

Tarun Kumar Gupta

From: IIMRU Academics
Sent: 15 July 2023 15:31
To: MBAHM27; MBAPM14; MBADM2
Cc: Hem K. Bhargava; Dr. Mahender Kumar; Saurabh Kumar; Himadri Sinha
Subject: Selection for value-added courses

Dear Students,

Greetings from IIMMR University!

Explore the value-added courses that are relevant to your chosen career path. Look for courses that can provide you with specialized knowledge or skills.

You are hereby requested to choose the one out of the six specializations offered by the University in click on the below link: <https://forms.office.com/r/gpTdtmzqsv>

Final confirmation regarding this, will be shared with you after reviewing the entire selection.

Last date of submission is **July 18, 2023, at 12.00PM.**

Best Wishes,
Academics


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Near Sanganer Airport, Jaipur-302029

From: IIHMRU Academics
Sent: 27 July 2023 17:28
To: MBAHM27 HEM; MBAHM27 HOM; MBAPM14; MBADM2
Cc: Hem K. Bhargava; Dr. Mahender Kumar; Saurabh Kumar; Himadri Sinha; Sonal Mishra; Baishakhi Roy
Subject: Classroom venue for the value-added courses schedule from July 28, 2023

Dear Students,

Kindly note the below classroom venue for the value-added courses schedule from Friday July 28, 2023.
The class timings will be from 10:00 AM to 05:00 PM.
This is for your information.

S.no	Value Added Courses	Faculty Coordinator	Venue/Room Number
1	Statistical Package for Social Sciences (SPSS)	Dr. Arindam Das	LH-08 (Second Floor)
2	Advance Excel	Mr. Manoj Soni	LH-11 (Second Floor)
3	Statistics with STATA	Mr. Ashish Bandhu	T-01 (Ground Floor)
4	Block Chain for Healthcare	Dr. Ashok Peepliwal	LH-09 (Ground Floor)
5	Data Analytics Techniques	Mr. Rahul Sharma	LH-12 (Second Floor)
6	Data Analysis and Visualization	Dr. Anupam Mehrotra	LH-16 (IT Auditorium)

Best Wishes
Academics


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**MBA (Value Added Course)
2022-24**

Course Plan

Statistical Package for Social Sciences (SPSS)

Course Instructor: Arindam Das, PhD

1. Course Information

Course Title	Statistical Package for Social Sciences (SPSS)
Course Code	VAC-025
Course Instructor (s)	Arindam Das, PhD, Professor Email: arindam@iihmr.edu.in

2. Program Outcome (PO)

PO 1	This program develops a strong conceptual and an analytical framework on rural development issues in the students. It also gives appropriate attitudes that are required for a professional rural manager. Students will be able to understand the different perspective of developing data driven management skills and analysis for decision making.
PO 2	Students can work for different companies/organizations/governments in the form of policy makers, managers, analysts, and consultants advising on operational and program efficiency. This module will facilitate students to develop understanding about how to perform univariate, bi-variate analysis in the statistical packages (SPSS) for quantitative.
PO 3	Program develops appropriate attitudes and value required of a professional for becoming rural manager and to meet the increasing demands of national and international development organizations. Student can be able to understand how decisions are taken based on the data and develop the community based on data.
PO 4	Willingness to work in rural areas as it requires resilience, analytical, perseverance, emotional, social intelligence, and courage of conviction.

3. Course Description

Decisions in any health programme are more effective when made based on data evidence. Such data is required for a number of reasons, including strategic planning and the setting of priorities; Programme implementation; quality assurance and quality improvement for services; programme monitoring and evaluation, policy formulation etc. The managers/students need to have sufficient understanding and skills to analyze and interpret the data in a meaningful way for evidence-based decision-making. In scientific and business world, now everybody asks for reliable and validated information to develop strategy. In this sphere, data-based decision plays crucial role in today's world from quantitative and qualitative perspective. The blended result of the two major methods facilitated to setting the priorities, ensure effective programme implementation, monitoring and evaluation, quality assurance and quality improvement for providing services. In this sphere managers need to have enough understanding on the data and skills to analyze and interpret the various kind of information in a meaningful and significant way. This 1.5 credit course cover use of basic and advanced statistical application in research and decision making with hands on practice and example. To make understand the module statistical software like SPSS/STATA and Atlas-Ti will be used.

