

Course Offering  
Semester: Spring 2024  
**Program:BS Software Engineering**

| S.# | Code     | Course Title                          | Status        | Section | Hidden Sec. | Pre-Req. | Co-Req. | Semester | Remarks                   |
|-----|----------|---------------------------------------|---------------|---------|-------------|----------|---------|----------|---------------------------|
| 1.  | SE1133   | Introduction to Programming           | Core          | 2       | 0           | Nil      | SE1131  | 1        | Click here to enter text. |
| 2.  | SE1131   | Introduction to Programming Lab       | Core          | 3       | 0           | Nil      | SE1133  | 1        | Click here to enter text. |
| 3.  | SEG1012  | Ideology and Constitution of Pakistan | G. Edu        | 2       | 0           | Nil      | Nil     | 1        | Click here to enter text. |
| 4.  | MTSE1013 | Calculus and Analytical Geometry      | Supp. Science | 2       | 0           | Nil      | Nil     | 1        | Click here to enter text. |
| 5.  | PHSE1013 | Applied Physics                       | Supp. Science | 2       | 0           | Nil      | Nil     | 1        |                           |
| 6.  | SEG1113  | Functional English                    | G. Edu        | 2       | 0           | Nil      | Nil     | 1        | Click here to enter text. |
| 7.  | HMSE1010 | Taleem Ul Quran                       | G. Edu        | 4       | 0           | Nil      | Nil     | 2        | Click here to enter text. |
| 8.  | SE1143   | Object Oriented Programming           | Core          | 4       | 0           | SE1133   | SE1141  | 2        | Click here to enter text. |
| 9.  | SE1141   | Object Oriented Programming Lab       | Core          | 5       | 0           | SE1131   | SE1143  | 2        | Click here to enter text. |
| 10. | SEG1022  | Islamic Studies/Ethics                | G. Edu        | 4       | 0           | Nil      | Nil     | 2        | Click here to enter text. |
| 11. | SEG1123  | Expository Writing                    | G. Edu        | 4       | 0           | HMSE1013 | Nil     | 2        | Click here to enter text. |
| 12. | HMSE2063 | Introduction to Sociology             | G. Edu        | 4       | 0           | Nil      | Nil     | 2        | Click here to enter text. |

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| 13. | SE2053   | Discrete Structures                  | Core          | 4       | 0           | Nil      | Nil     | 2        | Click here to enter text.                                       |
| 14. | MTSE1033 | Linear Algebra                       | Supp. Science | 4       | 0           | MTSE1013 | Nil     | 2        | Click here to enter text.                                       |
| 15. | MTCS1103 | Basic Mathematics-II                 | Supp. Science | 1       | 0           | MTCS1003 | Nil     | 2        | Shared with CS Deptt.(Only for pre-Medical Background Students) |
| 16. | SE2143   | Data Structures                      | Core          | 2       | 0           | SE1143   | SE2141  | 3        | Click here to enter text.                                       |
| 17. | SE2141   | Data Structures Lab                  | Core          | 3       | 0           | SE1141   | SE2143  | 3        | Click here to enter text.                                       |
| 18. | SE2313   | Introduction to Database Systems     | Core          | 2       | 0           | SE1133   | SE2311  | 3        | Click here to enter text.                                       |
| 19. | SE2311   | Introduction to Database Systems Lab | Core          | 3       | 0           | SE1131   | SE2313  | 3        | Click here to enter text.                                       |
| 20. | HMSE2243 | English Literature I                 | G. Edu        | 2       | 0           | Nil      | Nil     | 3        | Click here to enter text.                                       |
| 21. | HMSE2033 | Technical Report Writing             | G. Edu        | 2       | 0           | HMSE1013 | Nil     | 3        | Click here to enter text.                                       |
| 22. | MTSE3063 | Probability & Statistics             | Supp. Science | 2       | 0           | MTSE1013 | Nil     | 3        | Click here to enter text.                                       |
| 23. | SE2223   | Software Engineering-I               | Core          | 4       | 0           | SE1143   | Nil     | 4        | Click here to enter text.                                       |
| 24. | SE3263   | Software Requirement Engineering     | Core          | 4       | 0           | Nil      | Nil     | 4        | Click here to enter text.                                       |
| 25. | SE3773   | Computer Comm. and Networks          | Core          | 4       | 0           | SE1133   | SE3771  | 4        | Click here to enter text.                                       |
| 26. | SE3771   | Computer Comm. and Networks Lab      | Core          | 5       | 0           | SE1131   | SE3773  | 4        | Click here to enter   |

