



AMBEDKAR COLLEGE OF ARTS & SCIENCE, WANDOOR
 (Aided by Govt. of Kerala & Affiliated to University of Calicut)
 Wandoor (PO), Pin 679328, Ph: 04931-249666
acaswandoor@gmail.com, Website: www.ambedkarcollegewdr.in

COURSE PLAN										
Course code and title	CSC1C01- COMPUTER FUNDAMENTALS									
Class	BSC MATHEMATICS	Semester	ONE							
Regulation	2019	Academic year	2023-24							
Course prerequisites	Background of the basic science at +2 level									
Course objectives	To learn the basics of computer hardware units and how they work together.									
	To acquire basic skill with office packages.									
COURSE OUTCOMES										
At the end of the course the student would be able to...										
CO1	Understand the knowledge of number systems and data representations.									
CO2	Apply Boolean algebra to simplify logical expressions.									
CO3	Analyze CPU performance metrics and their impact on system efficiency.									
CO4	Evaluate I/O systems and their impact on overall computer performance.									
CO5	Create and develop algorithms and corresponding flowcharts or real world problems.									
MAPPING OF PROGRAM OUTCOMES										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	✓		✓	✓				✓		
CO2	✓		✓	✓	✓		✓	✓	✓	
CO3	✓		✓	✓	✓			✓	✓	
CO4	✓		✓	✓	✓			✓	✓	
CO5	✓		✓	✓	✓		✓	✓		



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PO1	Knowledge Acquisition	PO6	Ethics & Social Responsibility
PO2	Communication & Leadership	PO7	Research, Innovation & Entrepreneurship
PO3	Professional Skills	PO8	Lifelong Learning
PO4	Digital Intelligence	PO9	Global Perspective
PO5	Scientific awareness & Critical Thinking	PO10	Democratic Co-existence

PROGRAM SPECIFIC OUTCOMES

PSO1	Understand the theoretical and mathematical foundations of Computer Science
PSO2	Understand the concepts of system architecture, hardware, software and network configuration
PSO3	Acquire logical thinking and problem-solving skills to find solutions in the software domain
PSO4	Design, analyze and develop code-based solutions for the algorithms
PSO5	Address the industry demands and assimilate technical, logical and ethical skills needed for the industry
PSO6	Adapt to emerging trends and tackle the challenges in the software field.

MAPPING OF COURSE OUTCOMES TO PROGRAM EDUCATIONAL OUTCOMES

PROGRAM EDUCATIONAL OUTCOMES	COURSE OUTCOMES				
	CO1	CO2	CO3	CO4	CO5
PEO1: Development of Leadership Qualities. Graduates will demonstrate Leadership qualities by utilizing their full intellectual potential, engaging with their communities, and contributing to the social, cultural, and economic development of society.		✓			✓
PEO2: Lifelong Learning and Societal Contribution. Graduates will be equipped with core values and intellectual capabilities enabling them to pursue lifelong learning and		✓			✓



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meaningfully contribute to societal well-being through innovative thinking and service.					
PEO3: Entrepreneurial and Global Competence. Graduates will possess entrepreneurial skills and a global perspective, promoting sustainable national growth through ethical leadership, innovative ventures, and responsible citizenship.					✓
TEXTBOOKS: 1. Pradeep K. Sinha and Priti Sinha, Computer Fundamentals, BPB					
REFERENCES: 1. Peter Nortorn, Introduction to Computer, TMH 2. Rajaraman, V, Fundamental of Computers, Prentice Hall India 3. B. Ram, Computer Fundamentals					
e-learning resources	https://www.geeksforgeeks.org/fundamentals-of-computer/				
Mode of Evaluation	Internal Examination (20%) End Semester Examination (80%)				
Faculty	Jasmine MT , Assistant Professor/ Department of Computer Science				
e-mail id	Jasminefasil123@gmail.com				



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COURSE PLAN CSC1C01- COMPUTER FUNDAMENTALS

