

**B.L.D.E.ASSOCIATION'S**  
**SB ARTS AND K.C.P. SCIENCE COLLEGE, VIJAYAPUR**  
**RE-ACCREDITED AT THE 'B<sup>++</sup>' LEVEL**  
**Bachelor of Science**

**Department of Statistics**

**MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES 2022-23**

**SEM: I**

**PAPER: Descriptive Statistics (DSC)**

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	2	1	-	-	2	-	1	2	3
CO2	2	3	3	-	3	2	-	2	2	2	3	2
CO3	3	3	2	2	3	3	2	1	1	1	2	2
CO4	3	3	3	3	2	3	-	2	2	2	3	2
CO5	3	2	3	3	2	3	1	2	3	2	3	3

**SEM: I**

**PAPER: Theory based Practical's on Descriptive Statistics**

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	3	2	1	-	-	2	-	1	2	3
CO2	2	3	3	-	3	2	-	2	2	2	3	2
CO3	3	3	2	2	3	3	2	1	1	1	2	2
CO4	3	3	3	3	2	3	-	2	2	2	3	2
CO5	3	2	3	3	2	3	1	2	3	2	3	3
CO6	1	2	2	-	-	2	1	2	-	-	2	1
CO7	1	-	-	-	2	1	2	3	-	-	1	1

**SEM: I**

**PAPER: Statistical Methods (OEC)**

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	-	-	1	-	2	1	-	1
CO2	3	2	1	3	1	-	2	-	1	2	1	2
CO3	2	3	2	3	-	1	-	1	1	2	1	-
CO4	2	2	1	2	2	-	1	-	1	1	2	1

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**Vijayapur.**

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**VIJAYAPUR**



SEM: II

PAPER: Probability and Distributions (DSC)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	2	3	-	2	2	2	3	2
CO2	3	2	2	3	3	2	1	-	2	3	2	2
CO3	1	2	2	1	-	1	2	1	1	2	1	-
CO4	2	3	1	2	-	2	-	3	1	1	2	3

SEM: II

PAPER: Theory based Practical's on Probability and Distributions

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	2	3	-	2	2	2	3	2
CO2	3	2	2	3	3	2	1	-	2	3	2	2
CO3	1	2	2	1	-	1	2	1	1	2	1	-
CO4	2	3	1	2	-	2	-	3	1	1	2	3

SEM: II

PAPER: Business Statistics(OEC)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	3	1	1	-	2	2	3	3	-
CO2	3	2	2	-	3	2	1	-	-	3	2	2
CO3	1	2	2	1	-	1	2	1	1	2	1	-

SEM: III

PAPER: Calculus and Probability Distributions (DSC)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	-	1	2	1	2	3	1	-
CO2	3	2	1	3	1	1	-	2	1	2	-	1
CO3	3	3	2	3	2	3	1	3	1	2	2	3
CO4	-	3	3	-	3	2	3	-	3	3	2	-
CO5	2	-	3	3	2	3	3	3	2	3	3	-

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SEM: III

PAPER: Practical's Calculus and Probability Distributions

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	-	1	2	1	2	3	1	-
CO2	3	2	1	3	1	1	-	2	1	2	-	1
CO3	3	3	2	3	2	3	1	3	1	2	2	3
CO4	-	3	3	-	3	2	3	-	3	3	2	-
CO5	2	-	3	3	2	3	3	3	2	3	3	-

SEM: III

PAPER: Population Studies(OEC)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	2	2	3	1	1	-	2	2	3	3	-
CO2	3	2	2	-	3	2	1	-	-	3	2	2
CO3	1	2	2	1	-	1	2	1	1	2	1	-

SEM: IV


PAPER: Statistical Inference-I(DSC)


Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	2	3	3	2	3	3	3	3
CO2	3	2	3	3	3	1	2	3	-	2	2	3
CO3	3	3	2	1	3	2	1	3	3	1	-	2
CO4	3	2	3	2	1	3	3	-	2	2	3	-
CO5	3	3	2	2	2	3	2	3	2	3	2	3


SEM: IV

PAPER: Practical's based on Statistical Inference-I

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	2	2	2	3	3	2	3	3	3	3
CO2	3	2	3	3	3	1	2	3	-	2	2	3
CO3	3	3	2	1	3	2	1	3	3	1	-	2
CO4	3	2	3	2	1	3	3	-	2	2	3	-
CO5	3	3	2	2	2	3	2	3	2	3	2	3

  
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SEM: V

PAPER-I: Inference and SQC (CBCS)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3	3	3	3	3	2	3	2	3	2
CO2	3	2	3	3	-	3	3	-	2	2	-	-
CO3	3	2	3	3	-	3	3	-	3	1	-	-
CO4	3	3	2	3	-	3	3	2	1	1	-	-
CO5	3	2	2	3	2	3	3	1	-	-	-	-

