	70	30	100	3 hrs.
2	MAPO 302	Indian Government & Politics (Constitutional Framework)	70	30	100	3 hrs.
3	MAPO 303	Research Methodology	70	30	100	3 hrs.
4	MAPO 304A	Modern Indian Political Thought-I	70	30	100	3 hrs.
5	MAPO 305A	Foundation of Gandhian Thought-I	70	30	100	3 hrs.
6	MAPO 304B	Theory of Diplomacy	70	30	100	3 hrs.
7	MAPO 305B	Foreign Policies of USA, Russia, and China	70	30	100	3 hrs.
8	MAPO 304C	Public Administration in India	70	30	100	3 hrs.
9	MAPO 305C	State Politics in India	70	30	100	3 hrs.

FOURTH SEMESTER

S. No.	Subject Code	Course Title	ESE	Internal	Total	Duration ESE
1	MAPO 401	Contemporary Political Theory	70	30	100	3 hrs.
2	MAPO 402	Indian Government & Politics (Practice and Process)	70	30	100	3 hrs.
3	MAPO 403	Research Methodology-II/ Dissertation	70	30	100	3 hrs.
4	MAPO 404A	Modern Indian Political Thought-II	70	30	100	3 hrs.
5	MAPO 405A	Foundation of Gandhian Thought-II	70	30	100	3 hrs.
6	MAPO 404B	Practice of Diplomacy	70	30	100	3 hrs.
7	MAPO 405B	India's Foreign Policy	70	30	100	3 hrs.
8	MAPO 404C	Comparative Public Administration	70	30	100	3 hrs.
9	MAPO 404D	Project/Field Visit/Summer Training			100	
9	MAPO 405C	Electoral System in India, Electoral Reforms	70	30	100	3 hrs.

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M.A Course (History) 2022-23
Course Code

Semester	Programme Name	Programme Code	Paper Title	Course Code
I	M.A. History	MA02	Main Trends In The History of Modern World (Up to 1900 AD)-I	MAHS101
I	M.A. History	MA02	History of Modern World (1900-2000 Ad): Part-I	MAHS102
I	M.A. History	MA02	Main Trends In The History And Culture of Rajasthan - I	MAHS103
I	M.A. History	MA02	Group (A) Ancient Indian History (Earliest Times To C.200 B.C.)-I	MAHS104A
I	M.A. History	MA02	Group (B)Medieval Indian History (A. D. 750-1526) - I	MAHS104B
I	M.A. History	MA02	Group(C) Modern Indian History (1756-1905 A. D) -I	MAHS104C
II	M.A. History	MA02	Main Trends In The History of Modern World (Up to 1900 AD)-II	MAHS201
II	M.A. History	MA02	History of Modern World (1900-2000 Ad): -II	MAHS202
II	M.A. History	MA02	Main Trends In The History And Culture of Rajasthan - II	MAHS203
II	M.A. History	MA02	Group (A) Ancient Indian History (Earliest Times To C.200 B.C.)-II	MAHS204A
II	M.A. History	MA02	Group (B)Medieval Indian History (A. D. 750-1526) - II	MAHS204B
II	M.A. History	MA02	Group(C) Modern Indian History (1756-1905 A. D) -II	MAHS204C
III	M.A. History	MA02	Historical Tourism In India With Special Reference To Rajasthan -I	MAHS301
III	M.A. History	MA02	Philosophy of History -I	MAHS302
III	M.A. History	MA02	Elective Group (A) Ancient Indian History(c.200B.C to 750 A.D)-I	MAHS303A
III	M.A. History	MA02	Social And Economic Life In Ancient India - I	MAHS304A
III	M.A. History	MA02	Ancient Indian Art And Architecture	MAHS305A
III	M.A. History	MA02	Elective Group (B)Medieval Indian History (1526-1761A.D)-I	MAHS303B
III	M.A. History	MA02	Social And Economic Life In Medieval India I	MAHS304B
III	M.A. History	MA02	History Culture of Medieval Rajasthan(C.1200-1761A.D)-I	MAHS305B
III	M.A. History	MA02	Elective Group©Modern Indian History(1905-1990)-I	MAHS303C
III	M.A. History	MA02	Social And Economic Life In Modern India -I	MAHS304C
III	M.A. History	MA02	History of Modern Rajasthan -I	MAHS305C
IV	M.A. History	MA02	Historical Tourism In India With Special Reference To Rajasthan -II	MAHS401
IV	M.A. History	MA02	Philosophy of History - II	MAHS402
IV	M.A. History	MA02	Elective Group (A) Ancient Indian History(c.200B.C to 750 A.D)-II	MAHS403A
IV	M.A. History	MA02	Social And Economic Life In Ancient India - II	MAHS404A
IV	M.A. History	MA02	Ancient Indian Art And Architecture	MAHS405A