No of lecture hours	Planned Date	Topics to be covered		Reference/ Teaching aids and methods	Actual date	Week ly review
MODULE I - Number systems						
1	14-08-2023	Non-positional number systems and positional number systems		T/WB	21/9/24	
2	16-08-2023	Binary, Octal and Hexadecimal number systems		T/WB	25/9/24	
3	17-08-2023	Converting from one number system to another		T/WB	26/9/24	
4	21-08-2023	decimal to a new base		T/WB	27/9/24	
5	22-08-2023	converting to decimal from another bases		T/WB	27/9/24	
6	23-08-2023	converting from base other than ten to base other than ten		T/WB	3/10/24	
7	24-08-2023	short cut method for converting from binary to octal, octal to binary, binary to hexadecimal and hexadecimal to binary		T/WB	3/10/24	
8	04-09-2023	Computer Codes(BCD, EBCDIC, ASCII)		T/WB	4/10/24	
9	05-09-2023	error detecting and correcting codes		T/WB	12/10/24	
10	07-09-2023	parity bit		T/WB	16/10/24	
11	11-09-2023	Hamming Code		T/WB	18/10/24	
12	12-09-2023	computer arithmetic		T/WB	19/10/24	
13	13-09-2023	importance of binary, binary addition and subtraction.		T/WB	25/10/24	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	
13	13	25/10/24				
MODULE II - Boolean Algebra and Logic circuits						
14	14-09-2023	fundamental concepts of Boolean Algebra, postulates		T/WB	26/11/24	
15	18-09-2023	Principle of duality, theorems of Boolean Algebra, Boolean functions		T/WB	9/11/24	
16	19-09-2023	minimization		T/WB	13/11/24	
17	20-09-2023	Complement, canonicals forms		T/WB	14/11/24	
18	21-09-2023	conversion between canonical forms		T/WB	15/11/24	
19	25-09-2023	Logic Gates- AND, OR, NOT		T/WB	16/11/24	
20	26-09-2023	NAND, NOR, XOR and XNOR		T/WB	26/11/24	



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21	28-09-2023	logic circuits, converting expression to logic circuit		T/WB	20/11/24	
22	03-10-2023	universal NAND and NOR gates		T/WB	20/11/24	
23	04-10-2023	Exclusive OR and equivalence functions		T/WB	21/11/24	
24	05-10-2023	Design of Combinational circuits		T/WB	22/11/24	
25	09-10-2023	Half Adder		T/WB	22/11/24	
26	10-10-2023	Subtractor and Full Adder		T/WB	23/11/24	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	
13	13	23/11/24	<i>[Signature]</i>	<i>[Signature]</i>	SHARSHAD MEERA U Asst. Professor & Head Department of Mathematics Ambedkar College of Arts & Science Wandoor, Malappuram Dt.	

MODULE III - Basic Computer Organization

27	11-10-2023	Input Unit		T/WB/PPT	30/11/24	
28	12-10-2023	Output Unit		WB/PPT	30/11/24	
29	16-10-2023	Storage Unit (Direct, Sequential and Random Access)		WB/PPT	30/11/24	
30	17-10-2023	CPU organization		WB/PPT	4/12/24	
31	18-10-2023	Control Unit (micro programmed and hardwired control)		WB/PPT	5/12/24	
32	19-10-2023	primary storage		WB/PPT	7/12/24	
33	23-10-2023	memory hierarchy, storage locations and addresses		T/PPT	11/12/24	
34	25-10-2023	storage capacity, bit, byte, nibble		T/PPT	11/12/24	
35	26-10-2023	RAM, ROM, PROM and EPROM		PPT	12/12/24	13/12/24
36	30-10-2023	cache memory		PPT/WB	21/12/24	
37	01-11-2023	registers		PPT/WB	7/1/25	
38	02-11-2023	Secondary storage devices ,Magnetic tape		PPT	13/1/25	
39	06-11-2023	Hard disk and CD drive		PPT/WB	21/1/25	5/1/25
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	
13	13	4/1/24	<i>[Signature]</i>	<i>[Signature]</i>	SHARSHAD MEERA U Asst. Professor & Head Department of Mathematics Ambedkar College of Arts & Science Wandoor, Malappuram Dt.	

MODULE IV - I/O devices

40	07-11-2023	Input Devices-identification and its use		PPT	9/1/24	
41	08-11-2023	keyboard, pointing devices (mouse, touch pad and track ball)		PPT	9/1/24	
42	09-11-2023	Video digitizer, remote control		PPT/T	10/1/24	
43	13-11-2023	joystick, magnetic stripes		PPT	10/1/24	
44	14-11-2023	scanner, digital camera, microphone		PPT	10/1/24	
45	15-11-2023	sensor, and MIDI instruments		PPT	10/1/24	
46	16-11-2023	Output Devices identification and its use		PPT	11/1/24	
47	20-11-2023	monitor		PPT	11/1/24	



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48	21-11-2023	printer			PPT	11/1/24
49	22-11-2023	laser, inkjet, dot-matrix printers			PPT/WB	11/1/24
50	23-11-2023	plotter, speaker			PPT	12/1/24
51	27-11-2023	control devices, lights, buzzers			PPT	12/1/24
52	28-11-2023	robotic arms, and motors			PPT	12/1/24
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	
13	12	12/1/24			Asst. Professor & Head Department of Mathematics Ambedkar College of Arts & Science Wandoor, Malappuram Dt.	

