

DATA ANALYTICS REFERENCE DOCUMENT	
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**REVISION HISTORY**

Revision	Details of Modification(s)	Reason for modification	Date	By
0	Draft release	Computer Architecture and Technology convergence module Summary	2018/11/07 09:25	Gerhard van der Linde

# 51308 - Computer Architecture

[51308 PDF Summaries here](#)

## Week 2

### History of computing and the Von Neumann architecture

02a\_history\_of\_computing\_and\_the\_von\_neumann\_architecture.pdf

### The CPU

## Week 3

### The Motherboard

### Memory

### Input and Output

## Week 4

## Graphics

### Other PC Components

### pci-express-pcie-2625962

### Number Systems and Binary Intro

### Decimal Binary Hex Conversion

### Counting Using Various Number Systems

### Homework Week 4

## Week 5

### Binary Arithmetic

### Logic Gates

### Real Numbers - Binary Representation

### Circuits

## Week 6

### Computer Language Evolution

### Computer Program Translation

### which-programming-language-should-i-learn-first-pdf

## Week 7

### Recap and Abstraction

## **Firmware and BIOS**

## **The Operating System**

## **OS Scheduling**

## **Process Scheduling**

## **scheduling**

## **OS Memory Management**

## **Week 8**

## **OS - Other Services**

## **Dining philosophers problem**

## **view**

## **OS Structure and Virtual Machines**

## **Linux Intro**

## **Linux Shell Part 1**

## **Week 9**

## **Linux Shell Part 2**

## **09bOS File Systems and Linux Installation**

## **Linux File System Structure**

## **Homework - Linux Intro**

## Week 10

### Linux File Permissions

### Linux Shell Part 3

### Linux Shell Part 4

## Week 11

### Technology Convergence

### Infrastructure Part 1

### Infrastructure Part 2

## Week 12

### Infrastructure Part 3

### Algorithms

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