AMBEDKAR COLLEGE OF ARTS & SCIENCE, WANDOOR
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COURSE PLAN

Course code and title	**STA1MN101(P)-Descriptive Statistics for Data Science**		
Class	BSc Mathematics	**Semester**	II
Regulation	FYUGP	**Academic year**	2024-2025
Course prerequisites	Students should have a strong foundation in algebra and calculus, including functions, differentiation, and integration. Basic knowledge about descriptive Statistics		
Course objectives	Students will acquire a comprehensive understanding of key statistical concepts; random variable, standard theoretical distributions and sampling distributions.		

COURSE OUTCOMES

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

CO1	**Define random variables and distinguish different types of random variables**
CO2	**Identify discrete and continuous probability function and analyze data to help entrepreneurial decisions using critical thinking skills.**
CO3	**Describe standard theoretical distributions**
CO4	**Discuss various tools for association between the bivariate variables.**
CO5	**Distinguish between a population distribution and a sampling distribution and critically evaluate ethical implications of statistical methods aligning with human values.**

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	Acquire comprehensive understanding of concepts, principles, and theories of Statistics.
PSO2	Apply fundamental concepts of descriptive and inferential Statistics- exploratory data analysis
PSO3	**Master skills in using Statistical Software's to meet the challenges of Employability, Research and Development.**

MAPPING OF COURSE OUTCOMES TO PROGRAM EDUCATIONAL OUTCOMES

PROGRAM EDUCATIONAL OUTCOMES	COURSE OUTCOMES				
	CO1	CO2	CO3	CO4	CO5
PEO1 Core Knowledge and Application	✓	✓	✓	✓	✓
PEO2 Communication and Leadership				✓	
PEO3 Professionalism and Lifelong Learning	✓	✓	✓	✓	✓

References

TEXT BOOKS:

1. Gupta, S. C. and Kapoor, V. K. (2002). Fundamentals of Mathematical Statistics, 11th edition, Sulthan Chand, New Delhi
2. Prem S. Mann (2016), Introductory Statistics 9 th Edition, Wiley
3. 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.

REFERENCES:

1. 4. Neil A. Weiss, Introductory Statistics, 9th Edition ,Addison Wesley Pearson Learning (2011)
2. Mario F Triola, Elementary Statistics using Excel, (2018), 6th edition.

Mode of Evaluation	Internal Examination (30%) End Semester Examination (70%)

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Faculty	**Hima KC, Assistant Professor/** Department of Statistics
e-mail id	himakc2000@gmail.com

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COURSE PLAN -Probability theory I

No of lecture hours	Planned Date	Topics to be covered		Reference/ Teaching aids and methods	Actual date	Weekly review
		MODULE I - DISCRETE RANDOM VARIABLES AND THEIR PROBABILITY DISTRIBUTIONS				
1	04/12/2024	Random Variables- Discrete		T/WB	4-12-24	
2	05/12/2024	Probability mass function, properties and problems		T/WB	5-12-24	
3	09/12/2024	Pmf-problems		T/WB	9-12-24	
4	10/12/2024	Cumulative distribution function and its properties		T/WB	10-12-24	
5	11/12/2024	Mathematical expectation of a random variable,		T/WB	11-12-24	
6	12/12/2024	properties of expectation		T/WB	12-12-24	
7	16/12/2024	Covariance		T/WB	16-12-24	
8	17/12/2024	Moments (definition only),		T/WB	17-12-24	
9	18/12/2024	Moment Generating Function (Definition, Simple problems and Properties (without proof))		T/WB/PPT	18-12-24	
10	19/12/2024	Binomial Distribution (Mean, variance, m.g.f.,Simple Problems)		T/WB/PPT	19-12-24	
11	03/01/2025	Poisson Distribution (Mean, variance, m.g.f.,Simple Problems)		T/WB/PPT	3-1-25	

Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		Review by Principal
11	11	3-1-25				

		MODULE II - CONTINUOUS RANDOM VARIABLES AND THEIR PROBABILITY DISTRIBUTIONS				
1	07/01/2025	Probability density function,		T/WB/PPT	7-1-25	
2	08/01/2025	Pdf-properties		T/WB/PPT	7-1-25	
3	09/01/2025	Pdf-problems		T/WB	8-01-25	
4	10/01/2025	Rectangular distribution-mean		T/WB/PPT	08-1-25	
5	14/01/2025	Rectangular distribution-variance		T/WB/PPT	9-1-25	
6	15/01/2025	Exponential distribution- mean		T/WB	09-1-25	
7	16/01/2025	Exponential distribution--variance		T/WB/PPT	16-1-25	