MODULE V -Planning a Computer program

53	29-11-2023	Planning a Computer program			T/WB	27/1/24
54	30-11-2023	purpose of program planning			T/WB	27/1/24
55	04-12-2023	algorithm			WB	27/1/24
56	05-12-2023	algorithm			WB	27/1/24
57	06-12-2023	algorithm			WB	29/1/24
58	07-12-2023	algorithm			WB	29/1/24
59	11-12-2023	algorithm			T/WB	29/1/24
60	12-12-2023	flowchart - symbols			PPT/WB	28/1/24
61	13-12-2023	sample flowcharts			WB	28/1/24
62	14-12-2023	sample flowcharts			WB	28/1/24
63	18-12-2023	sample flowcharts			WB	29/1/24
64	19-12-2023	advantages and limitations			WB	28/1/24
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	
12	10	28/1/24			Asst. Professor & Head Department of Mathematics Ambedkar College of Arts & Science Wandoor, Malappuram Dt.	

FACULTY

HOD

PRINCIPAL



SHARSHAD AMEERAJI
Asst. Professor & Head
Department of Mathematics
Ambedkar College of Arts & Science
Wandoor, Malappuram Dt.



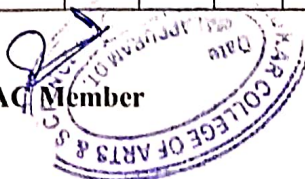
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Course outcome –Program outcome Mapping Table

CSC1C01- COMPUTER FUNDAMENTALS		Cognitive level	Program outcomes									
			1- Low Correlation 2- Moderate Correlation 3- High Correlation									
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
DIRECT METHOD												
CO1	Understand the knowledge of number systems and data representations.	Rememb er	3		1	2				2		
CO2	Apply Boolean algebra to simplify logical expressions.	Apply	3		3	3	3		2	1	1	
CO3	Analyze CPU performance metrics and their impact on system efficiency.	Apply & Analyze	3		2	2	2			1	1	
CO4	Evaluate I/O systems and their impact on overall computer performance.	Create	3		2	2	2			1	1	
CO5	Create and develop algorithms and corresponding flowcharts or real world problems.	Innovate	3		3	3	3		2	2		
INDIRECT METHOD												
Class Room contests		Analyze & Create	3		2	3	2		1	2		

Course Faculty

IQAC Member



HoD

SHARSHAD AMEERA.U
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COURSE PRE-ANALYSIS

Dear Students,

Welcome back to class. I would like to thank all of you for sparing your time in filling up this Course Pre-Analysis survey for the effective conduct of Computer Aided Design and Manufacturing Course. As you know that this survey is meant for knowing the knowledge level of the students with respect to this course, please fill it very carefully. At this juncture, I am glad to welcome the suggestions from you all (if any).

Rate your prior knowledge about the topics mentioned below

Course Outcomes	Description	Rate your prior knowledge about the topics			
		Excellent (4)	Good (3)	Moderate (2)	Fair (1)
C01	Understand the knowledge of number systems and data representations.				✓
C02	Apply Boolean algebra to simplify logical expressions.				✓
C03	Analyze CPU performance metrics and their impact on system efficiency.				✓
C04	Evaluate I/O systems and their impact on overall computer performance.				✓
C05	Create and develop algorithms and corresponding flowcharts or real world problems.				✓

Name of the student:

Anura KP

Signature of the student:



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Syllabus

UNIT I [7T+6L]

Number systems- Non-positional number systems and positional number systems (Binary, Octal and Hexadecimal), Converting from one number system to another- decimal to a new base, converting to decimal from another bases, converting from base other than ten to base other than ten, short cut method for converting from binary to octal, octal to binary, binary to hexadecimal and hexadecimal to binary, Computer Codes (BCD, EBCDIC, ASCII) error detecting and correcting codes, parity bit, Hamming Code, computer arithmetic, importance of binary, binary addition and subtraction.

UNIT II [6T+7L]

Boolean Algebra and Logic circuits- fundamental concepts of Boolean Algebra, postulates, Principle of duality, theorems of Boolean Algebra, Boolean functions, minimization, complement, canonicals forms, conversion between canonical forms. Logic Gates- AND, OR, NOT, NAND, NOR, XOR and XNOR, logic circuits, converting expression to logic circuit, universal NAND and NOR gates, Exclusive OR and equivalence functions, Design of Combinational circuits (Half Adder, Subtractor and Full Adder)

UNIT III [6T+7L]

Basic Computer Organization-Input Unit, Output Unit, Storage Unit (Direct, Sequential and Random Access), CPU organization, Control Unit (micro programmed and hardwired control), primary storage, memory hierarchy, storage locations and addresses, storage capacity, bit, byte, nibble, RAM, ROM, PROM and EPROM, cache memory, registers. Secondary storage devices (Magnetic tape, Hard disk and CD drive)

UNIT IV [7T+6L]

I/O devices - Input Devices-identification and its use, keyboard, pointing devices (mouse, touch pad and track ball), Video digitizer, remote control, joystick, magnetic stripes, scanner, digital camera, microphone, sensor, and MIDI instruments, Output Devices identification and its use, monitor, printer (laser, inkjet, dot-matrix), plotter, speaker, control devices (lights, buzzers, robotic arms, and motors)

UNIT V [6T+6L]

Planning a Computer program, purpose of program planning, algorithm, flowchart - symbols, sample flowcharts, advantages and limitations.



