Academic Year	2021-22

B.P.H.E. Society's
Ahmednagar College, Ahmednagar
Internal Quality Assurance Cell
CO, PO, and PSO Attainment Sheet

Department Name	

Program Name	B.Sc.

Program Outcomes(PO)

PO1	Basic terms in Statistics
PO2	Ability to collect, tabulate, represent graphically, analyze and interpret data/information by using appropriate statistical tools.
PO3	Ability to identify and solve a wide range of problems in real life/industry related to Statistics
PO4	Ablity to use of various Statistical softwares for data analysis. .
PO5	Capability to use appropriate statistical skills in interdisciplinary areas such as finance, health, agriculture, government, business, industry,telecomr
PO6	Able to Design a experiment Scientifically
PO7	Programming Skill
PO8	Problem Solving Approach
PO9	Communication Skill and Team work
PO10	
PO11	
PO12	

Program Specific Outcome(PSO)

PSO1	Strong foundation of basic terminologies of Statistics
PSO2	Insight Into Various Statistical Techniques /Tools of Data Analysis.
PSO3	Formulate and Analyze the real life problem.

Academic Year :	2021-22

Class	FYBSc Statistics
Subject Code	ST-111
Subject Name	Descriptive Statistics-I
Semester No	1
Teacher Name	Ms Reshma Wagh
Course Outcomes	
CO1	Concepts of statistical population and sample, variables and attributes.
CO2	Measures of central tendency, Dispersion, Skewness and Kurtosis.
CO3	Moments and their use in studying various characteristics ofdata.
CO4	Concept of correlation,- Pearson's correlation coefficient, Spearman's rank correlation coefficient
CO5	to analyze data pertaining to attributes and to interpret the results

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	1	1	1	0	1	0	0	1	0	2	1	1
CO2	1	2	1	0	1	0	0	1	0	2	2	1
CO3	1	2	1	0	1	0	0	1	0	2	2	1
CO4	2	2	1	0	1	0	0	1	0	2	2	1
CO5	1	2	2	0	2	0	0	1	0	2	2	1
Average	1.20	1.80	1.20	0.00	1.20	0.00	0.00	1.00	0.00	2.00	1.80	1.00

Class	FYBSc Statistics
Subject Code	ST-112
Subject Name	Discrete Probability
Semester No	1
Teacher Name	Mr.Yogesh R. Yewale
Course Outcomes	
CO1	Distinguish between random and non-random experiments.
CO2	Introduction to probability.Classical definition, axiomatic approach, probibilty models
CO3	Concept of Condtional probability and Baye's theorem.

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	1	1	1	0	1	0	0	1	0	2	1	1
CO2	1	1	1	0	1	0	0	2	0	2	2	1
CO3	1	1	1	0	1	0	0	2	0	2	2	1
CO4	1	1	1	0	1	0	0	2	0	2	2	1
CO5	1	1	1	0	1	0	0	2	0	2	2	1
Average	1.00	1.00	1.00	0.00	1.00	0.00	0.00	1.80	0.00	2.00	1.80	1.00

	CO4	Concept of independence of events, pairwise indpendece and mutal independece
	CO5	Concept of Discrete probability distributions such as Binomial, Uniform ,Hypergeometric etc

			Course Outcomes	Program Outcomes									PSOs		
Class		FYBSc Statistics		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Code		ST-113	CO1	1	2	1	2	2	0	0	2	1	2	2	2
Subject Name		Practical Paper -I	CO2	1	2	1	2	2	0	0	2	1	2	3	2
Semester No		1	CO3	1	2	2	2	2	0	0	1	1	3	2	1
Teacher Name		Mr.Yogesh R. Yewale/Dr. M.C.Yeol	CO4	1	2	2	2	2	0	0	1	1	2	3	2
Course Outcomes			CO5	1	3	2	2	0	0	0	1	1	3	3	2
	CO1	to use various graphical and diagrammatic techniques and interpretation.	Average	1.00	2.20	1.60	2.00	1.60	0.00	0.00	1.40	1.00	2.40	2.60	1.80
	CO2	to analyse data pertaining to discrete and continuous variables and to interpret the results													
	CO3	to compute various measures of central tendency, dispersion, skewness and kurtosis.													
	CO4	to interpret summary statistics of computer output.													
	CO5	to summarize and analyze the data using computer.													

			Course Outcomes	Program Outcomes									PSOs		
Class		FYBSc Statistics		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Code		ST-121	CO1	1	2	1	0	1	0	0	0	0	2	2	2
Subject Name		Descriptive Statistics-II	CO2	1	2	2	0	1	0	0	1	0	2	2	2
Semester No		2	CO3	1	1	1	0	1	0	0	0	0	2	2	2
Teacher Name		Dr. M.C.Yeola	CO4												
Course Outcomes			CO5												
	CO1	to compute the correlation coefficient for bivariate data and interpret it.													

