



DEPARTMENT OF STATISTICS
VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
(Re- Accredited 'B++' 2.86 CGPA by NAAC)

is organizing

One week (40 hours) Faculty Development Program (FDP)

on

“Statistical Analysis with Python”

Under PM-USHA (Soft Component)

During 29th Sept. to 4th Oct. 2025





About Veer Narmad South Gujarat University, Surat

Veer Narmad South Gujarat University (VNSGU) is a prominent public university located in Surat, Gujarat—one of India's fastest-growing cities, renowned for its thriving diamond and textile industries. Established in 1965, the university has consistently aimed to be a center of excellence in higher education, aligning its goals with regional needs and emerging global trends.

Named after the celebrated Gujarati poet Narmadshankar Lalshankar Dave, VNSGU boasts a sprawling campus of over 210 acres. In 2022, the university was re-accredited with a 'B++' grade and a CGPA of 2.86 on a 4-point scale by NAAC. It offers a wide range of academic programs across 12 faculties, catering to approximately 250,000 students through its 27 postgraduate departments and over 250 affiliated colleges.

About the Department of Statistics

The Department of Statistics at Veer Narmad South Gujarat University was established in 1970 as a joint Department of Mathematics and Statistics. In 1972, the Mathematics section was separated to form an independent department. In 1996, the department was assigned the responsibility of managing the Computer Science teaching programs (MCA, DCA) as well as the administration of the Central University Computer Centre. Between 1996 and 2003, significant departmental resources and efforts were dedicated to strengthening these Computer Science programs and the Computer Centre, culminating in the university's approval to establish a separate Department of Computer Science from the academic year 2003-04. Building on its commitment to serve society through knowledge, the department

launched a self-financed postgraduate program, M.Sc. (Applied Statistics), in the academic year 2007-08.

Currently, the Department of Statistics offers the following academic programs:

- M. Sc. (Statistics) & Ph. D. (Statistics)
- M. Sc. (Applied Statistics) & Pd. D. (Applied Statistics)

In addition, the department provides several certificate courses, including:

- Python for Statistics - Since Feb. 2022
- Communicative English for Career (CEC) - Since Oct. 2022
- Advanced Excel for Business Analytics - Since May 2023
- Statistical Data Analysis using SPSS - Since May 2023



Proposed outcomes & Justification:

The proposed Faculty Development Program on “*Statistical Analysis with Python*” is designed to equip research scholars and faculty members with advanced data analysis skills, enhancing their capacity to perform sophisticated statistical analyses in their research work. Through hands-on sessions, participants will apply theoretical concepts to real-world datasets, enabling them to extract meaningful and actionable insights.

By promoting interdisciplinary research collaborations and strengthening analytical expertise, the program aims to increase the quality and impact of research publications. Proficiency in open-source tools like Python will empower participants to confidently utilize modern data analysis software, reducing dependence on costly proprietary alternatives.

Moreover, this knowledge will allow participants to incorporate advanced statistical techniques into their teaching, thereby enriching their institutions’ academic programs. The program also aligns with current industry standards, enhancing participants’ employability and relevance in today’s dynamic research environments.

Program Overview

The Faculty Development Program (FDP) on “*Statistical Analysis with Python*” is a one-week, 40-hour intensive training designed to equip faculty members and research scholars with both the theoretical foundations and practical skills required for advanced statistical analysis. The program emphasizes the use of Python—a versatile and powerful programming language—to perform a wide range of statistical techniques commonly applied in academic research.

Target Audience & Selection Criteria:

- Faculty members and researchers from diverse academic disciplines who seek to enhance their statistical analysis skills using open-source tools, particularly Python.
- Participants will be selected on a first-come, first-served basis. **Bringing a laptop for hands-on practice during all sessions is mandatory.**



Program Details:

Duration: One week (6 days – 40 hours)

Number of Participants: 50

Mode of Delivery: Classroom-based training with computer lab-oriented hands-on sessions

There is no registration fee for this FDP; however, registration is mandatory

Learning Objectives

By the end of the program, participants will be able to:

1. Comprehend statistical concepts ranging from foundational to advanced levels, with a focus on practical applications.
2. Develop proficiency in using Python for data analysis, visualization, and statistical modelling.
3. Perform key statistical methods—such as hypothesis testing, regression, and multivariate analysis—using Python.
4. Apply appropriate statistical techniques to analyze real-world datasets and address research questions across various disciplines.

Outcomes

- Develop a solid understanding of core and advanced statistical concepts.
- Acquire the ability to analyze data and perform a variety of statistical tests using Python.
- Gain practical proficiency in data visualization techniques for effective communication of insights.
- Build confidence in applying statistical methods to real-world research problems and datasets across disciplines.



Assessment and Certification

- Participants will be evaluated based on their performance in a capstone project presentation and their active participation in hands-on sessions.
- Certificates will be awarded to those who successfully complete all program requirements.

Accommodation

A limited number of accommodations are available on a first-come, first-served basis for outstation participants, upon prior request. These will be provided within the university campus. Participants who do not secure campus accommodation are kindly requested to make their own stay arrangements.

Transportation

Surat is well connected by rail, road, and air to all major cities and towns. Veer Narmad South Gujarat University is located approximately 11 km from the Surat Railway Station and Central Bus Stand, and about 7 km from Surat Airport. Local transportation, including buses and auto-rickshaws, is readily available for commuting.

Registration

Interested candidates to fill the following Registration form:

Link: <https://forms.gle/CQbFVHE1pqKxVxL48>

Last Date of Registration: 15th Sept. 2025 (Only 50 seats are available)



PATRON

Dr. Kishoresinh N. Chavda
Vice Chancellor, VNSGU, Surat

CO-PATRON

Dr. Rameshdan C. Ghadvi
Registrar, VNSGU, Surat

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Venue

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Get to Know the Department of Statistics:

<https://www.vnsgu.ac.in/departments/statistics/index.html> ,
<https://www.facebook.com/profile.php?id=100006747195824>
<https://www.instagram.com/statisticsdepartment.vnsgu/> ,
<https://www.vnsgu.ac.in/departments/statistics/testimonials.html>