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8	17/01/2025	Normal Distribution			T/WB/PPT	17-1-25	
9	21/01/2025	Normal Distribution-Mean			T/WB	21-1-25	
10	22/01/2025	Normal Distribution-Variance			T	22-1-25	
11	23/01/2025	Normal Distribution-Moments			T/WB/PPT	23-1-25	
12	24/01/2025	Normal Distribution-mgf			T/WB	24-01-25	
13	28/01/2025	Normal Distribution-Additive property			T/WB/PPT	28-1-25	
14	29/01/2025	Normal Distribution-Area property			T/WB/PPT	29-1-25	
15	30/01/2025	Normal Distribution-Problems			T/WB	30-1-25	
Planned hours	**Actual hours**	**Date**	**Sign of Faculty**	**Review by HoD**		**Review by Principal**	
15	15	30-1-25					
	UNIT III - DESCRIPTIVE METHODS IN CORRELATION AND REGRESSION						
1	04/02/2025	Simple correlation			T/WB	4-2-25	
2	05/02/2025	Simple correlation-problems			T/WB	5-2-25	
3	06/02/2025	Simple regression			T/WB	6-2-25	
4	07/02/2025	Simple regression-problems			T/WB	7-2-25	
5	11/02/2025	Coefficient of determination			T/WB	11-2-25	
6	12/02/2025	Coefficient of determination-Problems			T/WB	12-2-25	
7	13/02/2025	Curve linear regression			T/WB	13-2-25	
8	14/02/2025	Curve linear regression-problems			T/WB	14-2-25	
Planned hours	**Actual hours**	**Date**	**Sign of Faculty**	**Review by HoD**		**Review by Principal**	
8	8	14-2-25					
	MODULE IV -SAMPLING DISTRIBUTIONS						
1	18/02/2025	Parameter and Statistic,			T/WB	18-2-25	
2	19/02/2025	sampling distribution,			T/WB	19-2-25	
3	20/02/2025	Standard error.			T/WB	20-2-25	
4	21/02/2025	Standard error-Problems			T/WB	21-2-25	
5	25/02/2025	Distribution of sample mean			T/WB/PPT	25-2-25	
6	27/02/2025	Chi- square distribution			T/WB	27-2-25	
7	05/03/2025	Chi- square distribution-mean			T/WB	05-3-25	
8	06/03/2025	Chi- square distribution-variance			T/WB/PPT	6-3-25	
9	07/03/2025	Chi- square distribution-mgf, Additive property			T/WB	7-3-25	
10	12/03/2025	F,t Distribution			T/WB	12-3-25	
Planned hours	**Actual hours**	**Date**	**Sign of Faculty**	**Review by HoD**		**Review by Principal**	
10	10						

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FACULTY HOD PRINCIPAL

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

Ambedkar College of Arts & Science Wandoor

Course outcome –Program outcome Mapping Table

BCM4C04 QUANTITATIVE TECHNIQUES FOR BUSINESS		Cognitive level	Program outcomes 1- Moderate Correlation 2- High correlation											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
DIRECT METHOD														
CO1	Define random variables and distinguish different types of random variables	Remember	2		1	1	1			1				
CO2	Identify discrete and continuous probability function and analyze data to help entrepreneurial decisions using critical thinking skills.	Apply	2		2	2	2		2	1				
CO3	Describe standard theoretical distributions	Apply & Analyze	2	1	2	2	2		1	1	1			
CO4	Discuss various tools for association between the bivariate variables.	Create	1	2	1	1	1	1		1		1		
CO5	Distinguish between a population distribution and a sampling distribution and critically evaluate ethical implications of statistical methods aligning with human values.	Innovate	2		1	1	2	2	1	1				
INDIRECT METHOD														
Class Room contests		Analyze & Create	1					1	2					2

