

VAC129	BASIC STATISTICS
Contact Hours	30 Hours
Prerequisite	Nil

Course Description

Understanding statistics is essential to understand research. In this course students will learn the basics of statistics; not just how to calculate them, but also how to evaluate them. In the first part of the course they will learn methods of descriptive statistics. They will learn what cases and variables are and how you can compute measures of central tendency (mean, median and mode) and dispersion (standard deviation and variance). Next, they will learn how to assess relationships between variables with the help of the concepts correlation and regression. The second part of the course is concerned with the basics of probability: calculating probabilities, probability distributions and sampling distributions. The third part of the course consists of an introduction to methods of inferential statistics - methods that help them decide whether the patterns they see in the data are strong enough to draw conclusions about the underlying population. They will discuss confidence intervals and significance tests.

Course Objectives

Students will be able to:

- Draw conclusions about the underlying population using descriptive statistics.
- Assess relationships between variables.
- Apply laws of probability to concrete problems.

Course Outcomes

On completion of this course, students will be able to:

CO 1: Discuss and compute measures of central tendency (mean, median and mode) and dispersion (standard deviation and variance).

CO 2: Assess relationships between variables using the concepts correlation and regression.

CO 3: Understand the basics of probability: calculating probabilities, probability distributions and sampling distributions.

Course Content

Module I

7 hours

Measures of central tendency (like mode, median and mean) and dispersion (like range, interquartile range, variance and standard deviation), z-scores.

Module II**5 hours**

Measures of correlation: Pearson's ,Method of OLS regression analysis

Module III**8 hours**

Definition of probability, Concepts of events, sample space and random trials, conditional probabilities, independence and Bayes rule , basic properties of a probability distribution.

Module IV**10 hours**

Types of statistical inference methods: estimate population parameters & test hypotheses , Estimation by means of a confidence interval, null hypothesis and the alternative hypothesis, Type I and Type II errors.

Textbooks

Donnelly, R. A. Jr. (2016). Statistics. McGraw-Hill Education.

Freedman, D., Pisani, R., & Purves, R. (2007). Statistics. W. W. Norton & Company.

Reference Books

Moore, D. S., Notz, W. I., & Fligner, M. A. (2018). The Basic Practice of Statistics. W. H. Freeman.

Witte, R. S., & Witte, J. S. (2019). Statistics. Wiley.

	Evaluation Component	Weightage (%)
1	Activities and Assignments	20
2	Project/Presentation	20
3	Attendance	10
4	End Term Examination	50



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K.R. MANGALAM UNIVERSITY
E D U C A T I O N F O R L I F E
(Recognized by UGC and a member of AIU)

Ref.No.:KRMU/Admin./Notice/2022-23/ 3878(A)

Dated: 12th August, 2022

NOTICE

This is to put for information that School of Humanities is offering Value-Added Course (VAC) for all interested students during Odd Semester as per the following specifications.

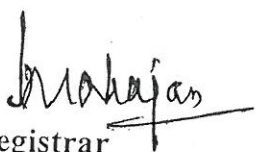
Course Code	Course Title	Coordinating Department / School	Duration
VAC129	Basic Statistics	SOHS	30 Hrs.
VAC138	Time Management and Self-Regulation	SOHS	30 Hrs.
VAC139	Science of Happiness	SOHS	30 Hrs.
VAC146	Behavioral Skills	SOHS	30 Hrs.

Maximum 100 seats are available for the course.

Course Start Date: 05 September 2022

Course End Date: 29 December 2022

All interested students are required to confirm their registration with the Dean-School of Humanities latest by 27th August, 2022.



Registrar

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Copy to: K.R. Mangalam University
Sohna Road, Gurugram (Haryana)

- Vice Chancellor : For kind information
- Dean (Academics Affairs)
- Controller of Examinations
- All Deans/ School Coordinators
- All Faculty Members/ Mentors
- Notice Board
- Office Copy



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Sohna Road, Gurugram (Haryana)



ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC129

COURSE TITLE: BASIC STATISTICS

ROLL NO	NAME	PROGRAMME	SEMESTER	5-Sep-22	8-Sep-22	10-Sep-22	12-Sep-22	15-Sep-22	17-Sep-22
2209200035	GARIMA	B.A.JMC	Semester I	A	P	P	P	P	P
2209200034	KHUSHAL MALHOTRA	B.A.JMC	Semester I	A	P	P	P	A	A
2202080148	ANSHUL CHAUDHARY	BBA	Semester I	P	P	P	P	A	P
2202080147	SACHIN	BBA	Semester I	A	P	P	P	P	P
2206810014	TISHA SHARMA	B Interior Design	Semester I	P	P	P	P	P	A
2206810009	ANJALI PODDAR	B Interior Design	Semester I	A	P	P	P	P	P
2202082121	SAHIL SONI	BBA	Semester I	A	P	P	P	A	P
2202082120	MOHIT SHARMA	BBA	Semester I	P	P	P	P	A	P
2202390005	MOHIT	BBA in BI and Analytics SAMATRIX	Semester I	A	P	P	A	P	P
2202390004	RISHIKA KISHORE	BBA in BI and Analytics SAMATRIX	Semester I	P	P	P	P	P	P

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COURSE INCHARGE

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Haryana 122103

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COURSE TITLE: BASIC STATISTICS

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ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC129

COURSE TITLE: BASIC STATISTICS

ROLL NO	NAME	13-Oct-22	15-Oct-22	17-Oct-22	20-Oct-22	22-Oct-22	23-Oct-22	24-Oct-22	27-Oct-22	29-Oct-22	31-Oct-22
2209200035	GARIMA	P	A	P	A	P	P	A	P	P	A
2209200034	KHUSHAL MALHOTRA	P	P	P	P	P	P	P	P	P	P
2202080148	ANSHUL CHAUDHARY	P	P	P	P	P	P	P	P	P	P
2202080147	SACHIN	P	P	P	P	P	P	P	P	P	A
2206810014	TISHA SHARMA	P	P	P	P	P	P	P	A	P	P
2206810009	ANJALI PODDAR	A	P	P	P	P	P	P	P	P	A
2202082121	SAHIL SONI	P	P	P	P	P	P	A	P	P	P
2202082120	MOHIT SHARMA	P	P	P	A	A	P	P	P	P	P
2202390005	MOHIT	P	P	P	P	P	P	P	P	P	P
2202390004	RISHIKA KISHORE	P	P	A	P	A	P	P	P	P	P

Signature of Course Incharge

COURSE INCHARGE

Signature of Dean

DEAN

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VAC COURSE FOR ACADEMIC YEAR 2022-23
COURSE CODE: VAC129
COURSE TITLE: BASIC STATISTICS

ROLL NO	NAME	1-Nov-22	5-Nov-22	7-Nov-22	10-Nov-22	12-Nov-22	14-Nov-22	17-Nov-22	19-Nov-22	21-Nov-22	24-Nov-22
2209200035	GARIMA	P	P	P	P	P	P	P	P	P	P
2209200034	KHUSHAL MALHOTRA	P	P	P	P	P	P	P	P	P	P
2202080148	ANSHUL CHAUDHARY	P	P	P	P	P	P	P	P	A	P
2202080147	SACHIN	P	P	P	P	A	P	P	P	P	P
2206810014	TISHA SHARMA	P	P	P	P	P	P	P	P	P	P
2206810009	ANJALI PODDAR	P	P	A	P	P	P	P	P	P	A
2202082121	SAHIL SONI	P	P	P	P	P	P	P	P	A	P
2202082120	MOHIT SHARMA	P	P	P	A	P	P	P	A	P	P
2202390005	MOHIT	P	P	P	P	P	P	P	P	P	P
2202390004	RISHIKA KISHORE	P	P	P	P	P	P	A	P	P	A


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VAC COURSE FOR ACADEMIC YEAR 2022-23
COURSE CODE: VAC129
COURSE TITLE: BASIC STATISTICS

ROLL NO	NAME	26-Nov-22	28-Nov-22	1-Dec-22	3-Dec-22	5-Dec-22	8-Dec-22	10-Dec-22	12-Dec-22	15-Dec-22	17-Dec-22
2209200035	GARIMA	P	P	A	P	A	P	P	A	P	P
2209200034	KHUSHAL MALHOTRA	P	P	P	P	P	P	P	P	P	P
2202080148	ANSHUL CHAUDHARY	P	P	P	P	P	P	P	P	P	P
2202080147	SACHIN	P	P	P	P	P	P	P	P	P	P
2206310014	TISHA SHARMA	P	P	P	P	P	P	P	P	A	P
2206310009	ANJALI PODDAR	A	A	P	P	P	P	P	P	P	P
2202082121	SAHIL SONI	P	P	P	P	P	P	P	A	P	P
2202082120	MOHIT SHARMA	A	P	P	A	P	A	P	P	P	P
2202390005	MOHIT	A	A	P	P	A	P	P	P	A	P
2202390004	RISHIKA KISHORE	P	P	P	A	P	A	P	P	P	P


