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	STA1C01-Introductory statistics		
Class	BSc Mathematics	Semester	I
Regulation	2019	Academic year	2023-2024
Course prerequisites	Basic understanding of mathematics and data concepts is required		
Course objectives	• To understand the role and functions of key statistical organizations in India.		
	• To learn and differentiate various types of data and their applications in analysis		
	• To apply statistical methods for summarizing, interpreting, and analyzing real-world data.		

COURSE OUTCOMES

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

CO1	Describe the functions of various statistical organizations in India, including the CSO and NSO.
CO2	Explain the different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance statistical analysis
CO3	Apply measures of central tendency and dispersion, including mean, median, mode, and standard deviation, to summarize and interpret real- world data sets
CO4	Analyze relationships between variables by constructing and interpreting scatter plots, regression lines, and correlation coefficients
CO5	Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends

MAPPING OF PROGRAM OUTCOMES

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	✓				✓	✓				✓
CO2	✓		✓		✓					
CO3	✓		✓	✓	✓					
CO4	✓		✓	✓	✓					
CO5	✓		✓	✓	✓		✓	✓		

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	Apply statistical methods to analyze and interpret real-world data.
PSO2	Use statistical software for data analysis and visualization.
PSO3	Communicate statistical findings effectively in reports and presentations.

MAPPING OF COURSE OUTCOMES TO PROGRAM EDUCATIONAL OUTCOMES

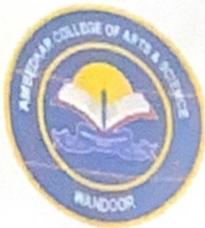| PROGRAM EDUCATIONAL OUTCOMES	COURSE OUTCOMES				
	CO1	CO2	CO3	CO4	CO5
PEO1 Development of Leadership Qualities	✓			✓	✓
PEO2 Lifelong learning and Social contributions	✓	✓	✓		✓
PEO3 Entrepreneurial and Global Competence	✓	✓	✓	✓	✓

References
TEXT BOOKS:
1. Rohatgi V. K. and Saleh, A.K. Md. E. (2009): An Introduction to Probability and Statistics. 2nd Edn. (Reprint) John Wiley and Sons.
2. S.C.Gupta and V. K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand and Sons
REFERENCES:
1. Mood, A.M. Graybill, F.A. and Boes, D.C. (2007): Introduction to the Theory of Statistics, 3rd Edn., (Reprint), Tata McGraw-Hill Pub. Co. Ltd
2. John E Freund, Mathematical Statistics, Pearson Edn, New Delhi
3. Cochran W.G. (1984): Sampling Techniques 3r Ed.), Wiley Eastern

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e-learning resources	Khan Academy – Probability and Statistics
Mode of Evaluation	Internal (15 Marks) End Semester Examination (60)
Faculty	Hima KC, Assistant Professor/ Department of Statistics
e-mail id	himakc2000@gmail.com

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COURSE PLAN -INTRODUCTORY STATISTICS(STA1C01)

No of lecture hours	Planned Date	Topics to be covered				Reference/ Teaching aids and methods	Actual date	Wee ly revi w
		MODULE I - Official Statistics						
1	07/08/2023	The Statistical system in India				T/WB	7-8-23	
2	08/08/2023	The Central and State Government organizations,				T/WB	7-8-23	
3	10/08/2023	functions of the Central Statistical Office (CSO)				T/WB	8-8-23	
4	11/08/2023	National Sample Survey Organization				T/WB	8-8-23	
5	14/08/2023	Department of Economics and Statistics				T/WB	14-8-23	

Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal			
5	5	14/8/25						

		MODULE II – Introduction to Statistics						
1	17/08/2023	Introduction to Statistics:				T/WB	17-08-23	
2	18/08/2023	Nature of Statistics				T/WB	" "	
3	21/08/2023	Uses of Statistics,				T/WB	18-08-23	
4	22/08/2023	Statistics in relation to other disciplines, Abuses of Statistics.				T/WB	" "	
5	24/08/2023	Concept of primary and secondary data				T/WB	21-08-23	
6	25/08/2023	Designing a questionnaire and a schedule.				T/WB	" "	
7	04/09/2023	Concepts of statistical population and sample from a population,				T/WB/PPT	" "	
8	05/09/2023	quantitative and qualitative data, Nominal, ordinal and time series data,				T/WB/PPT	22-08-23	
9	07/09/2023	discrete and continuous data				T/WB/PPT	" "	
10	08/09/2023	Presentation of data by table and by diagrams, frequency distributions by histogram and frequency polygon,				T/WB/PPT	24-08-23	
11	11/09/2023	cumulative frequency distributions (inclusive and exclusive methods) and ogives				T/WB	" "	
12	12/09/2023	Measures of central tendency (mean, median, mode, geometric mean and harmonic mean)				T/WB/PPT	25-08-23	
13	14/09/2023	Measures of central tendency (mean, median, mode, geometric mean and harmonic mean)				T/WB/PPT	04-09-23	
14	15/09/2023	Absolute and relative measures of dispersion				T/WB/PPT	07-09-23	
15	18/09/2023	range, quartile deviation, mean deviation and standard deviation				T/WB/PPT	08-9-23	

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16	19/09/2023	Co-efficient of variation, Box Plot.			T/WB	11-09-23	
17	21/09/2023	Importance of moments			T/WB	14-09-33	
18	25/09/2023	central and non-central moments			T/WB	15-09-23	
19	26/09/2023	Measures of skewness based on quartiles and moments			T/WB	18-09-23	
20	28/09/2023	Measures of skewness based on quartiles and moments			T/WB	19-09-22	
21	05/10/2023	kurtosis based on moments.			T/WB	29-09-23	

Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal		
21	21	5/10/23					

UNIT III - Correlation and Regression

1	06/10/2023	Correlation and Regression			T/WB	05/10/23	
2	09/10/2023	Scatter Plot			T/WB	" "	
3	10/10/2023	Simple correlation			T/WB	06/10/23	
4	12/10/2023	Simple regression			T/WB	" "	
5	13/10/2023	two regression lines			T/WB	16/10/23	
6	16/10/2023	regression coefficients			T/WB	" "	
7	17/10/2023	Fitting of straight line			T/WB	17/10/23	
8	19/10/2023	Fitting of parabola			T/WB	" "	
9	26/10/2023	Fitting of exponential			T/WB	19/10/23	
10	27/10/2023	Fitting of polynomial (least square method)			T/WB	20/10/23	

Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal		
10	10	27/10/23					

MODULE IV - Time Series

1	02/11/2023	Time series: Introduction and examples of time series from various fields,			T/WB	26/10/23	
2	03/11/2023	Components of times series			T/WB	" "	
3	06/11/2023	Additive and Multiplicative models			T/WB	27/10/23	
4	07/11/2023	Additive and Multiplicative models			T/WB	30/10/23	
5	09/11/2023	Trend			T/WB	31/10/23	
6	10/11/2023	Estimation of trend by free hand curve method			T/WB/PPT	" "	
7	13/11/2023	method of semi averages			T/WB/PPT	1/11/23	
8	14/11/2023	method of moving averages			T/WB/PPT	2/11/23	
9	16/11/2023	fitting various mathematical curves			T/WB	" "	
10	17/11/2023	Estimation of seasonal component by Method of simple averages			T/WB	3/11/23	
11	20/11/2023	Ratio to Trend.			T/WB	10/11/23	
12	21/11/2023	Index numbers: Definition, construction of			T/WB	13/11/23	

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		index numbers					
13	23/11/2023	problems theorem for weighted and unweighted index numbers including Laspeyre's, Paasche's, Edgeworth-Marshall and Fisher's.			T/WB	16/11/23	

Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal		
13	13	23/11/23					

FACULTY   HOD   PRINCIPAL

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

PRINCIPAL
AMBEDKAR COLLEGE OF
ARTS & SCIENCE
WANDOOR, MALAPPURAM DT

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Course outcome –Program outcome Mapping Table

STA1C01- Introductory statistics		Cognitive level	Program outcomes 1- Low Correlation 2- Moderate correlation 3- High correlation											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
DIRECT METHOD														
CO1	Describe the functions of various statistical organizations in India, including the CSO and NSO.	Remember	3	1	1	2	2	2	3	2	2	1		
CO2	Explain the different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance statistical analysis	Apply	3	1	1	2	2	2	3	2	1	1		
CO3	Apply measures of central tendency and dispersion, including mean, median, mode, and standard deviation, to summarize and interpret real- world data sets	Apply & Analyze	2	1	3	3	3		3	2	2	1		
CO4	Analyze relationships between variables by constructing and interpreting scatter plots, regression lines, and correlation coefficients	Create	3	3	3	3	3		3	2	1	1		
CO5	Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends	Innovate	2	1	3	3	3		3	2	1	3		
INDIRECT METHOD														
Class Room contests		Analyze & Create	3		1	2			1					

Course Faculty   IQAC Member   HoD SHAHSHAD AMUZKA

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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	Describe the functions of various statistical organizations in India, including the CSO and NSO.				✓
CO2	Explain the different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance statistical analysis			✓	
CO3	Apply measures of central tendency and dispersion, including mean, median, mode, and standard deviation, to summarize and interpret real- world data sets			✓	
CO4	Analyze relationships between variables by constructing and interpreting scatter plots, regression lines, and correlation coefficients				✓
CO5	Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends			✓	
	MAPPING OF PROGRAM OUTCOMES				✓

Name of the student:

fidha Pk

Signature of the student

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Course outcome –Program Specific outcome Mapping Table

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

Course Faculty   IQAC Member   HoD

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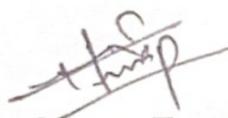Ambedkar College of Arts & Science
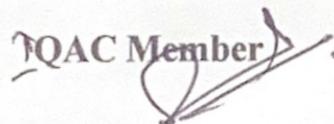Wandoor, Malappuram Dt.

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DIRECT ASSESSMENT OF COURSE OUTCOMES

INTERNAL ASSESSMENT TEST ......MARKS
( )

Objective	To Identify What Students Have Learned and also to identify students strength and weakness		
To file	Answer scripts	**Frequency**	2 times in a semester on dates specified by University
Format	.		
Evaluation	Based on answer given in the scripts		

ASSIG NMENT: .... MARKS

Objective	To enhance students understanding of a complex structural problems
Product	Hand written assignment sheets
Frequency	Monthly or after completing improvement test
Format	Questions from both question papers
Evaluation	Based on rubrics
Criteria	No. of assignments: 3 to 5, Submit on or before the date of submission

END SEMESTER EXAMINATION 75 MARKS (Reduced to 60 Marks)

Objective	**To assess the each student's knowledge of the course**			
Product	Result analysis			
Frequency	Semester			
Format	Part –A =20 marks, Part –B= 30 marks, Part C=10 Marks Total marks = 75, Duration : 2 hours			
Evaluation	Based on answer given in the scripts			
Marks out of 75	22.5-37.5	37.5- 52.5	52.5-75	0-37.5
Levels of attainment	1	2	3	Counseling / Coaching classes.

