



SKILL COURSE ON 'USE OF COMPUTER TECHNOLOGY IN DATA ANALYSIS'

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



**APPROVED BY THE BOARD OF STUDIES IN GEOGRAPHY
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.
Tal.Sangmeshwar, Dist. Ratnagiri-415804, Maharashtra, India**

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 and Science
Name of the Class to Which the course is Open	:	Third Year, Fifth Semester
No. of Credits	:	03
Title of the Course	:	Use of Computer Technology in Data Analysis
Course Code	:	UGESK51
Passing Marks	:	40%
Nature of Course	:	Skill Course
Level	:	UG
Pattern	:	70:30 (Skill – 70: Theory: 30)
To be implemented from Academic Year	:	2022-2023

Syllabus for Skill Course on Use of Computer Technology in Data Analysis**(With effect from the academic year 2022-2023)****Title of the Course: Use of Computer Technology in Data Analysis****COURSE CODE: UIGES51****Credits - 03**

COURSE CONTENT			
Module No.	Content	Theory Lectures	Practical Lectures
1	Use of Google services for data collection <ul style="list-style-type: none"> ○ E-Questionnaire ○ converting a questionnaire to excel sheet format ○ data editing in Excel ○ Simple statistical analysis in Excel ○ Data exporting from excel to SPSS 	00	15
2	Introduction To SPSS <ul style="list-style-type: none"> ○ Starting SPSS In Windows ○ Data Editor ○ Output Viewer ○ Syntax Editor ○ Script Editor ○ Data Editor Toolbar ○ Menu Bar 	00	15
3	Creating Data Files In SPSS <ul style="list-style-type: none"> ○ Defining Variables ○ Entering Data ○ Frequency Distribution ○ Measures Of Central Tendency ○ Generating Tables 	00	15
4	Correlation And Regression <ul style="list-style-type: none"> ○ Correlation Through Cross Tabs ○ Correlation Through Correlate Bivariate ○ Simple Regression ○ Multiple Regression 	00	15
5	T-Tests <ul style="list-style-type: none"> ○ One-Sample T-Test ○ Dependent Sample/ Paired Samples T-Test ○ Independent Samples T-Test 	00	15
6	ANOVA and <ul style="list-style-type: none"> ○ One Way ANOVA ○ Two Way ANOVA ○ Chi-Square Test ○ Spearman's rank correlation 	00	15
	Total	00	90

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 SPSS
CLO-02	Understand	Understand data and variable views in SPSS
CLO-03	Apply	Apply descriptive statistics and other tools for data analysis
CLO-04	Analyze	Analyze various tests for hypothesis testing
CLO-05	Evaluate	Evaluate the accuracy of various tests
CLO-06	Create	Create data files in SPSS

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 second year at UG as well as PG.

SKILL COURSES- SCHEME OF EXAMINATION

A) Theory Component- 30 marks

a) Class Test- 10 marks

One class test of 30 marks, one hr duration, shall be conducted in a given semester, and the performance of students in the test shall be converted to out of 10 marks.

b) Semester End Assessment (SEA)- 20 marks

The Semester End Examination of 50 marks, 2 hrs duration, shall be conducted at the end of the semester, and the performance of students in the examination shall be converted to out of 20 marks.

B) Skill Component- 70 marks

- 1) Attendance- 10 marks
- 2) Journal/ workbook/assignment book- 20 marks
- 3) Viva- 10 marks
- 4) Skill Assessment- 30 Marks-Any two practicals in the laboratory

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:

1. Dr. Dinesh Gabhane, Dr. S B Kishor, and Dr. Madhuri Bankar (2022): SPSS 20.0: A Guide to Statistical Analysis For Researchers, Himalaya Publishing House, Mumbai.
2. Anil Kumar Mishra (2020): A Handbook on SPSS For Research Work, Himalaya Publishing House, Mumbai.