

| BS Artificial Intelligence |                                      |  |              |          |
|----------------------------|--------------------------------------|--|--------------|----------|
| Semester 1                 | Semester: Spring 2026                |  |              |          |
|                            | Course Code                          | Course Title                                       | Credit Hours | Sections |
|                            | CP103                                | Introduction to Computing                          | 3            | 3        |
|                            | CP101                                | Introduction to Computing - Lab                    | 1            | 3        |
|                            | GE102                                | Basic Electronics                                  | 2            | 3        |
|                            | GE101                                | Basic Electronics - Lab                            | 1            | 3        |
|                            | ENG110                               | Functional English                                 | 3            | 3        |
|                            | PAK102                               | Ideology and Constitution of Pakistan              | 2            | 3        |
|                            | AL143                                | Discrete Structures                                | 3            | 3        |
|                            | Only for Medical background students |  |              |          |
|                            | MAT103                               | Pre-Calculus                                       | 3            | 1        |
| Semester 2                 |                                      |  |              |          |
|                            | Course Code                          | Course Title                                       | Credit Hours | Sections |
|                            | CP113                                | Programming Fundamentals                           | 3            | 3        |
|                            | CP111                                | Programming Fundamentals - Lab                     | 1            | 3        |
|                            | AR102                                | Digital Logic Design                               | 2            | 3        |
|                            | AR101                                | Digital Logic Design - Lab                         | 1            | 3        |
|                            | MAT113                               | Calculus and Analytic Geometry                     | 3            | 3        |
|                            | ENG211                               | Expository Writing                                 | 3            | 3        |
|                            | CCE201                               | Civics and Community Engagement                    | 2            | 3        |
|                            | Only for Medical background students |  |              |          |
|                            | MAT123                               | Elementary Algebra (For Pre-Medical Students Only) | 3            | 1        |
|                            |                                      |  |              |          |
|                            | Course Code                          | Course Title                                       | Credit Hours | Sections |
|                            | CP223                                | Object Oriented Programming                        | 3            | 2        |

|            |             |   |              |          |
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| Semester 3 | CP221       | Object Oriented Programming - Lab               | 1            | 2        |
|            | AR223       | Computer Organization & Assembly Language       | 3            | 2        |
|            | AR221       | Computer Organization & Assembly Language - Lab | 1            | 2        |
|            | MAT253      | Probability & Statistics                        | 3            | 2        |
|            | SEP203      | Professional Practices                          | 3            | 2        |
|            | MAT243      | Multivariable Calculus                          | 2            | 2        |
|            | ENT102      | Entrepreneurship                                | 1            | 2        |
| Semester 4 |             |   |              |          |
|            | Course Code | Course Title                                    | Credit Hours | Sections |
|            | CP233       | Data Structures                                 | 3            | 2        |
|            | CP231       | Data Structures - Lab                           | 1            | 2        |
|            | DB203       | Database Systems                                | 3            | 2        |
|            | DB201       | Database Systems - Lab                          | 1            | 2        |
|            | SS102       | Fundamentals of Psychology                      | 3            | 2        |
|            | AL312       | Artificial Intelligence                         | 2            | 2        |
|            | AL311       | Artificial Intelligence - Lab                   | 1            | 2        |
|            | MAT233      | Linear Algebra                                  | 3            |          |
|            | ISL201      | Islamic Studies                                 | 2            | 2        |
| Semester 5 |             |   |              |          |
|            | Course Code | Course Title                                    | Credit Hours | Sections |
|            | Not Offered |   |              |          |

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| Semester 6 | Sections:   |  |              |          |
|            | Course Code | Course Title                           | Credit Hours | Sections |
|            | AIDC3043    | Knowledge Representation and Reasoning | 3            | 2        |
|            | AICS3042    | Parallel and Distributed Computing     | 2            | 2        |
|            | AICS3041    | Parallel and Distributed Computing-Lab | 1            | 2        |
|            | AICC3073    | Computer Networks                      | 3            | 2        |
|            | AICC3071    | Computer Networks-Lab                  | 1            | 2        |
|            | AIDE4333    | Big Data Analytics                     | 3            | 2        |
|            | AIDC3052    | Computer Vision                        | 2            | 2        |
|            | AIDC3051    | Computer Vision-Lab                    | 1            | 2        |
| Semester 7 |             |  |              |          |
|            | Course Code | Course Title                           | Credit Hours | Sections |
|            | Not Offered |  |              |          |
| Semester 7 | Sections:   |  |              |          |
|            | Course Code | Course Title                           | Credit Hours | Sections |
|            | AIGE4083    | Professional Practices                 | 3            | 1        |
|            | AIDE4303    | Generative AI                          | 3            | 1        |
|            | AIUE3873    | Speak Well                             | 3            | 1        |

|  |          |                           |   |   |
|--|----------|---------------------------|---|---|
|  | AIUE3013 | Fundamentals of Marketing | 3 | 1 |
|  | AICC4193 | Final Year Project - II   | 3 | 1 |