

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	CSC3C03- PROBLEM SOLVING USING C		
Class	BSC MATHEMATICS	Semester	THREE
Regulation	2019	Academic year	2023-24
Course prerequisites	Background of the basic science at +2 level		
Course objectives	To learn the concepts of programming.		
	To learn the C language		

COURSE OUTCOMES

At the end of the course the student would be able to...

CO1	Understand and describe the basics of the C programming language.
CO2	Apply C programming constructs to solve simple problems..
CO3	Analyze and debug C programs for errors and efficiency.
CO4	Evaluate and use functions , pointers and arrays in C programming.
CO5	Create and develop comprehensive C programs for real world applications.

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.		✓	✓		✓



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Graduates will be equipped with core values and intellectual capabilities, enabling them to pursue lifelong learning and 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.		✓			✓
TEXT BOOKS: 1. E Balagurusamy, Programming in Ansi C, Tata McGraw Hill					
REFERENCES: 2. ByranGotfried, Programming with C, Schaum Series 3. Kezningham&Ritchie, Programming in C 4. YashvantKanetkar, Let us C, BPB publications 5. Mullish Cooper, The spirit of C, Jasco books 6. Herbert Schildt, The Complete reference C, Tata McGraw Hill					
e-learning resources	https://www.geeksforgeeks.org/c-programming-language/				
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- CSC3C03- PROBLEM SOLVING USING C

No of lecture hours	Planned Date	Topics to be covered			Reference/ Teaching aids and methods	Actual date	Week ly review
MODULE I - Introduction to C							
1	07-08-2023	Structure of C program, Character Set			WB/T	8/8/23	
2	08-08-2023	Keywords, Identifiers, Data Types			WB/T	8/8/23	
3	08-08-2023	Qualifiers, Variables, Declarations			WB/T	17/8/23	
4	09-08-2023	Symbolic Constants, Expressions, Statements			WB/T	21/8/23	
5	10-08-2023	Different Types of Operators- Arithmetic, Logical, Relational & Equality operators			WB/T	28/8/23	
6	14-08-2023	Unary and Conditional operators, Operator Precedence and Associativity			WB/T	18/9/23	
7	16-08-2023	Library Functions, Comments			WB/T	20/9/23	
8	17-08-2023	I/O functions-Formatted scanf() & printf()			WB/T	20/9/23	
9	21-08-2023	getchar (), putchar (), getche(), gets(), puts()			WB/T	21/9/23	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		Review by Principal	
9	9	21/9/24					
MODULE II - Control Statements							
10	23-08-2023	Control Statements			WB/T	23/9/23	
11	24-08-2023	Selection Statements			WB/T	24/9/23	
12	04-09-2023	if, if-else			WB/T	27/9/23	
13	07-09-2023	else if ladder, switch			WB/T	3/10/23	
14	11-09-2023	Iteration statements			WB/T	4/10/23	
15	13-09-2023	while, do while			WB/T	4/10/23	
16	14-09-2023	for			WB/T	5/10/23	
17	18-09-2023	jumping (goto, break, continue)			WB/T	5/10/23	
18	20-09-2023	Nested Control Statements			WB/T	5/10/23	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		Review by Principal	
9	8	5/10/23					
MODULE III - Structured Data types							
19	21-09-2023	Structured Data types			WB/PPT	12/10/23	
20	25-09-2023	Arrays			WB/PPT	16/10/23	
21	28-09-2023	One dimensional arrays			WB/PPT	18/10/23	
22	04-10-2023	Two Dimensional arrays			WB/PPT	19/10/23	
23	05-10-2023	Character Functions			WB/PPT	25/10/23	