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Department of.....
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IV	M.A. History	MA02	Elective Group (B)Medieval Indian History (1526-1761A.D)-II	MAHS403B
IV	M.A. History	MA02	Social And Economic Life In Medieval India -II	MAHS404B
IV	M.A. History	MA02	History Culture of Medieval Rajasthan(C.1200-1761A.D)-II	MAHS405B
IV	M.A. History	MA02	Elective Group©Modern Indian History(1905-1990)-II	MAHS403C
IV	M.A. History	MA02	Social And Economic Life In Modern India -II	MAHS404C
IV	M.A. History	MA02	History of Modern Rajasthan -II	MAHS405C
IV	M.A. History	MA02	Project/Dissertation/Summer Training/Field Visits	MAHS451


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Department of.....~~History~~
S.S. Jain Subodh P.G. College, Jaipur

M.A. (Final) Public Administration

SEMESTER-IV

Paper- X

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DISSERTATION

MAX MARKS:-100

Dissertation may be offered in lieu of one paper from Optional Group at the Final Examination. Only those candidates can offer dissertation who have secured 55% marks in M.A. (Previous) Examination. The candidate offering dissertation shall be required to submit dissertation three weeks before M.A. (Final) Examination. There will be 100 marks for written dissertation.


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S.S. Jain Subodh P.G. Jaipur

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(Autonomous)

M.A. Sociology

Examination Scheme and Course Structure

Session 2022-23

APPROVED

SEMESTER-I


Paper No.	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASO101	Introduction to Sociology	04	30	70	100	3 Hrs.
MASO102	Basic Theoretical perspectives in Sociology	04	30	70	100	3 Hrs.
MASO103	Indian Social System	04	30	70	100	3 Hrs.
MASO104	Rural society	04	40	60	100	-

SEMESTER-II

Paper No.	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASO201	Social Research Methods & Technique	04	30	70	100	3 Hrs.
MASO202	Modern Sociological Theory	04	30	70	100	3 Hrs.
MASO203	Political Sociology	04	30	70	100	3 Hrs.
MASO204	Urban Sociology	04	40	60	100	-

SEMESTER-III

Paper No.	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASO301	Sociology of Religion	04	30	70	100	3 Hrs.
MASO302	Advance Social Theory	04	30	70	100	3 Hrs.
MASO303	Sociology of Development	04	30	70	100	3 Hrs.
MASO304	Sociology of Education	04	40	60	100	-


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ELECTIVE COURSES**APPROVED**

The Student will have to opt any one paper out of the following papers

Paper No.	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASO305A	Criminology	04	30	70	100	3 Hrs.
MASO305B	Industrial Sociology	04	30	70	100	3 Hrs.
MASO305C	Sociology of Ageing	04	30	70	100	3 Hrs.

SEMESTER-IV

Paper No.	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASO401	Sociology of Population	04	30	70	100	3 Hrs.
MASO402	Indian Sociological Thought	04	30	70	100	3 Hrs.
MASO403	Sociology of Environment	04	30	70	100	3 Hrs.
MASO404	Social Movements in India	04	40	60	100	-

ELECTIVE COURSES

The Student will have to opt any one paper out of the following papers

Paper No.	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASO405A	Dissertation	04	30	70	100	3 Hrs.
MASO405B	Sociology of Health	04	30	70	100	3 Hrs.
MASO405C	Social Anthropology	04	30	70	100	3 Hrs.