Attainment Levels of COs

STA1C01-Introductory Statistics

Assessment Methods	Target-Attainment Levels		Attainement
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		Attainement
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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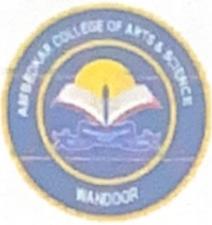acaswandoor@gmail.com, Website: www.ambedkarcollegewdr.in

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

Sem I   Course: STA1C01-Introductory Statistics

Name of the faculty member: HIMA P

Sl. No.	Name of the student	REG NO	IA TEST Q1 TO Q14 CO1 TO CO5	COURSE OUTCOMES IA TEST CO1 TO CO5	
		Max. Marks	30	%age	Y/N
1	ANEENA.K.P	UFAXSMT001	30	100	Y
2	ASNA SHERIN V T	UFAXSMT002	20	67	Y
3	AYISHA HANNA C K	UFAXSMT003	29	97	Y
4	FATHIMA FIDHA K	UFAXSMT004	22	73	Y
5	FATHIMA MINNATH K	UFAXSMT005	28	93	Y
6	FATHIMA NASNA V T.	UFAXSMT006	29	97	Y
7	FATHIMA SHIFA. M.K	UFAXSMT007	27	90	Y
8	FATHIMA THAMJEEDA	UFAXSMT008	23	77	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	23	77	Y
14	RABEEBA K P	UFAXSMT014	28	93	Y
15	RASHA JALEEL P	UFAXSMT015	23	77	Y
16	RISHWANA E K	UFAXSMT016	24	80	Y
17	ABOOBACKER NAFIH T T	UFAXSMT017	23	77	Y
18	JAMSHEEDALI.C.P	UFAXSMT018	30	100	Y
19	MOHAMMED AMALSHAN T	UFAXSMT019	12	40	Y
20	MUHAMMAD RISHWAN K	UFAXSMT020	10	33	N
21	MUHAMMED ANSHIF . T	UFAXSMT021	18	60	Y
22	MUHAMMED SHAHID.V	UFAXSMT022	24	80	Y
23	ANAYA U P	UFAXSMT023	17	57	Y
24	ANJIMA SHAJI	UFAXSMT024	24	80	Y
25	ARYA VS	UFAXSMT025	30	100	Y
26	HANEENA K	UFAXSMT026	23	77	Y
27	KRISHNENDHU K	UFAXSMT027	22	73	Y
28	RIYA . P	UFAXSMT028	29	97	Y
29	SWATHIKRISHNA A K	UFAXSMT029	18	60	Y
31	MUHAMMED AJNAS K		17	57	Y
32	ARJUN A		10	33	N
				30	

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DEPARTMENT OF STATISTICS

FOR LAL (MAT5B08)		96.77
	CO1 to CO5	
TARGET: 50% C	96.8	

DEPARTMENT OF STATISTICS

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

Sem.I

Name of the faculty member: HIMA P

Sl. No.	Name of the student	REG NO	ASSIGNMENT	SEMINAR	ATTENDANCE	COURSE OUTCOMES						ATTENDANCE	
			CO1 to CO5	CO4 to CO5		CO1 - 5		CO4 - 5					Y/N
						%age	Y/N	%age	Y/N		%age		
		Max. Marks	3	3	3	100		100					
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

No	Name	Code										
17	ABOOBACKER NAFIH T T	UFAXSMT017	3	3		2	100	Y	100	Y	66.6667	Y
18	JAMSHEEDALI.C.P	UFAXSMT018	3	3		3	100	Y	100	Y	100	Y
19	MOHAMMED AMALSHAN T	UFAXSMT019	3	3		3	100	Y	100	Y	100	Y
20	MUHAMMAD RISHWAN K	UFAXSMT020	3	3		2	100	Y	100	Y	66.6667	Y
21	MUHAMMED ANSHIF . T	UFAXSMT021	3	3		3	100	Y	100	Y	100	Y
22	MUHAMMED SHAHID.V	UFAXSMT022	3	3		3	100	Y	100	Y	100	Y
23	ANAYA U P	UFAXSMT023	3	3		3	100	Y	100	Y	100	Y
24	ANJIMA SHAJI	UFAXSMT024	3	3		3	100	Y	100	Y	100	Y
25	ARYA VS	UFAXSMT025	3	3		3	100	Y	100	Y	100	Y
26	HANEENA K	UFAXSMT026	3	3		2	100	Y	100	Y	66.6667	Y
27	KRISHNENDHU K	UFAXSMT027	3	3		3	100	Y	100	Y	100	Y
28	RIYA . P	UFAXSMT028	3	3		3	100	Y	100	Y	100	Y
29	SWATHIKRISHNA A K	UFAXSMT029	3	3		3	100	Y	100	Y	100	Y
30	MUHAMMED AJNAS K		3	3		2	100	Y	100	Y	66.6667	Y
31	ARJUN A		3	2		1	100	Y	66.67	Y	33.3333	Y
							31		31		31	
							100.00		100.00		100.00	

