

GOUR MAHAVIDYALAYA

ACCREDITED BY NAAC (2nd Cycle) B+

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Cross Cutting Issues Department of Zoology

Cross-cutting issues in the Zoology undergraduate syllabus integrate interdisciplinary themes that transcend traditional boundaries, enriching the curriculum by connecting biological concepts with broader societal and environmental concerns. Key cross-cutting issues include:

- 1) Environment and Sustainability
- 2) Environment & Professional Ethics
- 3) Gender Issues
- 5) Professional Ethics
- 6) Human Values

1.3.1. LIST AND DESCRIPTION OF COURSES WHICH ADDRESS PROFESSIONAL ETHICS, GENDER, HUMAN VALUES, ENVIRONMENT AND SUSTAINABILITY INTO THE CURRICULUM

1. **3RD SEMESTER : GENERAL:** DC7 Physiology and Biochemistry. SEC 1: Apiculture
2. **4TH SEMESTER: GENERAL:** DC 10 Genetics and Evolutionary Biology. SEC 2: Sericulture
3. **5TH SEMESTER : GENERAL:** DSE 1A : Cell Biology and Animal Biotechnology. DSE 1B: Immunology DSE 1C: Reproductive Biology. SEC 3: Aquarium Fish Keeping
4. **6TH SEMESTER : GENERAL :** DSE 4A: Aquatic Biology DSE 4B: Applied Zoology DSE 4C: Insects, Vectors and Diseases SEC 4: Medical Diagnostics
5. **3RD SEMESTER : HONS:** DC5: Cell Biology and Principles of Genetics. DC6: Ecology and Conservation Biology. DC7: Developmental Biology and Reproductive Biology
6. **4TH SEMESTER : HONS :** DC9: Animal Physiology: Life sustaining system.
7. **5TH SEMESTER: HONS:.** DC12: Economic Zoology and Industrial Zoology DSE: 1A Animal Biotechnology. DSE: 1B Microbiology SEC 1: Sericulture (or) Apiculture
8. **6TH SEMESTER: HONS:** DC13: Parasitology and Immunology. DSE: 3 Animal Behaviour and Chronobiology (OR) Toxicology, Environmental Biology and Public Health. DSE 4: Biology of insects. SEC 2: Aquarium fish keeping (or) Medical Diagnostic Techniques

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Topic wise distribution of the Zoology Syllabus

These cross-cutting issues provide a holistic education, preparing students to address complex biological and societal challenges with a well-rounded perspective.

	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Environment and Sustainability			DC6 (Hons.): Ecology and Conservation Biology		DC12 (Hons): Economic Zoology and Industrial Zoology DSE1B(Hons.) Microbiology	DSE 4A (Gen): Aquatic Biology DSE 4C (Gen): Insects, Vectors and Diseases DSE: 3(Hons.) Animal Behaviour and Chronobiology DSE 4 (Hons): Biology of insects
Environment & Professional Ethics *Ethics in Zoology: Addressing ethical considerations in animal research, conservation practices, and wildlife management			SEC 1(Gen): Apiculture	SEC 2(Gen): Sericulture	SEC 3: Aquarium Fish Keeping SEC 1(Hons.): Sericulture (or) Apiculture	SEC 2: (Hons.) Aquarium fish keeping
Gender Issues * Sex Differences in Physiology * Biochemistry of Hormones * Reproductive Health			DC7(Gen) Physiology and Biochemistry DC7(Hons.): Developmental Biology and Reproductive Biology	DC9(Hons.): Animal Physiology: Life sustaining system	DSE 1C: Reproductive Biology	

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	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Professional Ethics * Stem cell research and genetic editing					DSE 1A : Cell Biology and Animal Biotechnology	SEC 4 (Gen): Medical Diagnostics SEC 2 (Hons,) Medical Diagnostic Techniques
Human Values * Health and Medicine *Ethics and Society-Cloning, Human genetic modification * Poverty and Socio-Economic Factors * Public Health focusing on zoonotic diseases, vectors			DC5 (Hons.): Cell Biology and Principles of Genetics	DC 10 Genetics and Evolutionary Biology	DSE 1A (Hons)- Animal Biotechnology	DC13 (Hons.): Parasitology and Immunology. DSE: 3 (Hons) Toxicology, Environmental Biology and Public Health. DSE 4C (Gen): Insects, Vectors and Diseases

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