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	**Define random variables and distinguish different types of random variables**	4			
CO2	**Identify discrete and continuous probability function and analyze data to help entrepreneurial decisions using critical thinking skills.**				1
CO3	**Describe standard theoretical distributions**				1
CO4	**Discuss various tools for association between the bivariate variables.**				1
CO5	**Distinguish between a population distribution and a sampling distribution and critically evaluate ethical implications of statistical methods aligning with human values.**				1

Name of the student: Thanha Fathima

Signature of the student Thanha

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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 **QAC Member** **HoD**

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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 100 MARKS (Reduced to 80Marks)				
Objective	**To assess the each student's knowledge of the course**			
Product	Result analysis			
Frequency	Semester			
Format	Part –A 10 x 2 =20 marks, Part –B 5 x 16 = 80 marks, Total marks = 100, Duration : 3hours			
Evaluation	Based on answer given in the scripts			
Marks out of 100	30-50	50- 70	71-100	0-50
Levels of attainment	1	2	3	Counseling / Coaching classes.

Attainment Levels of COs

STA2MN101(P)-Probability Theory 1			
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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DEPARTMENT OF STATISTICS

CO ATTAINMENT - IA TEST MARKS (EVEN SEM. 2024-2025)

SemII STA2MN101(P)-Probability Theory 1

Name of the faculty member: HIMA KC

Sl. No.	Name of the student	REG NO	IA TEST Q1 TO Q14 CO1 TO CO5	COURSE OUTCOMES IA TEST CO1 TO CO5 %age	Y/N
		Max. Marks	30		
1	ASHIQA EP	UFAYBCM011	12	40	Y
2	JABINSHA M	UFAYAEG030	12	40	Y
3	JASLA M	UFAYAEG031	18	60	Y
4	LINU FALILA K	UFAYAEG033	12	40	Y
5	ADITHYA U	UFAYSMT001	18	60	Y
6	AMRITHA . P . T	UFAYSMT002	24	80	Y
7	ANIYA P P	UFAYSMT003	24	80	Y
8	ANUSREE C T	UFAYSMT004	18	60	Y
9	AYISHA NAHRIN CP	UFAYSMT005	30	100	Y
10	FADHIL A K	UFAYSMT006	12	40	Y
11	FIDA MK	UFAYSMT007	30	100	Y
12	HIBA K T	UFAYSMT008	30	100	Y
13	MAHMOOD MUHYUDHEEN CK	UFAYSMT009	12	40	Y
14	MAJIDA SHERIN K K	UFAYSMT010	18	60	Y
15	MUHAMMED ASMIL A P	UFAYSMT011	18	60	Y
16	MUHAMMED FAHIZ T P	UFAYSMT012	12	40	Y
17	MUHAMMED SALIM NK	UFAYSMT013	30	100	Y
18	NAJA NASRIN . P	UFAYSMT014	24	80	Y
19	NIDHA SAFRY M	UFAYSMT015	24	80	Y
20	RABIYATHUL ADHBIYYA	UFAYSMT016	12	40	Y
21	RIFANA K	UFAYSMT017	6	20	N
22	RIHANA K	UFAYSMT018	12	40	Y
23	SHAHANA T P	UFAYSMT019	6	20	N
24	SHIBIYA JEBIN T H	UFAYSMT020	24	80	Y

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25	SULAIKHA FAHMA P	UFAYSMT021	12	40	Y
26	THANHA FATHIMA K	UFAYSMT022	24	80	Y
				24	
				92.00	

FOR LAL (MAT5B08)	CO1 to CO5
TARGET: 50% C	**92.0**

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DEPARTMENT OF STATISTICS

CO ATTAINMENT - ASSIGNEMENT(EVEN SEM. 2024-2025)

