

## Minutes of meeting of Board of Studies Department of Zoology

The meeting of academic session 2021-22 has been conducted on 12<sup>th</sup> April, 2022 at 12.00 noon through zoom platform meeting ID: 95957011390 Passcode: 193937.

Agenda of the meeting was:--

Approval to the minutes of last meeting

Discussion on UG syllabus and approval to proposed changes (If any).

Approval to the panel of paper setters, moderators and valuers.

Any other points with the permission of chair.

Following members attended the meeting online ---

Nature	Name of the member
Subject experts from outside the parent university to be nominated by academic council	Dr. Madhuri Hambarde Associate professor, Department of Zoology St. Xavier's College, Mumbai.
	Dr. Kishor Pendharkar, Head, Department of Zoology, Fergusson College, Pune.
One expert to be nominated by the VC from the parent university	Dr. S.B.Zade, Professor, Department of Zoology, RTM Nagpur University, Nagpur.
One representative from industry/ corporate sectors/ at allied area relating to placement	Mr. Vivek Khalokar, 24K Amravati Honey, Khalokar Beekeeping Enterprises, 566/2A Aishwarya Pratik, NC Kelkar Road, Near Kesari Wada, Narayan Peth, Pune.
One postgraduate meritorious alumnus to be nominated by principal	Mrs. Vidya Vaidya (Chambhare) Lecturer, Jijamata Jr. college, Wardha.
Entire faculty of each specialization	Dr. A. D. Theng Shri. V. P. Khandwekar Dr. V. J. Sharma Dr. S. P. Biswas Miss. T. R. Bhute Miss. R. K. Lonkar
Chairman / Head Dept. of Zoology, BCS, Wardha	Dr. M. R. Chandrakar

Miss. Suchita Tingusle-Faculty member, P. G. Dept. of Zoology, BCS, Wardha could not attend the meeting due to health issues.

**Following points were discussed----**

Dr. A.D. Theng welcomed BOS members and started the meeting.

- 1) Approval of minutes of last meeting held on 07-09-2021 ; minutes of last meeting has been briefed by Dr. M. R. Chandrakar which has been approved by the panel.

- 2) The proposal changes in UG syllabus B.Sc. Semester III & Semester IV has been discussed. Faculties of Bajaj College of Science, Wardha proposed in the last meeting reshuffling of units among the existing syllabus of B.Sc. Semester III and elaboration of points of B.Sc. Semester IV has been suggested by these suggested elaborative points it would be convenient for paper setter to set the paper. It has to be implemented from the session 2022-23 Panel approved the proposed changes unanimously.
- 3) Panel of examiner, paper setter, valuer for UG had been discussed and approved.
- 4) The meeting ended with expressing sincere thanks to the members by Dr. S. P. Biswas.

Chairman



Board of Studies  
(Head, Dept. of Zoology)  
Head / Incharge

Department Of Zoology  
Bajaj College Of Science, Wardha

Place :- Wardha

Date:- 12/4/2022.

## **AGENDA**

**Approval to proposed changes in UG syllabus  
(Semester III and Semester IV).**

**Proposed Changes B.Sc. Semester III - Cell  
Biology and Environment Biology To be  
implemented from 2022-23**

Existing Topics	Proposed changes	Justification
1.1 Ultrastructure of Prokaryotic and Eukaryotic Cell 1.2 Plasma Membrane: Structure- Fluid Mosaic Model and Functions 1.3 Endoplasmic Reticulum: Types, Ultrastructure and Functions 1.4 Golgi Complex: Ultrastructure and Functions	1.1 Ultrastructure of Prokaryotic and Eukaryotic Cell 1.2 Nucleus: Ultrastructure of Nuclear Membrane, Structure and Functions of Nucleolus 1.3 Endoplasmic Reticulum: Types, Ultrastructure and Functions 1.4 Golgi Complex: Ultrastructure and Functions	To connect the topics for teaching and learning (Reshuffled)
2.1 Ultrastructure Of Mitochondria & functions 2.2 Ribosome: Structure, Types, Lake's Model and Functions. 2.3 Lysosome: Structure, Polymorphism and Functions 2.4 Nucleus: Ultrastructure of Nuclear Membrane, Structure	2.1 Plasma Membrane: Structure- Fluid Mosaic Model and Functions 2.2 Lysosome: Structure, Polymorphism and Functions 2.3 Peroxisomes : Structure and Function. 2.4 Ribosome: Structure, Types, Lake's Model and	

Existing Topics	Proposed changes	Justification
3.1 Heterochromatin. Euchromatin 3.2 Chromosome: Structure and Types. 3.3 Giant Chromosomes: Lamp-Brush and Polytene Chromosome. 3.4 Structure of Nucleosome.	3.1 Ultrastructure Of Mitochondria & functions 3.2 concept of Heterochromatin; Euchromatin , Chromosome: Structure and Types 3.3 Structure of Nucleosome. 3.4 Giant Chromosomes: Lamp-Brush and Polytene Chromosome.	To connect the topics for teaching and learning (Reshuffled)
4.1 Peroxisomes : Structure and Function. 4.2 Microtubules. 4.3 Microfilaments. 4.4 Mitosis , Meiosis (Different Phases and	4.1 Microtubules: structure , function and formation of it. 4.2 Microfilaments., intermediate filament 4.3 Cell Cycle, introduction to Check points of Cell Cycle	