4. Course Objective(s)

This course is designed to enable management students to manage self, people and processes better in different institutions including corporate, Development organizations, Bilateral agencies, and government. It aims at aiding students to orient the students and professionals:

- » about principles of data, its types, measurement scale and its utilisation in developing different tools.
- » about the management of developing data entry tools, enhancing quality, and application of ethics.
- » in application of data for conducting analysis in both qualitative and quantitative perspective.
- » in drawing inferences from the analysis and how to take effective decision.

More comprehensively, the objectives of the course is to help students understand the concept of data management, build their skills in using analytical software for analysis of data, developing understanding about various types of analysis they can use for managing rural programmes, and computing the required statistics for such analysis. Course will cover basic concepts of data management and analysis, use of statistical software (SPSS), and practical exercises for analysis and interpretation of data.

5. Course Outcome

After the course, students should be able to:

CO 1	Explain the basic concept of data management and analysis
CO 2	Use SPSS software for analysis of metadata
CO 3	Learn univariate, bi-variate and multivariate analysis for conducting different tests
CO 4	Compute appropriate statistics for hypothesis testing and drawing conclusions
CO 5	Interpret the data and prepare report
CO 6	Present the data using appropriate tables and graphs

6. Course Articulation Matrix (Interrelation between CO and PO):

Outcomes	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6
P0 1	3	2	2	2	2	2
P0 2	3	3	3	3	3	3
P0 3	3	2	2	2	2	2
P0 4	2	2	2	2	2	2

Note: Enter 1, 2 or 3 in the cell if the respective CO is related to the respective PO. Here, 3 denotes **high** strength of correlation between CO and PO, 2 denotes **medium** strength of correlation between CO and PO and 1 denotes **weak** strength of correlation between CO and PO.

7. Course Pedagogy

The course will be covered by classroom lectures augmented by discussions, documentary, video lecture, case studies, research papers and group work, and assignments.


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8. Course Requirement

Effective learning requires active participation of students in class, it is therefore desired that every student report to the class well prepared to present and defend his/her ideas. Preparation for the class calls for pre-reading of the topics/cases to be discussed later. Further, for meaningful discussion of the cases, the students are required to come ready with their case analysis-identification and genesis of, and recommendations to resolve the problem(s).

9. Course Syllabus

Unit	Content/ Topics	CO	Bloom's Learning (BL) Levels
Unit 1	Introduction to Data Management, its Principles and Processes, and Ethics		BL1: Remember
Unit 2	Measurement Scale (Definition and Rationale), Exposure to Statistical Package for Social Science (SPSS) and Basic on Open Data Kit (ODK) to prepare android based tool, Creating Variables, Defining Data Properties i.e., value labels, Data Entry		BL1: Remember BL2: Understand BL5: Evaluate BL6: Create
Unit 3	Data Quality and Data Cleaning (Reducing error)		BL2: Understand BL3: Apply
Unit 4	Frequency Distribution, Descriptive Statistics		BL1: Remember BL2: Understand
Unit 5	Data Transformation: Recoding		BL1: Remember BL2: Understand
Unit 6	Selecting Data and Restricting Data for Analysis		BL1: Remember BL2: Understand
Unit 7	Bivariate Analysis, Generating Cross Tables, Qualitative Variables: Chi-square, Logistic Regression-test, Correlation and Simple Regression,		BL4: Analyze BL5: Evaluate
Unit 8	Tabulation Plan, Data interpretation and reporting Presenting Data: Graphic Presentation		BL5: Evaluate BL6: Create

Note: Please enter appropriate BL levels against each unit in the above table. The Bloom's Taxonomy Levels are as follows:

BL1: Remember BL2: Understand BL3: Apply
BL4: Analyze BL5: Evaluate BL6: Create

10. Course Policies

This course abides by the University's policies that can be found in the Student Handbook. Please note the following:

Attendance: Students are required to maintain a minimum attendance of 75% to be eligible to appear in the End-Term Examination of the course. Please refer to the student handbook for further details.