	CO1 TO 3	CO4 TO 5	ATTENDANCE
FOR LAL (MTS5B08)	100.00	100.00	100.00

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

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DEPARTMENT OF STATISTICS

CO ATTAINMENT - FIRST SEMESTER EXAM MARKS (ODD SEM . 2023-2024)

Sem.I   Course:STA1C01-Introductory Statistics

S+A 9+A 6-F+	Name of the student	REG NO	COURSE OUTCOM O 1 TO CO	CO ATTAINMENT CO 1 TO CO5	
			Max. Marks: 30	%age	Y/N
1	ANEENA.K.P	UFAXSMT001	18	60	Y
2	ASNA SHERIN V T	UFAXSMT002	18	60	Y
3	AYISHA HANNA C K	UFAXSMT003	21	70	Y
4	FATHIMA FIDHA K	UFAXSMT004	15	50	Y
5	FATHIMA MINNATH K	UFAXSMT005	24	80	Y
6	FATHIMA NASNA V T.	UFAXSMT006	27	90	Y
7	FATHIMA SHIFA. M.K	UFAXSMT007	21	70	Y
8	FATHIMA THAMJEEDA	UFAXSMT008	27	90	Y
9	FIDA PK	UFAXSMT009	18	60	Y
10	FIDHA V	UFAXSMT010	15	50	Y
11	HAFLA. T. K	UFAXSMT011	24	80	Y
12	MUFEEDA SHIFA. M.P	UFAXSMT012	15	50	Y
13	NUBLA SHANA . P	UFAXSMT013	27	90	Y
14	RABEEBA K P	UFAXSMT014	15	50	Y
15	RASHA JALEEL P	UFAXSMT015	18	60	Y
16	RISHWANA E K	UFAXSMT016	21	70	Y
17	ABOOBACKER NAFIH T T	UFAXSMT017	12	40	Y
18	JAMSHEEDALI.C.P	UFAXSMT018	12	40	Y
19	MOHAMMED AMALSHAN T	UFAXSMT019	12	40	Y
20	MUHAMMAD RISHWAN K	UFAXSMT020	12	40	Y
21	MUHAMMED ANSHIF . T	UFAXSMT021	12	40	Y
22	MUHAMMED SHAHID.V	UFAXSMT022	15	50	Y
23	ANAYA U P	UFAXSMT023	15	50	Y
24	ANJIMA SHAJI	UFAXSMT024	21	70	Y
25	ARYA VS	UFAXSMT025	18	60	Y
26	HANEENA K	UFAXSMT026	18	60	Y
27	KRISHNENDHU K	UFAXSMT027	15	50	Y
28	RIYA . P	UFAXSMT028	12	40	Y
29	SWATHIKRISHNA A K	UFAXSMT029	15	50	Y
31	MUHAMMED AJNAS K				
32	ARJUN A				
				29	
				93.55	

