

# **Mahakaushal University, Jabalpur (M.P.)**



**Scheme & Syllabus**  
**For**  
**B.Sc. with Research/honors**  
**Zoology**  
**2022-23**

**Duration of Course: 4 Years**  
**Examination Mode: Semester**  
**Examination System: CBCS**

**Mahakaushal University**  
**Village-Aithakheda, Mukunwara Road, Post- Tilwara Jabalpur (M.P.) 482003**

## Credit Distribution

SEMESTER SYSTEM			Credits Required								
			Sem	MJ	MI	DSE	GEC/ OEC	AECC	SEC SB/VB	FW	Total Credit
Level 5	Certificate	1 <sup>st</sup> Year Pass (Sem I+Sem II)	I	6	6		4	4			20
			II	6	6		4	4			20
Level 6	Diploma	2 <sup>nd</sup> Year Pass (Sem III+Sem IV)	III	6	6		4		4		20
			IV	6	6		4		4		20
Level 7	Degree	3 <sup>rd</sup> Year Pass (Sem V+Sem VI)	V	6		4			4	6	20
			VI	6		8				6	20
Level 8	Honors/ Research	4 <sup>th</sup> Year Pass (Sem VII+Sem VIII)	VII	6	4	4				6	20
			VIII	6	4					10	20
<b>Total Credit</b>				<b>48</b>	<b>32</b>	<b>16</b>	<b>16</b>	<b>8</b>	<b>12</b>	<b>28</b>	<b>160</b>

SEMESTER SYSTEM			Credits Required							
			MJ	MI	DSE	GEC/ OEC	AECC	SEC SB/VB	FW	Total Credit
Level 5	Certificate	1 <sup>st</sup> Year Pass	12	12		8	8			40
Level 6	Diploma	2 <sup>nd</sup> Year Pass	12	12		8		8		40
Level 7	Degree	3 <sup>rd</sup> Year Pass	12		12			4	12	40
Level 8	Honors/ Research	4 <sup>th</sup> Year Pass	12	8	4				16	40
<b>Total Credit</b>			<b>48</b>	<b>32</b>	<b>16</b>	<b>16</b>	<b>8</b>	<b>12</b>	<b>28</b>	<b>160</b>

### For Regular Students Course Duration:

Min. Years for Completing UG Degree	3 Years
Min Years for Completing UG (Hons.) Degree	4 Years
Maximum Years for Completing UG Degree	6 Years
Max Years for Completing UG (Hons.) Degree	8 Years

**Faculty of Science**

**Major: Zoology**

Sem	Major	Minor	DSE	Open Elective/ Generic Elective	AECC	SEC		FW	Total Credits
						Skill Based	Value Based		
1	MJ-I (4+2)	MN-I (4+2)		OEC-I (4)	AECC-I (4)				20
2	MJ-II (4+2)	MN-II (4+2)		OEC-II (4)	AECC-II (4)				20
3	MJ-III (4+2)	MN-III (4+2)		OEC-III (4)		SECSB-I (4)			20
4	MJ-IV (4+2)	MN-IV (4+2)		OEC-IV (4)		SECSB-II (4)			20
5	MJ-V (4+2)		DSE-I (4)				SECVB (4)	Field Work (6)	20
6	MJ-VI (4+2)		DSE-II (4) DSE-III (4)					Internship (6)	20
7	MJ-VII (4+2)	MN-V (4)	DSE-IV (4)					Minor Project (6)	20
8	MJ-VIII (4+2)	MN-VI (4)						Major Research Project (10)	20
<b>Total Credits</b>	<b>48</b>	<b>32</b> <i>M B O</i>	<b>16</b>	<b>16</b>	<b>8</b>	<b>8</b>	<b>4</b>	<b>28</b>	<b>160</b>

