



Implementation of NEP

Minutes of Meetings (MoM) of Board of Studies (BoS)

Academic Year : **2022-23**

School : **School of Life Sciences**

Department : **Zoology**

Date and Time : **25-08-2023 - 12:00 noon**

Venue : **Meeting room**

DEPARTMENT OF ZOOLOGY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.) - 495009

Minutes of the Meeting of the Board of Studies (Zoology) held on 25.08.2023

A meeting of Board of Studies (Zoology) was held on 25.08.2023. Following matters were resolved in the meeting.

As per UGC guidelines and ordinance 97 of the Guru Ghasidas Vishwavidyalaya, four year degree program curriculum based on NEP 2020 was designed and approved. The courses introduced in this curriculum are all new and introduced first time as follows:

- Major courses (Core courses) will be offered to the students of Zoology department.
- Multidisciplinary courses, Minor course, AEC, SEC, Vocational and Value added courses were given to the pool of the university to offer to the students based on their choice.
- Vocational courses introduced in this curriculum will be offered to the students upon exiting the course after 2nd semester or 4th semester. For rest of the students these courses will be offered as an internship after 5th semester.

Following members were present in the meeting:

- | | |
|--------------------------|--------------------------|
| 1. Prof. LVKS Bhaskar | Chairman, BOS |
| 2. Prof. Poonam Sharma | Member (External) |
| 3. Dr. Hasansab Nadaf | Member (Industry Expert) |
| 4. Prof. Seema Rai | Member |
| 5. Prof. Monika Bhaduria | Member |
| 6. Dr. Rohit Seth | Member (on leave) |
| 7. Dr. Santosh Singh | Member |

Signature

LVKS Bhaskar 25/8/2023

Poonam Sharma
25/08/2023

Hasansab Nadaf
25/08/2023

Seema Rai
25/08/23

Monika Bhaduria
25/8/23

Santosh Singh
25/8/23



Scheme and Syllabus- UG

SCHEME AND SYLLABUS

FOR

- UG Certificate in Zoology: 1 year
- UG Diploma in Zoology: 2 years
- UG Degree in Zoology: 3 years
- UG (honours with research) in Zoology: 04 years
- UG (honours) in Zoology: 04 years

Under

National Education Policy 2020

Department of Zoology, School Of Life Sciences
Guru Ghasidas Vishwavidyalaya, Bilaspur (CG)

2023-2024

Sharma
25/08/2023

Arora
25/08/2023

Sanjay Singh
25/08/23



Scheme and Syllabus for UG Courses in Zoology

**Department of Zoology, School of Life Sciences,
Guru Ghasidas Vishwavidyalaya, Bilaspur**

Semester	Courses	Name of courses	Number of courses	Level	Credits	Total Credits
I	Major	Animal diversity of non chordates (Protista to Pseudocoelomate)	1	2	3	20
		Lab Course			1	
	Minor	Animal diversity of non chordates (Protista to Pseudocoelomate)	1	2	3	
		To be offer for students of other departments				
		Lab Course			1	
	Multid.	Elementary Biology -I	1	1	3	
	To be offer for student of other disciplines (except Natural and Physical Sciences)					
	SBC	Aquaculture	1	1	2	
		To be offer for student of Zoology/other departments at university level				
		Lab Course			1	
VAC	History of Indian science (Understanding India)	2	1	2+2		
To be offer for student of Zoology/other departments at university level						
AEC	Language	1	1	2		
	To be offered by Hindi/English Department for student of Zoology					
II	Major	Animal diversity of non chordates (Coelomates)	1	2	3	20
		Lab Course			1	
	Minor	Animal diversity of non chordates (Coelomates)	1	2	3	
		To be offer for student of other departments				
		Lab Course			1	
	Multid.	Elementary Biology -II	1	1	3	
	To be offer for student of other disciplines (except Natural and Physical Sciences)					
	SEC	Apiculture	1	1	2	
		To be offer for student of Zoology/other departments at university level				
		Lab Course			1	
VAC	Food nutrition and health (Health & wellness)	2	1	2+2		
To be offer for student of Zoology/other departments at university level						
AEC	Language	1	1	2		
	To be offered by Hindi/English Department for student of Zoology					
The student must complete the 4 credit vocational course/Internship during summer term to get UG Certificate if he wishes to exit the program after first 2 semesters.						



