



## KAZI NAZRUL UNIVERSITY

## SCHOOL OF MINES &amp; METALLURGY

## DIPLOMA IN MINING ENGINEERING

| Course of Study | Discipline Code | Discipline                    |              | Course Name                                            | Course Type | Course Code   | Course Details | L - T - P | Course Credit | Sem Credit | Internal Marks |             | End Sem Marks |             | Total Marks | Sem Marks |
|-----------------|-----------------|-------------------------------|--------------|--------------------------------------------------------|-------------|---------------|----------------|-----------|---------------|------------|----------------|-------------|---------------|-------------|-------------|-----------|
|                 |                 |                               |              |                                                        |             |               |                |           |               |            | Practical      | Theoretical | Practical     | Theoretical |             |           |
| DIPE            | DIPEMI          | Diploma in Mining Engineering | 1st Semester | Communicative English                                  | GC          | DIPEMING101   | GC-1           | 1-1-0     | 2             | 25         |                | 30          |               | 70          | 100         | 1000      |
|                 |                 |                               |              | Basic Physics                                          | CC          | DIPEMINC101   | CC-1           | 2-0-2     | 3             |            | 30             | 30          | 70            | 70          | 200         |           |
|                 |                 |                               |              | Basic Chemistry                                        | CC          | DIPEMINC102   | CC-2           | 2-0-2     | 3             |            | 20             | 30          | 80            | 70          | 200         |           |
|                 |                 |                               |              | Mathematics                                            | CC          | DIPEMINC103   | CC-3           | 4-1-0     | 5             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Engineering Mechanics                                  | CC          | DIPEMINC104   | CC-4           | 3-1-0     | 4             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Engineering Drawing - I                                | CC          | DIPEMINC105   | CC-5           | 2-0-4     | 4             |            | 20             | 15          | 30            | 35          | 100         |           |
|                 |                 |                               |              | Computer Fundamentals                                  | GC          | DIPEMING102   | GC-2           | 1-0-2     | 2             |            | 20             | 15          | 30            | 35          | 100         |           |
|                 |                 |                               |              | Workshop Practice - I                                  | CCP-1       | DIPEMINCP101  | CCP-1          | 0-0-4     | 2             |            | 50             |             | 50            |             | 100         |           |
|                 |                 |                               | 2nd Semester | Business Economics & Accountancy                       | GC          | DIPEMING 201  | GC-3           | 3-0-0     | 3             | 26         |                | 30          |               | 70          | 100         | 1000      |
|                 |                 |                               |              | Applied Physics                                        | CC          | DIPEMINC 201  | CC-6           | 2-0-2     | 3             |            | 30             | 15          | 70            | 35          | 150         |           |
|                 |                 |                               |              | Applied Chemistry                                      | CC          | DIPEMINC 202  | CC-7           | 2-0-2     | 3             |            | 20             | 15          | 80            | 35          | 150         |           |
|                 |                 |                               |              | Engineering Mathematics                                | CC          | DIPEMINC 203  | CC-8           | 3-1-0     | 4             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Strength of Materials                                  | CC          | DIPEMINC 204  | CC-9           | 2-1-0     | 3             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Electrical Technology                                  | GC          | DIPEMING 202  | GC-4           | 2-1-0     | 3             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Engineering Drawing - II                               | CC          | DIPEMINC 205  | CC-10          | 1-0-4     | 3             |            | 30             | 15          | 70            | 35          | 150         |           |
|                 |                 |                               |              | Workshop Practice - II                                 | CCP         | DIPEMINCP 201 | CCP-2          | 0-0-4     | 2             |            | 50             |             | 50            |             | 100         |           |
|                 |                 |                               |              | Developmental of Life Skill                            | CCP         | DIPEMINCP 202 | CCP-3          | 1-0-2     | 2             |            | 25             |             | 25            |             | 50          |           |
|                 |                 |                               | 3rd Semester | Introduction to Mining                                 | CC          | DIPEMINC 301  | CC-11          | 4-1-0     | 5             | 23         |                | 30          |               | 70          | 100         | 800       |
|                 |                 |                               |              | Explosives, Blasting Practices & Gas Detection         | CC          | DIPEMINC 302  | CC-12          | 4-1-0     | 5             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Underground Coal Mining Methods & Fuel Technology      | CC          | DIPEMINC 303  | CC-13          | 4-0-0     | 4             |            |                | 30          |               | 70          | 100         |           |
|                 |                 |                               |              | Mining Gas, Boring & Blasting Lab                      | CC          | DIPEMINC 304  | CC-14          | 0-0-4     | 2             |            |                |             | 100           |             | 100         |           |
|                 |                 |                               |              | Computer Aided Design & Drafting Lab                   | GC          | DIPEMING 301  | GC-5           | 0-0-2     | 1             |            |                |             | 50            |             | 50          |           |
|                 |                 |                               |              | Professional Practices-I                               | CCP         | DIPEMINCP 301 | CCP-4          | 0-0-2     | 1             |            |                |             | 50            |             | 50          |           |
|                 |                 |                               |              | Industrial Training                                    | CCP         | DIPEMINCP 302 | CCP-5          | 0-0-10    | 5             |            |                |             | 300           |             | 300         |           |
|                 |                 |                               | 4th Semester | Special Underground Methods, Rock Mechanics & Supports | CC          | DIPEMINC 401  | CC-15          | 4-0-0     | 4             | 26         | 0              | 30          | 0             | 70          | 100         | 800       |
|                 |                 |                               |              | Surface Mining                                         | CC          | DIPEMINC 402  | CC-16          | 4-0-0     | 4             |            | 0              | 30          | 0             | 70          | 100         |           |
|                 |                 |                               |              | Underground Metalliferous Mining & Tunneling           | CC          | DIPEMINC 403  | CC-17          | 3-1-0     | 4             |            | 0              | 30          | 0             | 70          | 100         |           |
|                 |                 |                               |              | Mining Hazards                                         | CC          | DIPEMINC 404  | CC-18          | 5-0-0     | 5             |            | 0              | 30          | 0             | 70          | 100         |           |
|                 |                 |                               |              | Mining Geology                                         | GC          | DIPEMING 401  | GC-6           | 2-2-2     | 5             |            | 40             | 30          | 60            | 70          | 200         |           |
|                 |                 |                               |              | Mine Safety Lab                                        | CCP         | DIPEMINCP 401 | CCP-6          | 0-0-4     | 2             |            | 40             | 0           | 60            | 0           | 100         |           |
|                 |                 |                               |              | Mine Methods & Support Lab                             | CCP         | DIPEMINCP 402 | CCP-7          | 0-0-4     | 2             |            | 40             | 0           | 60            | 0           | 100         |           |