	CO2	To fit linear, quadratic and exponential curves to the bivariate data to investigate relation between two variables	Average	1.00	1.67	1.33	0.00	1.00	0.00	0.00	0.33	0.00	2.00	2.00	2.00
	CO3	to compute and interpret various index numbers.													
	CO4														
	CO5														

Class		FYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code		ST-122		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name		Discrete Probability Distributions	CO1	1	1	1	0	1	0	0	2	0	3	1	1
Semester No		2	CO2	1	1	1	0	1	0	0	2	0	3	1	1
Teacher Name		Mr.Yogesh R. Yewale	CO3	1	1	1	0	1	0	0	2	0	3	2	1
Course Outcomes			CO4												
	CO1	Introduction of Discrete random variables with countably infinte sample space such as Geometric and Poisson.	CO5												
	CO2	Introduction to the conceptof discrete bivariate random variable its probability distribution. Mathematical expectation	Average	1.00	1.00	1.00	0.00	1.00	0.00	0.00	2.00	0.00	3.00	1.33	1.00
	CO3	Concept of Independence of random variables.													
	CO4														
	CO5														

Class		FYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code		ST-123		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name		Practical Paper -II	CO1	1	2	1	2	1	0	0	1	0	2	3	1
Semester No		2	CO2	1	1	1	2	1	0	0	2	0	2	3	1
Teacher Name		Mr.Yogesh R. Yewale / Dr. M.C.Yeola	CO3	2	2	1	2	1	0	0	2	0	2	3	2
Course Outcomes			CO4	1	2	1	2	1	0	0	1	0	2	3	2
	CO1	To compute correlation coefficient, regression coefficients,	CO5												
	CO2	To compute probabilities of bivariate distributions	Average	1.25	1.75	1.00	2.00	1.00	0.00	0.00	1.50	0.00	2.00	3.00	1.50

	CO3	To fit binomial and Poisson distributions
	CO4	To draw random samples from Poisson and binomial distributions.
	CO5	

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Class	SYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code	ST-231		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name	Discrete Probability Distributions And Time Series	CO1	1	1	1	0	1	0	0	2	0	2	1	1
Semester No	1	CO2	1	1	1	0	1	0	0	2	0	2	1	1
Teacher Name	Dr. M.C.Yeola	CO3	1	2	2	0	2	0	0	2	0	2	2	2
Course Outcomes		CO4												
CO1	Introduction to Negative Binomial distribution , Multinomial distribution	CO5												
CO2	Introduction to the concept of truncated distributions.	Average	1.00	1.33	1.33	0.00	1.33	0.00	0.00	2.00	0.00	2.00	1.33	1.33
CO3	Introduction to the concept of Times series, methods of time series analysis.													
CO4														
CO5														

Class	SYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code	ST-232		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name	Continuous Probability Distr	CO1	1	2	1	0	1	1	0	2	0	2	1	1
Semester No	1	CO2	1	2	1	0	1	1	0	2	0	2	1	1
Teacher Name	Ms. Reshma Wagh	CO3	1	2	1	0	1	1	0	2	0	2	1	1
Course Outcomes		CO4	1	1	2	0	2	1	0	2	0	3	1	2
CO1	Concept of univariate continuous random variables and its probability distribution. Methods of finding distribution of function of random variables	CO5												

	CO2	Concept of continuous Bivariate random variables and its probability distribution Concept of Conditional distribution, Marginal distribution and Independece of random variables	Average	1.00	1.75	1.25	0.00	1.25	1.00	0.00	2.00	0.00	2.25	1.00	1.25
	CO3	Normal distribution , expoenetial distribution and its properties													
	CO4	Applications of Central limit theorem and its application for Poisson and Binomial distribution													
	CO5														

Class	SYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code	ST-233		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name	Practical Paper -I	CO1	1	2	2	3	2	0	0	1	1	3	2	2
Semester No	1	CO2	1	2	3	0	2	0	0	2	2	3	2	2
Teacher Name	Mr.Yogesh R. Yewale/Dr. M.C.Yeola	CO3	1	2	3	0	3	0	0	2	2	3	2	2
Course Outcomes		CO4												
		CO5												

	CO1	To fit various discrete and continuous Probability distributions and to study various real life situations.(Using calculators and MS-Excel)												
	CO2	To identify the appropriate probability model that can be used.	Average	1.00	2.00	2.67	1.00	2.33	0.00	0.00	1.67	1.67	3.00	2.00	2.00
	CO3	To use forecasting and data analysis techniques in case of univariate data sets												
	CO4													
	CO5													

Class	SYBSc Statistics	Course	Program Outcomes	PSOs

Subject Code		ST-241	Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name		Tests of Significance And Statistical Methods	CO1	1	1	1	0	1	0	0	2	0	3	2	2
Semester No		2	CO2	1	1	2	0	2	0	0	2	0	3	2	2
Teacher Name		Dr. M.C.Yeola	CO3	1	2	2	0	2	0	0	2	0	3	2	2
Course Outcomes			CO4	1	1	2	0	2	0	0	1	0	3	2	2
	CO1	Concept of Estimator, Estimate, Hypothesis, critical region , type -I error and type- II error, level of significance, p-value, confidence interval	CO5	1	1	2	0	2	0	0	1	0	3	2	2
	CO2	Tests for equality of population mean and population proportion.	Average	1.00	1.20	1.80	0.00	1.80	0.00	0.00	1.60	0.00	3.00	2.00	2.00
	CO3	Concept of Multiple linear regression model,resifual, multiple correlation coefficient and partial correlation coefficients													
	CO4	Introduction to the concept of demography													
	CO5	Introduction to the concept of Queing models													

Class		SYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code		ST-242		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name		Sampling Distributions And Exact tests	CO1	1	1	1	0	1	0	0	1	0	2	1	1
Semester No		2	CO2	1	1	1	0	1	1	0	2	0	2	2	2
Teacher Name		Ms.Reshma Wagh	CO3	1	1	2	0	2	1	0	2	0	3	1	2
Course Outcomes			CO4												
	CO1	Gamma distribution and its prop	CO5												
	CO2	Concept of sampling distribution. Study of Chi-square, t-distribution and F-distribution.	Average	1.00	1.00	1.33	0.00	1.33	0.67	0.00	1.67	0.00	2.33	1.33	1.67
	CO3	Tests based on chi-square distribtuion, t-distbutionand F-distribution													
	CO4														