Sem.II

Name of the faculty member: HIMA KC

Sl. No.	Name of the student	REG NO	ASSIGNMENT	SEMINAR	COURSE OUTCOMES			
			CO1 to CO5	CO4 to CO5	CO1 - 5		CO4 - 5	
		Max. Marks	2	3	%age	Y/N	%age	Y/N
1	ASHIQA EP	UFAYBCM011	2	3	100	Y	100	Y
2	JABINSHA M	UFAYAEG030	2	3	100	Y	100	Y
3	JASLA M	UFAYAEG031	2	3	100	Y	100	Y
4	LINU FALILA K	UFAYAEG033	2	3	100	Y	100	Y
5	ADITHYA U	UFAYSMT001	2	3	100	Y	100	Y
6	AMRITHA . P . T	UFAYSMT002	2	3	100	Y	100	Y
7	ANIYA P P	UFAYSMT003	2	3	100	Y	100	Y
8	ANUSREE C T	UFAYSMT004	2	3	100	Y	100	Y
9	AYISHA NAHRIN CP	UFAYSMT005	2	3	100	Y	100	Y
10	FADHIL A K	UFAYSMT006	2	3	100	Y	100	Y
11	FIDA MK	UFAYSMT007	2	3	100	Y	100	Y
12	HIBA K T	UFAYSMT008	2	3	100	Y	100	Y
13	MAHMOOD MUHYUDHEEN CK	UFAYSMT009	2	3	100	Y	100	Y
14	MAJIDA SHERIN K K	UFAYSMT010	2	3	100	Y	100	Y
15	MUHAMMED ASMIL A P	UFAYSMT011	2	3	100	Y	100	Y
16	MUHAMMED FAHIZ T P	UFAYSMT012	2	3	100	Y	100	Y

17	MUHAMMED SALIM NK	UFAYSMT013	2	3	100	Y	100	Y
18	NAJA NASRIN . P	UFAYSMT014	2	3	100	Y	100	Y
19	NIDHA SAFRY M	UFAYSMT015	2	3	100	Y	100	Y
20	RABIYATHUL ADHBIYYA	UFAYSMT016	2	3	100	Y	100	Y
21	RIFANA K	UFAYSMT017	2	3	100	Y	100	Y
22	RIHANA K	UFAYSMT018	2	3	100	Y	100	Y
23	SHAHANA T P	UFAYSMT019	2	3	100	Y	100	Y
24	SHIBIYA JEBIN T H	UFAYSMT020	2	3	100	Y	100	Y
25	SULAIKHA FAHMA P	UFAYSMT021	2	3	100	Y	100	Y
26	THANHA FATHIMA K	UFAYSMT022	2	3	100	Y	100	Y
					26		26	
					100.00		**100.00**	

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

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

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DEPARTMENT OF STATISTICS

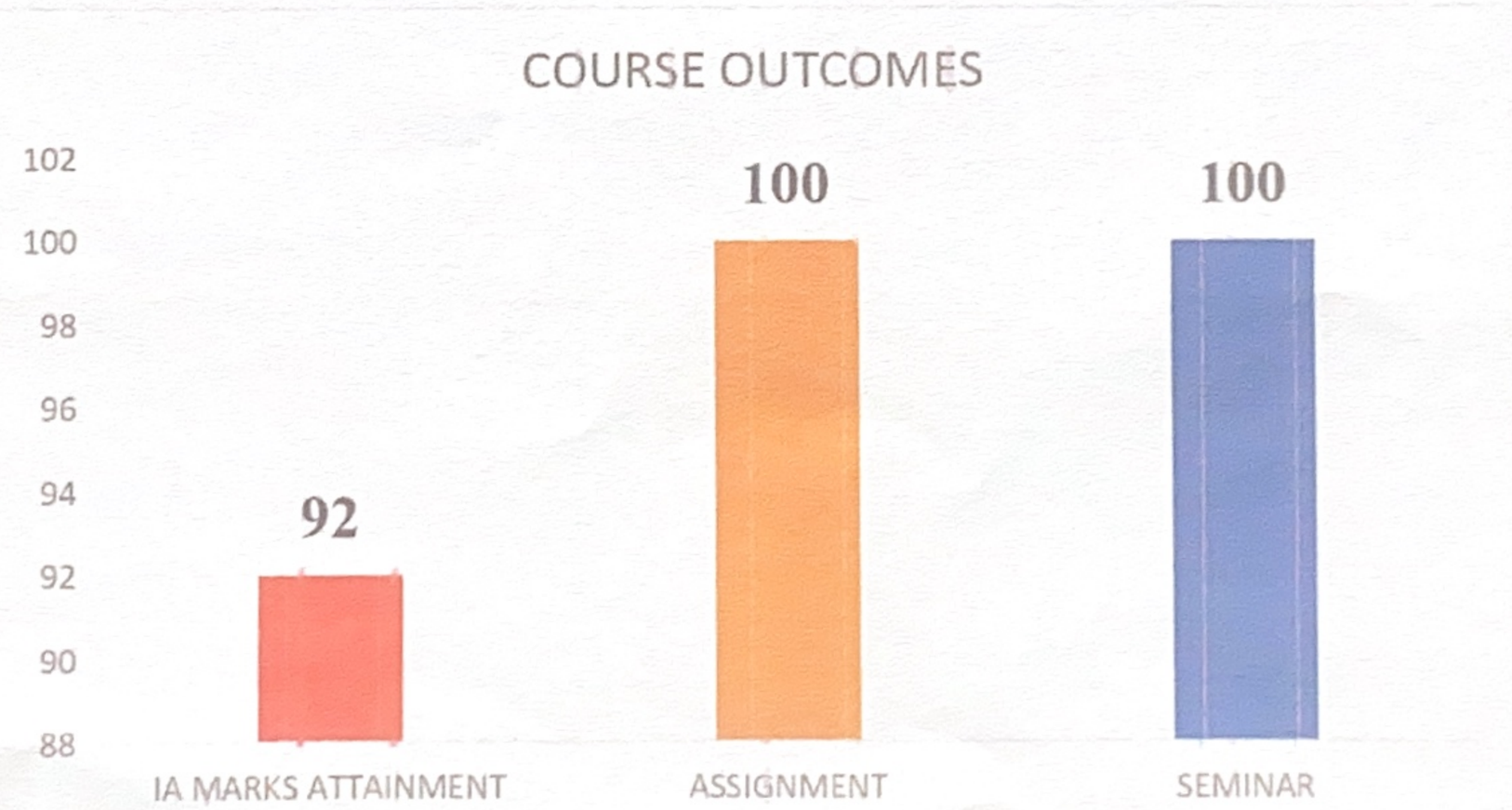
DIRECT ASSESSMENT METHOD - CO ATTAINMENT (EVEN SEM . 2023-2024)

