

## Associate Degree in Computer Science

| Course Title   | Course Code         | Course Type       | Credit Hour                  |
|--|---------------------|-------------------|------------------------------|
| <b>Semester 1</b>  |                     |                   |                              |
| Functional English   | GENG-101            | General           | <u>3</u>                     |
| Islamic Studies / Ethics (for Non-Muslims)                 | GISL-101 / GETH-101 | General           | <u>2</u>                     |
| Tarjuma-e-Quran  | HQ-001              | Compulsory        | <u>0</u>                     |
| Digital Logic Design                                       | CC-110              | Major             | <u>2</u>                     |
| Digital Logic Design Lab                                   | CC-110L             | Major             | <u>1</u>                     |
| Math Deficiency – I  | MD-001              | General           | <u>3</u>                     |
| Discrete Structures  | GE-167              | General           | <u>3</u>                     |
| Programming Fundamentals                                   | CC-112              | Major             | <u>3</u>                     |
| Programming Fundamentals Lab                               | CC-112L             | Major             | <u>1</u>                     |
| Applications of Information and Communication Technologies | GE-160              | General           | <u>3</u>                     |
|  |                     |                   | <b>Total Credit Hours 21</b> |
| <b>Semester 2</b>  |                     |                   |                              |
| Ideology and Constitution of Pakistan                      | GICP-101            | General           | <u>2</u>                     |
| Object Oriented Programming Lab                            | CC-211L             | Major             | <u>1</u>                     |
| Object Oriented Programming                                | CC-211              | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-002              | Compulsory        | <u>1</u>                     |
| Probability and Statistics                                 | MS-251              | General           | <u>3</u>                     |
| Software Engineering                                       | CC-212              | Major             | <u>3</u>                     |
| Expository Writing   | GE-191              | General           | <u>3</u>                     |
| Math Deficiency – II                                       | MD-002              | General           | <u>3</u>                     |
| Database Systems   | CC-215              | Major             | <u>3</u>                     |
| Database Systems Lab                                       | CC-215L             | Major             | <u>1</u>                     |
|  |                     |                   | <b>Total Credit Hours 23</b> |
| <b>Semester 3</b>  |                     |                   |                              |
| Applications of Information and Communication Technologies | GICT-201            | General           | <u>3</u>                     |
| Expository Writing   | GENG-201            | General           | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-003              | Compulsory        | <u>0</u>                     |
|  |                     |                   | <b>Total Credit Hours 15</b> |
| <b>Semester 4</b>  |                     |                   |                              |
| <del>GEN(SS)</del>   |                     | General           | <u>3</u>                     |
| Quantitative Reasoning (II)                                | GQR-202             | General           | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-004              | Compulsory        | <u>1</u>                     |
|  |                     |                   | <b>Total Credit Hours 16</b> |
| <b>Semester 5</b>  |                     |                   |                              |
| Interdisciplinary  |                     | Interdisciplinary | <u>3</u>                     |
| Interdisciplinary  |                     | Interdisciplinary | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-005              | Compulsory        | <u>0</u>                     |
|  |                     |                   | <b>Total Credit Hours 15</b> |
| <b>Semester 6</b>  |                     |                   |                              |
| Interdisciplinary  |                     | Interdisciplinary | <u>3</u>                     |
| Interdisciplinary  |                     | Interdisciplinary | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-006              | Compulsory        | <u>1</u>                     |
|  |                     |                   | <b>Total Credit Hours 16</b> |
| <b>Semester 7</b>  |                     |                   |                              |
| Fieldwork / Intership                                      |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-007              | Compulsory        | <u>0</u>                     |
|  |                     |                   | <b>Total Credit Hours 15</b> |
| <b>Semester 8</b>  |                     |                   |                              |
| Capstone Project   |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| major  |                     | Major             | <u>3</u>                     |
| Tarjuma-e-Quran  | HQ-008              | Compulsory        | <u>1</u>                     |
|  |                     |                   | <b>Total Credit Hours 16</b> |

Signature