

**Scheme for Experiential
Learning through Projects in
Curriculum
2015-16 To**


Govt. Madhav Science College Ujain

VIKRAM UNIVERSITY UJJAIN



M.Sc. Chemistry Semester -IV Scheme of Examination

Sr. No.	Comp/Opt	Paper Title	Code (MCH)	Max. Marks
I	Compulsory	Application of spectroscopy	MCH-511	40+10(CCE)=50
II	Compulsory	Solid State	MCH-512	40+10(CCE)=50
III	Compulsory	Biochemistry	MCH-513	40+10(CCE)=50
IV	Optional Any two	Organic Synthesis	MCH-514	40+10(CCE)=50
V		Chemistry of Natural Products	MCH-515	40+10(CCE)=50
		Analytical chemistry	MCH-516	40+10(CCE)=50
		Electro Chemistry	MCH-517	40+10(CCE)=50
		Medicinal chemistry	MCH-518	40+10(CCE)=50
		Practical 1		33
		Practical 2		33
		Practical 3		34
		Project		50
		Total Marks		400


25/06/2024

सहायक कुलसचिव अकादमिक
विक्रम विश्वविद्यालय,
उज्जैन

Vikram University, Ujjain

School of Studies in Zoology & Biotechnology

M.Sc. Zoology Sem-IV

Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in SS in Zoology and Biotechnology wef 2016-18 Academic session

M.Sc. Zoology Semester IV												
Code	Theory/Practical	Teaching scheme (Hrs./Week)			Credits	Examination Scheme						
		Th	Pract	Total		Duration in hrs	Max. Marks		Total Marks	Minimum Passing Marks		
							External	Internal		Th	Prac	
Elective ZOL PG 401	Paper 2: 1. Ichthyology - 2. Environmental Biology	6		6	6	3	40	10	50	16		
Elective ZOL PG 402	Paper 3: 1. Molecular Endocrinology and Reproductive Technology 2. Limnology and Fish Productivity	6		6	6	3	40	10	50	16		
Core ZOL PG 403	IV: Project work (Departmental Research Training). External evaluation	-	6	6	6	3	50	-	50	20		
Core ZOL PG 404	Viva Voce on Project Report		3	3	3	3-8*			50			
Practical	Practical I: Based on theory Paper 1 & 2	-	3	3	3	4-6	50	-	50		20	
Total		24	6	30	30		260	40	300		40	

Grand Total of all 4 Semesters: Total Credits = 120 Total Marks = 1200

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M. Sc. Drugs and Pharmaceutical Chemistry
SEMESTER- IV 2016-17

Paper	Comp/ Opt	Paper Title	Code (MCH)	Max. Marks
I	Compulsory	Pharmaceutical Medicinal Chemistry-Ii	PC-401	40+10 (CCE) = 50
II	Compulsory	Drug Design And Medicinal Chemistry	PC-402	40+10 (CCE) = 50
III	Compulsory	Advance Chemistry	PC -403	40+10 (CCE) = 50
IV	Compulsory	Supplements, Additives And Toxicology	PC-404	40+10 (CCE) = 50
V	Optional- 1	Drug Pharmacokinetics And Drug Development	PC -405	40+10 (CCE) = 50
		PRACTICAL 1.		50
		PRACTICAL 2.		50
		PROJECT		50
		TOTAL		450



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**M.Sc. (APPLIED MICROBIOLOGY) SYLLABUS
(SEMESTER SYSTEM)**

Semester	Paper	Name of the Papers	Marks	Internal (CCE)	Practical (Internal)	Mark
Sem. III	AM301	Medical Microbiology and Immunology	40	10	On the basis of paper I&II	50
	AM302	Statistics and Computer for biology	40	10		
	AM303	Bioinformatics and Biotechnology	40	10	On the basis of paper III & IV	50
	AM304	Microbial Genetics, Molecular Biology & Cell Biology	40	10		
	Total (Theory + Practical+ Internal)			TOTAL	200	(P) 100
				300		