	CO5	

Class		SYBSc Statistics
Subject Code		ST-243
Subject Name		Practical Paper -II
Semester No		2
Teacher Name		Mr.Yogesh R. Yewale/ Dr.M.C.Yeola
Course Outcomes		
	CO1	To conduct various tests of significance like averages, population proportions, independence of attributes, variance etc. included in theory (using calculators, software).
	CO2	To compute probabilities of discrete and continuous probability distributions using R software.
	CO3	To use software for finding basic summary statistics.
	CO4	
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	1	2	3	3	1	0	3	2	1	2	2	3
CO2	1	2	2	3	0	0	3	2	1	2	2	3
CO3	1	2	2	3	1	0	3	1	1	2	3	3
CO4												
CO5												
Average	1.00	2.00	2.33	3.00	0.67	0.00	3.00	1.67	1.00	2.00	2.33	3.00

Academic Year :	2021-22

Class	TYBSc Statistics
Subject Code	ST-351
Subject Name	Distribution Theory (Paper I)
Semester No	5
Teacher Name	Dr. M.C.Yeola

Course Outcomes		
	CO1	Introduction to continuous distributions such as Beta and Cauchy distribution
	CO2	Chebyche's Inequality and its applications in inference and SPC
	CO3	Cental limit theorem, weak law of large numbers. Their Visualization through simulation
	CO4	
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	1	1	1	0	0	1	0	0	0	2	1	1
CO2	2	1	1	0	0	1	0	1	0	2	1	2
CO3	2	1	2	1	0	1	0	1	0	2	1	2
CO4												
CO5												
Average	1.67	1.00	1.33	0.33	0.00	1.00	0.00	0.67	0.00	2.00	1.00	1.67

Class	TYBSc Statistics
Subject Code	ST-352
Subject Name	Theory of Estimation
Semester No	5
Teacher Name	Mr.Yogesh R. Yewale

Course Outcomes		
	CO1	Concept of point and interval estimation. Distinction between estimator and estimate.MSE criterion for comparing the estimators.
	CO2	methods of estimation. Maximum likelihood estimation and methodof moments
	CO3	Properties of estimators. Unbisedness, sufficiency, Consistency, Efficiency,etc.
	CO4	
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	0	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	0	1	0	0	1	0	1	0	3	1	2
CO2	2	2	2	0	0	1	0	2	0	3	1	2
CO3	2	1	1	0	0	1	0	2	0	3	1	3
CO4												
CO5												
Average	2.00	1.00	1.33	0.00	0.00	1.00	0.00	1.67	0.00	3.00	1.00	2.33

Class	TYBSc Statistics
Subject Code	ST-353
Subject Name	Design of Experiments
Semester No	5
Teacher Name	Mr.Yogesh R. Yewale
Course Outcomes	
CO1	Concept of ANOVA
CO2	Principles of design of experiments
CO3	Completely randomized design, randomized block design and Latin square design
CO4	Concept of efficiency of design
CO5	Factorial design , confounding , partial confounding and complete confounding

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	1	1	0	2	3	0	1	0	3	3	3
CO2	2	2	2	0	2	3	0	2	0	3	3	3
CO3	2	2	2	0	2	3	0	2	0	3	3	3
CO4	2	2	2	0	2	3	0	2	0	3	3	3
CO5	2	2	2	0	2	3	0	2	0	3	3	3
Average	2.00	1.80	1.80	0.00	2.00	3.00	0.00	1.80	0.00	3.00	3.00	3.00

Class	TYBSc Statistics
Subject Code	ST-354
Subject Name	Statistical Process Control
Semester No	5
Teacher Name	Ms. Reshma Wagh
Course Outcomes	
CO1	Statistical Quality Control, 7 tools of SPC
CO2	R chart and X- bar chart , p-chart , c-chart
CO3	Process capaility ratio and indices (Cp) , process capability indices(Cpk)
CO4	Acceptance sampling plan for attributes. Single sampling plan (SSP) and double sampling plan(DSP)
CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	2	2	0	3	2	0	0	0	2	3	3
CO2	2	2	2	0	3	1	0	0	0	2	3	3
CO3	2	2	2	0	3	1	0	0	0	2	3	3
CO4	2	2	2	0	3	1	0	0	0	2	3	3
CO5												
Average	2.00	2.00	2.00	0.00	3.00	1.25	0.00	0.00	0.00	2.00	3.00	3.00

Class	TYBSc Statistics
Subject Code	ST-355
Subject Name	Operations Research
Semester No	5
Teacher Name	Dr. M.C.Yeola
Course Outcomes	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	1	2	0	1	0	0	2	0	2	2	3
CO2	2	2	2	0	2	0	0	2	0	2	2	3
CO3	2	2	2	0	2	0	0	2	0	2	2	3
CO4	2	2	2	0	2	0	0	2	0	2	2	3

	CO1	Operations Research Approach to problem solving	CO5												
	CO2	Linear Programming problem, solution by graphical method and simplex method	Average	2.00	1.75	2.00	0.00	1.75	0.00	0.00	2.00	0.00	2.00	2.00	3.00
	CO3	Transportation problem and Assignment problem													
	CO4	CPM and PERT													
	CO5														

Class		TYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code		ST-356		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name		Introduction to Regression Analysis	CO1	2	2	3	0	1	1	0	1	0	3	3	3
Semester No		5	CO2	2	2	3	0	1	1	0	1	0	3	3	3
Teacher Name		Ms. Reshma Wagh	CO3	2	2	3	0	1	1	0	1	0	3	3	3
Course Outcomes			CO4												
	CO1	Simple linear regression model, estimation of parameters and test of significance.	CO5												
	CO2	Multiple linear regression model, estimation of parameters and test of significance.	Average	2.00	2.00	3.00	0.00	1.00	1.00	0.00	1.00	0.00	3.00	3.00	3.00
	CO3	Logistic regression model, estimation of parameters and test of significance.													
	CO4														
	CO5														

