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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.
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| **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.
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| **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.
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| **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.
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| **Fee** | 150 O.R. for every credit hour. Total 4500 O.R. |
| **Initial Campus, Birkat Al Mouz: P.O.Box33,PC:616** **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  |