

GOVERNMENT ENGINEERING COLLEGE DAHOD
COMPUTER ENGINEERING DEPARTMENT
4TH SEMESTER

Computer Organization and Architecture
Term Work Submission for **INTERNAL BACKLOG**
Tutorials to be written in file and submitted at Term End

Date: 10th Sept 2018

No.	Topic title and subtopics. Write and explain each sub-topics.	
1	Computer System Architecture.	
	1.1	Explain Stored Program Computer
	1.2	Give overview of Computer Systems
2	Number Representation in Computers	
	2.1	Explain representation of signed and unsigned numbers
	2.2	Explain Floating Point Representation
	2.3	Write short note on IEEE Floating Point Numbers
3	Instruction Set Architecture	
	3.1	Introduction to Stored Program Machine
	3.2	Explain Instruction Formats. Two Address, One Address and Zero Address Instructions
4	Processor control	
	4.1	Explain Micro-program control
	4.2	Explain RISC Organization
	4.3	Explain pipelining
5	Branching	
	5.1	Explain Branching and effects on pipelining.
6	Memory	
	6.1	Explain Cache Memory, Virtual Memory and Main Memory
7	Input /Output	
	7.1	Explain Bus Arbitration
	7.2	Explain Interrupt Driven I/O
8	External Memory	
	8.1	Magnetic Disk
	8.2	RAID

Reference Books to write tutorials:

1. Computer Organization and Architecture, William Stallings, Pearson
2. Computer Organization and Architecture-Themes and Variations, Alan Clements, Cengage Learning

Note: This file is for only those students having "INTERNAL SUBMISSION" backlog in 4th semester due to less attendance / absence.

File should be submitted to Prof. V V Chaudhari before 20 October 2018.