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24	09-10-2023	String Functions			W/PPT	9/11/23	
25	11-10-2023	Structure			W/PPT	13/11/23	
26	12-10-2023	Definition, Processing			W/PPT	14/11/23	
27	16-10-2023	period Operator			W/PPT	14/11/23	
28	18-10-2023	Union			W/PPT	15/11/23	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		Review by Principal	
10	10	15/11/23					
MODULE IV - User defined Functions							
29	19-10-2023	User defined Functions			WB/T	29/11/23	
30	23-10-2023	Advantages, Definition			WB/T	30/11/23	
31	25-10-2023	Accessing functions			WB/T	30/11/23	
32	26-10-2023	formal and Actual Parameters			WB/T	4/12/23	
33	30-10-2023	Recursion			WB/T	13/12/23	
34	01-11-2023	Storage Classes			PPT	11/12/23	
35	02-11-2023	Automatic			PPT/WB	12/12/23	
36	06-11-2023	External			PPT/WB	12/12/23	
37	08-11-2023	Static and Register Variable			PPT/WB	13/12/23	
38	09-11-2023	Argument Passing Mechanism			PPT/WB	12/12/23	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		Review by Principal	
10	10	17/12/23					
MODULE V - Pointers and data files							
39	13-11-2023	Pointers			WB/T	16/11/23	
40	15-11-2023	advantages			WB/T	16/11/23	
41	16-11-2023	declaration			WB/T	16/11/23	
42	20-11-2023	operations on pointers			WB/T	20/11/23	
43	22-11-2023	pointers and one dimensional arrays			WB/T	23/11/23	
44	23-11-2023	dynamic memory allocation			WB/T	27/11/23	
45	27-11-2023	Data files (sequential)			WB/T	13/12/23	
46	29-11-2023	file handling functions			WB/T	13/12/23	
47	30-11-2023	fopen(), fclose()			WB/T	21/12/23	
48	04-12-2023	fputc(), fgetc(), fgets(), fputs()			WB/T	21/12/23	
49	06-12-2023	fscanf(), printf()			WB/T	21/12/23	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		Review by Principal	
11	10	21/12/23					

FACULTY

HOD

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

PRINCIPAL
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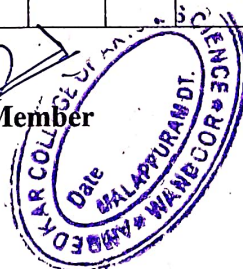
Course outcome –Program outcome Mapping Table

CSC3C03- PROBLEM SOLVING USING C		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 and describe the basics of the C programming language.	Rememb er	3		2	1	2					
CO2	Apply C programming constructs to solve simple problems..	Apply	3		3	2	3		2	1		
CO3	Analyze and debug C programs for errors and efficiency.	Apply & Analyze	2		2	3	2					
CO4	Evaluate and use functions , pointers and arrays in C programming.	Create	2		1	2						
CO5	Create and develop comprehensive C programs for real world applications.	Innovate	3		3	3	3		2	1		
INDIRECT METHOD												
Class Room contests		Analyze & Create	1		3	2		1	2	1		

Course Faculty

IQAC Member

HoD



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



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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)
CO1	Understand and describe the basics of the C programming language.				✓
CO2	Apply C programming constructs to solve simple problems..				✓
CO3	Analyze and debug C programs for errors and efficiency.				✓
CO4	Evaluate and use functions , pointers and arrays in C programming.				✓
CO5	Create and develop comprehensive C programs for real world applications.				✓

Name of the student:

Signature of the student

Muhammed Sivasu



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Syllabus

UNIT I [9 T+7L]

Introduction to C- Structure of C program, Character Set, Keywords, Identifiers, Data Types, Qualifiers, Variables, Declarations, Symbolic Constants, Expressions, Statements, Different Types of Operators (Arithmetic, Logical, Relational & Equality, Unary and Conditional), Operator Precedence and Associativity, Library Functions, Comments, I/O functions- (Formatted scanf() & printf(), getchar (), putchar (), getch(), gets(), puts())

UNIT II [9 T+7L]

Control Statements- Selection Statements (if, if-else, else if ladder, switch), iteration (while, do while, for), jumping (goto, break, continue), Nested Control Statements

UNIT III [10 T+6L]

Structured Data types - Arrays (One dimensional and Two Dimensional), Character and String Functions, Structure (Definition, Processing-period Operator), Union

UNIT IV [10 T+6L]

