JHARKHAND Rai University
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# Lesson Plan & Tracking

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| **Programe : DIPLOMA** | **Session : 2022-23** | **Year : 2022** | **Sem: III** |
| **Course: MINING GEOLOGY I** | | | |
| **Name of the Faculty: PURUSHOTTAM KUMAR** | **Commencement Date:29th Aug 2022** | | **Date of Closure:** |

| Lecture No. | Week | Unit | Topics to be Covered | Blended Mode | | | Date | Duration | Tracking of Lectures | Related Course Outcome | Signature of Faculty | Signature of HoD | Remarks (if any) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ICT Tool/Platform/ LMS | Resources | Activity | | | | | | | |
| 1 | 1 | Unit1 | General geology: Branches, Sub branches | | | | | | | | | | |
| 2 | | Unit1 | scope, origin of earth, continental Drift | | | | | | | | | | |
| 3 | | Unit1 | Mineralogy: Definition | | | | | | | | | | |
| 4 | 2 | Unit1 | minerals and Physical properties | | | | | | | | | | |
| 5 | | Unit1 | Chemical Properties of Minerals | | | | | | | | | | |
| 6 | | Unit1 | properties of common minerals like Quartz, feldspar, Mica | | | | | | | | | | |
| 7 | 3 | Unit1 | Pyrite, Chalcopyrite | | | | | | | | | | |
| 8 | | Unit1 | Galena, Hematite | | | | | | | | | | |
| 9 | | Unit1 | Magnetite, Chromite, Psilomelane etc. | | | | | | | | | | |
| 10 | 4 | Unit2 | Petrology: Igneous rocks: Magma and Lava | | | | | | | | | | |
| 11 | | Unit2 | extrusive and intrusive forms | | | | | | | | | | |
| 12 | | Unit2 | Classification and description of common igneous rocks (Granite, Dolerite, Gabbro, Basalt, Pegmatite) | | | | | | | | | | |

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| **13** | | **Unit2** | Sedimentary Rocks : Sedimentation process; classification | | | | | | | | | | |
| **14** | **5** | **Unit2** | description of common sedimentary rocks | | | | | | | | | | |
| **15** | | **Unit2** | Conglomerate, sandstone, shale, Limestone. | | | | | | | | | | |
| **16** | | **Unit2** | Metamorphic Rocks: Process of metamorphism, classification | | | | | | | | | | |
| **17** | **6** | **Unit2** | description of common metamorphic rocks Slate, Marble, Quartzite, Gneiss, Schist | | | | | | | | | | |
| **18** | | **Unit2** | Slate, Marble, Quartzite, Gneiss, Schist | | | | | | | | | | |
| **19** | | **Unit3** | Paleontology and Stratigraphy | | | | | | | | | | |
| **20** | **7** | **Unit3** | Concept of paleontology | | | | | | | | | | |
| **21** | | **Unit3** | fossils | | | | | | | | | | |
| **22** | | **Unit3** | mode of presentation | | | | | | | | | | |
| **23** | **8** | **Unit3** | concept of index fossils; | | | | | | | | | | |
| **24** | | **Unit3** | principles of stratigraphic subdivisions | | | | | | | | | | |
| **25** | | **Unit3** | associated rock types | | | | | | | | | | |
| **26** | **9** | **Unit3** | associated rock types of important are provenience | | | | | | | | | | |
| **27** | | **Unit3** | Coal belt. | | | | | | | | | | |
| **28** | | **Unit4** | Physical Geology: Erosion & weathering | | | | | | | | | | |
| **29** | **10** | **Unit4** | River& wind erosion, Earth quake | | | | | | | | | | |
| **30** | | **Unit4** | Volcano, Geological Map | | | | | | | | | | |

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| **31** | | **Unit4** | Drawing of Geological section of maps | | | | | | | | | | |
| **32** | **11** | **Unit4** | Description of Geological maps, characteristics of contour line | | | | | | | | | | |
| **33** | | **Unit4** | characteristics of contour line. | | | | | | | | | | |
| **34** | | **Unit4** | River& wind erosion, Earth quake | | | | | | | | | | |
| **35** | **12** | **Unit4** | Revision of unit 1 | | | | | | | | | | |
| **36** | | **Unit4** | revision of unit 2 | | | | | | | | | | |