

Faculty of Information Technology

Semester: Spring 2021

**Program: BS Software Engineering**

| <u>S #</u> | <u>Course Code</u>  | <u>Course Title</u>                                 | <u>Sections</u> | <u>Semester</u> |
|------------|---|---|-----------------|-----------------|
| 1          | SECP1013  | Introduction to Computing                           | 5               | 1               |
| 2          | SECP1011  | Introduction to Computing Lab                       | 5               | 1               |
| 3          | SEHU1833  | English Composition & Comprehension                 | 5               | 1               |
| 4          | SEHU1823  | Islamic and Religious Studies                       | 5               | 1               |
| 5          | SESS1723  | Basic Electronics                                   | 5               | 1               |
| 6          | SEHU1813  | Pakistan Studies                                    | 5               | 1               |
| 7          | SECP1023  | Programming Fundamentals                            | 11              | 2               |
| 8          | SECP1021  | Programming Fundamentals Lab                        | 11              | 2               |
| 9          | SEHU1863  | Communication & Presentation Skills                 | 11              | 2               |
| 10         | SEAD1413  | Discrete Structures                                 | 11              | 2               |
| 11         | SESE1113  | Software Engineering                                | 11              | 2               |
| 12         | SESS1713  | Calculus and Analytical Geometry                    | 11              | 2               |
| 13         | SESS1783  | Elementary Algebra (*Only for Pre-Medical students) | 1               | 2               |
| 14         | SECP2033  | Object Oriented Programming (OOP-SE-T) Theory       | 3               | 3               |
| 15         | SECP2031  | Object Oriented Programming (OOP-SE-L) - Lab        | 3               | 3               |
| 16         | SESD2213  | Software Requirement Engineering (SRE-SE)           | 3               | 3               |
| 17         | SESE2123  | Human Computer Interaction(HCI-SE)                  | 3               | 3               |
| 18         | SESS2743  | Linear Algebra(LA-SE)                               | 3               | 3               |
|            | <b>Uni - Elective Select any 1 course from the following:</b> |   |                 |                 |

|   |          |   |   |   |
|---|----------|---|---|---|
| 19  | SEGE1913 | Introduction to Business (ITOB-SE)<br>– (O1,O2)                               | 2 | 3 |
| 20  | SEGE3963 | Fundamental of Marketing (FOM-<br>SE) – (O3)                                  | 1 | 3 |
| 21  | SECP2043 | Data Structure & Algorithms (DSA-<br>SE-T) – Theory                           | 4 | 4 |
| 22  | SECP2041 | Data Structure & Algorithms (DSA-<br>SE-L) – Lab                              | 4 | 4 |
| 23  | SESD2222 | Software Design & Architecture<br>(SDA-SE-T) - Theory                         | 4 | 4 |
| 24  | SESD2221 | Software Design & Architecture<br>(SDA-SE-L) – Lab-                           | 4 | 4 |
| 25  | SEST2613 | Business Process Engineering<br>(BPE-SE) (SE Supporting - I)                  | 4 | 4 |
| 26  | SEHU2873 | Technical and Business Writing<br>(Eng-III-SE)                                | 4 | 4 |
| 27  | SESS2733 | Probability and Statistics (PROB-<br>SE)                                      | 4 | 4 |
| 28  | SENS3513 | Operating Systems (OS-SE-T)<br>Theory   | 1 | 5 |
| 29  | SENS3511 | Operating Systems (OS-SE-L) Lab   | 1 | 5 |
| 30  | SEAD3423 | Introduction to Database Systems<br>(DB-SE-T) Theory                          | 1 | 5 |
| 31  | SEAD3421 | Introduction to Database Systems<br>(DB-SE-L) Lab                             | 1 | 5 |
| 32  | SESD3233 | Web Engineering (WEB-E-SE) –  | 1 | 5 |
| 33  | SESE3133 | Formal Methods in Software<br>Engineering (FM-SE) – (SE<br>Supporting - II) – | 1 | 5 |
| <b>Uni - Elective Select any 1 course from the<br/>following:</b> |          |   |   |   |
| 34  | SEGE2933 | Technology Entrepreneurship (T-<br>ENT-SE) –                                  | 1 | 5 |
| 35  | SESM3313 | Software Quality Engineering<br>(SQE-SE)                                      | 1 | 6 |

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| 36 | SENS3523 | Computer Comm. and Networks (CCN-SE-T) Theory             | 1 | 6 |
| 37 | SENS3521 | Computer Comm. and Networks (CCN-SE-L) Lab                | 1 | 6 |
| 38 | SESD3242 | Software Construction and Development (SCD-SE-T) –Theory- | 1 | 6 |
| 39 | SESD3241 | Software Construction and Development (SCD-SE-L) - Lab-   | 1 | 6 |
| 40 | SECP3053 | Mobile Application Development (MAD-SE) (SE Elective – I) | 1 | 6 |
| 41 | SESS3763 | Operations Research (OR-SE) (SE Supporting – III)         | 1 | 6 |