



**FEDERAL BOARD OF INTERMEDIATE  
AND SECONDARY EDUCATION  
H-8/4, ISLAMABAD**



**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING  
(CHEMICAL TECHNOLOGY-1st YEAR)**

| <b>S.No</b> | <b>Subject Name</b>           | <b>Theory</b> | <b>Practical</b> | <b>Total Marks</b> |
|-------------|-------------------------------|---------------|------------------|--------------------|
| 1           | Islamiyat / Pakistan Studies  | 50            | --               | 50                 |
| 2           | English                       | 100           | --               | 100                |
| 3           | Applied Mathematics-I A       | 75            | --               | 75                 |
| 4           | Applied Mathematics-I B       | 75            | --               | 75                 |
| 5           | Applied Physics               | 100           | 50               | 150                |
| 7           | Computer Applications         | 50            | 50               | 100                |
| 9           | Basic Chemical Engg:          | 100           | 50               | 150                |
| 11          | General Chemistry             | 100           | 100              | 200                |
| 13          | Basic & Engg: Drawing & CAD-I | 50            | 100              | 150                |
| 15          | Mutal e Quran Hakim           | 50            | --               | 50                 |
|             | <b>Total:</b>                 | <b>850</b>    | <b>350</b>       | <b>1200</b>        |



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**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING  
(CHEMICAL TECHNOLOGY-2nd YEAR)**

| <b>S.No</b> | <b>Subject Name</b>                          | <b>Theory</b> | <b>Practical</b> | <b>Total Marks</b> |
|-------------|--|---------------|------------------|--------------------|
| 1.          | Islamiyat / Pakistan Studies                 | 50            | --               | 50                 |
| 2.          | Applied Mathematics-II A                     | 75            | --               | 75                 |
| 3.          | Applied Mathematics-II B                     | 75            | --               | 75                 |
| 4.          | Business Communication                       | 50            | --               | 50                 |
| 5.          | Business Management and Industrial Economics | 50            | --               | 50                 |
| 6.          | Safety Practice & Procedure                  | 50            | --               | 50                 |
| 7.          | Organic Chemistry                            | 100           | 100              | 200                |
| 8.          | Industrial Chemical Process-I A              | 75            | --               | 75                 |
| 9.          | Industrial Chemical Process-I B              | 75            | --               | 75                 |
| 10.         | Industrial Chemical Process-I                | --            | 50               | 50                 |
| 11.         | Quantitative Analysis                        | 50            | 100              | 150                |
| 12.         | Physical Chemistry                           | 100           | 50               | 150                |
| 13.         | Chemistry Engineering-I                      | 100           | 50               | 150                |
|             | <b>Total:</b>                                | <b>850</b>    | <b>350</b>       | <b>1200</b>        |



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H-8/4, ISLAMABAD**



**SCHEME OF STUDIES OF DIPLOMA OF ASSOCIATE ENGINEERING  
(CHEMICAL TECHNOLOGY-3rd YEAR)**

| <b>S.No</b> | <b>Subject Name</b>               | <b>Theory</b> | <b>Practical</b> | <b>Total Marks</b> |
|-------------|-----------------------------------|---------------|------------------|--------------------|
| 1.          | Islamiyat / Pakistan Studies      | 50            | --               | 50                 |
| 2.          | Industrial Manag: Human Relation  | 50            | --               | 50                 |
| 3.          | Instrumental Methods of Analysis  | 100           | 100              | 200                |
| 4.          | Industrial Stiochiometry          | 100           | --               | 100                |
| 5.          | Industrial Chemical Process-II A  | 75            | --               | 75                 |
| 6.          | Industrial Chemical Process-II B  | 75            | --               | 75                 |
| 7.          | Industrial Chemical Process       | --            | 50               | 50                 |
| 8.          | Chemical Engineering-II A         | 75            | --               | 75                 |
| 9.          | Chemical Engineering-II B         | 75            | --               | 75                 |
| 10.         | Chemical Engineering-II           | --            | 100              | 100                |
| 11.         | Process Instrumentation & Control | 100           | --               | 100                |
| 12.         | Chemical Technology Practice      | --            | 100              | 100                |
| 13.         | Energy Conservation/Pollution     | 50            | 50               | 100                |
|             | <b>Total</b>                      | <b>750</b>    | <b>400</b>       | <b>1150</b>        |