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(Autonomous)

Masters in Journalism and Mass Communication

SYLLABUS (MA- JMC)

Scheme of Examination (2022-2023)

Semester I

Subject Code	Subject Title	Theory Papers		DURATION	TOTAL MARKS
		EXTERNAL	INTERNAL		
MAJM 101	CONTEMPORARY INDIA	70	30	3 HOURS	100
MAJM 102	GROWTH OF MEDIA	70	30	3 HOURS	100
MAJM 103	NEWS REPORTING AND FEATURE WRITING	70	30	3 HOURS	100
MAJM 104	EDITING, LAYOUT AND PHOTO JOURNALISM	70	30	3 HOURS	100

Semester II

Subject Code	Subject Title	Theory Papers		DURATION	TOTAL MARKS
		EXTERNAL	INTERNAL		
MAJM 201	THEORIES OF COMMUNICATION	70	30	3 HOURS	100
MAJM 202	MEDIA LAWS AND ETHICS	70	30	3 HOURS	100
MAJM 203	COMPUTER APPLICATIONS	70	30	3 HOURS	100
MAJM 204	MEDIA MANAGEMENT	70	30	3 HOURS	100

Jain
Head

Department of Journalism and Mass Comm
S.S. Jain Subodh P.G. College, Jaipur

APPROVED

Semester III

Subject Code	Subject Title	Theory Papers		DURATION	TOTAL MARKS
		EXTERNAL	INTERNAL		
MAJM 301	RADIO PROGRAMME PRODUCTION	70	30	3 HOURS	100
MAJM 302	COMMUNICATION RESEARCH	70	30	3 HOURS	100
MAJM 303	DESKTOP PUBLISHING	70	30	3 HOURS	100
MAJM 304	NEW MEDIA TECHNOLOGY	70	30	3 HOURS	100

Semester IV

Subject Code	Subject Title	Theory Papers		DURATION	TOTAL MARKS
		EXTERNAL	INTERNAL		
MAJM 401	TELEVISION PROGRAMME PRODUCTION	70	30	3 HOURS	100
MAJM 402	ADVERTISING AND PUBLIC RELATIONS	70	30	3 HOURS	100
MAJM 403	SCIENCE AND DEVELOPMENT COMMUNICATION	70	30	3 HOURS	100
MAJM 404	DISSERTATION/ PRACTICAL WORK / PROJECT WORK	60	40	3 HOURS	100

Examination Scheme of each paper:

10 QUESTIONS (very short answer questions) 10*1 MARKS = 10 Marks

3 QUESTIONS (easy type one question each unit with internal choice) 3 * 20 MARKS = 60 Marks

Total of End semester exam (duration of exam 3 hours) =70 Marks

Internal Assessment = 30 Marks

Maximum Marks = 100 Marks

Minimum Marks = 40 Marks

Jachin
Head

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Master of Social Work (MSW)
Scheme of Examinations & Syllabus w.e.f. session 2022-23

SEMESTER-I


Course Code	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASW101	History and Philosophy of Social Work	04	30	70	100	3 Hrs.
MASW102	Society and Human Behaviour	04	30	70	100	3 Hrs.
MASW103	Social Case Work	04	30	70	100	3 Hrs.
MASW151	Fieldwork Practicum-I	04	40	60	100	-

SEMESTER-II

Course Code	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASW201	Social Welfare Administration and Social Policy	04	30	70	100	3 Hrs.
MASW202	Social Work with Groups	04	30	70	100	3 Hrs.
MASW203	Research Methodology and Statistical Reasoning	04	30	70	100	3 Hrs.
MASW251	Fieldwork Practicum-II	04	40	60	100	-

SEMESTER-III

Course Code	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASW301	Social Work with Communities	04	30	70	100	3 Hrs.
MASW302	Disaster Management and Environmental Social Work	04	30	70	100	3 Hrs.
MASW303	Urban World and Social Work	04	30	70	100	3Hrs.
MASW351	Fieldwork Practicum-III	04	40	60	100	-


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ELECTIVE COURSES**APPROVED****The Student will have to opt any one paper out of the following papers**


Course Code	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASW304A	Issues of Health Rights: Social Work Perspective	04	30	70	100	3 Hrs.
MASW304B	Human Resource Management (HRM)	04	30	70	100	3 Hrs.
MASW304C	Human Rights and Civil Rights Organizations	04	30	70	100	3 Hrs.