Semester: II STA2MN101(P)-Probability Theory 1

Name of the faculty member: HIMA KC

TARGET: 60% ATTAINMENT

COs	CO1 to CO5
IA MARKS ATTAINMENT	92
ASSIGNMENT	100
SEMINAR	100
AVERAGE	**97**



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DEPARTMENT OF STATISTICS

COURSE EXIT SURVEY RESPONSES (EVEN SEM . 2024-2025)

Semester: II

STA2MN101(P)-Probability Theory 1

Name of the faculty member: HIMA KC

Sl. No.	NAME OF THE STUDENT	REG NO	Are you able to Understand random variables and distinguish different types of random variables	Are you able to Identify discrete and continuous probability function	Are you able to Implement standard theoretical distributions	Are you able to understand various tools for association between the bivariate variables.	Are you able to Distinguish between a population distribution and a sampling distribution and critically evaluate ethical implications of statistical methods aligning with human values.
COURSE OUTCOMES			CO1	CO2	CO3	CO4	CO5
1	ASHIQA EP	UFAYBCM011	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (Excellent)
4	JABINSHA M	UFAYAEG030	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
6	LINU FALILA K	UFAYAEG033	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
7	JASLA M	UFAYAEG031	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
8	ADITHYA U	UFAYSMT001	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
9	AMRITHA . P . T	UFAYSMT002	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
10	ANIYA P P	UFAYSMT003	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)
11	ANUSREE C T	UFAYSMT004	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)
12	AYISHA NAHRIN CP	UFAYSMT005	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)
13	FADHIL A K	UFAYSMT006	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
14	FIDA MK	UFAYSMT007	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
15	HIBA K T	UFAYSMT008	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
16	MAHMOOD MUHYUDHEEN CK	UFAYSMT009	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)

17	MAJIDA SHERIN K K	UFAYSMT010	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
18	MUHAMMED ASMIL A P	UFAYSMT011	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
19	MUHAMMED FAHIZ T P	UFAYSMT012	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
20	MUHAMMED SALIM NK	UFAYSMT013	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)
21	NAJA NASRIN . P	UFAYSMT014	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
22	NIDHA SAFRY M	UFAYSMT015	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
23	RABIYATHUL ADHBIYYA	UFAYSMT016	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
24	RIFANA K	UFAYSMT017	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
25	RIHANA K	UFAYSMT018	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
26	SHAHANA T P	UFAYSMT019	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
27	SHIBIYA JEBIN T H	UFAYSMT020	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
28	SULAIKHA FAHMA P	UFAYSMT021	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)
29	THANHA FATHIMA K	UFAYSMT022	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)

