

| Dicipline: | Mining | Semester: 3rd | Name of the Teaching Faculty: babasish prashnan | |
|---------------------------|---------------------------------------|--|---|--|
| Subject: mine Geology-I | No of Days/Week Class Allotted: _____ | Semester From date: 13/09/22 To date 18/10/22 | No. of Weeks: _____ | |
| WEEK | Class Day | Theory Topics | | |
| From 13/09/22 to 16/09/22 | 1st | Introduction to Geology | | |
| | 2nd | Weathering & its caused, mechanical, chemical organic weathering | | |
| | 3rd | | | |
| | 4th | | | |
| | 5th | | | |
| From 19/09/22 to 24/09/22 | 1st | various sketches of erosional action by wind, | | |
| | 2nd | sketches of depositional land forms formed - created by wind. | | |
| | 3rd | real sketches of erosional action by river. | | |
| | 4th | sketches of depositional land forms produced - created by river. | | |
| | 5th | | | |
| From 26/09/22 to 01/10/22 | 1st | How glacier is formed & moraine is formed | | |
| | 2nd | Difference between Cirque & moraine. | | |
| | 3rd | erosional features produced by glacier | | |
| | 4th | depositional features produced by glacier | | |
| | 5th | | | |

| WEEK | Class Day | Theory Topics |
|---------------------------|-----------|---|
| from 10/10/22 to 15/10/22 | 1st | definition of magma & its formation |
| | 2nd | types of magma |
| | 3rd | Description of formation of these types of magma |
| | 4th | Introduction to Petrology, Topography Plate tectonics |
| | 5th | |
| from 17/10/22 to 22/10/22 | 1st | Definition of rock & mineral & their distinctive properties. |
| | 2nd | Sedimentary rock |
| | 3rd | Sequence of metamorphism of original rock into sedimentary. |
| | 4th | Sedimentary rock of pebbles & most important sedimentary rock |
| | 5th | |
| from 24/10/22 to 29/10/22 | 1st | Igneous Rock description, formation |
| | 2nd | types of igneous rocks examples & its of crystals. |
| | 3rd | Metamorphic rock |
| | 4th | Various textures & structures of igneous rocks. |
| | 5th | |

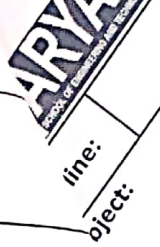
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ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

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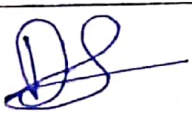
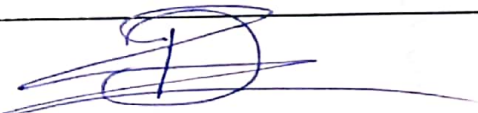
| WEEK | Class Day | Theory Topics |
|---------------------------|-----------|--|
| From 01/11/22 to 05/11/22 | 1st | Important structure of sedimentary rocks |
| | 2nd | Sketches of sedimentary rocks. |
| | 3rd | Various structure found in metamorphic rocks. |
| | 4th | Introduction to Structural Geology |
| | 5th | |
| From 07/11/22 to 12/11/22 | 1st | Dip, True dip & apparent dip |
| | 2nd | Strike, angle of dip & direction of Dip. |
| | 3rd | Folds, classification of folds |
| | 4th | Description of types of folds. |
| | 5th | |
| From 14/11/22 to 19/11/22 | 1st | Fault & Types of fault. |
| | 2nd | Unconformity & various types of Un-conformity. |
| | 3rd | Joint & Its various types. |
| | 4th | Introduction to Crystallography |
| | 5th | |



| WEEK | Class Day | Theory Topics |
|---------------------------|-----------|--|
| From 21/11/22 to 26/11/22 | 1st | Genesis of crystallography |
| | 2nd | Description of Symmetry & types of crystals. |
| | 3rd | Various Symmetry elements. |
| | 4th | Miller indices for two dimensional objects. |
| | 5th | |
| From 28/11/22 to 03/12/22 | 1st | Miller indices for three dimensional objects. |
| | 2nd | Face, edge, solid angle, interfacial angle, distortion, zone, zone axis. |
| | 3rd | Various forms present in the normal class of isometric. |
| | 4th | Concept of bonding in solids. |
| | 5th | |
| From 05/12/22 to 10/12/22 | 1st | Crystal or crystalline solid, concept of crystallography (crystalline, polycrystalline, Amorphous) |
| | 2nd | Crystallography axes, Angles of Crystallographic axes. |
| | 3rd | Define mineral, occurrence of mineral |
| | 4th | Describe the physical properties of mineral |
| | 5th | |

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| WEEK | Class Day | Theory Topics |
|---------------------------|-----------|--|
| From 12/12/22 to 17/12/22 | 1st | Classification of descriptive mineralogy |
| | 2nd | Various optical properties of minerals. |
| | 3rd | Silicate structures along with diagrams. |
| | 4th | POLYMORPHISM, ISOMORPHISM, PSEUDOMORPHISM. |
| | 5th | |
| From 19/12/22 to 22/12/22 | 1st | Classification of minerals (Oxide, Fluoride, Sulphide). |
| | 2nd | mineralogy and physical properties of Olivine. |
| | 3rd | mineralogy and physical properties of Quartz. |
| | 4th | mineralogy and physical properties of Feldspar. |
| | 5th | |
| 02/01/23 to 07/01/23 | 1st | mineralogy and physical properties of Pyroxene group of minerals |
| | 2nd | Frost shattering, Fragmentation, Formation of gravel. |
| | 3rd | Latitude & Longitude to positioning system. |
| | 4th | Coriolis effect caused deflection of wind direction. |
| | 5th | |

| WEEK | Class Day | Theory Topics |
|----------------------|-----------|---|
| 09/04/23 to 14/04/23 | 1st | physical properties of quartz |
| | 2nd | physical properties of Feldspar. |
| | 3rd | Doubt Clear Class |
| | 4th | Revise class. |
| | 5th | |
| 16/04/23 to 20/04/23 | 1st | Revise class. |
| | 2nd | |
| | 3rd |   |
| | 4th | |
| | 5th | |
| | 1st | |
| | 2nd | |
| | 3rd | |
| | 4th | |
| | 5th | |