

ताळगांव पठार, गोंय - ४०३ २०६

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Goa University

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(Accredited by NAAC with Grade A+)

GU/Acad -PG/BoS - GU-ART /2025-26/574

CIRCULAR

The syllabus for the Goa University–Admission Ranking Test (GU-ART) of **Master of Science in Zoology** and **B.Ed. in Zoology** Programmes, approved by the Academic Council in its meeting held on 7th November 2025 is attached.

The Dean/Vice-Dean (Academic) of the School of Biological Sciences and Biotechnology and the Principals of all the affiliated Colleges are requested to take note of the above and bring the contents of this Circular to the notice of all concerned, including students aspiring to pursue the Master's and B.Ed. Programmes.

(Ashwin V. Lawande) Deputy Registrar – Academic

To,

- 1. The Dean, School of Biological Sciences and Biotechnology, Goa University.
- 2. The Vice-Dean (Academic), School of Biological Sciences and Biotechnology, Goa University.
- 3. Principals of all the affiliated Colleges.

Copy to:

- 1. Controller of Examinations, Goa University.
- 2. Assistant Registrar (Admissions), Goa University.
- 3. Assistant Registrar Examinations (UG/PG), Goa University.
- 4. Director, Directorate of Internal Quality Assurance, Goa University for uploading the Syllabus on the University website.



SYLLABUS FOR GOA UNIVERSITY-ADMISSIONS RANKING TEST (GU-ART) FOR MASTER'S & B.Ed. IN ZOOLOGY PROGRAMMES

Effective from AY: 2026-2027

Modules	Content
Module 1:	Amazing World of Animals
	Earth's evolution, animal origins, classification, habitats, roles in ecosystems and human life. Values & threats to animals, unique adaptations; habitat diversity, adaptive features, local fauna conservation.
Module 2	Understanding Applications of Zoology
	Scope and milestones of Zoology, role in public health, industry, and conservation. Disease-causing organisms & vectors, economically important species, GMOs, animal-inspired designs, & wildlife conservation strategies, conservation genetics.
Module 3:	Biology of Non-Chordates and Chordates
	Structural organization, symmetry, body plans, coelom types in non-chordates and chordates; invertebrate & vertebrate phyla (key features, classification, & evolutionary significance). Study of representative forms, larval types, organ systems, & adaptive traits across Protozoa to Mammalia.
Module 4:	Cell Biology & Genetics
	Structure & organization of prokaryotic & eukaryotic cells, organelles, membranes, chromosomes, cell division, & mutations. Inheritance patterns, sex determination, cytoplasmic inheritance, genetic disorders, Cell staining, karyotyping, chromosome study, Mendelian genetics.
Module 5:	Vector-borne Diseases
	Disease-transmitting vectors, types, transmission modes, control strategies. Insect vectors: mosquitoes, sandflies, houseflies, fleas, lice, bugs, arthropod & molluscan vectors (ticks & snails). Disease causative agents, life cycles, symptoms (malaria, dengue, leishmaniasis, plague, typhus, Chagas disease, schistosomiasis, Lyme disease). Identification, life cycles, vector morphology, epidemiological analysis, control programs for vector- & rodent-borne diseases.

Publishers.

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- 12. Satyanarayana, U. (2013). Biochemistry. Elsevier Health Sciences.
- 13. Schmidt, G. D., & Roberts, L. S. (1977). Foundations of parasitology (pp. viii+-604).
- 14. Scopes, R. K. (1993). *Protein purification: principles and practice*. Springer Science & Business Media.
- 15. Snustad, D. P., & Simmons, M. J. (2015). *Principles of genetics*. John Wiley & Sons.
- 16. Sodhi, N. S., & Ehrlich, P. R. (Eds.). (2010). *Conservation biology for all*. Oxford University Press.
- 17. Verma, P. S. (2010). Chordate zoology. S. Chand Publishing.