User defined Functions - Advantages, Definition, Accessing functions, formal and Actual Page 114 of 122 BSc. Computer Science (Academic Year 2019-20 Onwards) 114 | Page Board of Studies UG | Computer Science & Applications | University of Calicut Parameters, Recursion, Storage Classes- Automatic, External, Static and Register Variable, Argument Passing Mechanism

UNIT V [11T+6L]

Pointers and data files- Pointers, advantages, declaration, operations on pointers, pointers and one dimensional arrays, dynamic memory allocation. Data files (sequential), file handling functions (fopen(), fclose(), fputc(), fgetc(), fgets(), fputs(), fscanf(), printf())

Text Book:

1. E Balagurusamy, Programming in Ansi C, Tata McGraw Hill

References:

1. ByranGotfried, Programming with C, Schaum Series
2. Kezningham&Ritchie, Programming in C
3. YashvantKanetkar, Let us C, BPB publications
4. Mullish Cooper, The spirit of C, Jasco books
5. Herbert Schildt, The Complete reference C, Tata McGraw Hill

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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

SHARSHAD AMEERA.U
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DIRECT ASSESSMENT OF COURSE OUTCOMES

INTERNAL ASSESSMENT TEST30 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 12 x 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	0-50 (22-37)	51-70 (38- 52)	71-100 (53-75)	0-50 (0-37)
Levels of attainment	1	2	3	Counseling / Coaching classes.

Attainment Levels of COs

Course Name: CSC3C03- PROBLEM SOLVING USING C			
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: III

Course: CSC3C03- PROBLEM SOLVING USING C

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	%ago	Y/N
1	ADLA.P	UFAWSMT001	30	100	Y
2	DILSHA.AP	UFAWSMT003	23	77	Y
3	HIBA SHERIN.MK	UFAWSMT005	19	63	Y
4	HUSNA SHERIN.K	UFAWSMT006	30	100	Y
5	MUFEEDA	UFAWSMT007	25	83	Y
6	RINSHA.TP	UFAWSMT008	24	80	Y
7	RISVANA SHERIN.A	UFAWSMT009	28	93	Y
8	SAHANA MUMTHAZ	UFAWSMT010	22	73	Y
9	SANA.MT	UFAWSMT011	27	90	Y
10	SANA.VK	UFAWSMT012	23	77	Y
11	SANEEBA.K	UFAWSMT013	22	73	Y
12	SHAHMA.CH	UFAWSMT014	15	50	Y
13	SHIFNA SHARIN	UFAWSMT016	30	100	Y
14	FAYIZ.C	UFAWSMT017	22	73	Y
15	MOHAMMED SWALIH.C	UFAWSMT018	18	60	Y
16	MUHAMMED SINAN.SV	UFAWSMT019	29	97	Y
17	SHAHID IRFAN.TP	UFAWSMT020	19	63	Y
18	ARYA.VR	UFAWSMT021	24	80	Y
19	ASNA RUBA.K	UFAWSMT022	22	73	Y
20	FATHIMA RANNA.T	UFAWSMT024	30	100	Y
21	HANNA MOL	UFAWSMT025	17	57	Y
22	HARSHA MOHANDAS.CM	UFAWSMT026	10	33	N
23	IRFANA SHERIN KALLINGAL	UFAWSMT027	13	43	Y



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DEPARTMENT OF MATHEMATICS

24	MANYA.P	UFAWSMT028	24	80	Y
25	MINNA.P	UFAWSMT029	25	83	Y
26	RINSHA.V	UFAWSMT030	25	83	Y
27	RISHIKA.PK	UFAWSMT031	12	40	Y
28	SARANYA.KN	UFAWSMT032	24	80	Y
29	SHIFNA SHERI.K	UFAWSMT033	15	50	Y
30	ABHINAV.P	UFAWSMT034	14	47	Y
31	AKSHAY RAJ.K	UFAWSMT035	9	30	N
32	MAQBOOL RAASI.PM	UFAWSMT037	19	63	Y
33	SIBIL.V	UFAWSMT038	16	53	Y
34	VISHNU.C	UFAWSMT039	9	30	N
35	MASHBOOBA S V	UFAWSMT040	10	33	N
				31	
				88.57	
		FOR LAL (CSC3C03)	CO1 to CO5		
		TARGET: 50% OF STUDENTS	88.6		



