

VAC001	SPSS for Data Analysis
Contact Hours	35 Hours
Prerequisite	Nil

Course Description

A skill course on SPSS (Statistical Package for the Social Sciences) typically focuses on teaching participants how to use SPSS software for data analysis and statistical research. SPSS is widely used in various fields, including social sciences, business, and healthcare, for tasks such as data entry, manipulation, and advanced statistical analysis.

Course Objectives

1. Know the main components of the SPSS interface, including data view, variable view, and output window.
2. Input and import various types of data into SPSS, including text and numeric data, and manage missing data.
3. Clean and preprocess data, including identifying and handling outliers, recoding variables, and creating new variables.
4. Calculate and interpret basic descriptive statistics, such as mean, median, standard deviation, and frequency distributions.
5. Create various types of charts and graphs (e.g., histograms, bar charts, scatter plots) to visually represent data.
6. Perform basic inferential statistical tests, such as t-tests, chi-square tests, and ANOVA.
7. Perform correlation analysis and simple linear regression to analyze relationships between variables.
8. Interpret and present results from SPSS output, including tables, charts, and statistical significance.

Course Content

Module I: Introduction to SPSS

5 hours

- Introduction to SPSS software and its applications in data analysis.
- Overview of the SPSS interface: Data view, Variable view, Output window.
- Data entry and importing data from external sources.
- Managing variables: Defining types, labels, and values.

Module II: Data Cleaning and Descriptive Statistics

5 hours

- Data cleaning and preparation: Handling missing values, and recoding variables.
- Calculating and interpreting basic descriptive statistics: Mean, median, mode, variance, standard deviation, etc.
- Creating frequency distributions and histograms.



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Module III: Graphical Representations

5 hours

- Creating different types of charts and graphs: Bar charts, pie charts, histograms, line graphs.
- Customizing graphical representations: Labels, titles, colors.

Module IV: Inferential Statistics

8 hours

- Introduction to inferential statistics and hypothesis testing.
- Performing t-tests for independent samples and paired samples.
- Chi-square test for categorical data analysis.
- Analysis of Variance (ANOVA) for comparing means of multiple groups.

Module V: Correlation and Regression

8 hours

- Correlation analysis: Pearson correlation coefficient, interpretation, and significance.
- Simple linear regression: Modeling relationships between variables, interpreting coefficients.
- Introduction to multiple regression: Predictive modeling using multiple predictors.

Module VI: Interpreting Output and Reporting Results

4 hours

- Interpreting SPSS output tables and charts.
- Presenting results: Effective ways to communicate findings.

Practicum

1. Hands-on Labs: Practical sessions where participants work on SPSS exercises under the guidance of the course instructor.
2. Case Studies: Analyzing real-world datasets to illustrate various statistical techniques.
3. Group Discussions: Engaging participants in discussions about data analysis approaches and interpretations.
4. Quizzes and Assessments: Evaluating participants' understanding through quizzes and assignments.
5. Final project: Apply SPSS skills to analyze a provided dataset, interpret results, and present findings.

Textbooks

Field, A. (2018). *Discovering statistics using IBM SPSS statistics (5th ed.)*. Sage.

Pallant, J. (2016). *SPSS survival manual: A step by step guide to data analysis using IBM SPSS (6th ed.)*. Open University Press.

Miller, R., & Huibregts, B. (2019). *SPSS for social scientists (2nd ed.)*. Palgrave Macmillan.

Aldrich, J. O., & Cunningham, J. B. (2019). *Using IBM SPSS statistics: An interactive hands-on approach (6th ed.)*. Sage.

Reference Books

Gravetter, F. J., & Wallnau, L. B. (2021). *Essentials of statistics for the behavioral sciences (10th ed.)*. Cengage Learning.

Witte, R. S., & Witte, J. S. (2017). *Statistics (11th ed.)*. Wiley.

Yockey, R. D. (2014). *SPSS demystified: A simple guide and reference (3rd ed.)*. Pearson.

Cronk, B. C. (2017). *SPSS essentials: Managing and analyzing social sciences data (2nd ed.)*. Routledge.

Holcomb, Z. C. (2016). *SPSS basics: Techniques for a first course in statistics (4th ed.)*. Cengage Learning.

Stevens, J. P. (2012). *Applied multivariate statistics for the social sciences (5th ed.)*. Routledge.

