

| Discipline. | Semester. | Name of the Teaching Faculty. |
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| | | Narayan Nath |
| Subject | No. of Days per Week Class allotted | Semester. From Date - 15/02/2023 To Date - 23/05/2023 |
| Misc Machinery | | No. of weeks - 15 |
| Week | Class/Day. | Theory - I |
| 1st. | 1st. | Describe Constructional features, operation, principle and use of Electric Coal Drill |
| | 2nd | Describe Constructional features, operation, Principle and use of Electric Coal Drill |
| | 3rd | State types of Drill rods and drill bits used in electric coal drill |
| | 4th | Describe basic Constructional features of gathering arm loader. |
| 2nd | 1st. | Describe basic Constructional features of Scraper loader. |
| | 2nd | Describe basic Constructional features of Side Discharge loader. |
| | 3rd | Describe basic Constructional features of load and haul loader. |
| | 4th | Describe basic Constructional features and operation principle of jack hammer drill |
| 3rd | 1st. | Describe basic Constructional features and operation principle of air leg rock drill. |
| | 2nd | Describe basic Constructional features and operation principle of road header. |
| | 3rd | Describe basic Constructional features and operation principle of Shearer loader. |
| | 4th | Describe basic Constructional features of Surface miners. |
| 4th | 1st. | Describe basic Constructional features of dragline. |
| | 2nd. | Describe basic Constructional features of Shovel. |
| | 3rd. | Describe basic Constructional features of Shovel. |

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| | 4th | Describe basic Constructional features of Backhoe. | 3rd |
| 5th | 1st. | Describe basic Constructional features of bucket wheel excavator. | 10th |
| | 2nd | Describe basic Constructional features of dumper. | |
| | 3rd | Describe basic Constructional features of dozer. | |
| | 4th | Describe basic Constructional features of scrapers. | 11th |
| 6th | 1st | Describe basic Constructional features of road grader. | |
| | 2nd. | Classify mine pumps. | |
| | 3rd | Describe Constructional features, working and use of room pumps. | |
| | 4th | Describe Constructional features, working and use of room pumps. | 12th |
| 7th | 1st. | Centrifugal and turbine pumps. | |
| | 2nd | Describe Constructional features of Centrifugal pump. | |
| | 3rd. | Describe Constructional features of Centrifugal pump. | |
| | 4th | Describe Constructional features of turbine pumps. | 13th |
| 8th | 1st. | Describe Constructional features of turbine pumps. | |
| | 2nd | Describe Constructional features of turbine pumps. | 14th |
| | 3rd | State principle of Centrifugal and turbine pumps and its applicability. | |
| | 4th | State principle of Centrifugal and turbine pumps and its applicability. | 15th |
| 9th | 1st. | Explain balancing the axial thrust of turbine pumps. | |
| | 2nd | Draw characteristic curves of turbine pumps. | |

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| | 3rd | Draw | 3rd | Draw Characteristic Curve of turbine pump. |
| | | | 4th | Solve numerical problems of Centrifugal pumps. |
| | 10th | | 1st. | Solve numerical problems on Centrifugal pumps. |
| | | | 2nd | Solve numerical problems on turbine pumps. |
| | | | 3rd | Solve numerical problems on turbine pumps. |
| | | | 4th | Describe Constructional Features and working principle and use of auto pump. |
| | 11th | | 1st. | Describe Constructional Features and working principle and use of auto pump. |
| | | | 2nd | Describe Constructional features and working principle of Sinking Pump. |
| | | | 3rd | Describe Constructional features and working principle of Sinking pump. |
| | | | 4th | State procedure of Suspension in shaft. |
| | 12th | | 1st. | State procedure of Suspension in shaft. |
| | | | 2nd | Describe Constructional features of working of bore hole pump. |
| | | | 3rd | Describe Constructional features of working of bore hole pump. |
| | | | 4th | State installation of bore hole pump. |
| | 13th | | 1st. | State installation of bore hole pump. |
| | | | 2nd | State types of pipe and valves used in mines. |
| | | | 3rd | Describe Constructional features of various type of valves. |
| | | | 4th | State and describe different types of pipe joints. |
| | 14th | | 1st. | Describe Support of laying main pipe in shaft. |
| | | | 2nd. | Discuss the pipe line layout. |
| | | | 3rd. | INTERNAL |
| | | | 4th | Previous years questions discussion. |
| | 15th | | 1st. | REVISION / DOUBT CLEARING CLASS |
| | | | 2nd | REVISION / DOUBT CLEARING CLASS |
| | | | 3rd | REVISION / DOUBT CLEARING CLASS. |
| | | | 4th | REVISION / DOUBT CLEARING CLASS. |

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