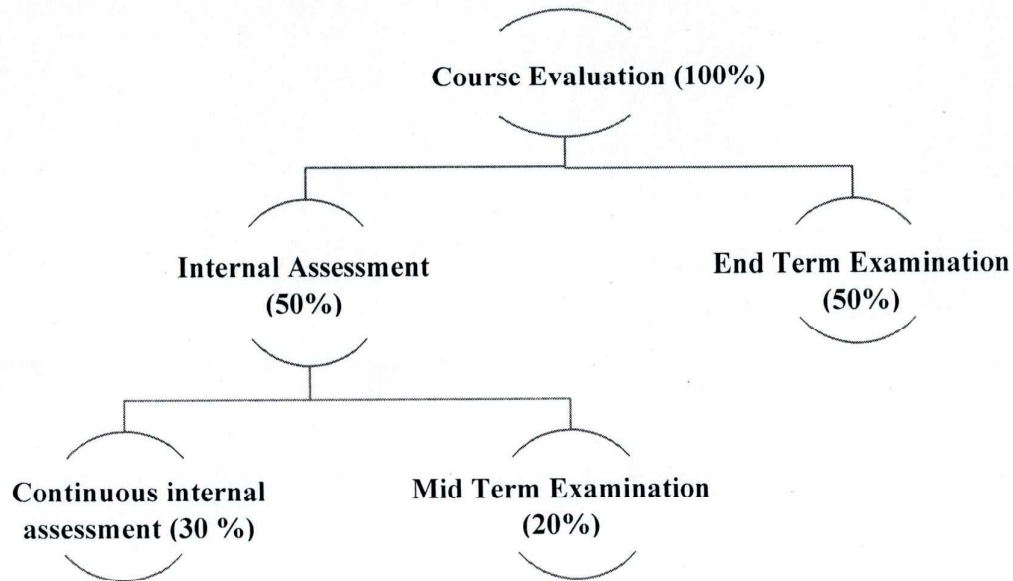

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E-Mail: Each student has an e-mail id and a password, provided by University. Students will receive course related information on this email. Students are advised to regularly check this email for updates on the course.

11. Course Assessment

Students' performance in the course will be evaluated by following two components, with 50% weightage to each component:

1. Internal Assessment (50%)
2. End-Term Examination (50%)



Internal Assessment: The internal assessment will be further divided into two parts, with the weightage given below

1. Continuous Internal Assessment (30%)
2. Mid-Term Examination (20%)

Part 1: Continuous Internal Assessment (CIA): The Continuous Internal Assessment will be of 30 % weightage. The faculty will conduct the Continuous Internal Assessment of the students by using at least two methods of assessment (for 3 credit course), from the methods given below:

- | | |
|--|--|
| 1. Home Assignments (Individual / Group) | 7. Model Development Role-Play |
| 2. Viva-Voce | 8. Rapid Fire Questions |
| 3. Case Study | 9. Quiz |
| 4. Review Paper | 10. Class Assignments (Individual / Group) |
| 5. Group Work | 11. Posters |
| 6. Presentations | 12. Class Participation |


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Part 2: Mid-Term Examination (MTE): The mid-term examination will be of 20 % weightage. The faculty will conduct the mid-term examination of the students during or at the end of the course. It can either be objective type question paper / subjective type question paper or a mix of objective and subjective question paper.

End-Term Examination (ETE): It carries 50 % weightage, covering the full syllabus of the course. The end-term examination will be of maximum 50 marks to be completed in maximum three hours. The end-term examination will be conducted at the end of trimester on scheduled date published by Controller of Examination.

12. CO and Assessment Alignment Matrix:

S. No.	Activity	CO1	CO2	CO3	CO4	CO5	CO6
1.	Home Assignments (Individual / Group)						
2.	Viva-Voce	√	√	√	√	√	√
3.	Case Study						
4.	Review Paper						
5.	Group Work						
6.	Presentations						
7.	Model Development Role-Play						
8.	Rapid Fire Questions						
9.	Quiz	√	√	√	√	√	√
10.	Class Assignments (Individual / Group)	√	√	√	√	√	√
11.	Posters						
12.	Class Participation	√	√	√	√	√	√
13.	Mid Term Examination	√	√	√	√	√	√
14.	End Term Examination	√	√	√	√	√	√

Note: Please tick the relevant cell to show the respective alignment

13. Session Plan

Normally, the teaching for each course is scheduled from Monday to Friday (10:00am - 5:00pm). However, the course is scheduled from Tuesday to Saturday (10:00am – 5:00pm). Each day, teaching is divided into four sessions: **two before lunch break** and **two after lunch break**. The faculty (instructor) decides how to utilize these sessions.

