

AMITY GLOBAL INSTITUTE
MODULE SYLLABUS

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| Course | Diploma in Computing |
| Module Title | Computer Systems Architecture |
| Start Date | September 2018 |
| End Date | September 2019 |
| Syllabus / Content / Learning Outcomes | <p>On successful completion of the module students will be able to:</p> <p>Knowledge and Understanding</p> <ol style="list-style-type: none"> a. Describe and understand, to a satisfactory level, the purpose of the hardware components that make up a computer b. Describe and understand, to a satisfactory level, the workings and use of common peripheral devices such as printers and scanners c. Understand and explain, to a satisfactory level, the software necessary for the use of a computer system <p>Subject specific skills</p> <p>On successful completion of the module students will have demonstrated their ability to:</p> <ol style="list-style-type: none"> a. Use a most essential subset of operating system functions to manage both software and information stored on the computer and a network b. Set-up data files c. Learn how to use software from provided instructions <p>Key Skills</p> <p>On successful completion of the module students will have had the opportunity to:</p> <ol style="list-style-type: none"> a. Learning to Learn: demonstrate an ability to work out new uses of computers in the work place, in the home, and in education b. Communication skills: present a satisfactory appreciation of the implemented solution to a peer group, verbally and in writing. |
| No. of Teaching Hours | <p>Teacher Managed Learning Eg : Lectures : 48 Hrs</p> <p>Student Managed Learning Eg : Tutorials, Seminars etc : 152 Hrs</p> <p>TOTAL = 200</p> |
| Teaching Methods | Lectures, tutorials, case-studies analysis, research journals and group discussion |
| Assessment Methods and Weightages | Written Assessment 1 (1500 Words) – 50% Written Assessment 2 (1500 Words) – 50% |
| Skills for Maximising Learning Outcomes | Reading and Research |
| Dates of Examination and Submission of Assignment | Examination Period (not all modules have end-of-semester / year examinations) Indicative: January 2019 September 2019 |
| Recommended Text & Reference | <ul style="list-style-type: none"> • J Stanley Warford - "Computer Systems", Jones & Bartlett Publishers • M Morris Mano – "Computer System Architecture ", Pearson Education |

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| Lesson No. | Learning Outcome |
|-------------------|---|
| 1. | Computer Systems and History of Computers |
| 2. | Factors to be considered in the selection of computer systems |
| 3. | Computer Hardware |
| 4. | Computer Software |
| 5. | Digitization and Number Representation in Computing Environment |
| 6. | Input, Output, Processing Devices |
| 7. | Memory and Storage Devices |
| 8. | Role of Operating Systems |