



Estd. 1962
NAAC 'A' Grade

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दुरध्वनी (ईपीएबीएक्स) २६०९०००० (अभ्यास मंडळे विभाग— २६०९०९४)
फेक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

SU/BOS/Science/ **No 0 0 2 4 5**

Date: **16 NOV 2021**

To,

1) The Principal, All Concerned Affiliated Colleges/Institutions Shivaji University, Kolhapur	2) The Head, All Concerned Department Shivaji University, Kolhapur.
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Subject: Regarding Syllabi of **M.Sc Part II Zoology Sem III & IV** under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi of **M.Sc Part II Zoology Sem III & IV** under the Faculty of Science and Technology.

Sr.No	Programme/Course/Paper	
1	M.Sc Part II Sem III Non-CGPA Paper	Biology of Reproduction
2	M.Sc Part II Sem IV GE - Paper	Applied Zoology

This syllabi shall be implemented from the academic year 2021-2022 (i.e. from June 2021) onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,


Dy Registrar

Copy to:

1	The Dean, Faculty of Science & Technology	7	Appointment Section
2	The Chairman BOS	8	Computer Centre
3	B.Sc/M.Sc Section	9	Affiliation Section (U.G.)
4	O.E. II, Section	10	Affiliation Section (P.G.)
5	Eligibility Section	11	P.G.Admission Section
6	P.G.Seminar Section		

Biology of Reproduction

M.Sc. II Semester III (For Non CGPA Course)

With effect from Academic Year 2021-22

Unit I Basics of Reproductive system **15hrs.**

1. Male Reproductive system: Structure & functions
2. Female Reproductive system: Structure & functions

Unit II Contraceptives and Assisted reproduction **15hrs.**

1. Process of Fertilization & Implantation
2. Birth control measures / Contraceptives
3. Assisted Reproductive Techniques

APPLIED ZOOLOGY

MSc II Semester IV (for Non CGPA Course GE-407)

With effect from Academic Year 2021-22

UNIT I: Fisheries

(15 Hrs.)

1. Know your fishes: Freshwater fishes, Marine water fishes & Brackish water fishes
2. Ornamental Fishes: Introduction, Examples of ornamental fishes & Aquarium accessories
3. Diseases of Fishes: Bacterial diseases, Fungal diseases & Viral diseases
4. Products & By-products of fishes

Unit II: World of Insects

(15 Hrs.)

1. **Insects:** Classification, characters, their distribution and dominance.
2. **Honey Bees:** Classification, Honey bee species in apiculture, Social organization of honey bees, Nuptial flight.
2. **Lac culture:** Lac insect- Classification, Host plants of lac insect, Life cycle, uses of Lac.
3. **Insects In forensic Science:** Examples of insects, Role of arthropods in forensic entomology.
4. **Insect as a Food:** Examples of insects generally consumed, Nutritional value, Entomophagy as a source of income.
5. **Wonders in Insects:** Migratory Locusts, Mud Wasps, Cicada, Praying Mantid, Butterfly, Dragonfly, Giant Cockroach, etc.