

ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LECTURE SCHEDULE

SUBJECT: Computer Organization

ACADEMIC YEAR: 2019 -20

NAME: Dr. A.Tirupathiah

YEAR & SEM/SECTION: II-II (A)

No. of Lectures per week: 5+1* (Tutorial)

S.No	DATE	UNIT	TOPICS
1	18-11-2019	I	Basic Structure of Computers
2	20-11-2019		Functional units
3	21-11-2019		Basic Operational concepts
4	22-11-2019		Basic Operational concepts
5	23-11-2019		Bus structures
6	23-11-2019		TUTORIAL
7	25-11-2019		System Software
8	27-11-2019		Performance
9	28-11-2019		Performance
10	29-11-2019		The history of computer development
11	30-11-2019		The history of computer development
12	30-11-2019		TUTORIAL
13	02-12-2019		UNIT TEST-I
14	04-12-2019	II	Machine Instruction and Programs
15	05-12-2019		Instruction and Instruction Sequencing
16	06-12-2019		Register Transfer Notation
17	07-12-2019		Assembly Language Notation
18	07-12-2019		TUTORIAL
19	09-12-2019		Basic Instruction Types
20	11-12-2019		Addressing Modes
21	12-12-2019		Addressing Modes
22	13-12-2019		Basic Input/output Operations
23	14-12-2019		The role of Stacks and Queues in computer programming
24	14-12-2019		TUTORIAL
25	16-12-2019		Component of Instructions
26	18-12-2019		Logic Instructions

27	19-12-2019	II	Shift and Rotate Instructions
28	20-12-2019		UNIT TEST-II
29	21-12-2019	III	Types of Instructions
30	21-12-2019		TUTORIAL
31	23-12-2019		Arithmetic Instructions
32	26-12-2019		Logic Instructions
33	27-12-2019		Branch Instructions
34	28-12-2019		Branch Instructions
35	28-12-2019		TUTORIAL
36	30-12-2019		Addressing Modes
37	01-01-2020		Addressing Modes
38	02-01-2020		Addressing Modes
39	03-01-2020		Input/output Operations
40	04-01-2020		Input/output Operations
41	04-01-2020		TUTORIAL
42	06-01-2020		Revision
43	08-01-2020		Revision
44	09-01-2020		Revision
45	10-01-2020		Revision
46	13-01-2020		Revision
47	18-01-2020		Revision
48	18-01-2020		Revision
49	20-01-2020		Revision
50	22-01-2020		Revision
51	23-01-2020		Revision
52	24-01-2020	IV	Input/Output Organization
53	25-01-2020		Accessing I/O Devices
54	25-01-2020		TUTORIAL
55	27-01-2020		Interrupts: Interrupt Hardware
56	29-01-2020		Enabling and Disabling Interrupts

57	30-01-2020	IV	Handling Multiple Devices
58	31-01-2020		Direct Memory Access(DMA)
59	01-02-2020		Buses: Synchronous Bus, Asynchronous Bus
60	01-02-2020		TUTORIAL
61	03-02-2020		Interface Circuits, Standard I/O Interface
62	05-02-2020		Peripheral Component Interconnect (PCI) Bus
63	06-02-2020		Universal Serial Bus (USB)
64	07-02-2020		UNIT TEST-IV
65	10-02-2020	V	The MEMORY SYSTEMS: Basic Memory Circuits
66	12-02-2020		Memory System Considerations
67	13-02-2020		Read-Only Memories: ROM ,PROM
68	14-02-2020		EPROM, EEPROM, Flash Memory
69	15-02-2020		Cache Memories: Mapping Functions
70	15-02-2020		TUTORIAL
71	17-02-2020		Cache Memories: Mapping Functions
72	19-02-2020		Interleaving
73	20-02-2020		Secondary Storage: Magnetic Hard Disks
74	21-02-2020		Magnetic Hard Disks
75	22-02-2020		Optical Disks
76	22-02-2020		TUTORIAL
77	26-02-2020		UNIT TEST-V
78	27-02-2020	VI	Processing Unit: Fundamental Concepts
79	28-02-2020		Register Transfers
80	29-02-2020		Performing an Arithmetic Or Logic Operation
81	29-02-2020		TUTORIAL
82	02-03-2020		Fetching a Word from Memory
83	04-03-2020		Execution of Complete Instruction
84	05-03-2020		Hardwired Control
85	06-03-2020		Micro programmed Control
86	07-03-2020		Microinstructions, Micro program Sequencing
87	07-03-2020		TUTORIAL

88	11-03-2020	VI	Wide Branch Addressing
89	12-03-2020		Microinstructions with next Address
90	13-03-2020		Revision
91	16-03-2020		Revision
92	18-03-2020		Revision
93	19-03-2020		Revision
94	20-03-2020		Revision
95	21-03-2020		Revision
96	21-03-2020		Revision
97	23-03-2020		Revision
98	26-03-2020		Revision
99	27-03-2020		Revision
100	28-03-2020		Revision
101	28-03-2020		Revision
102	30-03-2020	Revision	

TEXT BOOKS:

1. Computer Organization, Carl Hamacher, ZvonksVranesic, SafeaZaky, 5th Edition, McGraw Hill.
2. Computer Architecture and Organization , John P. Hayes ,3rd Edition, McGraw Hill.

REFERENCE BOOKS:

1. Computer Organization and Architecture – William Stallings Sixth Edition, Pearson/PHI
2. Structured Computer Organization – Andrew S. Tanenbaum, 4th Edition PHI/Pearson
3. Fundamentals or Computer Organization and Design, - SivaraamaDandamudi Springer Int. Edition.
4. “Computer Organization and Design: The Hardware/Software Interface” by David A. Patterson and John L. Hennessy.
5. J .P. Hayes, "Computer Architecture and Organization", McGraw-Hill, 1998.

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