		FOR L&L (MTS5B08)	CO1 to CO5		
			93.55		
		TARGET: 75% OF STUDENTS WILL SCORE 35% OF MARKS			

DEPARTMENT OF STATISTICS

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

Semester: I   Course:STA1C01-Introductory Statistics

Name of the faculty member: HIMA P

TARGET: 60% ATTAINMENT

COs	CO1 to CO5
IA MARKS ATTAINMENT	97
ASSIGNMENT	100
SEMINAR	100
ATTENDANCE	100
FINAL EXAM ATTAINMENT	94
AVERAGE	98

COURSE OUTCOMES

AMBEDKAR COLLEGE OF ARTS & SCIENCE, WANDOOR
(Aided by Govt. of Kerala & Affiliated to University of Calicut)
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DEPARTMENT OF STATISTICS

COURSE EXIT SURVEY RESPONSES (ODD SEM . 2023-2024)

Semester: I

Course:STA1C01-Introductory Statistics

Name of the faculty member: HIMA P

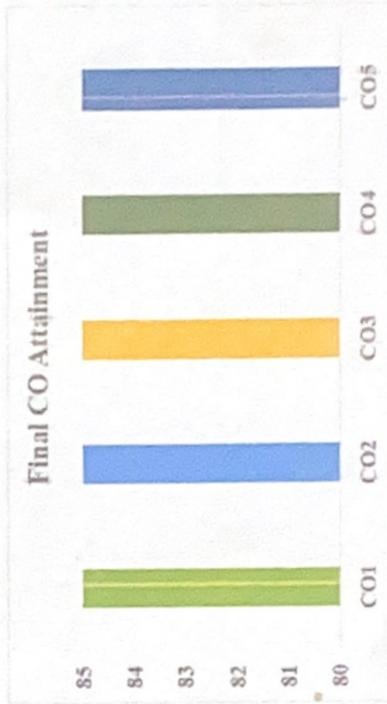| Sl. No.	NAME OF THE STUDENT	REG NO	CO1 — Are you able to Understand functions of various statistical organizations in India, including the CSO and NSO.	CO2 — Are you able to understand different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance statistical analysis	CO3 — Are you able Apply measures of central tendency and dispersion, including mean, median, mode, and standard deviation, to summarize and interpret real-world data sets	CO4 — Are you able to Analyze relationships between variables by constructing and interpreting scatter plots, regression lines, and correlation coefficients	CO5 — Are you able to Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends
COURSE OUTCOMES							
1	ANEENA.K.P	UFAXSMT001	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (Excellent)
2	ASNA SHERIN V T	UFAXSMT002	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (Excellent)	5 (EXCELLENT)
3	AYISHA HANNA C K	UFAXSMT003	4 (Very Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)	4 (Very Good)
4	FATHIMA FIDHA K	UFAXSMT004	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
5	FATHIMA MINNATH K	UFAXSMT005	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
6	FATHIMA NASNA V T.	UFAXSMT006	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
7	FATHIMA SHIFA. M.K	UFAXSMT007	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
8	FATHIMA THAMJEEDA	UFAXSMT008	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
9	FIDA PK	UFAXSMT009	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
10	FIDHA V	UFAXSMT010	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
11	HAFLA. 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)	5 (EXCELLENT)	5 (EXCELLENT)
13	NUBLA SHANA . P	UFAXSMT013	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	3 (Good)	5 (EXCELLENT)
14	RABEEBA K P	UFAXSMT014	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
15	RASHA JALEEL P	UFAXSMT015	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)