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DEPARTMENT OF MATHEMATICS
CO ATTAINMENT - ASSIGNMENT(ODD SEM. 2023-2024)

Semester: III

Course: CSC3C03 PROBLEM SOLVING USING C

Name of the faculty member: JASMINE MT

Name of the faculty member: _____											
SASMINA IIT											
Sl. No.	Name of the student	REG NO	ASSIGNMENT	SEMINAR	ATTENDANCE	COURSE OUTCOMES				ATTENDANCE	
			CO1 to CO5	CO1 to CO5		CO1 - 5		CO1 - 5			
Max. Marks			3	3	3	%age	Y/N	%age	Y/N	%age	Y/N
1	ADLA.P	UFAWSMT001	3	3	3	100	Y	100	Y	100	Y
2	DILSHA.AP	UFAWSMT003	3	3	3	100	Y	100	Y	100	Y
3	HIBA SHERIN.MK	UFAWSMT005	3	3	2	100	Y	100	Y	66.6667	Y
4	HUSNA SHERIN.K	UFAWSMT006	3	3	3	100	Y	100	Y	100	Y
5	MUFEEDA	UFAWSMT007	3	3	3	100	Y	100	Y	100	Y
6	RINSHA.TP	UFAWSMT008	3	3	3	100	Y	100	Y	100	Y
7	RISVANA SHERIN.A	UFAWSMT009	3	3	2	100	Y	100	Y	66.6667	Y
8	SAHANA MUMTHAZ	UFAWSMT010	3	3	3	100	Y	100	Y	100	Y
9	SANA.MT	UFAWSMT011	3	3	3	100	Y	100	Y	100	Y
10	SANA.VK	UFAWSMT012	3	3	3	100	Y	100	Y	100	Y
11	SANEEBA.K	UFAWSMT013	3	3	3	100	Y	100	Y	100	Y
12	SHAHMA.CH	UFAWSMT014	3	3	3	100	Y	100	Y	100	Y
13	SHIFNA SHARIN	UFAWSMT016	3	3	3	100	Y	100	Y	100	Y
14	FAYIZ.C	UFAWSMT017	3	3	3	100	Y	100	Y	100	Y
15	MOHAMMED SWALIH.C	UFAWSMT018	3	3	3	100	Y	100	Y	100	Y
16	MUHAMMED SINAN.SV	UFAWSMT019	3	3	3	100	Y	100	Y	100	Y

17	SHAHID IRFAN.TP	UFAW5MT020	3	3	2	100	Y	100	Y	66.6667	Y
18	ARYA.VR	UFAW5MT021	3	3	3	100	Y	100	Y	100	Y
19	ASNA RUBA.K	UFAW5MT022	3	3	3	100	Y	100	Y	100	Y
20	FATHIMA RANNA.T	UFAW5MT024	3	3	3	100	Y	100	Y	100	Y
21	HANNA MOL	UFAW5MT025	3	3	3	100	Y	100	Y	100	Y
22	HARSHA MOHANDAS.CM	UFAW5MT026	3	3	3	100	Y	100	Y	100	Y
23	IRFANA SHERIN KALLINGAL	UFAW5MT027	3	3	3	100	Y	100	Y	100	Y
24	MANYA.P	UFAW5MT028	3	3	3	100	Y	100	Y	100	Y
25	MINNA.P	UFAW5MT029	3	3	2	100	Y	100	Y	66.6667	Y
26	RINSHA.V	UFAW5MT030	3	3	3	100	Y	100	Y	100	Y
27	RISHIKA.PK	UFAW5MT031	3	3	3	100	Y	100	Y	100	Y
28	SARANYA.KN	UFAW5MT032	3	3	3	100	Y	100	Y	100	Y
29	SHIFNA SHERI.K	UFAW5MT033	3	3	3	100	Y	100	Y	100	Y
30	ABHINAV.P	UFAW5MT034	3	3	2	100	Y	100	Y	66.6667	Y
31	AKSHAY RAJ.K	UFAW5MT035	3	3	3	100	Y	100	Y	100	Y
32	MAQBOOL RAASI.PM	UFAW5MT037	3	3	3	100	Y	100	Y	100	Y
33	SIBIL.V	UFAW5MT038	3	3	2	100	Y	100	Y	66.6667	Y
34	VISHNU.C	UFAW5MT039	3	3	2	100	Y	100	Y	66.6667	Y
35	MASHBOOBA S V	UFAW5MT040	3	3	2	100	Y	100	Y	66.6667	Y
						35		35		35	
						100.00		100.00		100.00	