	Evaluation Component	Weightage (%)
1	Case Studies/Group Discussion/ Quiz and Assessments	20
2	Project	20
3	Attendance	10
4	End Term Examination	50


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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/2018-19/ 307(6)

Dated: 2nd August, 2018

NOTICE

This is to put for information that School of Management and Commerce 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
VAC001	SPSS for Data Analysis	SOMC	30 Hrs.
VAC007	Financial Literacy	SOMC	30 Hrs.
VAC014	Decision-Making Skills for Success	SOMC	30 Hrs.

Maximum 100 seats are available for the course.

Course Start Date: 03 September 2018

Course End Date: 01 November 2018

All interested students are required to confirm their registration with the Dean-School of Management and Commerce latest by **25th August, 2018**.

Registrar

Copy to:

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

: For kind information

Registrar
K.R. Mangalam University
Sohna Road, Gurugram (Haryana)



ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2018-19

COURSE CODE: VAC001

COURSE TITLE: SPSS FOR DATA ANALYSIS

Roll No	NAME	PROGRAM	SEMESTER	3-Sep-18	4-Sep-18	5-Sep-18	6-Sep-18	7-Sep-18	8-Sep-18	11-Sep-18	13-Sep-18	14-Sep-18
1802080003	AANCHAL UPADHYAY	BBA	Semester I	P	P	P	P	A	P	P	P	P
1802080060	SHIVANI AGGARWAL	BBA	Semester I	P	P	P	P	P	P	P	P	P
1802080075	YATIN PURI	BBA	Semester I	P	P	P	P	P	P	P	P	P
1802080078	AJAY BALONI	BBA	Semester I	P	P	P	P	P	P	P	P	P
1802080083	SAMARTH ARYA	BBA	Semester I	P	P	P	P	P	P	P	P	P
1802570004	KARAN CHAUHAN	MBA	Semester I	P	P	P	P	P	P	P	P	P
1802570021	ABHISHEK NEGI	MBA	Semester I	P	P	P	P	P	P	P	P	P
1802570023	SRISHTI GAMBHIR	MBA	Semester I	P	P	P	P	P	P	P	P	P
1805140021	SUMIT SWAMI	BBA LLB (H)	Semester I	P	P	P	P	P	P	P	P	P
1805140031	SHAKTI	BBA LLB (H)	Semester I	P	P	P	P	P	P	P	P	P
1805170001	ADITYAN NAMBIAR	B.A. LL.B (H)	Semester I	P	P	P	P	P	P	P	P	P
1805170017	MOHIT KANWAL	B.A. LL.B (H)	Semester I	P	A	P	P	P	P	P	P	A
1805170020	MUSKAN	B.A. LL.B (H)	Semester I	P	P	P	A	P	P	P	P	A
1805170028	SHRUTI SUNDER	B.A. LL.B (H)	Semester I	P	A	A	P	P	P	P	P	P
1805170032	VIBHOR KUMAR SHARMA	B.A. LL.B (H)	Semester I	P	A	P	P	P	P	P	P	P

Anubika

COURSE INCHARGE

Dr. J. K.

Registrar

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

School of Management

K.R. Mangalam University
Sohna road, Gurugram
Haryana 122101

DEAN



ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2018-19

COURSE CODE: VAC001

COURSE TITLE: SPSS FOR DATA ANALYSIS

Roll No	NAME	17-Sep-18	18-Sep-18	20-Sep-18	22-Sep-18	24-Sep-18	26-Sep-18	28-Sep-18	1-Oct-18	3-Oct-18	4-Oct-18	8-Oct-18	9-Oct-18
1802080003	AANCHAL UPADHYAY	P	A	P	A	P	P	P	A	P	P	A	P
1802080060	SHIVANI AGGARWAL	P	P	P	P	P	P	P	P	A	P	P	P
1802080075	YATIN PURI	P	P	P	P	P	P	P	P	P	P	P	P
1802080078	AJAY BALONI	P	A	P	A	P	P	P	P	P	P	P	P
1802080083	SAMARTH ARYA	P	P	P	P	P	P	P	P	A	P	P	P
1802570004	KARAN CHAUHAN	P	P	A	P	P	P	P	P	P	P	A	P
1802570021	ABHISHEK NEGI	P	P	P	A	P	P	P	P	P	P	P	P
1802570023	SRISHTI GAMBHIR	P	P	P	A	P	P	P	P	A	P	P	P
1805140021	SUMIT SWAMI	P	P	P	A	P	P	P	A	P	P	P	P
1805140031	SHAKTI	P	P	P	P	P	P	A	P	P	A	P	P
1805170001	ADITYAN NAMBIAR	A	P	P	P	P	P	P	P	P	P	P	P
1805170017	MOHIT KANWAL	P	P	P	P	P	P	P	P	P	P	P	P
1805170020	MUSKAN	P	A	P	P	P	P	P	P	P	A	P	P
1805170028	SHRUTI SUNDER	A	P	A	P	P	A	P	P	P	P	P	A
1805170032	VIBHOR KUMAR SHARMA	P	P	P	A	P	P	P	P	P	P	P	P