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Text Books:

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References:

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2. Rajaraman, V, Fundamental of Computers, Prentice Hall India
3. B. Ram, Computer Fundamentals

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Course outcome –Program Specific outcome Mapping Table

Course outcomes	Program Specific outcomes					
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	✓				
CO2	✓	✓	✓			✓
CO3	✓	✓				
CO4	✓	✓				
CO5	✓	✓	✓		✓	✓

Course Faculty

IQAC Member



HoD

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DIRECT ASSESSMENT OF COURSE OUTCOMES

INTERNAL ASSESSMENT TEST 30 MARKS				
Objective	To Identify What Students Have Learned and also to identify students strength and weakness			
To file	Answer scripts	Frequency	Once in a semester on dates specified by University	
Format	-			
Evaluation	Based on answer given in the scripts			
ASSIGNMENT: 3 MARKS				
Objective	To enhance students understanding of a complex structural problems			
Product	Hand written assignment sheets			
Frequency	Semester			
Format	-			
Evaluation	Based on rubrics			
Criteria	No. of assignments: 1, Submit on or before the date of submission			
END SEMESTER EXAMINATION 100 MARKS (Reduced to 75 Marks)				
Objective	To assess the each student's knowledge of the course			
Product	Result analysis			
Frequency	Semester			
Format	Part -A 12x 3=24 marks, Part -B 5 x 7 = 25 marks 10 x 1=10, Total marks = 60, Duration : 2 hours			
Evaluation	Based on answer given in the scripts			
Marks out of 100	30-50 (22-37)	51-70 (38- 52)	71-100 (53-75)	0-50 (0-37)
Levels of attainment	1	2	3	Counseling / Coaching classes.



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COURSE EXIT SURVEY

Dear Students,

We are seeking valuable feedback from you, to improve upon the course contents, coverage, methods of instruction and teaching learning methods of the course you have learned for the semester, kindly rate the process of delivering the syllabus from 1 – 5 scale (5 Excellent, 4-Very good, 3-Good 2-Average, 1-Below average)

Name			Reg No			
Course Code	CSC1C01	Name of Course	COMPUTER FUNDAMENTALS			
Dept	MATHEMATICS	Semester	I	Date		
SI No	Questioners	1	2	3	4	5
1.	Quality of the Course content				✓	
2.	Suitability of Contents beyond syllabus topics				✓	
3.	Relevance of the text& Reference books suggested				✓	
4.	Support of Library for the Course contents				✓	
5.	Course delivery methods by teacher				✓	
6.	Use of ICT tools in class				✓	
7.	Relevance of Syllabus topics for your placement			✓		
8.	Usefulness of the topics for life		✓			
9.	Content stimulates intellectually			✓		
10.	Fairness of the internal evaluation system					✓
11.	Assignments, competitive evaluation methods					✓
12.	Topics covered supported by online resources & LMS				✓	
I am able to achieve the following (Relating to Course outcomes)						
CO1	Understand the knowledge of number systems and data representations.				✓	
CO2	Apply Boolean algebra to simplify logical expressions.			✓		
CO3	Analyze CPU performance metrics and their impact on system efficiency.			✓		
CO4	Evaluate I/O systems and their impact on overall computer performance.			✓		

CC5	Create and develop algorithms and corresponding flowcharts for real world problems.			✓		
Inclusions		Suggestions for		Deletion of topics		

Signature of the Student

[Signature]

Class Advisor

[Signature]

HoD

[Signature]

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Attainment Levels of COs

Course Name: CSCIC01- Computer Fundamentals				
Assessment Methods	Target-Attainment Levels			Attainment
Internal Assessment	Level 1	50% of students scoring more than 35% marks in internal assessment tools		LEVEL 03
	Level 2	60% of students scoring more than 35% marks in internal assessment tools		
	Level 3	70% of students scoring more than 35% marks in internal assessment tools		
Assessment Methods	Target-Attainment Levels			Attainment
University Assessment	Level 1	50% of students scoring more than 35% marks in UE assessment tools		LEVEL 03
	Level 2	60% of students scoring more than 35% marks in UE assessment tools		
	Level 3	70% of students scoring more than 35% marks in UE assessment tools		



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DEPARTMENT OF MATHEMATICS

CO ATTAINMENT - IA TEST MARKS (ODD SEM. 2023-2024)