Class		TYBSc Statistics	Course Outcomes	Program Outcomes									PSOs		
Subject Code		ST-357		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Subject Name		Practical Paper -I	CO1	2	3	3	2	1	1	0	1	0	2	3	2
Semester No		5	CO2	2	3	2	2	2	0	0	1	0	2	3	2
Teacher Name		Mr.Yogesh R. Yewale	CO3	2	3	3	1	2	0	0	1	0	2	3	2
Course Outcomes			CO4	2	1	2	2	2	0	0	1	0	2	1	1
	CO1	Simple linear, multiple linear and logistic regression analysis using R -software	CO5	2	1	2	1	2	0	0	1	0	2	1	1
	CO2	Simulation approach for CLT,WLLN compuatation of approximate numerical value of gamma and beta functionwith real arguments	Average	2.00	2.20	2.40	1.60	1.80	0.20	0.00	1.00	0.00	2.00	2.20	1.60
	CO3	Construction of Confidence interval for population mean , population variance and median and quartiles based on order statistics													
	CO4	MLE for truncated distributions													
	CO5	Model Sampling from Cauchy distribution													

Class	TYBSc Statistics
Subject Code	ST-358
Subject Name	Practical Paper II
Semester No	5
Teacher Name	Dr. M.C.Yeola
Course Outcomes	
CO1	Analysis of CRD, RBD and LSD
CO2	Pairwise comparison using critical difference mehod,
CO3	ANCOVA in CRD and RBD
CO4	ANOVA for CRD, RBD and LSD using Kruskal Wall's test
CO5	Analysis of factorial experiment,Partial confounding, Total confounding

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	3	0	1	0	2	3	3
CO2	2	2	3	2	2	3	0	1	0	2	3	3
CO3	2	2	3	2	2	3	0	1	0	2	3	3
CO4	2	2	3	2	2	3	0	1	0	2	3	3
CO5	2	2	3	2	3	3	0	1	0	2	3	3
Average	2.00	1.80	3.00	2.00	2.20	3.00	0.00	1.00	0.00	2.00	3.00	3.00

Class	TYBSc Statistics
Subject Code	ST-359
Subject Name	Practical Paper III
Semester No	5
Teacher Name	Ms. Reshma Wagh
Course Outcomes	
CO1	Construction of X-bar chart , MR- chart, p-chart , c-chart
CO2	Single Sampling plan, Double sampling plan, ,OC curve,producers risk, consumers risk, AOQ, AOQL, ATI, ASN
CO3	Linear Programming Problem, Simplex method, Dual Simplex method
CO4	Transportation problem,Assignment Problem
CO5	CPM, PERT

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	2	3	1	2	1	0	1	0	2	3	3
CO2	2	3	3	1	2	1	0	1	0	2	3	3
CO3	2	2	2	2	3	0	0	2	0	2	2	3
CO4	2	3	2	2	3	0	0	2	0	2	2	3
CO5	2	3	2	2	3	0	0	2	0	2	2	3
Average	2.00	2.60	2.40	1.60	2.60	0.40	0.00	1.60	0.00	2.00	2.40	3.00

Class	TYBSc Statistics
Subject Code	ST-3510
Subject Name	C Programming
Semester No	5
Teacher Name	Dr. M.C.Yeola
Course Outcomes	
CO1	Algorithm and Flowchart
CO2	Control Structure, For loop, If else loop, Switch,Goto, Break,Continue, Loop

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	0	1	1	1	0	3	3	0	0	0	0
CO2	2	0	1	1	1	0	3	3	0	0	0	0
CO3	2	0	1	1	1	0	3	3	0	0	0	0
CO4	2	2	2	2	0	0	3	3	0	0	2	1
CO5												
Average	2.00	0.50	1.25	1.25	0.75	0.00	3.00	3.00	0.00	0.00	0.50	0.25

	CO3	A concept of Arrays, Function and Pointers
	CO4	Development of logic, Ability to write programs on basic Descriptive Statistical Analysis
	CO5	

Class	TYBSc Statistics	
Subject Code	ST-3511	
Subject Name	Introduction to R -Software	
Semester No	5	
Teacher Name	Mr. Yogesh R. Yewale	
Course Outcomes		
	CO1	Graphical representation of data using R-Software
	CO2	Descrptive Statistics using R
	CO3	Model sampling from aProbability distribution using R Software
	CO4	Ability to write program for testing of Hypothesis using R software by verifying the assumptions of test.
	CO5	ANOVA,Non-parametric tests in R.

