

"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार"

-शिक्षणमहर्षी डॉबापूजी साळुंखे.

श्री स्वामी विवेकानंद शिक्षण संस्था, कोल्हापूर संचलित,

दत्ताजीराव कदम आर्ट्स, सायन्स अँड कॉमर्स कॉलेज, इचलकरंजी

संख्याशास्त्र

Program Outcomes:

Student will able to

- Acquire the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Statistics Mathematics, etc.
- Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.
- Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments
- Acquire the skills of observations and drawing logical inferences from the scientific experiments.
- Analyze the given scientific data critically and systematically and the ability to draw the objective conclusions.
- Develop scientific outlook not only with respect to science subjects but also in all aspects related to life.

Program Specific Outcomes:

- To provide a concise and clear description of a statistical problem.
- To provide a description of the method used for analysis, including a discussion of advantages, disadvantages, and necessary assumptions.
- To provide a discussion of the results and of the statistical analysis.
- To provide a conclusion to the study including a discussion of limitations of the analysis.
- To provide a derivation for mathematical statistics problems.

COURSE OUTCOME OF STATISTICS (sem-I&sem-II)

Descriptive Statistics and Probability Distribution

Students will learn to

- Organize, manage and present data.
- Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.
- Analyze statistical data using measures of central tendency, dispersion and location.
- Use the basic probability rules, including additive and multiplicative laws, using the terms, independent and mutually exclusive events.
- Translate real-world problems into probability models.
- Derive the probability density function of transformation of random variables.

- Calculate probabilities, and derive the marginal and conditional distributions of bivariate random variables
- Analyze Statistical data using MS-Excel.
- Use discrete and continuous probability distributions, including requirements, mean and variance, and making decisions.
- Define binomial outcomes and compute probability of getting X successes in N trials.
- Identify the characteristics of different discrete and continuous distributions.
- Identify the type of statistical situation to which different distributions can be applied.
 - Use Poisson, exponential distributions to solve statistical problems
 - Use the normal probability distribution including standard normal curve calculations of appropriate areas.
 - Use different distributions to solve simple practical problems.
- Analyze Statistical data using MS-Excel.

COURSE OUTCOME OF STATISTICS (sem-III & sem-IV)

After completing the course the students will acquire the ability to

- Calculate and interpret the correlation between two variables.
- Calculate the simple linear regression equation for a set of data.
- Employ the principles of linear regression and correlation, including least Square method, predicting a particular value of Y for a given value of X and Significance of the correlation coefficient.

- Know the association between the attributes.
- Know the construction of point and interval estimators.
- Evaluate the properties of estimators.
- Demonstrate understanding of the theory of maximum likelihood estimation.
- Analyze Statistical data using MS-Excel.