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|     |          |  |           |         |             |          |         |          | text.                     |
| 27. | HMSE1033 | Personal Management and Grooming                   | G. Edu.   | 4       | 0           | Nil      | Nil     | 4        | Click here to enter text. |
| 28. | SE3413   | Operating Systems                                  | Core      | 4       | 0           | SE2143   | SE3411  | 4        | Click here to enter text. |
| 29. | SE3411   | Operating Systems Lab                              | Core      | 5       | 0           | SE2141   | SE3413  | 4        | Click here to enter text. |
| 30. | HMSE2013 | Professional Ethics and legal Issues               | G. Edu.   | 2       | 0           | Nil      | Nil     | 5        | Click here to enter text. |
| 31. | SE3713   | Introduction to Information Security and Forensics | Core      | 2       | 0           | SE1133   | Nil     | 5        | Click here to enter text. |
| 32. | SE3312   | Software Architecture and Design                   | Core      | 2       | 0           | SE2223   | SE3311  | 5        | Click here to enter text. |
| 33. | SE3311   | Software Architecture and Design Lab               | Core      | 3       | 0           | SE2223   | SE3312  | 5        | Click here to enter text. |
| 34. | SE3273   | Human Computer Interaction                         | Core      | 2       | 0           | SE2223   | Nil     | 5        | Click here to enter text. |
| 35. | SE4113   | Formal Methods in Software Engineering             | SE Domain | 2       | 0           | SE2223   | Nil     | 5        | Click here to enter text. |
| 36. | SE3173   | Computer Game Programming                          | Elective  | 2       | 0           | Nil      | Nil     | 5        | Click here to enter text. |
| 37. | SE3613   | Software Quality Engineering                       | Core      | 3       | 0           | SE2223   | Nil     | 6        | Click here to enter text. |
| 38. | SE3512   | Software Construction and Development              | Core      | 3       | 0           | SE3312   | SE3511  | 6        | Click here to enter text. |
| 39. | SE3511   | Software Construction and Development Lab          | Core      | 4       | 0           | SE3311   | SE3512  | 6        | Click here to enter text. |
| 40. | SE3523   | Web Engineering                                    | Core      | 3       | 0           | SE2223   | Nil     | 6        | Click here to enter text. |

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| 41. | SE3923   | Simulation and Modeling      | SE Domain  | 3       | 0           | SE2053   | Nil     | 6        | <a href="#">Click here to enter text.</a> |
| 42. | SE4883   | Introduction to Data Science | Elective   | 3       | 0           | SE2313   | Nil     | 6        | <a href="#">Click here to enter text.</a> |
| 43. | SE4813   | Artificial Intelligence      | Elective   | 3       | 0           | SE2143   | Nil     | 6        | <a href="#">Click here to enter text.</a> |
| 44. | SE4273   | Software Project Management  | Core       | 1       | 0           | SE2223   | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 45. | SE4283   | Software Re-Engineering      | Core       | 1       | 0           | SE3512   | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 46. | SE3833   | Business Process Engineering | SE Domain  | 1       | 0           | SE3263   | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 47. | SE4912   | Design Project (Part-I)      | D. Project | 1       | 0           | SE3312   | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 48. | ACSE3003 | Financial Accounting         | G. Edu.    | 1       | 0           | Nil      | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 49. | SE4743   | Internet of Things           | Elective   | 1       | 0           | SE3773   | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 50. | SE4343   | Automated Software Testing   | Elective   | 1       | 0           | SE2313   | Nil     | 7        | <a href="#">Click here to enter text.</a> |
| 51. | MGSE1003 | Introduction to Management   | G. Edu.    | 3       | 0           | Nil      | Nil     | 8        | <a href="#">Click here to enter text.</a> |
| 52. | SE4924   | Design Project (Part-II)     | D. Project | 1       | 0           | SE4912   | Nil     | 8        | <a href="#">Click here to enter text.</a> |
| 53. | SE4573   | Blockchain Technology        | Elective   | 3       | 0           | SE3713   | Nil     | 8        | <a href="#">Click here to enter text.</a> |