FOR LAL (CSC3C03)	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
CO ATTAINMENT - FINAL EXAM MARKS (ODD SEM . 2023-2024)

Semester: III

Course: CSC3C03-PROBLEM SOLVING USING C

Sl. No.	Name of the student	REG NO	COURSE OUTCOMES	CO ATTAINMENT	
			CO 1 TO CO5	CO 1 TO CO5	
			Max. Marks	%age	Y/N
1	ADLA.P	UFAWSMT001	68	90.66666667	Y
2	DILSHA.AP	UFAWSMT003	30	40	Y
3	HIBA SHERIN.MK	UFAWSMT005	38	50.66666667	Y
4	HUSNA SHERIN.K	UFAWSMT006	53	70.66666667	Y
5	MUFEEDA	UFAWSMT007	53	70.66666667	Y
6	RINSHA.TP	UFAWSMT008	53	70.66666667	Y
7	RISVANA SHERIN.A	UFAWSMT009	45	60	Y
8	SAHANA MUMTHAZ	UFAWSMT010	53	70.66666667	Y
9	SANA.MT	UFAWSMT011	60	80	Y
10	SANA.VK	UFAWSMT012	45	60	Y
11	SANEEBA.K	UFAWSMT013	53	70.66666667	Y
12	SHAHMA.CH	UFAWSMT014	38	50.66666667	Y
13	SHIFNA SHARIN	UFAWSMT016	45	60	Y
14	FAYIZ.C	UFAWSMT017	45	60	Y
15	MOHAMMED SWALIH.C	UFAWSMT018	45	60	Y
16	MUHAMMED SINAN.SV	UFAWSMT019	53	70.66666667	Y
17	SHAHID IRFAN.TP	UFAWSMT020	38	50.66666667	Y
18	ARYA.VR	UFAWSMT021	53	70.66666667	Y
19	ASNA RUBA.K	UFAWSMT022	60	80	Y
20	FATHIMA RANNA.T	UFAWSMT024	38	50.66666667	Y
21	HANNA MOL	UFAWSMT025	38	50.66666667	Y
22	HARSHA MOHANDAS.CM	UFAWSMT026	38	50.66666667	Y
23	IRFANA SHERIN KALLINGAL	UFAWSMT027	45	60	Y
24	MANYA.P	UFAWSMT028	38	50.66666667	Y
25	MINNA.P	UFAWSMT029	30	40	Y
26	RINSHA.V	UFAWSMT030	38	50.66666667	Y
27	RISHIKA.PK	UFAWSMT031	38	50.66666667	Y
28	SARANYA.KN	UFAWSMT032	45	60	Y
29	SHIFNA SHERI.K	UFAWSMT033	45	60	Y
30	ABHINAV.P	UFAWSMT034	0	0	N

31	AKSHAY RAJ.K	UFAWSMT035	30	40	Y
32	MAQBOOL RAASI.PM	UFAWSMT037	38	50.66666667	Y
33	SIBIL.V	UFAWSMT038	53	70.66666667	Y
34	VISHNU.C	UFAWSMT039	0	0	N
35	MASHBOOBA S V	UFAWSMT040	30	40	Y
				33	
				94.29	
		FOR L&L (CSC3C03)	CO1 to CO5		
			94.29		
		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)