Semester*	Paper	Name of the Papers	Marks	Internal (CCE)	Practicals (Internal)	Mark
Sem. IV*	AM401	Pharmaceutical Microbiology	40	10	On the basis of paper I&II	50
	AM402	Applied Microbiology	40	10		
	AM403	Microbial Fermentation Technology	40	10	On the basis of paper III&IV	50
	AM404	Marine Microbiology	40	10		
				(T) 200		(P) 100
<p>Project/Survey/Dissertation: Students will complete a short term project/Survey/Dissertation from different institutes including NGO, Govt. Organizations.</p> <p align="center">Marks: Project Submission + Viva(25+25)= 50</p>						
Total (Theory+ Practical+ Internal+ Project)			TOTAL			350

Note: Fourth Semester Papers are specifically selected and designed in a manner for the students to work in different applied areas of microbiology and to get possible job opportunities.

Fee structure for M.Sc. Applied Microbiology (Two-year course)

1. Tuition Fee	40000-00 (For two year)
2. Library Fee	1000-00 (For two years)
3. Caution Money	1000-00 (Once the course)
4. Laboratory Fee	2000-00 (For two year)
Total Fee	44000-00 (Forty Four Thousand Only)

Examination fees: - Rs.1750/- +college forwarding fees Rs.200/- =1950/-

M.Sc. APPLIED MICROBIOLOGY

21

CO-ORDINATOR
Microbiology
 Govt. Madhav Vigyan Mahavidyalaya,
 UJJAIN (M.P.)

M.Sc./M.A. SEMESTER - IV 2012 -2013 (Regular Students)
MATHEMATICS

Name of the Papers	Theory (M.M.)	Mini. Pass. M.	C.C.E.	Mini. Pass. M.	Practical M.M.	Mini. Pass. M.	Total
Compulsory Paper I. Functional Analysis-II	40	13	10	04	---	---	50
Optional Paper's Four papers out of the following have to be chosen, opting not more than one from each group.							
Group I (1) Advanced Functional Analysis-II (2) Mechanics (3) Differentiable Structures on manifolds-II (4) General Theory of Relativity and Cosmology-II	40	13	10	04	---	---	50
Group II (1) Algebraic Topology-II (2) Abstract Harmonic Analysis-II (3) Advanced Graph Theory-II (4) Advanced Special Function-II	40	13	10	04	---	---	50
Group III (1) Theory of Linear Operators-II (2) Advanced Numerical Analysis -II (3) Fuzzy Sets and their Applications-II	40	13	10	04	---	---	50
Group IV (1) Operations Research -II (2) Computational Biology -II (3) Jacobi Polynomial & H-Function-II (4) Fluid Mechanics -II	40	13	10	04	---	---	50
Group V (1) Wavelets-II (2) Bio- Mechanics -II (3) Analytic Number Theory-II (4) Integral Transform-II	40	13	10	04	---	---	50
Group VI (1) Fundamentals of Computer Science (Theory & Practical) -II (2) Mathematics of Finance & Insurance -II (3) Spherical Trigonometry and astronomy-II	25 40	09 13	10 10	04 04	15 ---	06 ---	50
Paper VI Comprehensive Viva-Voce							50
Paper VII Job Oriented Project Work							50
Grand Total							350

Note: Above Mentioned bold Optional Papers are teaching in the University and Colleges. If any College wants to change their optional Papers. Kindly inform to the Dy. Registrar (Examination), Vikram University, Ujjain.