SEMESTER-IV

Course Code	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASW401	Women and Social Legislation	04	30	70	100	3 Hrs.
MASW402	Industrial Relations and Trade Union	04	30	70	100	3 Hrs.
MASW403	Counselling	04	30	70	100	3 Hrs.
MASW451	Dissertation/FW/Report Writing	04	40	60	100	

ELECTIVE COURSES**The Student will have to opt any one paper out of the following papers**

Course Code	Nomenclature of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
MASW404A	Social Work with Older Persons	04	30	70	100	3 Hrs.
MASW404B	Labour Welfare and Social Security (HRM)	04	30	70	100	3 Hrs.
MASW404C	Child Rights and Social Work	04	30	70	100	3 Hrs.


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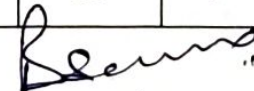
Department of Geography

M.A GEOGRAPHY

SEMESTER I-IV 2022-23

APPROVED

CODE	COURSE TITLE/PAPER	NO.OF HRS /WEEK	INTERNAL	EXTERNAL	Time (ESE) HRS
SEMESTER-I					
MAGE101	Geographical Thought-I (Upto Medieval period)	4	30	70	3
MAGE102	Dynamic Geomorphology	4	30	70	3
MAGE103	Economic Geography	4	30	70	3
MAGE104A / MAGE104B	Man and Natural Environment – I / Quantitative Techniques in Geography-I	4	30	70	3
MAGE151	Geography Practical-I	12	80	120	4
SEMESTER-II					
MAGE201	Geographical Thought-II ((Modern))	4	30	70	3
MAGE202	Climatology & Oceanography	4	30	70	3
MAGE203	Principles and Theory of Economic Geography	4	30	70	3
MAGE204A/ MAGE204B	Man and Natural Environment – II / Quantitative Techniques in Geography-II	4	30	70	3
MAGE251	Practical & Village Project-II	12	80	120	4
SEMESTER-III					
MAGE301	Advanced Geography of India	4	30	70	3
MAGE302A/ MAGE302B	Agricultural Geography-I/ Disaster Perception and Management	4	30	70	3
MAGE303A / MAGE303B	Urban Geography/ Regional Planning	4	30	70	3
MAGE304A/ MAGE304B/ MAGE304C	Political Geography/ Water Resource and their Management-I/ Research Methodology	4	30	70	3
MAGE351	Geography Practical & Project Work - III	12	80	120	4
SEMESTER-IV					
MAGE401	Geography of Rajasthan	4	30	70	3
MAGE402A/ MAGE402B	Agricultural Geography-I/Climatology	4	30	70	3
MAGE403A / MAGE403B/ MAGE403C	Industrial Geography/ Fundamentals of Remote Sensing	4	30	70	3
MAGE404A/ MAGE404B/ MAGE404C	Biogeography/Water Resource and their Management-II/Applied Geography	4	30	70	3
MAGE451	Geography Practical -IV	12	80	120	8


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S. S. Jain Subodh PG (Autonomous) College, Jaipur

Department of Mathematics
Master of Arts

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Examination Scheme:

Semester - I		
Paper	Nomenclature of paper	Max. Marks
MAMA101	Algebra -I	70 Marks
MAMA102	Real Analysis	70 Marks
MAMA103	Differential Equations-I	70 Marks
MAMA104	Differential Geometry	70 Marks
MAMA105	Dynamics of Rigid Bodies	70 Marks
MAMA106	Calculus of Variation and Special Function-I	70 Marks
Semester - II		
Paper	Nomenclature of paper	Max. Marks
MAMA201	Algebra -II	70 Marks
MAMA202	Topology	70 Marks
MAMA203	Differential Equations-II	70 Marks
MAMA204	Riemannian Geometry and Tensor Analysis	70 Marks
MAMA205	Hydrodynamics	70 Marks
MAMA206	Special Function-II	70 Marks
Semester - III		
Paper	Nomenclature of paper	Max. Marks
MAMA301	Functional Analysis-I	70 Marks
MAMA302	Viscous Fluid Dynamics-I	70 Marks
MAMA303	Mathematical Programming-I	70 Marks
MAMA304	Integral Transforms	70 Marks
MAMA305	Relativistic Mechanics	70 Marks
MAMA306	Numerical Analysis-I	70 Marks

Semester – IV		
Paper	Nomenclature of paper	Max. Marks
MAMA401	Functional Analysis-II and Advanced Calculus	70 Marks
MAMA402	Viscous Fluid Dynamics-II	70 Marks
MAMA403	Mathematical Programming-II	70 Marks
MAMA404	Integral Equations	70 Marks
MAMA405	General Relativity & Cosmology	70 Marks
MAMA406	Numerical Analysis-II	70 Marks
MSMA407	Project/Dissertation	70 Marks

Student can Opt Project/ Dissertation in lieu of any paper in IV Semester.