Existing Topics	Proposed changes	Justification
5.1 Somatic Cell Division: Cell Cycle, Check points of Cell Cycle 5.2 Elementary Idea of Cancer 5.3 Types of Stem Cell 5.4 Introduction to Animal Cell Culture.	5.1 Meiosis (Different Phases and Significance) 5.2 Elementary Idea of Cancer; properties of the cancer cell, types of cancer and causes of cancer 5.3 Types of Stem Cell 5.4 Introduction to Animal Cell Culture.	To connect the topics for teaching and learning (Reshuffled)
6.1 Concept & Types of Ecosystem 6.2 Structure of Ecosystem: Abiotic factors and Biotic factors; Producer, Consumer , Decomposer. 6.3 Food Chain , Food web; Ecological Pyramids. 6.4 Concept of Biodiversity; Hot Spots of Biodiversity.		No changes

**B.Sc. Semester IV Proposed Changes**  
**Proposed Changes B.Sc. Semester IV - Genetics**  
**& Molecular Biology**  
**To be implemented from 2022-23**



Existing Topics	Proposed changes	Justification
UNIT I & II	No Changes	
<b>UNIT III :-</b> 3.1 Human karyotype and its applications	<b>UNIT III :-</b> 3.1 Classification of chromosomes based on position of centromere, Types of banding	Original syllabus has very short points, which won't explain scope/depth of syllabus; thus it becomes difficult for picking questions by external paper setters.
<b>Unit IV :-</b> 4.2 DNA Composition & Structure	<b>Unit IV :-</b> 4.2 Watson and chick's model of DNA structure, Nucleoside & Nucleotides, purines & pyrimidines. 4.3 ( t RNA, mRNA and r RNA )	
<b>UNIT – V</b> 5.2 DNA Replication in prokaryotes 5.4 Genetic code: Nirenberg and Matthaehi experiment, Khurana Experiment, Wobbles Hypothesis.	<b>Unit V :-</b> 5.2 Prokaryotic DNA polymerase. 5.4 Genetic code: Nirenberg and Matthaehi experiment, Properties of Genetic code, Wobbles Hypothesis.	

Existing Topics	Proposed changes	Justification
<b>UNIT – VI</b> 6.1 Translation in Prokaryotes.( activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain.) 6.3 Regulation of Gene expression in prokaryote 6.4 Operons – Lactose and Repressible operon – Tryptophan	<b>Unit VI :-</b> 6.1 aminoacyl tRNA synthetases, prokaryotic ribosomes and sites, 30 S Initiation complex, 70 S Initiation complex. 6.3 Regulation of Gene expression in prokaryote. Repressor operator model of operon regulation, inducer, structure, positive and negative regulation in Lac operon. 6.4 Tryptophan operon– structure, repressor, operator and attenuation mechanism of regulation of Trp operon	Original syllabus has very short points, which won't explain scope/depth of syllabus; thus it becomes difficult for

  
 Head / Incharge  
 Department Of Zoology  
 Bajaj College Of Science, Wardha

## AGENDA

Approval to a new list of paper setters/moderators and evaluators /moderators




Head / Incharge  
Department Of Zoology  
Bajaj College Of Science, Wardha

Zoom Meeting

Recording Paused

**B.Sc. Semester IV Proposed Changes**  
**Proposed Changes B.Sc. Semester IV - Genetics & Molecular Biology**  
**To be implemented from 2022-23**



Suresh's iPhone  
Dr. Saket Arora  
Madhuri  
Dr. Anil Theng  
Vidhya Prashan...  
Vidhya Prashant Chambhare  
Trupti Bhute  
mamata chandrakar  
Vivek's iPhone...  
Vivek's iPhone 6s plus  
Redmi\_Kishor P...  
Redmi\_Kishor Pendharkar  
Raviat Lonkar


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Zoom Meeting

Recording Paused

Existing Syllabus	Proposed Changes	Justification
<b>UNIT - VI</b> <b>6.1 Translation in Prokaryotes. (activation of amino acids, transfer of activated amino acids to tRNA, Initiation, elongation and termination of polypeptide chain.)</b>  <b>6.3 Regulation of Gene expression in prokaryote</b> <b>6.4 Operons - Lactose and Repressible operon - Tryptophan</b>	<b>Unit VI :-</b> 6.1 aminoacyl tRNA synthetases, prokaryotic ribosomes and sites, 30 S initiation complex, 70 S initiation complex.  6.3 Regulation of Gene expression in prokaryote. Repressor operator model of operon regulation, inducer, structure, positive and negative regulation in Lac operon, 6.4 Tryptophan operon - structure, repressor, operator and attenuation mechanism of regulation of Trp operon	Original syllabus has very short points, which won't explain scope/depth of syllabus; thus it becomes difficult for picking questions by external paper setters.



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Dr. Saket Arora  
Madhuri  
Dr. Anil Theng  
Vidhya Prashan...  
Vidhya Prashant Chambhare  
Trupti Bhute  
mamata chandrakar  
Vivek's iPhone...  
Vivek's iPhone 6s plus  
Redmi\_Kishor P...  
Redmi\_Kishor Pendharkar  
Raviat Lonkar

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