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VAC COURSE FOR ACADEMIC YEAR 2022-23
COURSE CODE: VAC129
COURSE TITLE: BASIC STATISTICS

ROLL NO	NAME	19-Dec-22	22-Dec-22	24-Dec-22	26-Dec-22	29-Dec-22	Total	Present	Percentage
2209200035	GARIMA	P	A	P	P	A	51	41	80.39
2209200034	KHUSHAL MALHOTRA	P	P	P	P	A	51	47	92.16
2202080148	ANSHUL CHAUDHARY	P	P	P	P	P	51	47	92.16
2202080147	SACHIN	P	A	P	A	A	51	44	86.27
2206810014	TISHA SHARMA	P	P	A	P	A	51	45	88.24
2206810009	ANJALI PODDAR	P	P	P	A	A	51	39	76.47
2202082121	SAHIL SONI	P	P	P	A	P	51	44	86.27
2202082120	MOHIT SHARMA	P	P	P	P	P	51	39	76.47
2202390005	MOHIT	P	P	P	P	P	51	44	86.27
2202390004	RISHIKA KISHORE	P	A	A	P	P	51	40	78.43

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VALUE ADDED COURSE (VAC)

ACADEMIC YEAR 2022-23

COURSE CODE: VAC129

COURSE TITLE: BASIC STATISTICS

COURSE OFFERED BY: SCHOOL OF HUMANITIES (SOHS)

LIST OF STUDENTS COMPLETING THE COURSE

S.NO	SESSION	ROLL NO	NAME	PROGRAMME	SEMESTER	COURSE CODE	COURSE TITLE	SCHOOL
1	2022-23	2209200035	GARIMA	B.A.JMC	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF JOURNALISM AND MASS COMMUNICATION (SJMC)
2	2022-23	2209200034	KHUSHAL MALHOTRA	B.A.JMC	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF JOURNALISM AND MASS COMMUNICATION (SJMC)
3	2022-23	2202080148	ANSHUL CHAUDHARY	BBA	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
4	2022-23	2202080147	SACHIN	BBA	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
5	2022-23	2206810014	TISHA SHARMA	B Interior Design	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF ARCHITECTURE & DESIGN (SOAD)
6	2022-23	2206810009	ANJALI PODDAR	B Interior Design	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF ARCHITECTURE & DESIGN (SOAD)
7	2022-23	2202082121	SAHIL SONI	BBA	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
8	2022-23	2202082120	MOHIT SHARMA	BBA	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
9	2022-23	2202390005	MOHIT	BBA in BI and Analytics S	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
10	2022-23	2202390004	RISHIKA KISHORE	BBA in BI and Analytics S	Semester I	VAC129	BASIC STATISTICS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)

[Signature]

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This is to certify that **GARIMA**, University Enrolment No **2209200035** of **B.A.JMC** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

hahajan

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This is to certify that **KHUSHAL MALHOTRA**, University Enrolment No **2209200034** of **B.A.JMC** programme has successfully qualified **VALUE ADDED COURSE VAC129** (**BASIC STATISTICS**) during Academic Session **2022-23** (Odd Semester).

Date: 20.02.2023

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This is to certify that **Anshul Chaudhary**, University Enrolment No **2202080148** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

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This is to certify that **Sachin**, University Enrolment No **2202080147** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

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This is to certify that **TISHA SHARMA**, University Enrolment No **2206810014** of **B Interior Design** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Shahajan

Date: 20.02.2023

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This is to certify that **Anjali Poddar**, University Enrolment No **2206810009** of **B Interior Design** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

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This is to certify that **Sahil Soni**, University Enrolment No **2202082121** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

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This is to certify that **Mohit Sharma**, University Enrolment No **2202082120** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

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This is to certify that **Mohit**, University Enrolment No **2202390005** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

Date: 20.02.2023

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This is to certify that **Rishika Kishore**, University Enrolment No **2202390004** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC129 (BASIC STATISTICS)** during Academic Session **2022-23 (Odd Semester)**.

harajan

Date: 20.02.2023

Controller of Examination

Prof

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