

KÉ HOẠCH TRIỂN KHAI HỌC PHẦN PLAN OF COURSE IMPLEMENTATION

DANANG CAMPUS

Tên học phần/Course name: Computer Organization and Architecture / Tổ chức và Kiến trúc máy tính

Course name

1. Thời gian triển khai: Học kỳ: SP 2023 từ 02/01/2023 đến 26/03/2023

Duration: Semesterfrom......to.....

2. Số lớp triển khai/Number of classes : 4

3. Đề cương triển khai: CEA201.

Implement in accordance with Syllabus: CEA201

4. Danh sách Giảng viên triển khai học phần/ List of Classes and Lecturers:

STT	Tên giảng viên	STT	Tên giảng viên
No.	Lecturer	No.	Lecturer
1	Nguyễn Văn Điền	4	
2		5	
3		6	

5. Danh sách giảng viên hỗ trợ, trợ giảng, khách mời (nếu có),

Supporting Lecturers, assistants, guest speakers (if any)

STT No.	Họ và tên Full name	Vai trò Role	Nội dung Content	Thời lượng Duration	Thời gian Time	Số lớp No of Class	Kinh phí Budget

6. Các hoạt động phát sinh: Addtional Activities:

STT No.	Họ và tên Full name	tiêu get	Thời lượng Duration	Thời gian Time	Số lớp No of Class	Kinh phí Budget

- 7. Tài liêu tham khảo bổ sung/AdditionalReferences:
- 8. Môi trường, công cụ triển khai bổ sung/ Update Environments and Tools (if any):
- a) Thực hiện giảng dạy hoặc sử dụng trên những website nào:

Websites for Teaching or Using:

http://williamstallings.com/ComputerOrganization/COA9e-Instructor/http://williamstallings.com/ComputerOrganization/COA9e-student/

b) Yêu cầu về công cụ, kỹ thuật đặc thù gì (cái gì, ở đâu, như thế nào...)

Specific Tools and technical required(What? Where? How?, etc.)

http://www.masm32.com/

http://www.windows8downloads.com/win8-masm-64.html

c) Kênh trao đổi thông tin giữa thầy và trò (kể cả việc nộp bài, cho điểm, nhận xét...)

Communication channels among lecturers and students (including submitting assignments, marking, and giving comment)

10.Lịch triển khai môn học

03.02-BM/ÐH/HDCV/FPTU 1/0 1/5

Slot	Week	Chapter -Topic -Content	Assessment	Assignment Homework	Note
1		Introduction to the course Chapter 1: Introduction 1.1 Organization and Architecture 1.2 Structure and Function			
2	02/01/2023	Assessing exercises of chapter 1 Chapter 2: Computer Evolution and Performance 2.1 A Brief History of Computers 2.2 Designing for Performance			
3		Chapter 2 contd. 2.3 Multicore, MICs, and GPGPUs 2.6 Performance Assessment			
4		Assessing exercises of chapter 2 Chapter 3 A Top-Level View of Computer Function and Interconnection 3.1 Computer Components 3.2 Computer Function			
5	09/01/2023	Chapter 3 contd. 3.3 Interconnection Structures 3.4 Bus Interconnection			
6		Assessing exercises of chapter 3 Chapter 4 Cache Memory 4.1 Computer Memory System Overview 4.2 Cache Memory Principles			
7		Chapter 4 contd. 4.3 Elements of Cache Design			
8	31/01/2023	Assessing exercises of chapter 4 Chapter 5 Internal Memory 5.1 Semiconductor Main Memory 5.2 Error Correction			
9		Chapter 5 contd. 5.3 Advanced Dram Organization			
10	06/02/2023	Assessing exercises of chapter 5 Chapter 6 External Memory 6.1 Magnetic Disk 6.2 Raid			
11		Chapter 6 External Memory contd.			

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		6.2 Raid contd 6.3 Solid State Drives			
	_	Assessing exercises of			
		chapter 6			
40		Chapter 7 Input/Output			
12		7.1 External Devices			
		7.2 I/O Modules			
		7.3 Programmed I/O			
		Chapter 7 Input/Output contd.			
		7.4 Interrupt-Driven I/O			
13		7.5 Direct Memory Access			
		7.6 I/O Channels and			
	_	Processors Accessing eversions of			
		Assessing exercises of chapter 7			
	13/02/2023	Chapter 8 Operating System			
14	10/02/2020	Support			
		8.1 Operating System			
		Overview			
		Chapter 8 Operating System			
15		Support contd.			
13		8.2 Scheduling			
		8.3 Memory Management			
		Assessing exercises of			
		chapter 8			
16		Chapter 11 Digital Logic 11.1- Boolean Algebra			
		11.1- Boolean Algebra			
		11.3- Combinational Circuit			
	_	Assessing exercises of			
		chapter 9			
	20/02/2023	Chapter 12 Instruction Sets:			
17		Characteristics and Functions			
		12.1 Machine Instruction			
		Characteristics			
		12.2 Types of Operands			
		Chapter 12 Instruction Sets:			
18		Characteristics and Functions			
		cont.			
		12.4 Types of Operations Assessing exercises of			
		chapter 12			
		Chapter 13 Instruction Sets:			
19		Addressing Modes and			
		Formats			
	27/02/2023	13.1 Addressing Modes			
		13.3 Instruction Formats			
		13.5 Assembly Language			
20		Practical Assembly Laguage			
21		Practical Assembly Laguage			
22	06/03/2023	Practical Assembly Laguage			
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		Practical Assembly Laguage		
23		Assignment introduction (2		
		programs)		
		Assessing exercises of		
		chapter 13		
		Chapter 14 Processor		
24		· ·		
		Structure and Function		
		14.1 Processor Organization		
		14.2 Register Organization		
		Chapter 14 Processor		
		Structure and Function contd.		
25		14.3 Instruction Cycle		
		_		
		14.4 Instruction Pipelining		
		Assessing exercises of		
		chapter 14		
		Chapter 15 Reduced		
		Instruction Set Computers		
		15.1 Instruction Execution		
		Characteristics		
26				
	40/00/0000	15.2 The Use of a Large		
	13/03/2023	Register File		
		15.3 Compiler-Based Register		
		Optimization		
		15.4 Reduced Instruction Set		
		Architecture		
		Assessing exercises of		
		chapter 15		
		Chapter 16 Instruction-Level		
27				
21		Parallelism and Superscalar		
		Processors		
		16.1 Overview		
		16.2 Design Issues		
		Assessing exercises of		
		chapter 16		
		Chapter 17 Parallel Processing		
		17.1 Multiple Processor		
		Organizations		
28				
20		17.2 Symmetric		
		Multiprocessors		
		17.3 Cache Coherence and the		
		MESI Protocol		
	00/00/0000	17.4 Multithreading and Chip		
	20/03/2023	Multiprocessors		
		Assessing exercises of		
		chapter 16		
		Chapter 18 Multicore		
		· ·		
00		Computers		
29		18.1 Hardware Performance		
		Issues		
		18.2 Software Performance		
		Issues		
		18.3 Multicore Organization		
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20	Assessing assigments		
30	Review		

Người phê duyệt/Approver GĐCS/Campus's Director	Người kiểm tra/Reviewer TBĐT/Head of Academic Affairs Board)	Người lập/Creator CNBM/Head of department
Ho tên/ <i>Name</i> :	Ho tên/ <i>Name:</i>	Họ tên/Name: Nguyễn Văn
Ngày/ <i>Date</i> :	Ngày/ <i>Date:</i>	Điền Ngày/Date: 28/12/2022