		L	Lecture Plan			
Name of	f the college: Gov	ernment Colle	ge of Arts, Science & Commerce, Sanquelim, Goa			
Name of	f Faculty: Pooja	Naik	Subject:Computer Science			
Paper co Organiza	ode: CSC-213 Com ation	puter	Program: S.Y.BSC		Division:	
Academ	ic year: 2024-25		Semester: III		Total Lectures: 4	5
instructi	ons.	·	asics of Computer Organizational and Architectural issues and clas			
	Les miles Outres				the second s	
Student	-		I the basics of ALU implementation, hardwired and microprogram		it, pipelining and	parallel architectures
	Learning Outcom	No. of lectures allotted	the basics of ALU implementation, hardwired and microprogram	Exercise/ Assignment	it, pipelining and ICT Tools	parallel architectures Reference books
	Lecture From	No. of lectures		Exercise/ Assignment Practice Problems		
Month July	Lecture From To 01/07/2024 To	No. of lectures allotted	Topic, Subtopic to be covered Introduction to Logic Gates and Boolean Algebra: Logic	Exercise/ Assignment Practice Problems	ICT Tools	Reference books 1. William Stallings, "Computer Organization and Architecture : Designing for performance", 9th Edition, Prentice Hall of

2024	till		Number System,			
July 2024	20/07/2024 12/07/2024 till 27/07/2024	03	Signed number ,fixed, floating point,	Practice Problems at home	LCD Projector	
July 2024	29/07/2024 till 31/07/2024	02	character representation, Addition, Subtraction	Practice Problems at home	LCD Projector	
Aug 2024	01/08/2024 till 03/08/2024	02	Multiplication - Shift and Add, Booth's Algorithm,	Practice Problems at home	LCD Projector	
Aug 2024	05/08/2024 Till 10/08/2024	03	Division Pseudocode:definition and its attributes,constructs and examples	Practice Problems at home	LCD Projector	
Aug 2024	12/08/2024 till 17/08/2024	03	Memory Hierarchy: Hierarchical memory organization, Types of Memory-internal and external.	Practice Problems at home	LCD Projector	
Aug 2024	19/08/2024 till 24/08/2024	03	, Cache memory, Memory interleaving. Introduction to Computer Architecture	Practice Problems at home	LCD Projector	
Aug 2024	26/08/2024 till 31/08/2024	03	Flynn's Classification of Computers, Performance Metrics (like Latency, throughput),	Practice Problems at home	LCD Projector	
Sep 2024	02/09/2024 till 05/09/2024	02	Fundamental Blocks of Computer (like CPU, I/O subsystems, memory, control unit)	Practice Problems at home	LCD Projector	1. William Stallings,
Sep 2024	13/09/2024 till 14/09/2024	01	computer function, interconnection structures, Bus interconnections, Peripheral devices: Types of Peripheral Devices.	Practice	LCD Projector	"Computer Organization and Architecture : Designing for
Sep 2024	16/09/2024 till 21/09/2024	03	I/O subsystem, programmed I/O,	Practice Problems at home	LCD Projector	performance", 9th Edition, Prentice Hall of India.
Sep 2024	23/09/2024 till 28/09/2024	03	Interrupt-driven I/O, DMA, I/O channels and processors	Practice Problems at home	LCD Projector	

	30/09/2024]		Practice	LCD Projector	
Oct	till		Instruction Set Architecture (ISA): Introduction to	Problems	LCD Projector	
2024	05/10/2024	03	Instruction Set, Types of ISA;	at home		
	07/10/2024		RISC, CISC; Processor Organization, Registers	Practice	LCD Projector	
Oct	till		organization, Instruction Execution Cycle, Instruction	Problems	LCD Projector	
2024	12/10/2024	03	formats, Addressing Modes.	at home		1. William Stallings,
	14/10/2024			Practice	LCD Projector	"Computer Organization
Oct	till		Register Transfer Language (RTL), Assembly Language	Problems	LCD Projector	and Architecture :
2024	19/10/2024	03	Programming, X86 -Architecture, ARM Architecture	at home		Designing for
	21/10/2024			Practice		performance", 9th
Oct	till			Problems		Edition, Prentice Hall of
2024	22/10/2024	02	Revision	at home		India.

* Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
Practical	25
Project	
Semester End	
Exam	60

Semester Lecture Plan

Name of	the college: Go	vernment Co	ollege of Ar	ts, Science and Commerce,	Sanquelim Goa.			
Name of]	Faculty: Pooja	Bhanudas N	laik		Subject: Computer Science			
Paper coo	de and Paper n	ame: CSC-21	3 Computer	Organization	Program/Course: SYBSc	Division:		
Academic year: 2024 - 2025					Semester: III	Total Lectures: 45		
Course Ob	jectives: Concept	tualize the bas	sics of Compu	iter Organizational and Architec	tural issues and classify the compute	rs based upon performance and	machine instructions	
Expected (Course Outcome:	Learn various	data transfe	r techniques and the I/O interfa	ces.			
Month	Lec From:	tures To:	No. of lectures allotted	Topic, Subtopic to be covere	d	Exercise/Assignment	ICT Tools	Reference books
July	01/07/2024	06/07/2024	2	Introduction to 8086 architec	ture and instruction set.	Practice Programs in Lab	Computers in Lab	
						Practice Programs in Lab	-	
July	08/07/2024	13/07/2024	2	Find the sum of 1 + 2 + 3 Check if number is even or od	d,positive or negative			1. William Stallings
				Display the multiplication tab		Practice Programs in Lab	Computers in Lab	"Computer Organization and Architecture
July	15/07/2024	20/07/2024	2	Store and retrieve numbers fr	om memory.	Practice Programs in Lab	Computers in Lab	Designing fo performance", 9tl Edition, Prentice Hall o India.
				Display the multiplication tab	le of a number .			
July	22/07/2024	27/07/2024	2	Store and retrieve numbers fr	om memory.			
August	29/07/2024	03/08/2024	2	Block transfer				

				Block transfer in reverse order.		
				Block transfer	Practice Programs in Lab	Computers in Lab
August	05/08/2024	10/08/2024	2	Block transfer in reverse order.		
				Sort numbers in memory.(Any two methods)	Practice Programs in Lab	Computers in Lab
			2	Searching Methods.		
August	12/08/2024	16/08/2024				
				Sort numbers in memory.(Any two methods)	Practice Programs in Lab	Computers in Lab
August	19/08/2024	24/08/2024	2	Searching Methods.		
				Sort numbers in memory.(Any two methods)	Practice Programs in Lab	Computers in Lab
August	26/08/2024	30/08/2024	2	Searching Methods.		
					Practice Programs in Lab	Computers in Lab
				Masking of Bits.		
September	02/09/2024	05/09/2024	2	Counting of number of bits.		
					Practice Programs in Lab	Computers in Lab
				Masking of Bits.		
September	16/09/2024	20/09/2024	2	Counting of number of bits.		
					Practice Programs in Lab	Computers in Lab
				Count number of even or odd numbers from a given set of numbers.		
September	23/09/2024	27/09/2024	2	Check if a number is palindrome.		
					Practice Programs in Lab	Computers in Lab
			2			
September				Count number of even or odd numbers from a given set of numbers.		
September	29/09/2024	05/10/2024		Check if a number is palindrome.		

			2	Count the number of positive and negative numbers from a given set of numbers. Generate a series like 1,3,5,7upto n terms.	Practice Programs in Lab	Computers in Lab
October	07/10/2024	12/10/2024				
					Practice Programs in Lab	Computers in Lab
				Count the number of positive and negative numbers from a given set of numbers.		
October	14/10/2024	19/10/2024	2	Generate a series like 1,3,5,7upto n terms.		

*Assessment Rubrics

Component	Max Marks
ISA 1	7.5
ISA 2	7.5
Practical	25
Project	-
Semester End	60
Examination	