Topics	Session	Pedagogy	Essential (E) and Optional (O) Reads
Day 1: Introduction to the Data management and Analysis, Principles, Ethics, and Developing Questionnaire in android based tool (ODK collect) (Unit 1)			
Understanding concept of data, its principles and management and Ethics	I	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Basic Understanding on types of questions (Open, closed, mixed, probe etc.) and Measurement scale, Likert scale etc. followed by Quiz-Internal exam through MCQs, Series 1.	II	Lecture and Discussion	IIHMR Module (E) Section 1 (PP-)
Data editing and quality, Followed by Quiz-Internal exam through MCQs, Series 2.	III	Lecture and Discussion	IIHMR Module (E) Section 1 (PP-)
Basic orientation on Excel, ODK and SPSS based features, installation of software and recall by the students through/Preparation of tool in ODK/google forms android-based application followed by Quiz-Internal exam through MCQs, Series 3.	IV	Lecture and Discussion	IIHMR Module (E) Section 1 (PP-)
Day II: Introduction to SPSS and its features (Creating Variables Defining Data Properties Data Entry, Quality and Data Cleaning) (Unit 2 and 3)			
Basics of SPSS - Understanding variables, variable view, labelling, scaling of variables, Export and import features and merging of files in SPSS followed by Quiz-Internal exam through MCQs, Series 5.	I	Lecture, Demonstration Discussion and Quiz	IIHMR Module (E) Section 1 (PP-)
How to create variables and labelling and data editing by analyzing the frequency estimation followed by Quiz-Internal exam through MCQs, Series 6.	II	Lecture and Discussion	IIHMR Module (E) Section 1 (PP-)
Practice session through dummy data.	III	Lecture and Discussion	IIHMR Module (E) Section 1 (PP-)
Interpretation followed by Quiz-Internal exam through MCQs, Series 7.	IV	Lecture and Discussion	IIHMR Module (E) Section 1 (PP-)
Day III: Frequency Distribution Descriptive Statistics and Data Transformation: Recoding (Unit-4 and 5)			
Univariate and Bivariate analysis – Concept, application, and how to draw inferences from tables followed by Quiz-Internal exam through MCQs, Series 8.	I	Lecture, Demonstration and Discussion	IIHMR Module (E) Section 1 (PP-)

Topics	Session	Pedagogy	Essential (E) and Optional (O) Reads
Practice session through dummy data	II	Lecture, Demonstration and Discussion	IIHMR Module (E) Section 1 (PP-)
Calculating statistical test such as measure of central tendency, Z score, T test and cross tabulation, preparation of Tables followed by practice (Parametric test) and followed by Quiz-Internal exam through MCQs, Series 9	III	Lecture, Demonstration and Discussion	IIHMR Module (E) Section 1 (PP-)
Practice session through dummy data	IV	Lecture, Demonstration and Discussion	IIHMR Module (E) Section 1 (PP-)
Day IV: Selecting Data and Restricting Data for Analysis and Bivariate Analysis (Unit -6 and Unit 7)			
Calculating statistical test such as Chi-square test for association, preparation of Tables (Non-parametric test) followed by Quiz-Internal exam through MCQs, Series 10.	I	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Practice session through dummy data	II	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Calculating statistical test such as ANOVA (One way and two way) preparation of Tables (Non-parametric test) followed by Quiz-Internal exam through MCQs, Series 11.	III	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Practice session through dummy data	IV	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Day V: Data interpretation and reporting Presenting Data: Graphic Presentation Unit – 8 and Mid term examination			
Construction of indices, Multivariate analysis like Correlation followed by Quiz-Internal exam through MCQs, Series 12.	I	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Practice and handholding session	II	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Multivariate analysis like Regression followed by Quiz-Internal exam through MCQs, Series 13.	III	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Practice and handholding session	IV	Presentation and Discussion	IIHMR Module (E) Section 1 (PP-)
Day VI:			
Chi-Square Test Practice Session	I	Practice Session	IIHMR Module (E) Section 1 (PP-)
Practice Session through dummy data	II	Practice Session	IIHMR Module (E) Section 1 (PP-)