Examination Scheme for each Paper

Part A- comprises of eight very short answer questions from all units. It's a compulsory question and attempt any seven (Science/Arts) 7 X 2 mark each =14 Marks

Part B- 4 questions (1 question from each unit with internal choice)

(Science/Arts) 4X14 mark each = 56 Marks

Total of End semester exam (duration of exam 3 hours) =70Marks

Internal assessment = 30Marks

Evaluation Scheme of Project/ Dissertation

Total Marks 100


Viva-Voice: 20 Marks

Presentation: 20 Marks

Dissertation/ Project: 30 Marks

External Marks: 70

Internal Marks: 30


Head
 Department of.....
MATHS.
 S.S. Jain Subodh P.G. College, Jaipur

कला में स्नातकोत्तर

विषय : हिन्दी साहित्य

APPROVED

परीक्षा योजना एवं विस्तृत पाठ्यक्रम संरचना सत्र : 2023-24

सेमेस्टर : प्रथम (I)

प्रश्न पत्र संख्या	प्रश्न पत्र का नाम	ESE	Int.	Total	Duration (EOSE)
1	हिन्दी साहित्य का इतिहास (आदिकाल एवं भक्तिकाल) (MHIN-101)	70	30	100	3 Hrs.
2	प्राचीन काव्य (MHIN-102)	70	30	100	3 Hrs.
3	काव्यशास्त्र -I (भारतीय) (MHIN-103)	70	30	100	3 Hrs.
4	हिन्दी गद्य -I (उपन्यास एवं निबन्ध) (MHIN-104)	70	30	100	3 Hrs.

सेमेस्टर : द्वितीय (II)

प्रश्न पत्र संख्या	प्रश्न पत्र का नाम	ESE	Int.	Total	Duration (EOSE)
1	हिन्दी साहित्य का इतिहास (रीतिकाल एवं आधुनिक काल) (MHIN-201)	70	30	100	3 Hrs.
2	मध्यकालीन काव्य (MHIN-202)	70	30	100	3 Hrs.
3	काव्यशास्त्र -II (पाश्चात्य) (MHIN-203)	70	30	100	3 Hrs.
4	हिन्दी गद्य -II (हिन्दी कहानी) (MHIN-204)	70	30	100	3 Hrs.

सेमेस्टर : तृतीय (III)

प्रश्न पत्र संख्या	प्रश्न पत्र का नाम	ESE	Int.	Total	Duration (EOSE)
1	हिन्दी गद्य -III (हिन्दी नाटक) (MHIN-301)	70	30	100	3 Hrs.
2	निर्गुण काव्य (MHIN-302)	70	30	100	3 Hrs.
3	भाषा विज्ञान -I (MHIN-303)	70	30	100	3 Hrs.
4	रीतिकालीन काव्य (MHIN-304)	70	30	100	3 Hrs.
5(A)	(क) कवि, साहित्यकार (1) तुलसीदास (MHIN-305 (A))	70	30	100	3 Hrs.
5(B)	(ख) कवि, साहित्यकार (2) प्रेमचन्द (MHIN-305 (B))	70	30	100	3 Hrs.
5(C)	(ग) शोध प्रविधि (MHIN-305 (C))	70	30	100	3 Hrs.

