

First Semester

Subject : fundamentals of computer

Stage : First

- **Definition of Computer**
 - Stages of computer Development
 - Features of Computer
- Components of Computer
 - **Hardware**
 - Input unit
 - Output unit
 - **Software**
 - Operating systems
 - Application programming
 - Languages of programming
- **Numerical systems**
 - Introduction
 - Decimal system
 - Binary system
 - Octal system
 - Hexadecimal Decimal system
- **Channeling Between Numerical Systems**

- Arithmetical operation in Binary system
 - **Binary Addition**
 - **Binary Subtraction**
 - **Binary Multiplication**
 - **Binary Division**
 - **Complements**
 - Complement-1
 - Complement-2
- **Arithmetical operation in Octal system**
 - **Octal Addition**
 - **Octal Subtraction**
- **Arithmetical operation in Octal system**
 - Hexadecimal Addition
 - Hexadecimal Subtraction
- **Algorithms**
 - introduction in Algorithms
 - Types of Algorithms
 - Examples
- Introduction Dos
- Introduction Windows
- Introduction Word

المصادر :

- "History Of Computing", www.britannica.com, Retrieved 4-1-2019. Edited. .1
- ‘Robert Mannell, "A Short History of Computers and Computing" .2
www.clas.mq.edu.au, Retrieved 4-1-2019. Edited
- Kim Ann Zimmermann (6-9-2017), "History of Computers: A Brief
www.livescience.com, Retrieved 4-1-2019. Edited. ‘Timeline”
3. D. Knuth. The Art of Computer Programming. Volume 2, 3rd Ed. Addison–Wesley. pp. 194–213, "Positional Number Systems".
4. ALGORITHMS, FLOWCHARTS, DATA TYPES AND PSEUDOCODE, MT 512: Programming Design Page no: 6
- .5 /أ.د علاء حسين الحمامي 2008 c++ / مفاهيم و أسرار لغة البرمجة
.6 /ترجمة الدكتور صلاح الدوه جي 2002 c ++ /كيف تبرمج بلغة ال
.7 /الدليل الكامل / منشورات الدار العربية للعلوم 32002 .c++
.8 /المدخل إلى علم الحاسوب / د.عبد الرحمن العبد، بشري سماقية 2003
9. www.arabteam200.com
10. www.cprogramming.com
11. www.c++LanguageNotes.com
12. www.odffactory.com
- Sedory, Daniel B. (8 December 2004). "Windows XP MS-DOS". Windows XP MS-DOS.13
 مؤرشف من الأصل في 24 أكتوبر 2010.
The Starman's Realm.
- Leven Antov (1996). "History of MS-DOS". Digital Research. .14
 من الأصل في 02 أكتوبر 2017 !طلع عليه بتاريخ 06 مايو 2015 .
- "A Compilation of 8 Historical Essays". Google Books. .15
 مؤرشف من الأصل في 14 أكتوبر 2016 !طلع عليه بتاريخ 30 يناير 2016 .
16. <https://support.microsoft.com/en-us/help/4566782/windows-10-update-kb4566782>

17. *Tsang, Cheryl (1999). Microsoft First Generation. John Wiley & Sons.* *ISBN 978-0-471-33206-0*.
18. In which programming language is Microsoft Office written? —
19. <https://support.office.com/en-us/article/use-excel-with-earlier-versions-of-excel-2fd9ffcb-6fce-485b-85af-fecfd651a5ac>