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|                                                                                                                                                                                                                                                                                                                                 |                                | Practical Plan                 |                                     |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| Name of the college: Govt. College of Arts, Science and Commerce, Sanquelim - Goa                                                                                                                                                                                                                                               |                                |                                |                                     |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| Name of Faculty: Ms. Preethi Pednekar                                                                                                                                                                                                                                                                                           |                                | Subject: Zoology               |                                     |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| Paper code: ZOO 100 (Practical)                                                                                                                                                                                                                                                                                                 |                                | Program: F Y BSc               |                                     | Division: A                                                                                                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| Academic year: 26- 27                                                                                                                                                                                                                                                                                                           |                                | Semester: I                    |                                     | Total Practicals/Labs: 11                                                                                                                                                       |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| Credits:                                                                                                                                                                                                                                                                                                                        | 01                             |                                |                                     |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| 1. Course Objectives: 1. To outline the origin, diversity and distribution of Animals. 2. To explain the resilience of animal life                                                                                                                                                                                              |                                |                                |                                     |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| Expected Course Outcome: Sound practical knowledge of animal diversity and distribution.                                                                                                                                                                                                                                        |                                |                                |                                     |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 |                                |                                |                                     |                                                                                                                                                                                 |  |
| <b>Student Learning Outcome:</b> At the end of the course, students will be able to:<br>1. Explain the origin, diversity and distribution of animals. 2. Summarize the role of animals in the dynamics of earth.<br>3. Discover the fascinating world of animals. 4. Relate to the factors important for sustenance of animals. |                                |                                |                                     |                                                                                                                                                                                 |  |
| Month                                                                                                                                                                                                                                                                                                                           | Practicals/Labs scheduled Date | No. of Practical/ Labs planned | List of Experiments                 | Reference books                                                                                                                                                                 |  |
| June                                                                                                                                                                                                                                                                                                                            | 27/06/2026                     | 1                              | Study of Desert, Savanna animals    | <ul style="list-style-type: none"> <li>Laboratory Manual</li> <li>Jordan, E. L., &amp; Verma, P. S. (2016). <i>Invertebrate zoology</i>. S. Chand &amp; Company Ltd.</li> </ul> |  |
| July                                                                                                                                                                                                                                                                                                                            | 04/07/2026                     | 1                              | Study of grassland, Forest, animals |                                                                                                                                                                                 |  |
|                                                                                                                                                                                                                                                                                                                                 | 11/07/2026                     | 1                              | Study of Cave and oceanic animals   |                                                                                                                                                                                 |  |

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| July      | 18/07/2026 | 1 | Mounting of Protozoans from Pond Water sample and identification of any two specimens.                                                                                                   |
|           | 25/07/2026 | 1 | Study of bioluminescent animals (any 2 examples).                                                                                                                                        |
| August    | 01/08/2026 | 1 | Study of pearl formation through examination of Molluscan shellfish like Window pane Oyster/Rock Oyster.                                                                                 |
|           | 08/08/2026 | 1 | Demonstration of regeneration of fin in fish.<br>Study of 'Batesian and Mullerian' Mimicry in butterflies.                                                                               |
|           | 22/08/2026 | 1 | Camouflage as a protective mechanism in animals with reference to larvae of Common Mormon and Common Baron Butterfly.                                                                    |
|           | 29/08/2026 | 1 | Study of parental behaviour in animals (Arthropod (Potter Wasp, Scorpion), Fishes (Sea horse, cat fish), Amphibia (Midwife toad and Ichthyophis), Birds (Baya Weaver Bird, Common Crow). |
| September | 05/09/2026 | 1 | Study of campus fauna: Butterflies, Birds, Amphibia, Reptiles.                                                                                                                           |
|           | 12/09/2026 | 1 | Study of campus fauna: Butterflies, Birds, Amphibia, Reptiles, contd.                                                                                                                    |
|           | 26/09/2026 | 1 | Visit to a Zoo or an Aquarium to appreciate ex situ conservation approach.                                                                                                               |
| October   | 03/10/2026 | 1 | Listing of Official State fauna of Goa and assessing their conservation threats.-Certification of Journals                                                                               |
|           | 07/10/2026 | 1 | Exam                                                                                                                                                                                     |