Topics	Session	Pedagogy	Essential (E) and Optional (O) Reads
Practice Session ANNOVA	III	Practice Session	IIHMR Module (E) Section 1 (PP-)
Day VII:			
Practice Session on Correlation	I	Practice Session	IIHMR Module (E) Section 1 (PP-)
Practice and Hand holding	II	Practice Session	IIHMR Module (E) Section 1 (PP-)
Practice Session on Regression	III	Practice Session	IIHMR Module (E) Section 1 (PP-)
Day VIII:			
Practice and doubt clearing	I	Practice Session	IIHMR Module (E) Section 1 (PP-)
Practice and doubt clearing	II	Practice Session	IIHMR Module (E) Section 1 (PP-)

14. Readings

Textbook

- » IIHMR University module prepared by the course coordinator
- » Darren George, Paul Mallery (IBM SPSS Statistics 25 step by step, Simple Guide and references)
- » Biostatistics - A foundation for analysis in the health science by Wayne W Daniel, Chad L. Cross, Tenth Edition, Wiley Publication (E-book Attached)
- » Principles of Data management, Facilitating information sharing, by Keith Gordon, second edition (Available in IIHMR University's Library)
- » The Principle of good data management (E-book Attached)

Additional Textbooks

- » Methodological Brief: Data collection and analysis methods in Impact evaluation by Greet Persman (E-copy attached)
- » Managing data: Atlanta. GA: Center for disease control and Prevention (CDC), 2013. (E-copy attached)

Journals/Articles

- » Not Applicable

General Reading and Audio-Video

»

Web Resources

For Practice and learning on data management go through the following links:

S. No.	Title	Link
1.	Understanding application of statistics	https://www.statology.org/tutorials/
2.	SPSS tutorials from Kent University	https://libguides.library.kent.edu/SPSS/home or https://www.spss-tutorials.com/spss-what-is-it/

3.	SPSS tutorial from IBM	https://www.spss-tutorials.com/basics/
4.	Introduction to Open Data Kit	https://docs.getodk.org/getting-started/
5.	INTRODUCTION TO THE SPECIAL TOPIC FORUM: USING ARCHIVAL AND SECONDARY DATA SOURCES IN SUPPLY CHAIN MANAGEMENT RESEARCH	https://www.proquest.com/docview/839873009/fulltextPDF/40A917CD5DF449EDPQ/4?accountid=136944
6.	Implementing a Graduate-Level Research Data Management Course: Approach, Outcomes, and Lessons Learned	https://www.proquest.com/docview/2414033083/40A917CD5DF449EDPQ/13?accountid=136944
7.	Introduction to Big Data Computing for Geospatial Applications	https://www.proquest.com/docview/2434421474/fulltextPDF/40A917CD5DF449EDPQ/17?accountid=136944
8.	Developing research data management services and support for researchers: A mixed methods study	https://www.proquest.com/docview/2080219766/fulltextPDF/40A917CD5DF449EDPQ/33?accountid=136944
9.	BIG DATA: CHANGES IN DATA MANAGEMENT	https://www.proquest.com/docview/1851558424/fulltextPDF/40A917CD5DF449EDPQ/39?accountid=136944
10.	SPSS for Windows: An Introduction to Use and Interpretation in Research	https://www.proquest.com/docview/228481929/fulltextPDF/C8F49D1EF35F4D71PQ/1?accountid=136944
11.	Introduction to Structural Equation Modeling Using SPSS and AMOS	https://www.proquest.com/docview/220133617/fulltextPDF/C8F49D1EF35F4D71PQ/2?accountid=136944
12.	Contribution of SPSS in Social Sciences Research	https://www.proquest.com/docview/1860624248/C8F49D1EF35F4D71PQ/26?accountid=136944
13.	Quantitative Analysis of Salary Data in the Big Data Era	https://www.proquest.com/docview/2518770927/40A917CD5DF449EDPQ/18?accountid=136944
14.	Study on Data Management of Electric Power Distribution Dispatch and Cutting-through Based on Big Data	https://www.proquest.com/docview/2512959130/40A917CD5DF449EDPQ/16?accountid=136944
15.	How to write an article: An introduction to basic scientific medical writing	https://www.proquest.com/docview/2290646576/fulltextPDF/C8F49D1EF35F4D71PQ/30?accountid=136944
16.	Data Cleaning: Detecting, Diagnosing, and Editing Data Abnormalities: e267	https://www.proquest.com/docview/1288073588/fulltextPDF/4969FA1C00F843D8PQ/1?accountid=136944
17.	Definition and Evaluation of Data Quality: User-Oriented Data Object-Driven Approach to Data Quality Assessment	https://www.proquest.com/docview/2450654778/fulltextPDF/4969FA1C00F843D8PQ/4?accountid=136944
18.	How to Address the Data Quality Issues in Regression Models: A Guided Process for Data Cleaning	https://www.proquest.com/docview/2040897146/4969FA1C00F843D8PQ/5?accountid=136944
19.	A Data Cleaning Method for Big Trace Data Using Movement Consistency	https://www.proquest.com/docview/2026516380/4969FA1C00F843D8PQ/13?accountid=136944
20.	Descriptive statistics and normality tests for statistical data	https://www.proquest.com/docview/2166930915/fulltextPDF/77FD9EB106494DC2PQ/13?accountid=136944