Semester: I

Course: CSC1C01- COMPUTER FUNDAMENTALS

Name of the faculty member: JASMINE MT

Sl. No.	Name of the student	REG NO	IA TEST	COURSE OUTCOMES	
			Q1 TO Q14	IA TEST	
			CO1 TO CO5	CO1 TO CO5	
Max. Marks			30	%age	Y/N
1	ANEENA.K.P	UFAXSMT001	27	90	Y
2	ASNA SHERIN V T	UFAXSMT002	24	80	Y
3	AYISHA HANNA C K	UFAXSMT003	24	80	Y
4	FATHIMA FIDHA K	UFAXSMT004	30	100	Y
5	FATHIMA MINNATH K	UFAXSMT005	28	93	Y
6	FATHIMA NASNA V T.	UFAXSMT006	30	100	Y
7	FATHIMA SHIFA. M.K	UFAXSMT007	28	93	Y
8	FATHIMA THAMJEEDA	UFAXSMT008	28	93	Y
9	FIDA PK	UFAXSMT009	29	97	Y
10	FIDHA V	UFAXSMT010	28	93	Y
11	HAFLA. T. K	UFAXSMT011	30	100	Y
12	MUFEEDA SHIFA. M.P	UFAXSMT012	18	60	Y
13	NUBLA SHANA . P	UFAXSMT013	28	93	Y
14	RABEEBA K P	UFAXSMT014	27	90	Y
15	RASHA JALEEL P	UFAXSMT015	22	73	Y
16	RISHWANA E K	UFAXSMT016	23	77	Y
17	ABOBACKER NAFIH T T	UFAXSMT017	24	80	Y
18	JAMSHEEDALI.C.P	UFAXSMT018	27	90	Y
19	MOHAMMED AMALSHAN T	UFAXSMT019	22	73	Y
20	MUHAMMAD RISHWAN K	UFAXSMT020	18	60	Y
21	MUHAMMED ANSHIF . T	UFAXSMT021	28	93	Y
22	MUHAMMED SHAHID.V	UFAXSMT022	29	97	Y
23	ANAYA U P	UFAXSMT023	29	97	Y
24	ANJIMA SHAJI	UFAXSMT024	29	97	Y



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DEPARTMENT OF MATHEMATICS

25	ARYA VS	UFAXSMT025	16	53	Y
26	HANEENA K	UFAXSMT026	22	73	Y
27	KRISHNENDHU K	UFAXSMT027	28	93	Y
28	RIYA . P	UFAXSMT028	21	70	Y
29	SWATHIKRISHNA A K	UFAXSMT029	27	90	Y
30	ARJUN.A	UFAXSMT030	7	23	N
31	MUHAMMED AJNAS.K	UFAXSMT031	28	93	Y
				30	
				96.77	
			FOR LAL (CSC1C01)	CO1 to CO5	
			TARGET: 50% C	96.8	



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DEPARTMENT OF MATHEMATICS

CO ATTAINMENT - ASSIGNMENT(ODD SEM. 2023-2024)

Semester: I

Course: CSC1C01 COMPUTER FUNDAMENTALS

Name of the faculty member: JASMINE MT

Sl. No.	Name of the student	REG NO	ASSIGNMENT	SEMINAR	ATTENDANCE	COURSE OUTCOMES				ATTENDANCE	
			CO1 to CO5	CO1 to CO5		CO1 - 5		CO4 - 5		%age	Y/N
		Max. Marks	3	3	3	%age	Y/N	%age	Y/N	%age	Y/N
1	ANEENA.K.P	UFAXSMT001	3	3	2	100	Y	100	Y	66.6667	Y
2	ASNA SHERIN V T	UFAXSMT002	3	3	3	100	Y	100	Y	100	Y
3	AYISHA HANNA C K	UFAXSMT003	3	3	3	100	Y	100	Y	100	Y
4	FATHIMA FIDHA K	UFAXSMT004	3	3	3	100	Y	100	Y	100	Y
5	FATHIMA MINNATH K	UFAXSMT005	3	3	3	100	Y	100	Y	100	Y
6	FATHIMA NASNA V T.	UFAXSMT006	3	3	3	100	Y	100	Y	100	Y
7	FATHIMA SHIFA. M.K	UFAXSMT007	3	3	3	100	Y	100	Y	100	Y
8	FATHIMA THAMJEEDA	UFAXSMT008	3	3	3	100	Y	100	Y	100	Y
9	FIDA PK	UFAXSMT009	3	3	2	100	Y	100	Y	66.6667	Y
10	FIDHA V	UFAXSMT010	3	3	3	100	Y	100	Y	100	Y
11	HAFLA. T. K	UFAXSMT011	3	3	3	100	Y	100	Y	100	Y
12	MUFEEDA SHIFA. M.P	UFAXSMT012	3	3	2	100	Y	100	Y	66.6667	Y
13	NUBLA SHANA . P	UFAXSMT013	3	3	3	100	Y	100	Y	100	Y
14	RABEEBA K P	UFAXSMT014	3	3	3	100	Y	100	Y	100	Y
15	RASHA JALEEL P	UFAXSMT015	3	3	3	100	Y	100	Y	100	Y
16	RISHWANA E K	UFAXSMT016	3	3	3	100	Y	100	Y	100	Y

