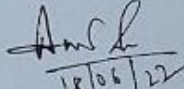


### IQAC recommendation

IQAC, Vivekananda College, Thakurpukur, met on 18/June/2022, to envisage, formulate and design Add-On Courses, beyond prescribed Curriculum. The IQAC has also decided to organise a program on staff training:

- A. It was decided that all the departments of Humanities, Science and Commerce would design and formulate 30 hour Add-On Courses for 2022-23, Academic calendar, as per UGC guidelines.
- B. It was decided that the Departments would be free to choose the Courses on the basis of their (subject) relevance, practicality and feasibility.
- C. It was decided that the Departments would have a Course Coordinator, who would design the Course and Course materials, in consultation with all teachers of the Department.
- D. It was decided that each Department would design their own format; and could follow a blended mode of instruction.
- E. It was decided that the Departments would be encouraged to use and utilize their own resources while formulating the Add-On Courses, rather than relying on Outsourcing.
- F. IQAC would send its recommendations to the Principal/TIC for perusal and implementation.
- G. The IQAC would also organise a Staff Training programme - 'Effective Working Style' Conducted by IPE Of Professional Excellence On 25th June 2022 .

  
18/06/22

Co-ordinator  
IQAC  
Vivekananda College  
Kolkata-700 063



# VIVEKANANDA COLLEGE

(GOVT. SPONSORED) (NAAC ACCREDITED GRADE 'A')

(033) 2497 6824  
(033) 2497 6834

Ref. No.....

Date.....

## Notice

It is hereby notified that Vivekananda College, Thakurpukur, will offer Add-On Courses to All Honours students for the Academic year 2022-23.

Each Department will offer an Add-On Course as per UGC guidelines. Each Course will be structured & overseen by a Course Coordinator, selected from the respective Department. Departmental Heads are requested to take up the matter on an urgent basis.

*Handwritten signature and date: 24/6/22*

Principal

Principal  
Vivekananda College  
Thakurpukur, Koi-63

## Notice

Date: 03/04/23

A meeting will be held on 06/04/23 at 6 p.m. in Google Meet on the following Agenda:-

- i) Academic Plan for 'Add on Course' on STATA & MINITAB
- ii) Miscellaneous

*Nilkanta Mukherjee*  
HOD 03/04/23  
[Dept. Of Statistics]

VIVEKANANDA COLLEGE, THAKURPUKUR

DEPARTMENT OF STATISTICS

Resolution of the Departmental Meeting held on 06/04/2023

A. Teachers present in the Meeting:

- i) Prof. Nilkanta Mukherjee
- ii) Prof. Sutapa Biswas
- iii) Prof. Riddhi Das Majumder

B. Minutes of the Meeting:

- i) In the departmental meeting, all the teachers of our department unanimously decided that the hon's. Students would be offered a 40 hrs. Add-On Course on "DATA ANALYTICS USING STATA/MINITAB" (40 hours).
- ii) It was also decided in the meeting that Prof. Nilkanta Mukherjee of Dept. of Statistics would be the Course Coordinator for the Add-On Course.
- iii) The course structure of the Add-On Course submitted by Prof. Nilkanta Mukherjee was accepted by all the teachers of the Department
- iv) Certificates would be given to each student at the successful completion of the course

*Nilkanta Mukherjee*

HOD  
[Dept. Of Statistics]

*06/04/2023*

*(Rm)*  
*6/4/23*

*Rm*  
*6/4/23*

VIVEKANANDA COLLEGE THAKURPUKUR

DEPARTMENT OF STATISTICS

Syllabus of value-added course

on

“DATA ANALYTICS USING STATA/MINITAB” (40 hours)

**Unit-1: A Brief Introduction to Stata [10L-10 Hours]**

Getting help and information, Running Stata, Conventions used in the book, Create Datasets in Stata, Stata commands, Data management, Graphics, Stata as a calculator, Estimation, Brief introduction to programming, Keeping Stata up to date, Exercises.

**Unit-2: Data Description and Simple Inference and ANOVA [10L-10 Hours]**

Description of data, Group comparison and correlations, Analysis using Stata, Exercises

Analysis of Variance I- Description of data, Analysis of variance model, Analysis using Stata, Exercises

Analysis of Variance II: Description of data, Analysis of variance model, Analysis using Stata, Exercises

**Unit-3: Regression analysis [10L-10 Hours]**

*Multiple Regression*

Description of data, the multiple regression model, Analysis using Stata, Exercises

*Logistic Regression*

Description of data, the logistic regression model, Analysis using Stata, Exercises

**MINITAB: [10 Hours]**

- Introduction of MINITAB as a helping tool in Data Analysis.
- Data visualization techniques using MINITAB.
- Time Series Analysis using MINITAB.
- Analysis of Variance using MINITAB.

**Mode of Evaluation: Exam/Assignment**

It will be discussed in detail later on.

**Special Opportunity:**

Doing Project on real life data.

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## **LESSON PLAN OF DATA ANALYSIS USING STATA/MINITAB**

Resource Person: Prof. Nilkanta Mukherjee

<u>Sl no.</u>	Topic (using MINITAB)	No. of Classes
1	Introduction, Data Cleaning Outlier detection	1
2	Data Visualization, Data Classification	1
3	Descriptive Statistics & their practical justifications	2
4	Report writing Techniques	1

Resource Person: Prof. Riddhi Das Majumdar

<u>Sl no.</u>	Topic (Theoretical Concept)	No. of Classes
1	Introduction to Statistical Inference	1
2	Constructions of Null Hypothesis, Alternative Hypothesis Critical region, P-Value based conclusions.	1
3	Non-Parametric Testing	1
4	Different types of Testing Techniques based on different Types of objectives.	1

Resource Person: Prof. Sutapa Biswas

<u>Sl no.</u>	Topic (using MINITAB)	No. of Classes
1	Different types of Component Analysis in Time Series	2
2	Relation between Longitudinal Data & Time Series Data	2
3	Stochastic approach in Time Series Analysis such as MA(q), AR(p), ARMA, ARIMA etc.	3
4	Data Driven conclusion writing of Time Series Data.	3

Resource Person: Prof. Nilkanta Mukherjee

<u>Sl no.</u>	Topic	No. of Classes
1	Introduction to Stata	2
2	Data description, Group comparison, ANOVA	3
3	Multiple Regression	4
4	Logistic Regression	2

Examination will be held at the end program