|  |  |  |              |                                                    |     |               |        |       |   |    |    |    |     |    |     |     |  |  |     |
|--|--|--|--------------|----------------------------------------------------|-----|---------------|--------|-------|---|----|----|----|-----|----|-----|-----|--|--|-----|
|  |  |  | 5th Semester | Mine Management, Legislation & General Safety - I  | CC  | DIPEMINC 501  | CC-19  | 4-0-0 | 4 | 25 | 0  | 30 | 0   | 70 | 100 | 900 |  |  |     |
|  |  |  |              | Mine Ventilation - I                               | CC  | DIPEMINC 502  | CC-20  | 3-1-2 | 5 |    | 20 | 15 | 30  | 35 | 100 |     |  |  |     |
|  |  |  |              | Mine Surveying - I                                 | CC  | DIPEMINC 503  | CC-21  | 4-1-4 | 7 |    | 40 | 30 | 60  | 70 | 200 |     |  |  |     |
|  |  |  |              | Electrical Engineering & Mechanical Engineering    | GC  | DIPEMING 501  | GC-7   | 3-0-4 | 5 |    | 40 | 30 | 60  | 70 | 200 |     |  |  |     |
|  |  |  |              | Industrial Training                                | CCP | DIPEMINCP 501 | CCP-8  | 0-0-8 | 4 |    |    |    | 300 |    | 300 |     |  |  |     |
|  |  |  | 6th Semester | Mine Management, Legislation & General Safety - II | CC  | DIPEMINC 601  | CC-22  | 4-0-0 | 4 | 24 | 0  | 30 | 0   | 70 | 100 | 900 |  |  |     |
|  |  |  |              | Mining Machinery - I                               | CC  | DIPEMINC 602  | CC-23  | 3-0-2 | 4 |    | 20 | 30 | 30  | 70 | 150 |     |  |  |     |
|  |  |  |              | Mining Machinery - II                              | CC  | DIPEMINC 603  | CC-24  | 3-1-2 | 5 |    | 20 | 30 | 30  | 70 | 150 |     |  |  |     |
|  |  |  |              | Mine Ventilation - II                              | CC  | DIPEMINC 604  | CC-25  | 3-0-2 | 4 |    | 20 | 15 | 30  | 35 | 100 |     |  |  |     |
|  |  |  |              | Mine Surveying - II                                | CC  | DIPEMINC 605  | CC-26  | 3-0-2 | 4 |    | 40 | 40 | 60  | 60 | 200 |     |  |  |     |
|  |  |  |              | Project Work & Seminar                             | CCP | DIPEMINCP 601 | CCP-9  | 0-0-4 | 2 |    | 0  | 0  | 100 | 0  | 100 |     |  |  |     |
|  |  |  |              | Grand Viva                                         | CCP | DIPEMINCP 602 | CCP-10 | 0-0-2 | 1 |    | 0  | 0  | 100 | 0  | 100 |     |  |  |     |
|  |  |  | TOTAL CREDIT |                                                    | 149 |               |        |       |   |    |    |    |     |    |     |     |  |  | 540 |