**Major/Minor**

<b>Course Code</b>	<b>Category</b>	<b>Paper</b>	<b>Credits</b>
BZOO0101-T	MJ	Non-chordates I: Protista to Pseudocoelomates	4
BZOO0102-T	MI	Non-chordates I: Protista to Pseudocoelomates	4
BZOO0101-P	MJ	Non-chordates I: Protista to Pseudocoelomates Lab	2
BZOO0102-P	MI	Non-chordates I: Protista to Pseudocoelomates Lab	2
BZOO0201-T	MJ	Principles of Ecology	4
BZOO0202-T	MI	Principles of Ecology	4
BZOO0201-P	MJ	Principles of Ecology Lab	2
BZOO0202-P	MI	Principles of Ecology Lab	2
BZOO0301-T	MJ	Non-chordates II: Coelomates	4
BZOO0302-T	MI	Non-chordates II: Coelomates	4
BZOO0301-P	MJ	Non-chordates II: Coelomates Lab	2
BZOO0302-P	MI	Non-chordates II: Coelomates Lab	2
BZOO0401-T	MJ	Cell Biology	4
BZOO0402-T	MI	Cell Biology	4
BZOO0401-P	MJ	Cell Biology Lab	2
BZOO0402-P	MI	Cell Biology Lab	2
BZOO0501-T	MJ	Diversity of Chordates	4
BZOO0501-P	MJ	Diversity of Chordates Lab	2
BZOO0601-T	MJ	Physiology: Controlling and Coordinating Systems	4
BZOO0601P	MJ	Physiology: Controlling and Coordinating Systems Lab	2
BZOO0701-T	MJ	Fundamentals of Biochemistry	4
BZOO0701-P	MJ	Fundamentals of Biochemistry Lab	2
BZOO0801-T	MJ	Comparative Anatomy of Vertebrates	4
BZOO0801P	MJ	Comparative Anatomy of Vertebrates Lab	2

**Department Specific Elective**

BZOO0101D-T	DSE	Physiology: Life Sustaining Systems	4
BZOO0102D-T	DSE	Biochemistry of Metabolic Processes	4
BZOO0103D-T	DSE	Molecular Biology	4
BZOO0104D-T	DSE	Principles of Genetics	4
BZOO0105D-T	DSE	Animal Behaviour and Chronobiology	4
BZOO0106D-T	DSE	Animal Biotechnology	4
BZOO0107D-T	DSE	Reproductive Biology	4
BZOO0108D-T	DSE	Wild Life Conservation and Management	4

**Skill Enhancement Course (Skill Based) (Any Two)**

Course Code	Category	Paper	Credits
BZOO101SB-T	SEC-SB	Aquarium Fish Keeping	4
BZOO102SB-T	SEC-SB	Research Methodology	4
BZOO103SB-T	SEC-SB	Medical Diagnostics	4
BZOO104SB-T	SEC-SB	Apiculture	4
BZOO105SB-T	SEC-SB	Sericulture	4

**Open Elective Compulsory Course/ Generic Elective Compulsory Course**

Course Code	Category	Paper	Credits
OECC0101-T	OEC	Fundamental of Computer	4
OECC0102-T	OEC	Environmental Studies	4
OECC0103-T	OEC	Entrepreneurship	4
OECC0104-T	OEC	Principle of Management	4
OECC0105-T	OEC	Nutrition and Fitness	4
OECC0106-T	OEC	Current Concerns in Public Health Nutrition	4
OECC0107-T	OEC	Travel and Tourism	4
OECC0108-T	OEC	Tourism Operation Software Skills	4

Course Code	Paper	Credits
ENVT0101-T	Environmental Education	0

**Ability Enhancement Compulsory Course**

Course Code	Category	Paper	Credits
AECC0101-T	AECC	English Language-I	4
AECC0102-T	AECC	English Language-II	4

**Skill Enhancement Course (Value Based) (Any One)**

Course Code	Category	Paper	Credits
SECVB0101-T	SEC-VB	Constitution of India	4
SECVB0102-T	SEC-VB	Yoga in Life	4
SECVB0103-T	SEC-VB	National Service Scheme (NSS)	4
SECVB0104-T	SEC-VB	Health & Wellness	4
SECVB0105-T	SEC-VB	Sports	4

## Field Work

Course Code	Category	Paper/Description	Credits
BFWF0501-P	FW	Field work is the process of observing and collecting data about people, cultures, and natural environments.	6
BFWI0601-P	FW	The aim of the internship provides a direction to the activities, helps to focus on a result, and to assess the result achieved.	6
BFWP0701-P	FW	The objective of the minor project is to provide an opportunity for students to undertake short research training outside the classroom to solve real-world issues.	6
BFWR0801-P	FW	Project objectives describe the desired outcome of a project, which is often a tangible object. It's beneficial to create objectives for your project because creating a specific goal for you helps everyone know what they're supposed to be working toward.	10