17	ANUSABACKER NAHAT T T	TEAXNMTR17	3	3	2	100	Y	100	Y	66.6667	Y
18	ANUSSEEMALI CP	TEAXNMTR18	3	3	3	100	Y	100	Y	100	Y
19	ANUSAMMED AMALSHAN T	TEAXNMTR19	3	3	3	100	Y	100	Y	100	Y
20	MR HAMMED KISHORANK	TEAXNMTR20	3	3	2	100	Y	100	Y	66.6667	Y
21	MR HAMMED ANSHEE T	TEAXNMTR21	3	3	3	100	Y	100	Y	100	Y
22	MR HAMMED SHAHEEN V	TEAXNMTR22	3	3	3	100	Y	100	Y	100	Y
23	ANAYA UP	TEAXNMTR23	3	3	3	100	Y	100	Y	100	Y
24	ANUSHA SHAR	TEAXNMTR24	3	3	3	100	Y	100	Y	100	Y
25	ARYA VS	TEAXNMTR25	3	3	3	100	Y	100	Y	100	Y
26	HANSENA K	TEAXNMTR26	3	3	2	100	Y	100	Y	66.6667	Y
27	KANSHINENDRIK	TEAXNMTR27	3	3	3	100	Y	100	Y	100	Y
28	RIYA P	TEAXNMTR28	3	3	3	100	Y	100	Y	100	Y
29	SWATHUKRISHNA A K	TEAXNMTR29	3	3	3	100	Y	100	Y	100	Y
30	ARUNA	TEAXNMTR30	3	3	1	100	Y	100	Y	33.3333	Y
31	MR HAMMED ANASK	TEAXNMTR31	3	3	2	100	Y	100	Y	66.6667	Y
						31		31		31	
						100.00		100.00		100.00	

FOR LAL (CSC1C01)	CO1 TO 5	CO1 TO 5	ATTENDANCE
	100.00	100.00	100.00

TARGET: 1) 90% OF STUDENTS WILL SCORE 35% OF MARKS IN ASSIGNMENT



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DEPARTMENT OF MATHEMATICS
GO ATTAINMENT - FINAL EXAM MARKS (ODD SEM , 2023-2024)

Semester: I

Course: CSC1C01-COMPUTER FUNDAMENTALS

S/A B/A S/E	Name of the student	REG NO	COURSE	GO ATTAINMENT	
			OUTCOMES	CO 1 TO CO5	
			CO 1 TO CO5	CO 1 TO CO5	
		Max. grade point	20	%age	Y/N
1	ANEENA K P	UFAXSMT001	14	70	Y
2	ASNA SHEBIN V T	UFAXSMT002	12	60	Y
3	AYISHA HANNA P K	UFAXSMT003	14	70	Y
4	FATHIMA FATHA K	UFAXSMT004	14	70	Y
5	FATHIMA AMINATH K	UFAXSMT005	16	80	Y
6	FATHIMA NASMA V T	UFAXSMT006	12	60	Y
7	FATHIMA SHEFA ME	UFAXSMT007	14	70	Y
8	FATHIMA THAMBEIDA	UFAXSMT008	14	70	Y
9	FIDA PK	UFAXSMT009	16	80	Y
10	FIDHA V	UFAXSMT010	14	70	Y
11	HAFSA T K	UFAXSMT011	16	80	Y
12	AMFEEIDA SHEFA MP	UFAXSMT012	14	70	Y
13	NOOR A SHANA P	UFAXSMT013	14	70	Y
14	RABEEDA K P	UFAXSMT014	12	60	Y
15	BASHA JALEEL P	UFAXSMT015	14	70	Y
16	RISHWANA K K	UFAXSMT016	12	60	Y
17	ABDOLACKER NAHITH T	UFAXSMT017	10	50	Y
18	JAMSHIEDA L C P	UFAXSMT018	16	80	Y
19	MUHAMMED AMAL SHAH T	UFAXSMT019	12	60	Y
20	MUHAMMAD RISHWAN K	UFAXSMT020	10	50	Y
21	MUHAMMED ANSHIF T	UFAXSMT021	14	70	Y
22	MUHAMMED SHAHID V	UFAXSMT022	12	60	Y
23	ANAYA U P	UFAXSMT023	12	60	Y
24	ANHITA SHAH	UFAXSMT024	14	70	Y
25	ARYA VS	UFAXSMT025	12	60	Y
26	HANEENA K	UFAXSMT026	12	60	Y
27	KRISHNENDHU K	UFAXSMT027	14	70	Y
28	RIVA P	UFAXSMT028	14	70	Y
29	SWATHIKRISHNA A K	UFAXSMT029	14	70	Y
30	ABHIN A	UFAXSMT030	10	50	Y
31	MUHAMMED AJNAB K	UFAXSMT031	12	60	Y