30

d "0"	0	0	0	0	0
d "1"	0	0	0	0	0
d "2"	0	0	0	0	0
d "3"	0	0	0	0	0
d "4"	7	7	7	6	6
d "5"	23	23	23	24	24

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DEPARTMENT OF STATISTICS

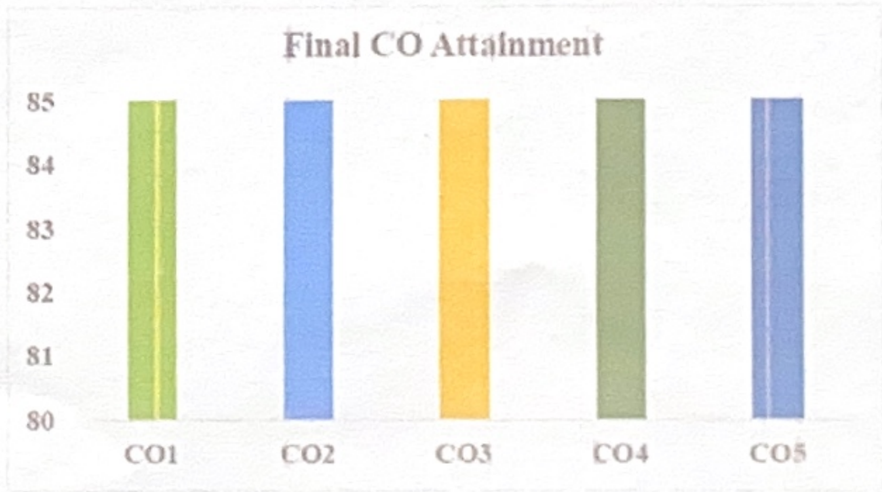
COURSE EXIT SURVEY RESPONSES (EVEN SEM . 2024-2025)

Semester:II | STA2MN101(P)-Probability Theory 1

Name of the faculty member: HIMA KC

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	Define random variables and distinguish different types of random variables	Are you able to Understand random variables and distinguish different types of random variables	0	0	0	0	7	23	30	3.76	5	75.26
CO2	Identify discrete and continuous probability function and analyze data to help entrepreneurial decisions using critical thinking skills.	Are you able to Identify discrete and continuous probability function	0	0	0	0	7	23	30	3.76	5	75.26
CO3	Describe standard theoretical distributions	Are you able to Implement standard theoretical distributions	0	0	0	0	7	23	30	3.76	5	75.26
CO4	Discuss various tools for association between the bivariate variables.	Are you able to understand various tools for association between the bivariate variables.	0	0	0	0	6	24	30	3.79	5	75.79
CO5	Distinguish between a population distribution and a sampling distribution and critically evaluate ethical implications of statistical methods aligning with human values.	Are you able to Distinguish between a population distribution and a sampling distribution and critically evaluate ethical implications of statistical methods aligning with human values.	0	0	0	0	6	24	30	3.79	5	75.79

CO Assessment method	CO1	CO2	CO3	CO4	CO5
Direct method (IA Test, Assignment/quiz and exam)	97	97	97	97	97
Weightage (80%)	78	78	78	78	78
Indirect method (Course Exit Survey)	75.26	75.26	75.26	75.79	75.79
Weightage (20%)	15.05	15.05	15.05	15.16	15.16
Final CO Attainment	**92.92**	**92.92**	**92.92**	**93.02**	**93.02**



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DEPARTMENT OF STATISTICS

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

Semester: II

STA2MN101(P)-Probability Theory 1

Name of the faculty member: HIMA KC

(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 & PO9	PSO1, PSO2 & PSO3	97	75.26	93	75	YES
CO2	PO1, PO3, PO5 & PO7	PSO1, PSO2 & PSO3	97	75.26	93		
CO3	PO1, PO2, PO3, PO5 & PO9	PSO1, PSO2 & PSO3	97	75.26	93		
CO4	PO1, PO3, PO4, PO5& PO8	PSO1, PSO2 & PSO3	97	75.79	93		
CO5	PO1, PO4, PO5, PO7 & PO8	PSO1, PSO2 & PSO3	97	75.79	93		

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