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	3	2	3	1	0	3	1	0	1	2	2
CO2	2	3	2	3	1	0	3	1	0	1	2	2
CO3	2	3	2	3	1	0	3	1	0	1	2	2
CO4	2	3	2	3	1	0	3	1	0	1	2	2
CO5	2	3	2	3	1	0	3	1	0	1	2	2
Average	2.00	3.00	2.00	3.00	1.00	0.00	3.00	1.00	0.00	1.00	2.00	2.00

Class	TYBSc Statistics	
Subject Code	ST-361	
Subject Name	Distribution Theory - II	
Semester No	6	
Teacher Name	Dr. M.C.Yeola	
Course Outcomes		
	CO1	Continuous distribution and its properties. Weibull, Laplace , Lognormal Distribution
	CO2	Truncation in case of continuous distribution,. Case of Normal distribution
	CO3	Pareto distribution and its applications to economics
	CO4	Bivariate normal distribution and its real life applications
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	1	1	0	0	0	0	1	0	2	1	1
CO2	2	1	1	0	0	0	0	1	0	2	1	1
CO3	2	2	1	0	1	0	0	1	0	2	2	2
CO4	2	2	1	0	1	0	0	1	0	2	2	2
CO5												
Average	2.00	1.50	1.00	0.00	0.50	0.00	0.00	1.00	0.00	2.00	1.50	1.50

Class	TYBSc Statistics
Subject Code	ST-362
Subject Name	Testing of Hypothesis
Semester No	6
Teacher Name	Mr. Yogesh R. Yewale
Course Outcomes	
CO1	Basic terms in testing of hypothesis
CO2	MP, UMP test, power curve
CO3	Construction of likelihood ratio test
CO4	Non-parametric tests
CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	1	1	0	1	1	0	1	0	3	1	2
CO2	2	1	1	0	1	1	0	1	0	3	2	2
CO3	2	1	1	0	1	1	0	1	0	3	2	3
CO4	2	1	1	0	1	1	0	1	0	3	3	3
CO5												
Average	2.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00	3.00	2.00	2.50

Class	TYBSc Statistics
Subject Code	ST-363
Subject Name	Sampling Theroy
Semester No	6
Teacher Name	Ms. Reshma Wagh
Course Outcomes	
CO1	Role of sample survey in research methodology
CO2	Simple random sampling,Stratified random sampling, systematic sampling methods
CO3	Determination of sample size
CO4	Ratio and regression estimator in case of SRSWOR
CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	1	2	0	2	2	0	0	0	3	2	2
CO2	2	2	2	0	1	1	0	0	0	3	2	2
CO3	2	2	3	0	1	1	0	0	0	3	2	3
CO4	2	2	2	0	1	1	0	0	0	3	2	2
CO5												
Average	2.00	1.75	2.25	0.00	1.25	1.25	0.00	0.00	0.00	3.00	2.00	2.25

Class	TYBSc Statistics (Sem 1)
Subject Code	ST-364
Subject Name	Introduction to Survival Analysis
Semester No	6
Teacher Name	Ms. Reshma Wagh
Course Outcomes	
CO1	Concept of ageing,types of ageing
CO2	Classification of parametric families of life ditribution according ageing

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	2	2	0	1	0	0	0	0	3	2	3
CO2	2	2	2	0	2	0	0	0	0	3	3	3
CO3	2	2	2	0	2	0	0	0	0	3	3	3
CO4	2	2	2	0	2	0	0	0	0	3	3	3
CO5												
Average	2.00	2.00	2.00	0.00	1.75	0.00	0.00	0.00	0.00	3.00	2.75	3.00

	CO3	Censoring ,its types.Estimation of parameters in case of exponenetial distribution
	CO4	Kaplan-Meier stimator of survival function
	CO5	

Class		TYBSc Statistics
Subject Code		ST-365(A)
Subject Name		Actuarial Statistics
Semester No		6
Teacher Name		Dr. M.C.Yeola
Course Outcomes		
	CO1	Basic temrs of insurance like premium , risk policy etc.
	CO2	Constrution of life tables
	CO3	Models of life insurance and annuties and benefit premiums
	CO4	Different types of insurances , Estimation of premium for different types of insurances.
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	2	3	0	2	0	0	0	0	2	2	2
CO2	2	3	3	0	3	0	0	0	0	3	3	3
CO3	2	3	3	0	3	0	0	0	0	2	3	3
CO4	2	3	3	0	3	0	0	0	0	3	3	3
CO5												
Average	2.00	2.75	3.00	0.00	2.75	0.00	0.00	0.00	0.00	2.50	2.75	2.75

Class		TYBSc Statistics
Subject Code		ST-366 (C)
Subject Name		Medical Statistics and Clinical Trials
Semester No		6
Teacher Name		Mr. Yogesh R. Yewale
Course Outcomes		
	CO1	Concept of birth rate and death rates
	CO2	Basic concepts Epidemiology, odds ratio , relative risk , symmetry in square contingency table,Simpson's Paradox
	CO3	Phases of Clinical trials, Statistical Analysis Plan, Clinical Study Report
	CO4	Parallel group desgin, Cross- over design
	CO5	Concept of Bioavilability and Bioequivalence.Criteria for testing Bio-equivalence

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	2	3	0	2	0	0	0	0	2	2	2
CO2	2	3	3	0	3	0	0	0	0	2	3	3
CO3	2	3	3	0	3	0	0	0	0	3	3	3
CO4	2	3	3	0	3	0	0	0	0	3	3	3
CO5	2	3	3	0	3	0	0	0	0	3	3	3
Average	2.00	2.80	3.00	0.00	2.80	0.00	0.00	0.00	0.00	2.60	2.80	2.80

Class		TYBSc Statistics

Course	Program Outcomes	PSOs

Subject Code		ST-367
Subject Name		Practical Paper -IV
Semester No		6
Teacher Name		Mr. Yogesh R. Yewale
Course Outcomes		
	CO1	Performing Sequential Probability Ratio Tests and its Graphical representation.
	CO2	Applications of MP and UMP tests
	CO3	Analysis of data using Non-Parametrtic test
	CO4	
	CO5	

Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	3	2	1	1	0	0	0	0	2	3	2
CO2	2	3	1	1	1	1	0	0	0	3	3	3
CO3	2	3	2	1	1	1	0	0	0	2	3	3
CO4												
CO5												
Average	2.00	3.00	1.67	1.00	1.00	0.67	0.00	0.00	0.00	2.33	3.00	2.67