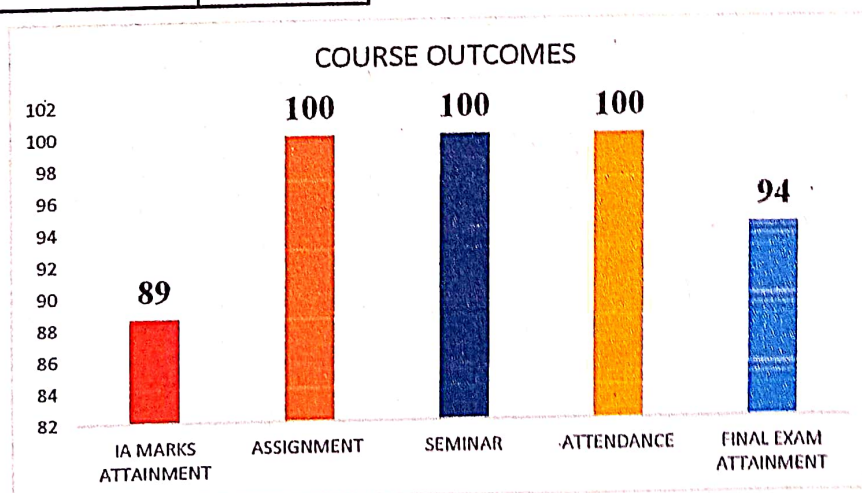
Semester: III

Course: CSC3C03-PROBLEM SOLVING USING C

Name of the faculty member: JASMINE MT

TARGET: 60% ATTAINMENT

COs	CO1 to CO5
IA MARKS ATTAINMENT	89
ASSIGNMENT	100
SEMINAR	100
ATTENDANCE	100
FINAL EXAM ATTAINMENT	94
AVERAGE	97





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

Semester: III

Course: CSC3C03-PROBLEM SOLVING USING C

Name of the faculty member: JASMINE MT

SL No.	NAME OF THE STUDENT	REG NO	Are you able to understand and describe the basics of the C programming language.	Are you able to apply C programming constructs to solve simple problems..	Are you able to analyze and debug C programs for errors and efficiency.	Are you able to evaluate and use functions , pointers and arrays in C programming.	Are you able to create and develop comprehensive C programs for real world applications.
COURSE OUTCOMES			CO1	CO2	CO3	CO4	CO5
1	ADLA.P	UFAWSMT001	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
2	DILSHA.AP	UFAWSMT003	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
3	HIBA SHERIN.MK	UFAWSMT005	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
4	HUSNA SHERIN.K	UFAWSMT006	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
5	MUFEEDA	UFAWSMT007	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
6	RINSHA.TP	UFAWSMT008	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
7	RISVANA SHERIN.A	UFAWSMT009	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
8	SAHANA MUMTHAZ	UFAWSMT010	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
9	SANA.MT	UFAWSMT011	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
10	SANA.VK	UFAWSMT012	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
11	SANEEBA.K	UFAWSMT013	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
12	SHAHMA.CH	UFAWSMT014	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)