No.	Name	ID					
16	RISHWANA E K	UFAXSMT016	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
17	ABOOBACKER NAFIH T T	UFAXSMT017	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
18	JAMSHEEDALI.C.P	UFAXSMT018	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
19	MOHAMMED AMALSHAN T	UFAXSMT019	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
20	MUHAMMAD RISHWAN K	UFAXSMT020	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
21	MUHAMMED ANSHIF . T	UFAXSMT021	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
22	MUHAMMED SHAHID.V	UFAXSMT022	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
23	ANAYA U P	UFAXSMT023	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
24	ANJIMA SHAJI	UFAXSMT024	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)
25	ARYA VS	UFAXSMT025	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
26	HANEENA K	UFAXSMT026	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
27	KRISHNENDHU K	UFAXSMT027	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
28	RIYA . P	UFAXSMT028	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
29	SWATHIKRISHNA A K	UFAXSMT029	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
31	MUHAMMED AJNAS K		5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
32	ARJUN A		4 (Very Good)	4 (Very Good)	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	0	0	0	0
		No. of graded "3"	0	0	1	2	0
		No. of graded "4"	12	12	10	6	9
		No. of graded "5"	19	19	20	23	22

DEPARTMENT OF STATISTICS

COURSE EXIT SURVEY RESPONSES (ODD SEM . 2023-2024)

Semester:1

Name of the faculty member: HIMA P

Course:STA1C01-Introductory Statistics

CO No.	CO description	Course Exit Survey Questions	No. of students given the ratings						Total Responses	Weighted Average	CO Max. Count	%age CO attainment
			0	1	2	3	4	5				
CO1	Describe the functions of various statistical organizations in India, including the CSO and NSO.	Are you able to Understand functions of various statistical organizations in India, including the CSO and NSO.	0	0	0	0	12	19	31	3.76	5	75.26
CO2	Explain the different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance statistical analysis	Are you able to understand different types of data (nominal, ordinal, time series, discrete, and continuous) and their significance statistical analysis	0	0	0	0	12	19	31	3.76	5	75.26
CO3	Apply measures of central tendency and dispersion, including mean, median, mode, and standard median, mode, and standard deviation, to summarize and interpret data	Are you able Apply measures of central tendency, including mean, and standard deviation, to summarize and interpret real- world data	0	0	0	1	10	20	31	3.76	5	75.26
CO4	Analyze relationships between variables by constructing and interpreting scatter plots, regression lines.	Are you able to Analyze relationships between variables by constructing and interpreting scatter plots, regression lines.	0	0	0	2	6	23	31	3.82	5	76.32
CO5	Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends	Are you able to Evaluate time series data using methods like moving averages and seasonal component estimation to make informed decisions based on trends	0	0	0	0	9	22	31	3.84	5	76.84

CO Assessment method	CO1	CO2	CO3	CO4	CO5
Direct method (IA Test, Assignment/quiz and exam)	98	98	98	98	98
Weightage (80%)	78	78	78	78	78
Indirect method (Course Exit Survey)	75.26	75.26	75.26	76.32	76.84
Weightage (20%)	15.05	15.05	15.05	15.26	15.37
Final CO Attainment	93.50	93.50	93.50	93.71	93.82

Final CO Attainment

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DEPARTMENT OF STATISTICS

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

Semester: I

Name of the faculty member: HIMA P

Course:STA1C01-Introductory Statistics

(I) CO Attainment

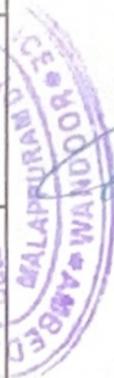A: Direct assessment (80%)-Tests, Assignment, Examination

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

COs	Mapping of POs	Mapping of PSOs	Direct Assessment (a)	Indirect Assessment (b)	Overall Attainment 0.8 (a) + 0.2(b)	Target (%)	Attainment
CO1	PO1, PO3, PO4 & PO9	PSO1, PSO2 & PSO3	98	75.26	94		
CO2	PO1, PO3, PO5 & PO7	PSO1, PSO2 & PSO3	98	75.26	94		
CO3	PO1, PO2, PO3, PO5 & PO9	PSO1, PSO2 & PSO3	98	75.26	94	75	YES
CO4	PO1, PO3, PO4, PO5& PO8	PSO1, PSO2 & PSO3	98	76.32	94		
CO5	PO1, PO4, PO5, PO7 & PO8	PSO1, PSO2 & PSO3	98	76.84	94		

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