Skill Course on 'Research Methods and Data Analysis'

Open for Third Year Graduate Student w.e.f. 2022-23

Approved by the Board of Studies in Economics
And
Finalized by the Academic Council
Devrukh Shikshan Prasarak Mandal's
Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and
Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh.

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Academic Council Item No: _____

Name of the Implementing Institute	:	Nya. Tatyasaheb Athalye Arts, Ved. S. R. Sapre Commerce, and Vid. Dadasaheb Pitre Science College (Autonomous), Devrukh. Tal. Sangmeshwar, Dist. Ratnagiri-415804,
Name of the Parent University	:	University of Mumbai
Name of the Programme	:	Bachelor of Arts
Name of the Class to Which the course is Open	:	Third Year, Semester Six
No. of Credits	:	03
Title of the Course	:	Research Methods and Data Analysis
Course Code	:	UECSK62
Passing Marks		40%
Nature of Course	:	Skill Course
Level	:	UG/ PG
Pattern	:	70:30
Status	:	Multidisciplinary- Open to all in the Third Year
To be implemented from Academic Year	:	2022-2023

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Syllabus for Skill Course on Research Methods and Data Analysis

(With effect from the academic year 2022-2023)

Title of the Course: Research Methods and Data Analysis

COURSE CODE: UECSK62   **Credits - 03**

Module No.	Content	Theory Lectures	Practical
1	**Introduction to Research Methods** o What is Research? o Identifying the research problem o Quantitative Research Methods -Closed-ended questionnaires/survey and Structured Interviews o Qualitative Research Methods – Focus Groups, Observation, Open-ended Questionnaires, Structured and semi-structured interviews, Theoretical analysis o Mixed Method Approach o Plagiarism –Concept and precautions	04	15
2	**Preparation of Research Design** o What is research design? o Need of a research design o Types of research design o Steps in preparing research design	02	08
3	**Sampling** o What is sample? o Sample size o Sampling methods o Sampling errors	03	07
4	**Classifying and describing the data** o Classification of data o graphical representations, o measures of central tendency o measures of variability	03	15
5	**Inferential Statistics** - What are Inferential Statistics? - Estimating population parameters - Point estimators, Interval estimators - Confidence intervals o Introduction to hypothesis	03	15
	Total	15	60

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Practical Record: A journal comprising one exercise each needs to be submitted by the student at the end of the semester.

After completing the course, the learner will be able to…		
Course Learning Outcome No.	Blooms Taxonomy	Course Learning Outcome
CLO-01	Remember	Remember the fundamentals of Research Methodology
CLO-02	Identify	Identify the research problem
CLO-03	Apply	Apply the research methods to do research
CLO-04	Distinguish	Distinguish between descriptive statistics and inferential statistics
CLO-05	Design	Design the research proposal
CLO-06	Justify	Justify the research problem under consideration

Required Previous Knowledge

No previous knowledge is necessary to start learning the course.

Access to the Course

The course is available for all the students admitted for Bachelor of Arts, Commerce, and Science and admitted in the last year at UG as well as PG.

Forms of Assessment

The assessment will be in the form of a Continuous Assessment. Students completing the Course as per the direction of the concerned teacher and submitting the day to the journal will be graded according to the quality of the work done by the student.

Grading Scale

The grading scale used is O to F. Grade O is the highest passing grade on the grading scale, and grade F is a fail. The Board of Examinations of the college reserves the right to change the grading scale.

References:

Bhandarkar P.L., (1994), Samajik Sanshodhan Padhati, Himalaya Publication, New Delhi.

Dawson, Catherine (2002), Practical research methods, UBS Publishers, New Delhi.

Ghosh, B.N. (1992), Scientific methods and social research, Sterling Publishers Pvt. Ltd, New Delhi.

Gupta S P, (1987), Statistical methods, Sultan Chand and Sons, New Delhi.

Kothari C. R. (2008), Research methodology, methods and techniques, New Age International Publishers, New Delhi.

Krishnaswamy O.R.(1993), Methodology of research in social sciences, Himalaya publishing House, Mumbai.

Kumar Ranjit (2016), Research methodology: Step by step guide for beginners, Sage

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