**SIM DEVELOPMENT PLAN FOR BACHELOR OF SOFTWARE ENGINEERING (HONOURS) (APPLICATION DEVELOPMENT)**

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| **No.** | **Course Name** | **Credit** | **Sem/Year Offered** | **SIM Developer** | **Estimate Completion** |
| 1. | OEC3105 – C Programming | 3 | Sem 1/Year 1 | Mohd Shahdi | Jan 2025 |
| 2. | OEC3119 – Database Systems | 3 | Sem 1/Year 1 | Muhammad Hamizan | Jan 2025 |
| 3. | OEC3120 – Computer Architecture and Organisation | 3 | Sem 1/Year 1 | Mohd Shahdi | Jan 2025 |
| 4. | OEC3127 – Understanding Computing | 3 | Sem 1/Year 1 | Muhammad Hamizan | Jan 2025 |
| 5. | OEC3121 – Introduction to Object Oriented Programming | 3 | Sem 3/Year 1 | Izrilfizal | Jan 2025 |
| 6. | OEC3122 – Fundamental of Web Development | 3 | Sem 3/Year 1 | Muhammad Hamizan | Jan 2025 |
| 7. | OEC3102 – Programming Fundamentals | 3 | Sem 3/Year 1 | Izrulfizal | Jan 2025 |
| 8. | OEC3114 – Software Modeling and Analysis | 3 | Sem 3/Year 1 | Izrulfizal | Jan 2025 |
| 9. | OEC3117 – Software Security | 3 | Sem 3/Year 1 | Muhammad Hamizan | Jan 2025 |
| 10. | OEC3129 – Introduction to Software Engineering | 3 | Sem 3/Year 1 | Izrulfizal | Jan 2025 |
| 11. | OEC3234 – Data Structure and Algorithms | 3 | Sem 1/Year 2 | Rajesvary | Jan 2025 |
| 12. | OEC3253 – Software Design and Arhcitecture | 3 | Sem 1/Year 2 | Harlina | Jan 2025 |
| 13. | OEC3273 – Discrete Mathematics | 3 | Sem 1/Year 2 | Dr Inshirah | Jan 2025 |
| 14. | OEC3274 – Software Process | 3 | Sem 1/Year 2 | Rajesvary | Jan 2025 |
| 15. | OEC3246 – Research Methodology | 3 | Sem 1/Year 2 | Rajesvary | Jan 2025 |
| 16. | OEC3268 – Data Communications and Networking | 3 | Sem 1/Year 2 | Seow Soon Loong | Jan 2025 |
| 17. | OEC3283 – Designing UI / UX | 3 | Sem 2/Year 2 | Izrulfizal | May 2025 |
| 18. | OEC3239 – Operating Systems Principles | 3 | Sem 3/Year 2 | Mohd Shahdi | May 2025 |
| 19. | OEC3282 – Mobile Application Development | 3 | Sem 3/Year 2 | Muhammad Hamizan | May 2025 |
| 20. | OEC3272 – Artificial Intelligence | 3 | Sem 3/Year 2 | Izrulfizal | May 2025 |
| 21. | OEC3322 – Software Quality | 3 | Sem 3/Year 2 | Harlina | May 2025 |
| 22. | OEC3324 – Software Evolution | 3 | Sem 3/Year 2 | Izrulfizal | May 2025 |
| 23. | OEC3325 – Software Verification and Validation | 3 | Sem 3/Year 2 | Izrulfizal | May 2025 |
| 24. | OEC3357 – Machine Learning | 3 | Sem 1/Year 3 | Rajesvary | Sept 2025 |
| 25. | OEC3307 – Software Design Pattern and Technology | 3 | Sem 1/Year 3 | Rajesvary | Sept 2025 |
| 26. | OEC3328 – SE Project I | 2 | Sem 1/Year 3 | Harlina | Sept 2025 |
| 27. | OEC3350 – Computer Vision and Image Processing | 3 | Sem 1/Year 3 | Rajesvary | Sept 2025 |
| 26. | OEC3352 – Back End Web Development | 3 | Sem 1/Year 3 | Harlina | Sept 2025 |
| 28. | OEC3306 – Software Project Management | 3 | Sem 1/Year 3 | Harlina | Sept 2025 |
| 29. | OEC3329 – SE Project II | 4 | Sem 2/Year 3 | Harlina | Jan 2026 |
| 30. | OGP3304 - Internship | 6 | Sem 3/Year 3 | Izrulfizal | Jan 2026 |
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| 31. | MPU3412 - Co-Curriculum | 2 | Sem 1 / Year 1 |  |  |
| 32. | MPU3122 - Penghayatan Etika dan Peradaban (Malaysians) | 2 | Sem 2 / Year 1 |  |  |
| 33. | MPU3142 - Bahasa Melayu Komunikasi 2 (International Students) | 2 | Sem 2 / Year 1 |  |  |
| 34. | MPU3112 - Philosophy and Current Issues (Malaysians and International Students) | 2 | Sem 2 / Year 1 |  |  |
| 35. | MPU3343 - Integrity and Anti-Corruption | 3 | Sem 2 / Year 1 |  |  |
| 36. | MPU32153 - Graduate Preparatory Course | 3 | Sem 2 / Year 3 |  |  |
| 37. | ODS3008 – Entrepreneurship | 3 | Sem 1 / Year 1 |  |  |
| 38. | ODS3005 - Public Speaking | 3 | Sem 2/Year 2  Sem 2 / Year 3 |  |  |
| 39. | ODS3006 - Critical Thinking | 3 | Sem 2/Year 2  Sem 2 / Year 3 |  |  |
| 40. | ODS3007-Professional Development | 3 | Sem 2/Year 2  Sem 2 / Year 3 |  |  |
| 41. | ODL3001-Introduction to French | 3 | Sem 2/Year 2  Sem 2 / Year 3 |  |  |

Note: Electives Courses:

ODS3008 (Compulsory).

Choose 3 only (ODS3005, ODS3006, ODS3007, ODL3001).