सेमेस्टर : चतुर्थ (IV)

प्रश्न पत्र संख्या	प्रश्न पत्र का नाम	ESE	Int.	Total	Duration (EOSE)
1	आलोचना एवं आलोचक (MHIN-401)	70	30	100	3 Hrs.
2	आधुनिक काव्य -I (MHIN-402)	70	30	100	3 Hrs.
3	भाषा विज्ञान -II (MHIN-403)	70	30	100	3 Hrs.
4	आधुनिक काव्य -II (MHIN-404)	70	30	100	3 Hrs.
5(A)	(क) कवि, साहित्यकार (1) तुलसीदास (MHIN-405 (A))	70	30	100	3 Hrs.
5(B)	(ख) कवि, साहित्यकार (2) प्रेमचन्द (MHIN-405 (B))	70	30	100	3 Hrs.
5(C)	(ग) लघुशोध प्रबंध (Desertation) (MHIN-405 (C))			100	3 Hrs.

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Head
Department of Hindi
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Autonomous Scheme (English Literature)

M. A.

Scheme of Examinations & Syllabus w.e.f. session 2022-2023

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Semester I

Paper Code	Paper Title	Max. Marks	Min. Marks
MAEN101	Language and Communication Skills-I	100	40
MAEN 102	Age of Revival-I (Elizabethan)	100	40
MAEN 103	Pre Romantic and Romantic Age -I	100	40
MAEN 104	Victorian Age -I		

Semester II

Paper Code	Paper Title	Max. Marks	Min. Marks
MAEN201	Language and Communication Skills -II	100	40
MAEN202	Age of Revival-II	100	40
MAEN203	Pre Romantic and Romantic Age-II	100	40
MAEN204	Victorian Age-II	100	40

Semester III

Paper Code	Paper Title	Max. Marks	Min. Marks
MAEN301	Literary Criticism and Theory -I	100	40
MAEN302	Twentieth Century Literature -I	100	40
MAEN303	Indian Writing in English -I	100	40
MAEN304A	Applied Linguistics and Contemporary English Grammar-I	100	40
MAEN304B	American Literature-I	100	40
MAEN304C	Women's Writing-I	100	40
MAEN304D	Postcolonial Literature-I	100	40

Semester IV

Paper Code	Paper Title	Max. Marks	Min. Marks
MAEN 401	Literary Criticism and Theory – II	100	40
MAEN 402	Twentieth Century Literature – I	100	40
MAEN 403	Indian Writing in English –II	100	40
MAEN404A	Applied Linguistics and Contemporary English Grammar–II	100	40
MAEN404B	American Literature–II	100	40
MAEN404C	Women's Writing–II	100	40
MAEN404D	Postcolonial Literature–II	100	40
MAEN404E	Project Report Writing	100	40

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NOTE: MAEN404E –Project Report Writing

Students are required to write a detailed project report on the topic of their interest. The project report should contain specific features, relevance, comparative study, researches on the topic, scope of further research.

Manoj Kumar
Head
Department of English.
S.S. Jain Subodh P.G. College, Jaipur

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Autonomous M.A. Psychology Syllabus Semester Scheme

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M.A. Semester-III

S. No.	Subject Code	Course Title	Contact hours/ week	EoSE Duration (Hrs.)	
				Theory	Practical
1	MAPY301 / MSPY301	Cognitive Psychology	4	3	0
2	MAPY302 / MSPY302	Research Designs	4	3	0
3	MAPY303A / MSPY303A	Foundations of Clinical Psychology	4	3	0
4	MAPY303B / MSPY303B	Clinical Disorders	4	3	0
5	MAPY304A / MSPY304A	Counselling Psychology	4	3	0
6	MAPY304B / MSPY304B	Child and Adolescent Counselling	4	3	0
7	MAPY305/ MSPY305	Project Work (PRJ)	-	-	-
8	MAPY351/ MSPY351	General Lab	9	0	4

Department will offer minimum two and maximum three theory elective courses for the semester based on options submitted by the students and availability of faculty to teach the course.

M.A. Semester – IV

S. No	Subject Code	Course Title	Contact Hours/ Week	EoSE Duration (Hrs.)	
				Theory	Practical
1	MAPY401 /MSPY401	Indian Psychology	4	3	0
2	MAPY402 /MSPY402	Applied Psychology	4	3	0
3	MAPY403A/MSPY403A	Psychodiagnostics	4	3	0
4	MAPY403B / MSPY403B	Therapeutic Approaches	4	3	4
5	MAPY404A / MSPY404A	Counselling Theories and Techniques	4	3	0
6	MAPY404B / MSPY404B	Vocational Psychology	4	3	0
7	MAPY405/ MSPY405	Project Work	4	3	0
8	MAPY451/ MSPY451	General Lab	9	0	4

Department will offer minimum two and maximum three theory elective courses for the semester based on options submitted by the students and availability of faculty to teach the course.

