

# Bachelor of Vocation (B.Voc.) in Industrial Safety

## Model Syllabus

This is a model university-style syllabus structure for a 3-year (6 Semester) Bachelor of Vocation (Industrial Safety) programme, including subject codes, credits, and marks distribution.

### Semester I

| Code   | Subject                           | Credits   | Marks      |
|--------|-----------------------------------|-----------|------------|
| IS101  | Fundamentals of Industrial Safety | 4         | 100        |
| IS102  | Industrial Environment & Hygiene  | 4         | 100        |
| IS103  | Communication Skills              | 3         | 100        |
| IS104  | Basic Engineering Sciences        | 4         | 100        |
| IS105P | Safety Lab & Field Practice       | 5         | 100        |
|        | <b>Total</b>                      | <b>20</b> | <b>500</b> |

### Semester II

| Code   | Subject                      | Credits   | Marks      |
|--------|------------------------------|-----------|------------|
| IS201  | Occupational Health & Safety | 4         | 100        |
| IS202  | Fire Safety Engineering      | 4         | 100        |
| IS203  | Industrial Psychology        | 3         | 100        |
| IS204  | Environmental Management     | 4         | 100        |
| IS205P | Industrial Training-I        | 5         | 100        |
|        | <b>Total</b>                 | <b>20</b> | <b>500</b> |

### Semester III

| Code   | Subject                                 | Credits   | Marks      |
|--------|-----------------------------------------|-----------|------------|
| IS301  | Hazard Identification & Risk Assessment | 4         | 100        |
| IS302  | Construction Safety                     | 4         | 100        |
| IS303  | Electrical Safety                       | 4         | 100        |
| IS304  | Safety Legislation                      | 3         | 100        |
| IS305P | Safety Audit Practice                   | 5         | 100        |
|        | <b>Total</b>                            | <b>20</b> | <b>500</b> |

### Semester IV

| Code | Subject | Credits | Marks |
|------|---------|---------|-------|
|------|---------|---------|-------|

|        |                         |           |            |
|--------|-------------------------|-----------|------------|
| IS401  | Chemical Process Safety | 4         | 100        |
| IS402  | Machine Safety          | 4         | 100        |
| IS403  | Disaster Management     | 4         | 100        |
| IS404  | Accident Investigation  | 3         | 100        |
| IS405P | Industrial Training-II  | 5         | 100        |
|        | <b>Total</b>            | <b>20</b> | <b>500</b> |

## Semester V

| Code   | Subject                    | Credits   | Marks      |
|--------|----------------------------|-----------|------------|
| IS501  | Advanced Industrial Safety | 4         | 100        |
| IS502  | Safety Management Systems  | 4         | 100        |
| IS503  | Ergonomics                 | 4         | 100        |
| IS504  | Project Management         | 3         | 100        |
| IS505P | Mini Project               | 5         | 100        |
|        | <b>Total</b>               | <b>20</b> | <b>500</b> |

## Semester VI

| Code   | Subject                               | Credits   | Marks      |
|--------|---------------------------------------|-----------|------------|
| IS601  | Industrial Risk Control               | 4         | 100        |
| IS602  | Emergency Preparedness & Response     | 4         | 100        |
| IS603  | Quality, Health, Safety & Environment | 4         | 100        |
| IS604  | Entrepreneurship Development          | 3         | 100        |
| IS605P | Major Project & Viva Voce             | 5         | 100        |
|        | <b>Total</b>                          | <b>20</b> | <b>500</b> |

## Marks Distribution Pattern

| Component                | Marks      |
|--------------------------|------------|
| Internal Assessment      | 30         |
| End Semester Examination | 70         |
| <b>Total</b>             | <b>100</b> |