Class		TYBSc Statistics
Subject Code		ST-368
Subject Name		Practical Paper -V
Semester No		6
Teacher Name		Dr. M.C.Yeola
Course Outcomes		
	CO1	Sample size determination for variables and attributes
	CO2	Estimation of population parameters by SRS, Stratified Random Sampling,Ration and Regression method
	CO3	MLE for Weibull and Gamma distribution
	CO4	Actuarial and Kaplan Meierestimator of survival function and its comparison.
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	3	3	1	3	1	0	0	0	2	3	3
CO2	2	3	3	1	1	0	0	0	0	3	3	3
CO3	2	2	2	1	0	0	0	0	0	2	3	3
CO4	2	3	3	1	1	0	0	0	0	3	3	3
CO5												
Average	2.00	2.75	2.75	1.00	1.25	0.25	0.00	0.00	0.00	2.50	3.00	3.00

Class		TYBSc Statistics
Subject Code		ST-369
Subject Name		Practical Paper -VI (Project)
Semester No		6
Teacher Name		Dr. M.C.Yeola / Mr. Yogesh R Yewale
Course Outcomes		
	CO1	Understanding the problem
	CO2	Understanding of statistical techniques used to solve the problem
	CO3	Presentation Skill
	CO4	Team work
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	3	3	3	3	2	0	0	3	2	3	3
CO2	2	3	3	3	3	3	0	0	3	3	3	3
CO3	2	3	3	3	3	1	0	0	3	1	0	0
CO4	0	3	3	3	3	1	0	0	3	0	0	0
CO5												
Average	1.50	3.00	3.00	3.00	3.00	1.75	0.00	0.00	3.00	1.50	1.50	1.50

Class		TYBSc Statistics
Subject Code		ST-3610
Subject Name		Introduction to Python Programming
Semester No		6
Teacher Name		Mr. Yogesh R Yewale
Course Outcomes		
	CO1	Concept of Data types , functions and modules in Python
	CO2	Using Python libraries such as Numpy, Pandas
	CO3	Ability to write programs for computation of desciprtive Statistics
	CO4	Graphical represetation using Matplotlib library of Python
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	1	0	0	2	0	0	3	0	0	0	0	0
CO2	1	0	1	2	0	0	3	0	0	0	0	0
CO3	1	0	1	2	0	0	3	0	0	0	2	1
CO4	1	3	1	3	1	0	3	0	0	1	2	1
CO5												
Average	1.00	0.75	0.75	2.25	0.25	0.00	3.00	0.00	0.00	0.25	1.00	0.50

Class		TYBSc Statistics
Subject Code		ST-3611
Subject Name		Data Analytics
Semester No		6
Teacher Name		Dr. M.C.Yeola
Course Outcomes		
	CO1	Methods of Data Cleaning , Data transformation and Visualization
	CO2	Clssification techniques
	CO3	Model Evaluation Selection
	CO4	clustering methods , Market Basket Analysis, Artificial Neural (ANN), Support Vector Machine (SVM)
	CO5	

Course Outcomes	Program Outcomes									PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
CO1	2	3	3	3	3	0	1	0	0	2	3	3
CO2	2	3	3	3	3	0	1	0	0	2	3	3
CO3	2	3	3	3	3	0	1	0	0	2	3	3
CO4	2	3	3	3	3	0	1	0	0	2	3	3
CO5												
Average	2.00	3.00	3.00	3.00	3.00	0.00	1.00	0.00	0.00	2.00	3.00	3.00

CO-PO Mapping

			Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
		1	ST-111	1.20	1.80	1.20	0.00	1.20	0.00	0.00	1.00	0.00
		2	ST-112	1.00	1.00	1.00	0.00	1.00	0.00	0.00	1.80	0.00
		3	ST-113	1.00	2.20	1.60	2.00	1.60	0.00	0.00	1.40	1.00
		4	ST-121	1.00	1.67	1.33	0.00	1.00	0.00	0.00	0.33	0.00
		5	ST-122	1.00	1.00	1.00	0.00	1.00	0.00	0.00	2.00	0.00
FY	FY	6	ST-123	1.25	1.75	1.00	2.00	1.00	0.00	0.00	1.50	0.00
		1	ST-231	1.00	1.33	1.33	0.00	1.33	0.00	0.00	2.00	0.00
		2	ST-232	1.00	1.75	1.25	0.00	1.25	1.00	0.00	2.00	0.00
		3	ST-233	1.00	2.00	2.67	1.00	2.33	0.00	0.00	1.67	1.67
		4	ST-241	1.00	1.20	1.80	0.00	1.80	0.00	0.00	1.60	0.00
		5	ST-242	1.00	1.00	1.33	0.00	1.33	0.67	0.00	1.67	0.00
SY	SY	6	ST-243	1.00	2.00	2.33	3.00	0.67	0.00	3.00	1.67	1.00
		1	ST-351	1.67	1.00	1.33	0.33	0.00	1.00	0.00	0.67	0.00
		2	ST-352	2.00	1.00	1.33	0.00	0.00	1.00	0.00	1.67	0.00
		3	ST-353	2.00	1.80	1.80	0.00	2.00	3.00	0.00	1.80	0.00
		4	ST-354	2.00	2.00	2.00	0.00	3.00	1.25	0.00	0.00	0.00
		5	ST-355	2.00	1.75	2.00	0.00	1.75	0.00	0.00	2.00	0.00
		6	ST-356	2.00	2.00	3.00	0.00	1.00	1.00	0.00	1.00	0.00
		7	ST-357	2.00	2.20	2.40	1.60	1.80	0.20	0.00	1.00	0.00
		8	ST-358	2.00	1.80	3.00	2.00	2.20	3.00	0.00	1.00	0.00
		9	ST-359	2.00	2.60	2.40	1.60	2.60	0.40	0.00	1.60	0.00
		10	ST-3510	2.00	0.50	1.25	1.25	0.75	0.00	3.00	3.00	0.00
		11	ST-3511	2.00	3.00	2.00	3.00	1.00	0.00	3.00	1.00	0.00
		12	ST-361	2.00	1.50	1.00	0.00	0.50	0.00	0.00	1.00	0.00
		13	ST-362	2.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00
		14	ST-363	2.00	1.75	2.25	0.00	1.25	1.25	0.00	0.00	0.00
		15	ST-364	2.00	2.00	2.00	0.00	1.75	0.00	0.00	0.00	0.00
		16	ST-365(A)	2.00	2.75	3.00	0.00	2.75	0.00	0.00	0.00	0.00
		17	ST-366 (C)	2.00	2.80	3.00	0.00	2.80	0.00	0.00	0.00	0.00
		18	ST-367	2.00	3.00	1.67	1.00	1.00	0.67	0.00	0.00	0.00
		19	ST-368	2.00	2.75	2.75	1.00	1.25	0.25	0.00	0.00	0.00
		20	ST-369	1.50	3.00	3.00	3.00	3.00	1.75	0.00	0.00	3.00
		21	ST-3610	1.00	0.75	0.75	2.25	0.25	0.00	3.00	0.00	0.00
TY	TY	22	ST-3611	2.00	3.00	3.00	3.00	3.00	0.00	1.00	0.00	0.00