 21/11/13

M.Sc. (Botany) - IV Semester

Courses, Teaching scheme and Credits

Course	Course Code	Theory/ Practical/ Project Work	Teaching Scheme (hrs/ credit/week)			Credits
			TH (1hr = 1 Credit)	PR (2hr = 1 Credit)	Total	
Project Work	BOT PG 401	Project Work in an institution or in the department (UTD)	-	-	-	18
Project Work- Viva	BOT PG 402	Viva voce on the Project work	-	-	-	6
Soft Skills	BOT PG 403	Seminars- (2) (Skill enhancement and development)	-	-	-	6
	Total		-	-	-	30

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Vikram University, Ujjain
Bachelor of Computer Application (BCA)
w.e.f. July 2018 Onwards

BCA – II/ Second Year (Annual System)

(Examination Scheme)

Group	Paper Code	Paper Name	Internal	External (Theory)	Total	Practical	Grand Total
Group-I	BCA-21	Data Structure using C++	10	40	50	--	100
	BCA-22	DBMS & RDBMS	10	40	50	--	
Group-II	BCA-23	Internet & E-Commerce	10	40	50	--	100
	BCA-24	Data Communication & Computer network	10	40	50	--	
Group-III	BCA-25	System analysis Design & Software Engineering	10	40	50	--	100
	BCA-26	Managerial Economics & Management Information System	10	40	50	--	
Group-IV	BCA-27.1	Hindi Language and Moral Values	5	30	100	--	100
	BCA-27.2	English Language	5	30			
	BCA-27.3	Environmental Studies	5	25			
Group-V	BCA-P28	Practical based on BCA-21 & BCA-22	--	--	--	50	100
	BCA-P28	Minor Project	--	--	--	50	
TOTAL					400	100	500

NOTE: General BCA Examinations rules are same as B. Sc. (Computer Sc.)/(IT).

Vikram University, Ujjain
Bachelor of Computer Application (BCA)
 w.e.f. July 2019 Onwards

BCA – III/ Third Year (Annual System)
(Examination Scheme)

Group	Paper Code	Paper Name	Internal	External (Theory)	Total	Practical	Grand Total
Group-I	BCA-31	Programming With JAVA	10	40	50	--	100
	BCA-32	Artificial Intelligence & Expert System	10	40	50	--	
Group-II	BCA-33	Internet Technology with ASP.NET and CF	10	40	50	--	100
	BCA-34	Computer graphics and Multimedia	10	40	50	--	
Group-III	BCA-35	Microprocessor and Interfacing	10	40	50	--	100
	BCA-36	Enterprise Resource Planning & organizational Behaviour	10	40	50	--	
Group-IV	BCA-37.1	Hindi Language and Moral Values	5	30	100	--	100
	BCA-37.2	English Language	5	30			
	BCA-37.3	Basic of Computer & Information Technology	5	25			
Group-V	BCA-P38	Practical based on BCA-31 & BCA-33	--	--	--	50	100
	BCA-P38	Major Project	--	--	--	50	
TOTAL					400	100	500

NOTE: General BCA Examinations rules are same as B. Sc. (Computer Sc.)(IT).

Ujjain

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2017 – 2020

Structure of B.Sc. Programme (3 Years Degree Course)

Subject – Bioinformatics (as one subject)

YEAR	PAPER(S)	Maximum Marks		
		Total	CCE	External
I	BI 101 : Introduction to Bioinformatics	100	15	42.5
	BI 102: Concepts in Bioinformatics			42.5
	BI 103: Practical	50	-	50
II	BI 201: Introduction to Computers and Programming	100	15	42.5
	BI 202 : Structural Bioinformatics			42.5
	BI 203 :Practical	50	-	50
III	BI 301 : Biostatistics	100	15	42.5
	BI 302 : Mathematics for Biological Sciences			42.5
	BI 303 : Practical a) Practical Work b) Project Work	50	-	50 25 25

Y.K. Jain
27/04/17
(Y.K. Jain)

Dr. Raksh Mittal
27/4/17
(Dr. Raksh Mittal)

A. Tripathi
27.4.17
(Dr. A. Tripathi)

Sugandha
27.04.17
(Dr. Sugandha Pandey)

Sugandha
27/4/17

Dr. Sugandha Singh