				31
				100.00
		FOR L&L (CSC1C01)	CO1 to CO5	
			100.00	
		TARGET: 75% OF STUDENTS WILL SCORE 35% OF MARKS		



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DEPARTMENT OF MATHEMATICS

DIRECT ASSESSMENT METHOD - CO ATTAINMENT (ODD SEM , 2023-2024)

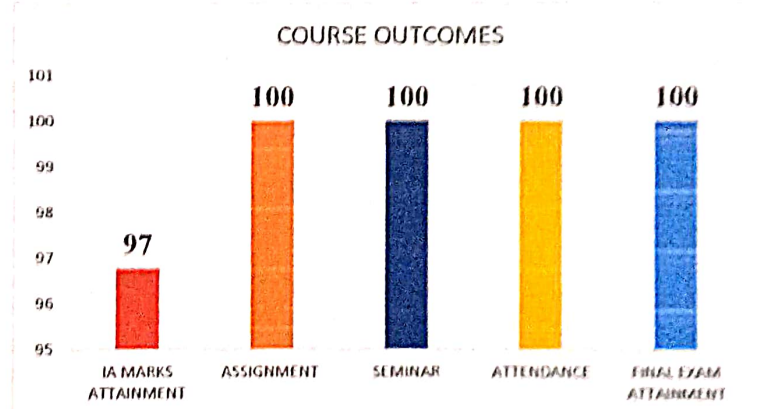
Semester: I

Course: CSC1C01-COMPUTER FUNDAMENTALS

Name of the faculty member: JASMINE MT

TARGET: 60% ATTAINMENT

COs	CO1 to CO5
IA MARKS ATTAINMENT	97
ASSIGNMENT	100
SEMINAR	100
ATTENDANCE	100
FINAL EXAM ATTAINMENT	100
AVERAGE	99





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DEPARTMENT OF MATHEMATICS
COURSE EXIT SURVEY RESPONSES (ODD SEM , 2023-2024)

Semester: I

Course: CSC1C01-COMPUTER FUNDAMENTALS

Name of the faculty member: JASMINE MT

SL No.	NAME OF THE STUDENT	REG NO	Are you able to understand the knowledge of number systems and data representations	Are you able to apply Boolean algebra to simplify logical expressions	Are you able to analyze CPU performance metrics and their impact on system efficiency	Are you able to evaluate I/O systems and their impact on overall computer performance	Are you able to create and develop algorithms and corresponding flowcharts or real world problems
COURSE OUTCOMES			CO1	CO2	CO3	CO4	CO5
1	ANEENA.K.P	UFAXSMT001	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
2	ASNA SHERIN V T	UFAXSMT002	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
3	AYISHA HANNA C K	UFAXSMT003	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
4	FATHIMA FIDHA K	UFAXSMT004	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
5	FATHIMA MDQATH K	UFAXSMT005	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
6	FATHIMA NASNA V.T.	UFAXSMT006	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
7	FATHIMA SHIFA. M.K	UFAXSMT007	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
8	FATHIMA THAMJEEDA	UFAXSMT008	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
9	FIDA PK	UFAXSMT009	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
10	FIDHA V	UFAXSMT010	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
11	HAFILA. T. K	UFAXSMT011	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
12	MUFEEDA SHIFA. M.P	UFAXSMT012	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)