SEM: V

PAPER-I: Inference and SQC -Practical

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3	3	3	3	3	2	3	2	3	2
CO2	3	2	3	3	-	3	3	-	2	2	-	-
CO3	3	2	3	3	-	3	3	-	3	1	-	-
CO4	3	3	2	3	-	3	3	2	1	1	-	-
CO5	3	2	2	3	2	3	3	1	-	-	-	-

SEM: V


PAPER-II: Sampling Theory and Demography (CBCS)


Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	2	3	2	-	3	2	3	3
CO2	3	2	3	3	3	3	-	2	3	3	2	3
CO3	3	3	2	3	2	2	3	3	-	1	2	2
CO4	3	2	2	3	-	3	2	3	2	2	3	3
CO5	1	3	3	3	3	2	1	2	-	3	3	2


SEM: V

PAPER-II: Sampling Theory and Demography-Practical

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	2	3	2	-	3	2	3	3
CO2	3	2	3	3	3	3	-	2	3	3	2	3
CO3	3	3	2	3	2	2	3	3	-	1	2	2
CO4	3	2	2	3	-	3	2	3	2	2	3	3
CO5	1	3	3	3	3	2	1	2	-	3	3	2

  
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SEM: VI

PAPER-I: Design of Experiments (CBCS)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3	3	3	3	2	-	3	2	3	3
CO2	3	2	3	3	-	3	-	2	3	3	2	3
CO3	3	2	3	2	2	3	3	3	-	1	2	2
CO4	3	3	2	3	-	3	2	3	2	2	3	3
CO5	3	2	2	2	2	3	1	2	-	3	3	2

SEM: VI

PAPER-I: Design of Experiments-Practical

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3	3	3	3	2	-	3	2	3	3
CO2	3	2	3	3	-	3	-	2	3	3	2	3
CO3	3	2	3	2	2	3	3	3	-	1	2	2

SEM: VI


PAPER-II: Operations Research-I (CBCS)

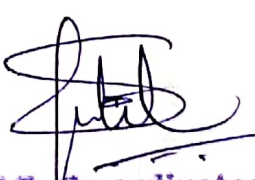
Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	2	3	2	-	2	3	2	-
CO2	3	2	3	3	3	3	-	2	3	3	-	2
CO3	3	3	2	3	2	2	3	3	2	2	3	3
CO4	3	2	2	3	-	3	2	3	-	3	2	3
CO5	1	3	3	3	3	2	1	2	3	2	1	2

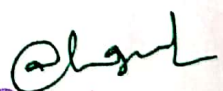
SEM: VI

PAPER-II: Operations Research-I-Practical

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	2	3	2	-	2	3	2	-
CO2	3	2	3	3	3	3	-	2	3	3	-	2
CO3	3	3	2	3	2	2	3	3	2	2	3	3
CO4	3	2	2	3	-	3	2	3	-	3	2	3
CO5	1	3	3	3	3	2	1	2	3	2	1	2

  
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**MAPPING OF COURSE OUTCOMES WITH PROGRAM OUTCOMES 2022-23**

**SEM: V**


**PAPER-I: Theory of Sampling(CBCS)**


Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3	3	3	3	3	2	3	2	3	2
CO2	3	2	3	3	-	3	3	-	2	2	-	-
CO3	3	2	3	3	-	3	3	-	3	1	-	-
CO4	3	3	2	3	-	3	3	2	1	1	-	-
CO5	3	2	2	3	2	3	3	1	-	-	-	-

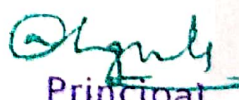
**SEM: V**

**PAPER-II: Population Studies (CBCS)**

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	2	3	2	-	3	2	3	3
CO2	3	2	3	3	3	3	-	2	3	3	2	3
CO3	3	3	2	3	2	2	3	3	-	1	2	2
CO4	3	2	2	3	-	3	2	3	2	2	3	3
CO5	1	3	3	3	3	2	1	2	-	3	3	2

  
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SEM: VI


## PAPER-I: ANOVA &amp; Designs of Experiments(CBCS)


Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	1	3	3	3	3	2	-	3	2	3	3
CO2	3	2	3	3	-	3	-	2	3	3	2	3
CO3	3	2	3	2	2	3	3	3	-	1	2	2
CO4	3	3	2	3	-	3	2	3	2	2	3	3
CO5	3	2	2	2	2	3	1	2	-	3	3	2

SEM: VI

## PAPER-II: Operations Research-I(CBCS)

Course Outcomes	Program Outcomes											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	3	2	2	2	3	2	-	2	3	2	-
CO2	3	2	3	3	3	3	-	2	3	3	-	2
CO3	3	3	2	3	2	2	3	3	2	2	3	3
CO4	3	2	2	3	-	3	2	3	-	3	2	3
CO5	1	3	3	3	3	2	1	2	3	2	1	2

  
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