CO-PO ATTAINMENT

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
1.008	1.512	1.008	0	1.008	0	0	0.84	0
0.733333	0.733333	0.733333	0	0.733333	0	0	1.32	0
0.306667	0.674667	0.490667	0.613333333	0.490667	0	0	0.429333	0.306667
0.2	0.333333	0.266667	0	0.2	0	0	0.066667	0
0.2	0.2	0.2	0	0.2	0	0	0.4	0
0.516667	0.723333	0.413333	0.826666667	0.413333	0	0	0.62	0
0.84	1.12	1.12	0	1.12	0	0	1.68	0
0.68	1.19	0.85	0	0.85	0.68	0	1.36	0
0.893333	1.786667	2.382222	0.893333333	2.084444	0	0	1.488889	1.488889
0.52	0.624	0.936	0	0.936	0	0	0.832	0
0.52	0.52	0.693333	0	0.693333	0.346667	0	0.866667	0
0.52	1.04	1.213333	1.56	0.346667	0	1.56	0.866667	0.52
1.133333	0.68	0.906667	0.226666667	0	0.68	0	0.453333	0
1.68	0.84	1.12	0	0	0.84	0	1.4	0
2	1.8	1.8	0	2	3	0	1.8	0
2	2	2	0	3	1.25	0	0	0
2	1.75	2	0	1.75	0	0	2	0
2	2	3	0	1	1	0	1	0
2	2.2	2.4	1.6	1.8	0.2	0	1	0
2	1.8	3	2	2.2	3	0	1	0
1.786667	2.322667	2.144	1.429333333	2.322667	0.357333	0	1.429333	0
2	0.5	1.25	1.25	0.75	0	3	3	0
2	3	2	3	1	0	3	1	0
2	1.5	1	0	0.5	0	0	1	0
1.36	0.68	0.68	0	0.68	0.68	0	0.68	0
1.04	0.91	1.17	0	0.65	0.65	0	0	0
1.04	1.04	1.04	0	0.91	0	0	0	0
1.04	1.43	1.56	0	1.43	0	0	0	0
2	2.8	3	0	2.8	0	0	0	0
2	3	1.666667	1	1	0.666667	0	0	0
2	2.75	2.75	1	1.25	0.25	0	0	0
1.5	3	3	3	3	1.75	0	0	3
1	0.75	0.75	2.25	0.25	0	3	0	0
2	3	3	3	3	0	1	0	0

