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| **Course Code** | ZYU5309 | | | | | | |
| **Level** | 5 | | | | | | |
| **Course Title** | Paleobiology | | | | | | |
| **Credit value** | 03 credits | | | | | | |
| **Core/Optional** | Optional | | | | | | |
| **Prerequisites** | None | | | | | | |
| **Hourly breakdown** | **Theory** | | **Practical** | **Independent Learning** | | **Assessment** | **Total** |
| Sessions  21 x 2 =  **42 hrs** | DS hrs=  **12 hrs** | Field =  **18 hrs** | * Sessions (21x 3 hrs) = **63 hrs** * Field (18x0.5)= **9 hrs** * Recommended reading =**4 hrs** | | Continuous Assessments =**2 hrs** | 150 hrs |
| **Course Aim/s.** | To stimulate and develop the interest in paleobiology and its contribution to biodiversity and conservation | | | | | | |
| **PLOs addressed by course** | **PLO1: Knowledge:** Explain the fundamental, principles and broader knowledge pertaining to the chosen science disciplines offered for the degree.  **PLO2: Practical Knowledge and Application**. Demonstrate the competency to use the knowledge and practical skills appropriately.  **PLO3: Communication**: Demonstrate the competency in communicating efficiently and effectively to present information, ideas and concepts to the scientific community as well as to the wider society.  **PLO4: Individual Work, Team Work and Leadership**: Demonstrate the competency in working independently and in groups in addressing issues in multi-disciplinary environments and completing the tasks on time through collaborative learning while exhibiting leadership.  **PLO5: Creativity and Problem Solving:** Identify and analyze problems using quantitative and/or qualitative approaches using scientific methodology to provide valid conclusions.  **PLO6: Adaptability and Flexibility:** Demonstrate the ability to adapt to diverse working environments using flexible approaches and strategies.  **PLO7: Information and Communication Technology Literate**: Demonstrate the competency of using Information and Communication Technology for numerical and statistical analysis, and in day to day applications. | | | | | | |
| **Course Learning Outcomes (CLO)** | At the completion of this course, students will be able to:  CLO1: Define the terms and explain the concepts of paleobotany, paleogeography, paleozoology and paleoanthropology. **(PLO1)**  CLO2: Describe on origin of life, remaining fauna and flora. **(PLO1)**  CLO3: Comment on the paleobiological concepts related to Sri Lanka. **(PLO1, PLO5)**  CLO4: Develop practical skills in felid work, data collection and making field notes. **(PLO1,2,3,4,5,6,7)**  CLO5: Develop skills in report writing and data interpretation, organization and presentation. **(PLO1,3,5,6,7)** | | | | | | |
| **Content**  **(Main topics, sub topics)** | **Concepts in Paleobiology**  Introduction to Paleobiology, Origin of life on earth, changing life, Zoogeography, dating methods, paleozoology, bone modification, paleobotany, paleoanthropology, Gathering primary data from faunal remains, anatomical features of age and sex, gathering secondary data, humans as predators, life of hunters, animal domestication, Ice age, paleobiology of Sri Lanka, zooarchaeology for conservation biology, an experimental application of paleozoology | | | | | | |
| **Teaching Learning methods** | Self-Learning/Independent learning of Self-study (IL)   * Learning the course contents in course material i in print * Learning through practical exercises * Additional reading material / recommended reading   Contact sessions   * Day schools (discussion classes Non- compulsory) * Field work as group projects (compulsory) | | | | | | |
| **Assessment strategy** | Overall CA Mark (OCAM): 40% | | | | Final Assessment: 60% | | |
| Details: Continuous Assessment (CA)  **50%** from Best NBT + 20% from next (Theory- 2 hrs) + **30%** (Field practical+report) | | | | Theory: 100%  1 paper (Essay) – 2 hrs | | |
| **Recommended**  **Readings:** | 1. Raup, D., Raup, D. M., & Stanley, S. M. (1978). *Principles of paleontology*. Macmillan. 2. Delson, E., Tattersall, I., Van Couvering, J., & Brooks, A. S. (2004). *Encyclopedia of human evolution and prehistory*. Routledge | | | | | | |