

**BOARD OF TECHNICAL EDUCATION, GOA STATE
PROGRAMME STRUCTURE-16 MINING ENGG.**

| Sr. No. | E/C | SUBJ. CODE | SUBJECT NAME | SUBJECT HEADS | | | EXAMINATION SCHEME | | | | |
|---------------------|-----|------------|---------------------------------|---------------|----|----|--------------------|----------|--------|--------|-------|
| | | | | TH | PR | TW | MAX TH | MAX TEST | MAX PR | MAX TW | TOTAL |
| SEMESTER I | | | | | | | | | | | |
| 1 | C | GN101 | COMM SKILLS | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| 2 | C | GN102 | ENGG MATHS - I | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 3 | C | GN103 | APPLIED PHYSICS - I | 1 | 0 | 1 | 75 | 25 | 0 | 50 | 150 |
| 4 | C | GN104 | APPLIED CHEMISTRY | 1 | 0 | 1 | 75 | 25 | 0 | 50 | 150 |
| 5 | C | GN204 | ENGG. DRAWING | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| SEMESTER II | | | | | | | | | | | |
| 1 | C | GN105 | COMP. FUND. & APP. | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| 2 | C | GN106 | BASIC ENGG SKILLS | 0 | 1 | 1 | 0 | 0 | 50 | 100 | 150 |
| 3 | C | GN201 | ENGG MATHS - II | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 4 | C | GN202 | APPLIED PHYSICS - II | 1 | 0 | 1 | 75 | 25 | 0 | 50 | 150 |
| 5 | C | GN203 | ENVIRONMENTAL STUDIES | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 6 | C | GN205 | ENGG. MATERIALS | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| SEMESTER III | | | | | | | | | | | |
| 1 | C | CE301 | SURVEYING - I | 1 | 1 | 1 | 75 | 25 | 25 | 50 | 175 |
| 2 | C | CS305 | COMPUTER AIDED DRAFTING | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| 3 | C | CS307 | ELEMENTS OF MECHANICAL ENGG. | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 4 | C | MN301 | MINE DEVELOPMENT | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 5 | C | MN302 | MINING TECHNOLOGY | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 6 | C | MN303 | MINING GEOLOGY - I | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 7 | C | MN304 | ROCK MECHANICS | 1 | 1 | 1 | 75 | 25 | 25 | 25 | 150 |
| SEMESTER IV | | | | | | | | | | | |
| 1 | C | CE401 | SURVEYING II | 1 | 1 | 1 | 75 | 25 | 25 | 50 | 175 |
| 2 | C | CS302 | ELEM. OF ELEC. & ELECT. ENGG. | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 3 | C | CS501 | ENTREPRENEURSHIP DEVELOPMENT | 0 | 0 | 1 | 0 | 0 | 0 | 50 | 50 |
| 4 | C | MN401 | SURFACE MINING | 1 | 1 | 1 | 75 | 25 | 25 | 25 | 150 |
| 5 | C | MN402 | U/G MINING METHODS | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 6 | C | MN403 | U/G MINING MACHINERY | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 7 | C | MN404 | MINING GEOLOGY II | 1 | 1 | 1 | 75 | 25 | 25 | 25 | 150 |
| SEMESTER V | | | | | | | | | | | |
| 1 | C | CS602 | BUSINESS COMMUNICATION | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| 2 | C | IT501 | INDUSTRIAL TRAINING | 0 | 1 | 1 | 0 | 0 | 30 | 70 | GRADE |
| 3 | C | MN501 | O/C MINING MACHINERY | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 4 | C | MN502 | MINE SAFETY & LEG | 1 | 1 | 0 | 75 | 25 | 25 | 0 | 125 |
| 5 | C | MN503 | MINE VENTILATION | 1 | 1 | 1 | 75 | 25 | 25 | 25 | 150 |
| SEMESTER VI | | | | | | | | | | | |
| 1 | C | MN601 | MINERAL PROCESSING | 1 | 1 | 1 | 75 | 25 | 25 | 25 | 150 |
| 2 | C | MN602 | MINE MANAGEMENT & ECONOMICS | 1 | 1 | 0 | 75 | 25 | 25 | 0 | 125 |
| 3 | C | MN603 | COMPUTE IN MINING & ALLIED ENGG | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| 4 | C | MN604 | PROJECT | 0 | 1 | 1 | 0 | 0 | 50 | 50 | 100 |
| 5 | E1 | MN611 | MINE SURVEYING | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 6 | E1 | MN612 | EXPLORATION ENGINEERING | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 7 | E1 | MN613 | OCEAN MINING | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 8 | E1 | MN614 | MINE PLANNING & DESIGN | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |

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| 9 | E1 | MN615 | MINE SYSTEMS ENGG. | 1 | 0 | 0 | 75 | 25 | 0 | 0 | 100 |
| 10 | E2 | MN621 | MINE ENVIR POLLUTION & CONTROL | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 11 | E2 | MN622 | ADVANCED MINING | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 12 | E2 | MN623 | MINE DISASTS RESCUE & RECOVERY | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| 13 | E2 | MN624 | COMP. APPLICATIONS IN MINING | 1 | 0 | 1 | 75 | 25 | 0 | 25 | 125 |
| ANY ONE OF E1 | | | | | | | | | | | |
| ANY ONE OF E2 | | | | | | | | | | | |