13	NUBLA SHANA . P	UFAXSMT013	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
14	RABEEBA K P	UFAXSMT014	4 (Very Good)	4 (Very Good)	4 (Very Good)	3 (Good)	4 (Very Good)
15	RASHA JALEEL P	UFAXSMT015	4 (Very Good)	4 (Very Good)	4 (Very Good)	3 (Good)	4 (Very Good)
16	RISHWANA E K	UFAXSMT016	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
17	ABOBACKER NAFIH T T	UFAXSMT017	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)
18	JAMSHEEDALI C.P	UFAXSMT018	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
19	MOHAMMED AMALSHAN T	UFAXSMT019	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
20	MUHAMMAD RISHWAN K	UFAXSMT020	4 (Very Good)	4 (Very Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)
21	MUHAMMED ANSHIF . T	UFAXSMT021	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
22	MUHAMMED SHAHID.V	UFAXSMT022	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
23	ANAYA U P	UFAXSMT023	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	3 (Good)
24	ANJIMA SHAJI	UFAXSMT024	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
25	ARYA VS	UFAXSMT025	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)
26	HANEENA K	UFAXSMT026	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)
27	KRISHNENDHU K	UFAXSMT027	4 (Very Good)	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)
28	RIYA . P	UFAXSMT028	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)
29	SWATHIKRISHNA A K	UFAXSMT029	4 (Very Good)	4 (Very Good)	4 (Very Good)	3 (Good)	4 (Very Good)
30	ARJUN.A	UFAXSMT030	4 (Very Good)	3 (Good)	3 (Good)	1 (Fair)	1 (Fair)
31	MUHAMMED AJNAS.K	UFAXSMT031	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	3 (Good)	5 (EXCELLENT)
	No. of graded "0"	0	0	0	0	0	0
	No. of graded "1"	0	0	0	1	1	1
	No. of graded "2"	0	0	0	0	0	0
	No. of graded "3"	0	2	2	9	4	4

No. of graded "4"	14	13	20	12	9
No. of graded "5"	17	16	9	9	17

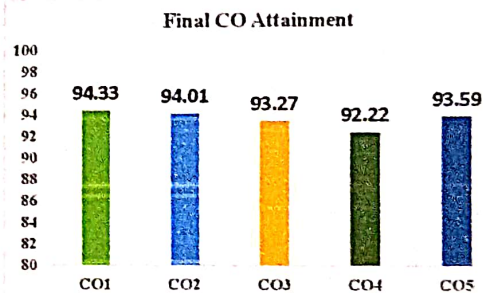


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DEPARTMENT OF MATHEMATICS
COURSE EXIT SURVEY RESPONSES (ODD SEM, 2023-2024)

Semester: I			Course: CSC1C01-COMPUTER FUNDAMENTALS									
Name of the faculty member: JASMINE MT			No. of students given the ratings						Total Responses	Weighted Average	CO Max. Count	%age CO attainment
CO No.	CO description	Course Exit Survey Questions	0	1	2	3	4	5				
CO1	Understand the knowledge of number systems and data representations.	Are you able to understand the knowledge of number systems and data representations	0	0	0	0	14	17	31	3.71	5	74.21
CO2	Apply Boolean algebra to simplify logical expressions.	Are you able to apply Boolean algebra to simplify logical expressions	0	0	0	2	13	16	31	3.63	5	72.63
CO3	Analyze CPU performance metrics and their impact on system efficiency.	Are you able to analyze CPU performance metrics and their impact on system efficiency	0	0	0	2	20	9	31	3.45	5	68.95
CO4	Evaluate I/O systems and their impact on overall computer performance.	Are you able to evaluate I/O systems and their impact on overall computer performance	0	1	0	9	12	9	31	3.18	5	63.68
CO5	Create and develop algorithms and corresponding flowcharts or real world problems.	Are you able to create and develop algorithms and corresponding flowcharts or real world problems	0	1	0	4	9	17	31	3.53	5	70.53

CO Assessment method	CO1	CO2	CO3	CO4	CO5
Direct method (IA Test, Assignment/quiz and exam)	99	99	99	99	99
Weightage (80%)	79	79	79	79	79
Indirect method (Course Exit Survey)	74.21	72.63	68.95	63.68	70.53
Weightage (20%)	14.84	14.53	13.79	12.74	14.11
Final CO Attainment	94.33	94.01	93.27	92.22	93.59





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DEPARTMENT OF MATHEMATICS
CO-PO-PSO MAPPING (ODD SEM . 2023-2024)

Semester: I

Course: CSC1C01- COMPUTER FUNDAMENTALS

Name of the faculty member: JASMINE MT

(I) CO Attainment

A: Direct assessment (80%)-Tests, Assignment, Examination

B: Indirect assessment (20%)-Course end survey

COs	Mapping of POs	Mapping of PSOs	Direct Assessment	Indirect Assessment	Overall Attainment	Target (%)	Attainment
			(a)	(b)	0.8 (a) + 0.2(b)		
CO1	PO1, PO3, PO4 & PO8	PSO1 & PSO2	99	74.21	94	75	YES
CO2	PO1, PO3, PO4, PO5, PO7, PO8 & PO9	PSO1, PSO2, PSO3 & PSO6	99	72.63	94		
CO3	PO1, PO3, PO4, PO5, PO8 & PO9	PSO1 & PSO2	99	68.95	93		
CO4	PO1, PO3, PO4, PO5, PO8 & PO9	PSO1 & PSO2	99	63.68	92		
CO5	PO1, PO3, PO4, PO5, PO7 & PO8	PSO1, PSO2, PSO3, PSO5 & PSO6	99	70.53	94		

FACULTY

[Signature]

HOD

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PRINCIPAL

