

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Department of Zoology and Fishery Science**  
**Structured Work Plan for Teaching**  
**Academic Year 2023-24(Term-II)**

1. Details of Classes to be taught:

Class	Name of Teacher	Course Title	Course Code	Practical paper code	Total Teaching Hours
B.Sc. S.Y. (Sem - IV)	Miss.Nasreen Shaikh	Molecular Biology and Genetic Engineering - VIII	U-ZOO-464	-	45

2. Summary of Lesson Plan:

Sr. No.	Unit and Chapter to be covered	Date from	Date to	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1	UNIT- I Introduction (Structure, properties, function, and type of DNA) Ribonucleic acid Replication and Genetic codes	02-01-2024	17-01-2024	11	Group Discussion	-
2	UNIT- II Protein synthesis Gene Expression in prokaryotes (Lac operon) eukaryotes	22-02-2024	13-02-2024	12	BLAST Analysis	Assignment I
3	UNIT- III Introduction to genetic engineering- Tools ,Vectors, PCR	20-02-2024	11-03-2024	11	Group Discussion	-
4	UNIT- IV Gene cloning and Transgenic animals ,DNA fingerprinting	13-03-2024	27-03-2024	11	Video animation	Unit Test II

*Nasreen Shaikh*  
*02/08/24*  
 Course Teacher

*Janak*  
 HoD  
 Head

Department of Zoology & Fishery Science  
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 Latur (Autonomous)

*Janak*  
 Principal  
 PRINCIPAL  
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1. Details of Classes to be taught

Class	Name of Teacher	Course Title	Course Code	Practical paper code	Total Teaching Hours
M.Sc. F.Y (Sem - II)	Miss.Nasreen Shaikh	Biosystematics and Taxonomy	P-BTA-284	-	45

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Date from	Date to	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1	Unit I: Biosystematics, and types of taxonomy	04-01-2024	20-01-2024	11	Video presentation	
2	Unit II: Dimensions of speciation and species concept and taxonomic procedures.	25-02-2024	17-02-2024	12	Power point presentation	Assignment I
3	Unit III: Classification and nomenclature	22-02-2024	9-03-2024	10	Group Discussion	
4	Unit IV: Molecular taxonomy, Ethics in taxonomy and taxonomic evaluation	14-03-2024	30-03-2024	12	Group Discussion	Unit Test II

*Nasreen Shaikh*  
Course Teacher

*Zish*  
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1. Details of Classes to be taught

Class	Name of Teacher	Course Title	Course Code	Practical paper code	Total Teaching Hours
M.Sc. S.Y. (Sem -IV)	Miss.Nasreen Shaikh	Animal biotechnology	P-GAP-483	P-LC-488	Th-45

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Date from	Date to	No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic
1	UNIT - I : Biotechnology, Genetic Engineering, Transgenics	01-01-2024	18-01-2024	12	Video / animation	
2	UNIT - II: Fish breeding, Gene bank and Conservation	22-02-2024	15-02-2024	10	Power point presentation	Assignment
3	UNIT - III: Feed technology, Algal biotechnology, Nanotechnology	20-02-2024	07-03-2024	12	Seminar	
4	UNIT - IV: Health management, Post-harvest biotechnology	11-03-2024	28-03-2024	11	Group Discussion	Unit Test II

*Nasreen Shaikh*  
**Course Teacher**

*E.2164*  
**HoD**  
**Head**

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