Percentage CO-PO ATTAINMENT

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
84	84	84	#DIV/0!	84	#DIV/0!	#DIV/0!	84	#DIV/0!
73.33333	73.33333	73.33333	#DIV/0!	73.33333	#DIV/0!	#DIV/0!	73.33333	#DIV/0!
30.66667	30.66667	30.66667	30.66667	30.66667	#DIV/0!	#DIV/0!	30.66667	30.66667
20	20	20	#DIV/0!	20	#DIV/0!	#DIV/0!	20	#DIV/0!
20	20	20	#DIV/0!	20	#DIV/0!	#DIV/0!	20	#DIV/0!
41.33333	41.33333	41.33333	41.33333	41.33333	#DIV/0!	#DIV/0!	41.33333	#DIV/0!
84	84	84	#DIV/0!	84	#DIV/0!	#DIV/0!	84	#DIV/0!
68	68	68	#DIV/0!	68	68	#DIV/0!	68	#DIV/0!
89.33333	89.33333	89.33333	89.33333	89.33333	#DIV/0!	#DIV/0!	89.33333	89.33333
52	52	52	#DIV/0!	52	#DIV/0!	#DIV/0!	52	#DIV/0!
52	52	52	#DIV/0!	52	52	#DIV/0!	52	#DIV/0!
52	52	52	52	52	#DIV/0!	52	52	52
68	68	68	68	#DIV/0!	68	#DIV/0!	68	#DIV/0!
84	84	84	#DIV/0!	#DIV/0!	84	#DIV/0!	84	#DIV/0!
100	100	100	#DIV/0!	100	100	#DIV/0!	100	#DIV/0!
100	100	100	#DIV/0!	100	100	#DIV/0!	#DIV/0!	#DIV/0!
100	100	100	#DIV/0!	100	#DIV/0!	#DIV/0!	100	#DIV/0!
100	100	100	#DIV/0!	100	100	#DIV/0!	100	#DIV/0!
100	100	100	100	100	100	#DIV/0!	100	#DIV/0!
100	100	100	100	100	100	#DIV/0!	100	#DIV/0!
89.33333	89.33333	89.33333	89.33333	89.33333	89.33333	#DIV/0!	89.33333	#DIV/0!
100	100	100	100	100	#DIV/0!	100	100	#DIV/0!
100	100	100	100	100	#DIV/0!	100	100	#DIV/0!
100	100	100	#DIV/0!	100	#DIV/0!	#DIV/0!	100	#DIV/0!
68	68	68	#DIV/0!	68	68	#DIV/0!	68	#DIV/0!
52	52	52	#DIV/0!	52	52	#DIV/0!	#DIV/0!	#DIV/0!
52	52	52	#DIV/0!	52	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
52	52	52	#DIV/0!	52	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100	100	100	#DIV/0!	100	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
100	100	100	100	100	100	#DIV/0!	#DIV/0!	#DIV/0!
100	100	100	100	100	100	#DIV/0!	#DIV/0!	#DIV/0!
100	100	100	100	100	100	#DIV/0!	#DIV/0!	100
100	100	100	100	100	#DIV/0!	100	#DIV/0!	#DIV/0!
100	100	100	100	100	#DIV/0!	100	#DIV/0!	#DIV/0!

CO-PSO MAPPING

		Course	PSO1	PSO2	PSO3
FY	1	ST-111	2.00	1.80	1.00
	2	ST-112	2.00	1.80	1.00
	3	ST-113	2.40	2.60	1.80
	4	ST-121	2.00	2.00	2.00
	5	ST-122	3.00	1.33	1.00
	6	ST-123	2.00	3.00	1.50
SY	1	ST-231	2.00	1.33	1.33
	2	ST-232	2.25	1.00	1.25
	3	ST-233	3.00	2.00	2.00
	4	ST-241	3.00	2.00	2.00
	5	ST-242	2.33	1.33	1.67
	6	ST-243	2.00	2.33	3.00
TY	1	ST-351	2.00	1.00	1.67
	2	ST-352	3.00	1.00	2.33
	3	ST-353	3.00	3.00	3.00
	4	ST-354	2.00	3.00	3.00
	5	ST-355	2.00	2.00	3.00
	6	ST-356	3.00	3.00	3.00
	7	ST-357	2.00	2.20	1.60
	8	ST-358	2.00	3.00	3.00
	9	ST-359	2.00	2.40	3.00
	10	ST-3510	0.00	0.50	0.25
	11	ST-3511	1.00	2.00	2.00
	12	ST-361	2.00	1.50	1.50
	13	ST-362	3.00	2.00	2.50
	14	ST-363	3.00	2.00	2.25
	15	ST-364	3.00	2.75	3.00
	16	ST-365(A)	2.50	2.75	2.75
	17	ST-366 (C)	2.60	2.80	2.80
	18	ST-367	2.33	3.00	2.67
	19	ST-368	2.50	3.00	3.00
	20	ST-369	1.50	1.50	1.50
	21	ST-3610	0.25	1.00	0.50
	22	ST-3611	2.00	3.00	3.00

CO-PSO ATTAINMENT

Course	PSO1	PSO2	PSO3
ST-111	1.68	1.512	0.84
ST-112	1.466667	1.32	0.733333
ST-113	0.736	0.797333	0.552
ST-121	0.4	0.4	0.4
ST-122	0.6	0.266667	0.2
ST-123	0.826667	1.24	0.62
ST-231	1.68	1.12	1.12
ST-232	1.53	0.68	0.85
ST-233	2.68	1.786667	1.786667
ST-241	1.56	1.04	1.04
ST-242	1.213333	0.693333	0.866667
ST-243	1.04	1.213333	1.56
ST-351	1.36	0.68	1.133333
ST-352	2.52	0.84	1.96
ST-353	3	3	3
ST-354	2	3	3
ST-355	2	2	3
ST-356	3	3	3
ST-357	2	2.2	1.6
ST-358	2	3	3
ST-359	1.786667	2.144	2.68
ST-3510	0	0.5	0.25
ST-3511	1	2	2
ST-361	2	1.5	1.5
ST-362	2.04	1.36	1.7
ST-363	1.56	1.04	1.17
ST-364	1.56	1.43	1.56
ST-365(A)	1.3	1.43	1.43
ST-366 (C)	2.6	2.8	2.8
ST-367	2.333333	3	2.666667
ST-368	2.5	3	3
ST-369	1.5	1.5	1.5
ST-3610	0.25	1	0.5
ST-3611	2	3	3

CO-PSO ATTAINMENT

PSO1	PSO2	PSO3
84	84	84
73.33333	73.33333	73.33333
30.66667	30.66667	30.66667
20	20	20
20	20	20
41.33333	41.33333	41.33333
84	84	84
68	68	68
89.33333	89.33333	89.33333
52	52	52
52	52	52
52	52	52
68	68	68
84	84	84
100	100	100
100	100	100
100	100	100
100	100	100
100	100	100
89.33333	89.33333	89.33333
#DIV/0!	100	100
100	100	100
100	100	100
68	68	68
52	52	52
52	52	52
52	52	52
100	100	100
100	100	100
100	100	100
100	100	100
100	100	100