13	SHIFNA SHARIN	UFAWSMT016	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
14	FAYIZ.C	UFAWSMT017	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
15	MOHAMMED SWALIH.C	UFAWSMT018	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
16	MUHAMMED SINAN.SV	UFAWSMT019	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
17	SHAHID IRFAN.TP	UFAWSMT020	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
18	ARYA.VR	UFAWSMT021	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
19	ASNA RUBA.K	UFAWSMT022	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
20	FATHIMA RANNA.T	UFAWSMT024	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
21	HANNA MOL	UFAWSMT025	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)
22	HARSHA MOHANDAS.CM	UFAWSMT026	4 (Very Good)	4 (Very Good)	3(Good)	3(Good)	4 (Very Good)
23	IRFANA SHERIN KALLINGAL	UFAWSMT027	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
24	MANYA.P	UFAWSMT028	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
25	MINNA.P	UFAWSMT029	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
26	RINSHA.V	UFAWSMT030	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
27	RISHIKA.PK	UFAWSMT031	4 (Very Good)	4 (Very Good)	4 (Very Good)	3(Good)	3 (Good)
28	SARANYA.KN	UFAWSMT032	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
29	SHIFNA SHERI.K	UFAWSMT033	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
30	ABHINAV.P	UFAWSMT034	4 (Very Good)	2 (Very Fair)	3 (Good)	3 (Good)	2(Very Fair)
31	AKSHAY RAJ.K	UFAWSMT035	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)
32	MAQBOOL RAASI.PM	UFAWSMT037	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)
33	SIBIL.V	UFAWSMT038	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)
34	VISHNU.C	UFAWSMT039	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	2(Very Fair)
35	MASHBOOBA S V	UFAWSMT040	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
No. of graded "0"			0	0	0	0	0
No. of graded "1"			0	0	0	0	0
No. of graded "2"			0	1	0	0	2
No. of graded "3"			0	1	4	5	2
No. of graded "4"			8	12	16	8	12
No. of graded "5"			27	21	15	22	19

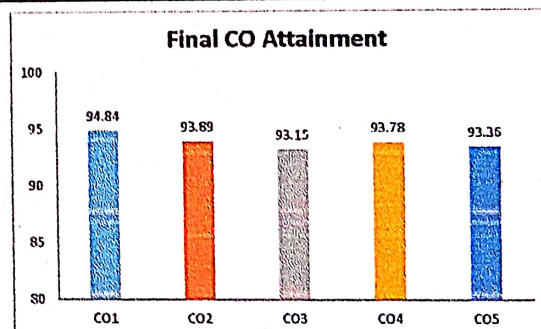


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DEPARTMENT OF MATHEMATICS
COURSE EXIT SURVEY RESPONSES (ODD SEM, 2023-2024)

Semester: III			Course: CSC3C03-PROBLEM SOLVING USING C									
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 and describe the basics of the C programming language.	Are you able to understand and describe the basics of the C programming language.	0	0	0	0	8	27	35	4.39	5	87.89
CO2	Apply C programming constructs to solve simple problems.	Are you able to apply C programming constructs to solve simple problems.	0	0	1	1	12	21	35	4.16	5	83.16
CO3	Analyze and debug C programs for errors and efficiency.	Are you able to analyze and debug C programs for errors and efficiency.	0	0	0	4	16	15	35	3.97	5	79.47
CO4	Evaluate and use functions, pointers and arrays in C programming.	Are you able to evaluate and use functions, pointers and arrays in C programming.	0	0	0	5	8	22	35	4.13	5	82.63
CO5	Create and develop comprehensive C programs for real world applications.	Are you able to create and develop comprehensive C programs for real world applications.	0	0	2	2	12	19	35	4.03	5	80.53

CO Assessment method	CO1	CO2	CO3	CO4	CO5
Direct method (IA Test, Assignment/quiz and exam)	97	97	97	97	97
Weightage (80%)	77	77	77	77	77
Indirect method (Course Exit Survey)	87.89	83.16	79.47	82.63	80.53
Weightage (20%)	17.58	16.63	15.89	16.53	16.11
Final CO Attainment	94.84	93.89	93.15	93.78	93.36





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

Semester: III

Course: CSC3C03-PROBLEM SOLVING USING C

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 & PSO4	97	87.89	95	75	YES
CO2	PO1, PO3, PO4, PO5, PO7 & PO8	PSO1, PSO3, PSO4, PSO5 & PSO6	97	83.16	94		
CO3	PO1, PO3, PO4 & PO5	PSO1, PSO3, PSO4, PSO5 & PSO6	97	79.47	93		
CO4	PO1, PO3 & PO4	PSO1, PSO3 & PSO4	97	82.63	94		
CO5	PO1, PO3, PO4, PO5, PO7 & PO8	PSO1, PSO3, PSO4, PSO5 & PSO6	97	80.53	93		

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HOD

SHARSHAD AMEERA.U
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