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| \\UONFILESVR\InsFileSVR\alwaleed\Desktop\logo_ar.png | **Master of Science in Computer Science**  (Networks – Software Engineering – Data Science – Multimedia Processing) |
| **College** | Arts & Sciences |
| **Study Mode** | Courses and Thesis |
| **Enrollment Status** | Full Time or Part Time |
| **Program Length** | Full time: Two years or Part time: Three years |
| **Teaching Language** | English |
| **Program Description** | * The program consists of 30 credit hours of course work, which includes 24 credit hours of major requirements and 6 credit hours for thesis. * The student shall complete all the major requirements as they are described in the study plan with a minimum CGPA of 3.0. |
| **Admission Requirements** | * Holds a B.Sc. degree in any relevant Science, Engineering, or Information Systems major from The University of Nizwa or other accredited institution. * Has a minimum grade point average of 2.5 from 4.0 using the University of Nizwa Points Scale. |
| **English proficiency** | * Must pass the Test of English as a Foreign Language (TOEFL) with a minimum score of 530 (paper-based) or 71 (Internet-based) or IELTS 6. |
| **Selection Criteria** | * A number of factors are carefully considered in the committee’s review of each applicant’s qualifications. The review can be a written test or an interview. |
| **Fee** | 150 O.R. for every credit hour. Total 4500 O.R. |
| **Initial Campus, Birkat Al Mouz: P.O.Box33,PC:616** [**Tel: 25446234**](Tel:25446234) **– 25446212 fax :25446338** | |

**Degree Plan for M.Sc. in Computer Sciences**

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| Total No. of Credits for this degree plan = 30 | | | |
| Course code | Course Title | No. of Credits | Prerequisites |
| Department Requirements = 9 Credits | | | |
| COMP601 | Advanced Algorithm Design and Analysis | 3 |  |
| COMP602 | Theory of Computation | 3 |  |
| COMP603/L | Computer Simulation and Modeling | 3 |  |
| Thesis Requirements = 6 Credits | | | |
| COMP699 | Master Thesis | 6 | after 18 Credits |
| Electives = 15 Credits  NOTE: Students can choose any FIVE of the following courses but at least THREE must belong to the same track | | | |
| Track 1 – Data Science | | | |
| COMP611/L | Data Mining and Warehousing | 3 | COMP601 |
| COMP612/L | Data Science Essentials | 3 |  |
| COMP613/L | Advanced Database Systems | 3 |  |
| COMP614/L | Big Data Fundamentals | 3 |  |
| COMP619 | Emerging Trends in Data Science | 3 | COMP612 |
| Track 2 – Networks | | | |
| COMP621/L | Advanced Computer Networks | 3 |  |
| COMP622/L | Wireless Networks | 3 | COMP621 |
| COMP623 | Grids and Clouds | 3 | COMP621 |
| COMP624 | Cryptography and Network Security | 3 |  |
| COMP629 | Emerging Trends in Networking | 3 | COMP621 |
| Track 3 – Multimedia Processing | | | |
| COMP631/L | Advanced Digital Image Processing | 3 |  |
| COMP632 | Multimedia Security | 3 | COMP631 |
| COMP633/L | Computer Vision and Pattern Recognition | 3 | COMP631 |
| COMP634/L | Soft Computing | 3 | COMP601 |
| COMP639 | Emerging Trends in Multimedia Processing | 3 |  |
| Track 4 – Software Engineering | | | |
| COMP641 | Advanced Software Engineering | 3 |  |
| COMP642 | Software Testing and Maintenance | 3 | COMP641 |
| COMP643 | Software Project Management | 3 | COMP641 |
| COMP644 | Software Metrics | 3 | COMP641 |
| COMP649 | Emerging Trends in Software Engineering | 3 | COMP641 |
| The following is an additional elective independent of tracks and open to all | | | |
| COMP698 | Recent advances in Computer Science | 3 | Section Approval |