[Signature]

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DEAN
School of Management & Commerce (SOMC)
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Sohna road, Gurugram
Haryana-122008



ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2018-19

COURSE CODE: VAC001

COURSE TITLE: SPSS FOR DATA ANALYSIS

Roll No	NAME	10-Oct-18	11-Oct-18	13-Oct-18	15-Oct-18	16-Oct-18	18-Oct-18	19-Oct-18	22-Oct-18	23-Oct-18	24-Oct-18	26-Oct-18	29-Oct-18
1802080003	AANCHAL UPADHYAY	P	A	P	P	A	P	P	A	P	P	P	P
1802080060	SHIVANI AGGARWAL	P	A	P	P	P	A	P	A	P	P	P	A
1802080075	YATIN PURI	A	P	P	P	P	P	P	P	A	P	P	A
1802080078	AJAY BALONI	P	P	P	A	P	P	P	P	P	P	P	A
1802080083	SAMARTH ARYA	P	P	P	P	P	P	P	P	P	P	P	A
1802570004	KARAN CHAUHAN	P	P	P	P	P	P	P	P	P	P	P	A
1802570021	ABHISHEK NEGI	A	P	A	P	P	A	P	P	P	P	P	A
1802570023	SRISHTI GAMBHIR	P	P	P	P	P	P	P	P	P	P	P	A
1805140021	SUMIT SWAMI	P	P	P	P	A	P	P	A	P	P	P	A
1805140031	SHAKTI	P	A	P	P	P	P	P	P	P	P	P	A
1805170001	ADITYAN NAMBIAR	P	P	P	A	P	P	P	P	P	A	P	P
1805170017	MOHIT KANWAL	P	P	P	P	P	P	P	P	P	P	P	P
1805170020	MUSKAN	P	P	P	P	P	P	P	P	P	P	P	P
1805170028	SHRUTI SUNDER	P	P	P	P	P	P	P	P	P	P	P	P
1805170032	VIBHOR KUMAR SHARMA	P	A	P	P	P	P	P	P	P	P	A	P

Amalika

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Dr. J. K. Singh

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K.R. Mangalam University
Sector Road, Gurugram
Haryana 122003



COURSE CODE: VAC001

COURSE TITLE: SPSS FOR DATA ANALYSIS

Roll No	NAME	30 Oct 18	1 May 18	Total	Percent	Percentage
1802080003	AANCHAL UPADHYAY	P	P	35	27	77.14
1802080060	SHIVANI AGGARWAL	P	P	35	30	85.71
1802080075	YATIN PURI	P	P	35	32	91.43
1802080078	AJAY BALONI	P	P	35	29	82.86
1802080083	SAMARTH ARYA	P	P	35	32	91.43
1802570004	KARAN CHAUHAN	P	P	35	31	88.57
1802570021	ABHISHEK NEGI	P	P	35	31	88.57
1802570023	SRISHTI GAMBHIR	P	P	35	30	85.71
1805170001	SONALI SWAROOP	P	P	35	31	88.57
1805170001	ADITYAN NAMBIAR	P	P	35	32	91.43
1805170017	MOHIT KANWAL	P	P	35	32	91.43
1805170020	MUSKAN	A	P	35	29	82.86
1805170028	SHRUTI SUNDER	P	P	35	30	85.71
1805170032	VISHOR KUMAR SHARMA	A	P	35	28	80.00

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K.R. Mangalam University
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School of Management & Commerce
K.R. Mangalam University
Sohna road, Gurgaon
Haryana 122103



VALUE ADDED COURSE (VAC)

