**-RAJASTHAN ILD SKILL UNIVERSITY (RISU)**

**(A State Government University)**

2nd and 3rd Floor, Rajiv Gandhi Vidya Bhavan

Shiksha Sankul, JLN Marg, Jaipur - 302 017

Website: [www.rajskills.edu.in](http://www.rajskills.edu.in)

E-mail: risujaipur@gmail.com

**SYLLABUS FOR TWO YEAR ADVANCE DIPLOMA IN MINING ENGINEERING**

**MAIN FEATURES OF THE CURRICULUM**

1. Title of the Course : ADVANCE Diploma In Mining Engineering

2. Duration of the Course : TWO Years (FOUR SEMESTERS)

3. Type of the Course : Full Time Institutional

4. Pattern of the Course : Semester System

5. Intake : 30

6. Entry Qualification : Passed 12TH (10+2) SENIOR SECONDARY SCHOOL CERTIFICATE (MATHS AS ONE OF THE

: SUBJECT)

7. Admission Criteria : As per RISU REGULATIONS

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**SYLLABUS FOR TWO YEAR ADVANCE DIPLOMA IN MINING ENGINEERING**

**FIRST YEAR** FIRST SEMESTER

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S No.** | **Subject Code** | **Subject** |  | **Credits**  | **Total****Credits**  | **EoSE Duration)****(hours)** |
| T | P | S | T | P | S |
| 2 |  | Engineering Drawing | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 3 |  | Electrical Technology & Electronics | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 4 |  | Mechanical Engineering | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 5 |  | Civil Engineering | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 6 |  | Elements of Mine Surveying | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 7 |  | Workshop Technology | SC |  | 4 |  | 4 |  | 4 |  |
| 8 |  | Industrial Training | SC |  |  | 2 | 2 |  |  | ½  |
| TOTAL |  |  |  |  | 26  |  |  |  |

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**SYLLABUS FOR TWO YEAR ADVANCE DIPLOMA IN MINING ENGINEERING**

**FIRST YEAR** SECOND SEMESTER

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S No.** | **Subject Code** | **Subject** |  | **Credits**  | **Total****Credits**  | **EoSE Duration)****(hours)** |
| T | P | S | T | P | S |
| 1 |  | Applied Mechanics | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 2 |  | Applied Geology | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 3 |  | Elements of Mining Technology  | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 4 |  | Drilling and Blasting Practices in Mines | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 5 |  | Surface Mining | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 6 |  | Mine Surveying | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 7 |  | CAD Practical | SC |  | 4 |  | 4 |  | 4 |  |
| 8 |  | Industrial Training | SC |  |  | 2 | 2 |  |  | ½  |
| TOTAL |  |  |  |  | 30 |  |  |  |

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**SYLLABUS FOR TWO YEAR ADVANCE DIPLOMA IN MINING ENGINEERING**

**SECOND YEAR** THIRD SEMESTER

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S No.** | **Subject Code** | **Subject** |  | **Credits**  | **Total****Credits**  | **EoSE Duration)****(hours)** |
| T | P | S | T | P | S |
| 1 |  | Underground Coal Mining | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 2 |  | Underground Metal Mining | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 3 |  | Mine Ventilation | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 4 |  | Mining Machinery  | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 5 |  | Rock Mechanics and Strata Control | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 6 |  | Advance Mine Surveying | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 7 |  | Mining Lab (Coal & Metal) | SC |  | 4 |  | 4 |  | 4 |  |
| 8 |  | Industrial Training | SC |  |  | 2 | 2 |  |  | ½  |
| TOTAL |  |  |  |  | 30 |  |  |  |

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**SYLLABUS FOR TWO YEAR ADVANCE DIPLOMA IN MINING ENGINEERING**

**SECOND YEAR** FOURTH SEMESTER

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S No.** | **Subject Code** | **Subject** |  | **Credits**  | **Total****Credits**  | **EoSE Duration)****(hours)** |
| T | P | S | T | P | S |
| 1 |  | Mine Economics  | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 2 |  | Mine Fires Explosion Inundation Rescue & Recovery | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 3 |  | Advance Underground Mining Methods | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 4 |  | Dimensional Stone Mining | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 5 |  | Mine Management Legislation and General Safety | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 6 |  | Elective | SC | 2 | 2 |  | 4 | 3 | 4 |  |
| 7 |  | Project & Presentation | SC |  | 4 |  | 4 |  | 4 |  |
| 8 |  | Industrial Training\* | SC |  |  | 2 | 2 |  |  | ½  |
| TOTAL |  |  |  |  | 30 |  |  |  |

**LIST OF ELECTIVES**

**NOTE: ELECTIVE SUBJECT WILL BE OFFEERED DEPENDING UOPN THE FACILITY AND FACULTY AVAILABLE AT THE COLLEGE**

|  |  |
| --- | --- |
| 1 | Advance Mining Geology  |
| 2 | Mine Environmental Engineering  |
| 3 | Rock Slope Engineering |
| 4 | Tunneling |
| 5 | Entrepreneurship Development  |