Sybil
Head
Department of Psychology
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M. A Economics
Session :- 2022-2023

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SEMESTER-III

Paper No./SUBJECT CODE	Name of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
Compulsory Core Courses						
Paper IX/MAEC301	Public Economics- I	04	30	70	100	3 Hrs.
Paper X/MAEC302	International Trade Theory	04	30	70	100	3 Hrs.
Paper XI/MAEC303	Economics of Development and Growth -I	04	30	70	100	3 Hrs.
Paper XII/MAEC304	Indian Economy- I					
Elective Core Courses						
The candidate is required to select any one elective course from the following						
Paper XIII(A)/MAEC305A	History of Economic Thought-I	04	30	70	100	3 Hrs.
Paper XIII(B)/MAEC305B	Econometrics - I	04	30	70	100	3 Hrs.
Paper XIII(C)/MAEC305C	Survey Method	04	30	70	100	3 Hrs.

SEMESTER-IV

Paper No./SUBJECT CODE.	Name of the Paper	No. of Hours Per Week	Internal	External	Total	Time (end sem. exam)
Compulsory Core Courses						
Paper XIV/MAEC401	Public Economics- II	04	30	70	100	3 Hrs.
Paper XV/MAEC402	Trade Policy and International Monetary System	04	30	70	100	3 Hrs.
Paper XVI/MAEC403	Economics of Development and Growth -II	04	30	70	100	3 Hrs.
Paper XVII/MAEC404	Indian Economy- II					

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Elective Core Courses						
Paper VIII(A)/MAEC 405A	History of Economic Thought-II	04	30	70	100	3 Hrs.
Paper XVIII(B)/MAEC405B	Econometrics - II	04	30	70	100	3 Hrs.
Paper XVIII(C)/MAEC405C	Dissertations	04	40	60	100	-
Dissertation : Applicable only those students who scored minimum of 55% marks in I and II semester (Aggregate)						

Courses for Semester — I

Compulsory Core Courses

Paper I — Micro Economic Theory — I
(MAEC101)

Paper II — Macro Economic Theory — I
(MAEC102)

Paper III —Mathematical Methods for Economics (MAEC103)

Elective Core Courses

The candidate is required to select any one elective course from the following:

Paper IV (A): Demography- I (MAEC104A)

Paper IV (B): Mathematical Economics - I
(MAEC104B)

Compulsory Core Courses

Courses for Semester — II

Paper V — Micro Economic Theory— I
(MAEC201)

Macro Economic Theory — II (MAEC202)

Paper VII — Statistical method
(MAEC203)

Elective Core Courses

The candidate is required to select any one elective course from the following:

Paper VIII (A): Demography-II (MAEC204A)

Paper VIII (B): Mathematical Economics — I I(MAEC204B)

Courses for Semester III

Compulsory Core Courses

Paper- IX Public Economics- I
(MAEC301)

Paper - X — International Trade Theory (MAEC302)

Paper- XI — Economics of Development and Growth— I
(MAE303C)

Paper XII — Indian Economy- I (MAEC304)

Elective Core Courses

The candidate is required to select any one elective course from the following:

Paper XIII (A): History of Economic Thought-I (MAEC305A)

Paper XIII (B): Econometrics -I (MAEC305B)

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Paper XIII (C): Survey Method (MAEC305C)

Courses for Semester IV

Compulsory Core Courses

Paper XIV - Public Economics- II (MAEC401)

Paper XV-Trade Policy and International Monetary System (MAEC402)

Paper XVI — Economics of Development and Growth —II (MAEC403)

Paper XVII — Indian Economy —II (MAEC404)

Elective Core Courses

The candidate is required to select any one elective course from the following:

Paper XVIII (A): History of Economic Thought-II (MAEC405A)

Paper XVIII (B): Econometrics – II (MAEC405B)

Paper XVIII(C): Dissertations -(MAEC405C) Applicable only those students who scored minimum of 55% marks in I and II semester (Aggregate)

Bhaw
Head

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