ACADEMIC YEAR 2018-19

COURSE CODE: VAC001

COURSE TITLE: SPSS FOR DATA ANALYSIS

COURSE OFFERED BY: SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)

LIST OF STUDENTS COMPLETING THE COURSE

S.NO	SESSION	ROLL NO	NAME	PROGRAMME	SEMESTER	COURSE CODE	COURSE TITLE	SCHOOL
1	2018-19	1802080003	AANCHAL UPADHYAY	BBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
2	2018-19	1802080060	SHIVANI AGGARWAL	BBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
3	2018-19	1802080075	YATIN PURI	BBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
4	2018-19	1802080078	AJAY BALONI	BBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
5	2018-19	1802080083	SAMARTH ARYA	BBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
6	2018-19	1802570004	KARAN CHAUHAN	MBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
7	2018-19	1802570021	ABHISHEK NEGI	MBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
8	2018-19	1802570023	SRISHTI GAMBHIR	MBA	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
9	2018-19	1805140021	SUMIT SWAMI	BBA LLB (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF MANAGEMENT AND COMMERCE (SOMC)
10	2018-19	1805140031	SHAKTI	BBA LLB (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF LEGAL STUDIES (SOLS)
11	2018-19	1805170001	ADITYAN NAMBIAR	B.A. LL.B (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF LEGAL STUDIES (SOLS)
12	2018-19	1805170017	MOHIT KANWAL	B.A. LL.B (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF LEGAL STUDIES (SOLS)
13	2018-19	1805170020	MUSKAN	B.A. LL.B (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF LEGAL STUDIES (SOLS)
14	2018-19	1805170028	SHRUTI SUNDER	B.A. LL.B (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF LEGAL STUDIES (SOLS)
15	2018-19	1805170032	VIBHOR KUMAR SHARMA	B.A. LL.B (H)	Semester I	VAC001	SPSS FOR DATA ANALYSIS	SCHOOL OF LEGAL STUDIES (SOLS)

[Signature]

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This is to certify that **AANCHAL UPADHYAY**, University Enrolment No **1802080003** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **SHIVANI AGGARWAL**, University Enrolment No **1802080060** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **YATIN PURI**, University Enrolment No **1802080075** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **AJAY BALONI**, University Enrolment No **1802080078** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **SAMARTH ARYA**, University Enrolment No **1802080083** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session 2018-19 (Odd Semester).

Date: 20.01.2019

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This is to certify that **KARAN CHAUHAN**, University Enrolment No **1802570004** of **MBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

K. Chauhan

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This is to certify that **ABHISHEK NEGI**, University Enrolment No **1802570021** of **MBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **SRISHTI GAMBHIR**, University Enrolment No **1802570023** of **MBA** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **SUMIT SWAMI**, University Enrolment No **1805140021** of **BBA LLB (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

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This is to certify that **SHAKTI**, University Enrolment No **1805140031** of **BBA LLB (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session 2018-19 (Odd Semester).

Date: 20.01.2019

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This is to certify that **ADITYAN NAMBIAR**, University Enrolment No **1805170001** of **B.A. LL.B (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001** (SPSS for Data Analysis) during Academic Session 2018-19 (Odd Semester).

Date: 20.01.2019

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This is to certify that **MOHIT KANWAL**, University Enrolment No **1805170017** of **B.A. LL.B (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001** (SPSS for Data Analysis) during Academic Session 2018-19 (Odd Semester).

Date: 20.01.2019

brahajan

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Registrar

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This is to certify that **MUSKAN**, University Enrolment No **1805170020** of **B.A. LL.B (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session **2018-19 (Odd Semester)**.

Date: 20.01.2019

hahajan

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This is to certify that **SHRUTI SUNDER**, University Enrolment No **1805170028** of **B.A. LL.B (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001** (SPSS for Data Analysis) during Academic Session 2018-19 (Odd Semester).

Date: 20.01.2019

hrajani

Controller of Examination

Prof.

Reviewer
K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)



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This is to certify that **VIBHOR KUMAR SHARMA**, University Enrolment No **1805170032** of **B.A. LL.B (H)** programme has successfully qualified **VALUE ADDED COURSE VAC001 (SPSS for Data Analysis)** during Academic Session 2018-19 (Odd Semester).

Date:20.01.2019

brahajan

Controller of Examination

Prof

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