III	Major	Diversity of chordates	2	3	3	20
		Lab Course			1	
		Cell biology			3	
		Lab Course			1	
	Minor	Diversity of chordates	1	3	3	
		To be offer for student of other departments				
	Lab Course				1	
	Multid.	Elementary Biology-I/ Elementary Biology-II	1	1	3	
		To be offer for student of other disciplines (except Natural and Physical Sciences)				
IV	SEC	Sericulture	1	1	2	20
		To be offer for student of Zoology/other departments at university level				
		Lab Course			1	
	AEC	Language	1	1	2	
		To be offered by Hindi/English Department for student of Zoology				
	Major	Physiology of regulatory life process	3	3	3	
		Lab Course			1	
		Fundamental biochemistry			4	
		Lab Course			1	
		Ecosystem dynamics and conservation			4	
		Lab Course			1	
	Minor	Physiology of regulatory life process	1	3	3	
		To be offer for student of other departments				
V	Vocational	Lab Course			1	21
		Medical diagnostics			3	
		To be offer for student of Zoology/other departments at university level				
		Lab Course			1	
	AEC	Language	1	1	2	
		To be offered by Hindi/English Department for student of Zoology				
	Major	Physiology of basic life process	3	4	4	
		Lab Course			1	
		Bioinstrumentation			4	
		Lab Course			1	
		Principle of genetics and evolution			4	
		Lab Course			1	
	Minor	Physiology of basic life process	1	4	3	
		To be offer for the student of other departments				
VI	Vocational	Lab Course			1	19
		Ornamental fish culture			3	
		To be offer for the student of Zoology/other departments at university level				
		Lab Course			1	
	Internship	During Winter Break	-	-	2	
	Major	Parasitology and immunology	3	4	4	
		Lab Course			1	
		Elements of molecular biology			4	
		Lab Course			1	

The student must complete the 4 credit vocational course/Internship either after first year or second year during summer term to get UG Diploma if he wishes to exit the program after first 4 semesters.



		Reproductive and developmental biology			4	
		Lab Course			1	
	Minor	Comparative anatomy of vertebrates	1	4	3	
		To be offer for the student of other departments				
		Lab Course			1	
		Histological techniques and light microscopy			3	
	Vocational	To be offer for the student of Zoology/other departments at university level				
		Lab Course			1	

The students wish to exit after six semester upon securing 120 credits will be awarded UG degree in relevant subject/discipline

After sixth semester, there will be two streams : (I) UG (Honours with research) and (II) UG (Honours). The students who will secure 75% and above may opt for UG (Honours with research).

(I) Course structure for UG (Honours with research)

VII	Major	Parasitology and immunology	3	5	4	19
		Lab Course			1	
		Comparative endocrinology			4	
		Lab Course			1	
		Neuroscience			4	
		Lab Course			1	
	Minor/ Vocational	Parasitology and immunology	1	5	3	
		Lab Course			1	
VIII	Major	Research methodology and biostatistics	1	5	4	21
		Lab Course			1	
	Minor/ Vocational	Research methodology and biostatistics	1	5	3	
		Lab Course			1	
	Research project/ Dissertation		-	-	12	

(II) Course structure for the UG (Honours)

VII	Major	Parasitology and immunology	3	5	4	20
		Lab Course			1	
		Comparative endocrinology			4	
		Lab Course			1	
		Neuroscience			4	
		Lab Course			1	
	Minor /	Parasitology and immunology	1	5	3	
	Vocational	Lab Course			1	
	Seminar		-	-	1	
VIII	Major	Research methodology and biostatistics	2	5	4	20
		Lab Course			1	
		Applied zoology			4	
		Lab Course			1	
	Minor	Research methodology and biostatistics	2	5	4	



Vocational Seminar	Lab Course			1	
	Applied zoology			4	
	Lab Course			1	
		-	-	2	

As per NEP-2020, Department of Zoology will offer minor course, multidisciplinary course, ability enhancement course (AEC), skill enhancement course (SEC), value added course (VAC) and vocational course to students of other departments. Similarly, student of Department of Zoology will study these courses from the courses offered by other departments/ as per university decision. Pool for minor course, multidisciplinary course, AEC, SEC, VAC and vocational course will be given by University.

Two AEC courses are compulsory in first 2 semesters (One in each semester).
Three SEC courses are compulsory in first 3 semesters (One in each semester).
Three Multidisciplinary courses are compulsory in first 3 semesters (One in each semester).
Four VAC courses are compulsory in first 2 semesters (Two in each semester).
One vocational course for certificate course and diploma courses, three vocational courses for 3/4 year degree are compulsory.

List of minor course, multidisciplinary course, AEC, SEC, VAC and vocational course offered by the department of zoology in university pool is as follows:

S.No	Multidisciplinary course	VAC	Vocational courses
1	Brain and neurological disorders	History of Indian science (Understanding India)	Medical diagnostics
2	Vectors, diseases and management	Food nutrition and health (Health & wellness)	Ornamental fish culture
3	Fundamentals of public health	-----	Histological techniques and light microscopy
S.No	SEC	Minor courses	
1	Aquaculture	Animal diversity of non chordates (Protista to Pseudocoelomate)	
2	Sericulture	Animal diversity of non chordates (Coelomates)	
3	Apiculture	Diversity of chordates	
4	-----	Physiology of regulatory life process	
5	-----	Physiology of basic life process	

Department may offer at least one paper in whole UG program on MOOC's platform and it will be compulsory to all students.

Summer and/or winter internship; duration will be 2-4 weeks (minimum 90 working hours).

Abbreviations:

AEC= Ability enhancement course; SEC= Skill enhancement course; VAC= Value added course

(Subject to approval by the competent authority)

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25/08/2023
Prof. Poonam Sharma

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Dr. Hasanab Nadaf

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Prof. Seema Rai
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25/08/2023
Prof. L V K S Bhaskar