

| Semester Lecture Plan | | | | | | |
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| Name of the college: Government College of Arts, Science & Commerce, Sanquelim, Goa-India | | | | | | |
| Name of Faculty: Brahmanand N Sawant | | | Subject: Geology | | | |
| Paper code: GEO201- PRINCIPLES OF STRATIGRAPHY AND PALEONTOLOGY | | | Program/Course: Sy B.Sc. | | Division: | |
| Academic year: 2024 - 2025 | | | Semester: III | | Total Lectures: 45 | |
| Course Objectives: 1. Students will acquire knowledge about stratigraphic principles. 2. Students will acquire knowledge about occurrence of fossils in different Indian Formations | | | | | | |
| Course Learning Outcome: 1. Students will be able to apply these stratigraphic principles during field investigations. 2. Students will be able to identify and classify common fossils. | | | | | | |
| Month | Lectures From: | Lectures To: | No. of lectures allotted | Topic, Subtopic to be covered | ICT Tools | Reference books |
| JUNE | 28/06/2024 | 6/7/2024 | 03 | Introduction to this paper and syllabus discussion | PPT | The Elements of Palaeontology by Rhona Black |
| | 8/7/2024 | 13/7/2024 | 03 | Principles of stratigraphy fossils | Powerpoint Presentation | |
| | 15/7/2024 | 20/7/2024 | 3 | Methods of stratigraphic correlation | Powerpoint presentation | |

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| JULY/August | 22/7/2024 | 27/7/2024 | 03 | Methods of correlation | PPT | The Elements of Palaeontology by Rhona Black |
| | 28/7/2024 | 3/8/2024 | 03 | Lithostratigraphy and its units | PPT | |
| | 5/8/2024 | 10/8/2024 | 03 | Chronostratigraphy and its units | PPT | |
| | 12/8/2024 | 17/8/2024 | 03 | Stratigraphic time scale Geochronology | PPT | |
| | 19/8/2024 | 24/8/2024 | 03 | Indian stratigraphic scale | PPT | |
| August/ September | 26/8/2024 | 31/8/2024 | 03 | Conditions for preservation of fossils | PPT | |

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| | 2/09/2024 | 7/9/2024 | 03 | Factors controlling distribution of organisms | PPT | |
| | 16/9/2024 | 21/09/2024 | 03 | Physical chemical and biological destruction of fossils | PPT | |
| September | 23/09/2024 | 28/09/2024 | 03 | Transported fossils Derived fossils | PPT | |
| September | 30/09/2024 | 05/10/2024 | 03 | Uses of fossils, Morphology and geological history of bivalves Gastropods and brachiopods | PPT | The Elements of Palaeontology by Rhona Black |
| October | 07/10/2024 | 12/10/2024 | 03 | Morphology of cephalopods, belemnites and ammonites, crinoids | PPT | The Elements of Palaeontology by Rhona Blackrocks by Maurice E Tucker |

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| October | 14/10/2024 | 19/10/2024 | 03 | Morphology and geological history of echinoids, trilobites, foraminifera and evolution of vertebrates | PPT | The Elements of Palaeontology by Rhona Black |
| October | 21/10/2024 | 26/10/2024 | 04 | Evolution of humans, Gondwana flora, evolution of dinosaurs | PPT | |

| Assessment Rubrics | Component | Max Marks |
|--------------------|---------------|-----------------------------|
| | SEE Practical | 25 |
| | ISA I | 7.5 |
| | ISA II | 7.5 |
| | ISA III | 7.5 (Best 2 are considered) |
| | SEE Exam | 60 |
| | Total | 100 |