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Serial No.	Admission ID	Student Name	Course	Program	Batch	Period	Total Sessions	Total Present	Total Absent
1	IIHMR-U/02/2022-24/0466	Vivek Pandey	Statistical Package for Social Sciences (SPSS)	MBA (Pharmaceutical Management)	14 Batch (2022-24)	Term-4	28	8	20
2	IIHMR-U/02/2022-24/0438	Shreya Agrawal	Statistical Package for Social Sciences (SPSS)	MBA (Pharmaceutical Management)	14 Batch (2022-24)	Term-4	28	8	20
3	IIHMR-U/02/2022-24/0375	Ashish Gupta	Statistical Package for Social Sciences (SPSS)	MBA (Pharmaceutical Management)	14 Batch (2022-24)	Term-4	28	17	11
4	IIHMR-U/02/2022-24/0439	Shreya Sikdar	Statistical Package for Social Sciences (SPSS)	MBA (Pharmaceutical Management)	14 Batch (2022-24)	Term-4	28	13	15
5	IIHMR-U/02/2022-24/0431	SANDEEP PANDEY	Statistical Package for Social Sciences (SPSS)	MBA (Hospital and Health Management)	27 Batch (2022-24)	Term-4	28	13	15
1	IIHMR-U/01/2022-24/1463	Ankita Sharma	Statistical Package for Social Sciences (SPSS)	MBA (Hospital and Health Management)	27 Batch (2022-24)	Term-4	28	4	24
2	IIHMR-U/01/2022-24/1592	Sandhya Shekhawat	Statistical Package for Social Sciences (SPSS)	MBA (Hospital and Health Management)	27 Batch (2022-24)	Term-4	28	4	24


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Certification of Completion

This certifies that

Ankita Sharma

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Statistical Package for Social Sciences (SPSS)

Conducted during **July-September, 2023**, accumulating a total of 48 hours

with Grade B+

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024



Certification of Completion

This certifies that

Sandhya Shekhawat

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Statistical Package for Social Sciences (SPSS)

Conducted during **July-September, 2023**, accumulating a total of 48 hours
with **Grade B**

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024



Certification of Completion

This certifies that

Shreya Agrawal

Master of Business Administration (Pharmaceutical Management)

2022-24

has successfully completed Value Added Course (VAC) on

Statistical Package for Social Sciences (SPSS)

Conducted during **July-September, 2023**, accumulating a total of 48 hours

with Grade B

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024

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Certification of Completion

This certifies that

Shreya Sikdar

Master of Business Administration (Pharmaceutical Management)

2022-24

has successfully completed Value Added Course (VAC) on

Statistical Package for Social Sciences (SPSS)

Conducted during **July-September, 2023**, accumulating a total of 48 hours

with Grade B+

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024

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Certification of Completion

This certifies that

Vivek Pandey

Master of Business Administration (Pharmaceutical Management)

2022-24

has successfully completed Value Added Course (VAC) on

Statistical Package for Social Sciences (SPSS)

Conducted during **July-September, 2023**, accumulating a total of 48 hours
with **Grade B**

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024