

CIRCULAR

From: IIMRU Academics
Sent: 08 November 2024 05:10 PM
To: MBAHM 28; MBAPM 15; MBADM 3
Cc: Himadri Sinha; Sanjay Gupta; Saurabh Kumar; IIMMR Registrar; Hitendra Singh Rathore
Subject: MBA 2nd Year: Value Added Courses (VAC) Selection and Schedule

Dear Students,

We are pleased to announce that Value Added Courses (VAC) for MBA second-year students will run from **December 7, 2024**.

Please find key details below:

Schedule and Credits

- **Class Dates:** First and third Saturdays — December 7, December 21, January 4, January 18, and February 1, 2025. (24-25)
- **Credits:** Each course is worth 1.5 credits, which will be added to your credit bank as additional credit apart from regular MBA credit courses.

Assessment Structure

- **Continuous Assessment:** 30%
- **Mid-term Test:** 20%
- **End-term Exam:** 50%

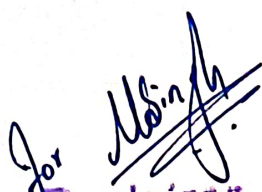
VAC Course Options

Sl. No.	Value Added Course	Faculty
1	Power BI for Public Health: Crafting Custom Dashboards and Real-Time Insights.	Dr. Vidya Bhusan Tripathy
2	Dynamic Dashboard and data visualization using Excel	Dr. Swapnil Gadhave
3	Advanced statistics tools for data science	Mr. Ashish Bandhu
4	Blockchain Technology for Smart Contracts in Healthcare and Pharmaceutical Sector: Automation and Efficiency	Dr. Ashok Peepliwal
5	Decision Intelligence: using data science to make a better decision	Dr. Anupam Mehrotra

Important Notes

- **Selection Window:** Opens on **Monday, November 11, at 1 PM** and closes on **Thursday, November 14, at 4 PM**. Please select one course of interest.
- **Attendance Requirement:** Minimum 75% attendance is mandatory.
- **No Course Changes Allowed:** Once chosen, course selection cannot be altered.

Best regards, Academic Office


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Course Title	Course Code	Duration of Course	Academic Year
Advanced statistics tools for data science	VAC-036	35 Hours	2024-25



MBA Hospital and Health Management
MBA Pharmaceutical Management
MBA Development Management
2024-25

Advanced statistics tools for data science
Course Plan



[Signature]

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1. Course Information

Course Title:	Advanced statistics tools for data science
Course Code	VAC-036
Course Credit	1.5
Course Instructor (s)	Ashish Bandhu

2. Program Outcome (PO)

- To develop skills in planning, building and managing healthcare and allied organizations.
- To participate and contribute to the formulation of public health policies.
- To enhance decision making and administrative competence of the students to enable them to face challenges of the healthcare and allied industry.
- To promote knowledge through applied and conceptual research relevant to management and to disseminate this knowledge through publications.
- To collaborate with other institutions in India and abroad for furtherance of professional exposure.
- Taking Management education towards institution building in a meaningful manner.

3. Course Description

The "Advanced statistics tools for data science" course provides participants a comprehensive understanding of various data analytics techniques and their application in solving real-world problems with theoretical knowledge of Statistics. Participants will learn essential concepts, methods, and tools used in data analytics using Stata to effectively analyse and interpret data, enabling them to make informed decisions and drive organizational success.

4. Course Objective

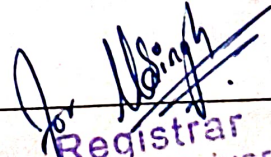
- To introduce participants to the fundamental concepts and principles of Statistics.
- To provide participants with a practical understanding of different data analytics techniques and their applications using Stata.
- To equip participants with the skills to preprocess and clean data for analysis using Stata.
- To enable participants to perform exploratory data analysis and uncover meaningful insights using Stata.
- To introduce participants to inferential statistics using Stata
- To provide participants with hands-on experience in applying data analytics techniques through practical exercises and case studies.

5. Course Pedagogy

The course will be covered by classroom lectures augmented by discussions, case studies and group work, and assignments.

6. Course Requirement

Effective learning requires active participation of students in class, it is therefore desired that every student should 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).


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7. Course Syllabus

Unit	Content/ Topics	CO	Bloom's Learning (BL) Levels
Unit 1	1. Introduction to levels of measurement and variables in Stata • Understanding the importance of data and information in decision making • Overview of levels of measurement • Overview of types of variables • Introduction to Stata	1,2	2,3
Unit 2	2. Data Management using Stata • Basic Commands in Stata • Import/Export of dataset • Exploratory Data Analysis (EDA)	1,2,3	2,3
Unit 3	3. Descriptive statistics and data visualization • Measure of central tendency • Measure of dispersion • Graphical representations	3,4,5	3,4,5
Unit 4	4. Inferential Statistics • Chi Square test for independence • T-test • ANOVA	1,3,6	2,3,4,5,6
Unit 5	5. Inferential Statistics • Correlation • Simple Linear Regression • Multiple Linear Regression	1,3,6	2,3,4,5,6
Unit 6	6. Inferential Statistics • Logistic Regression • Multinomial Regression	1,3,6	2,3,4,5,6

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: Analyse

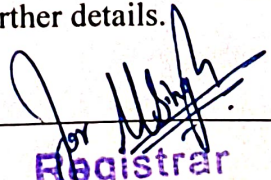
BL5: Evaluate

BL6: Create

8. 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.

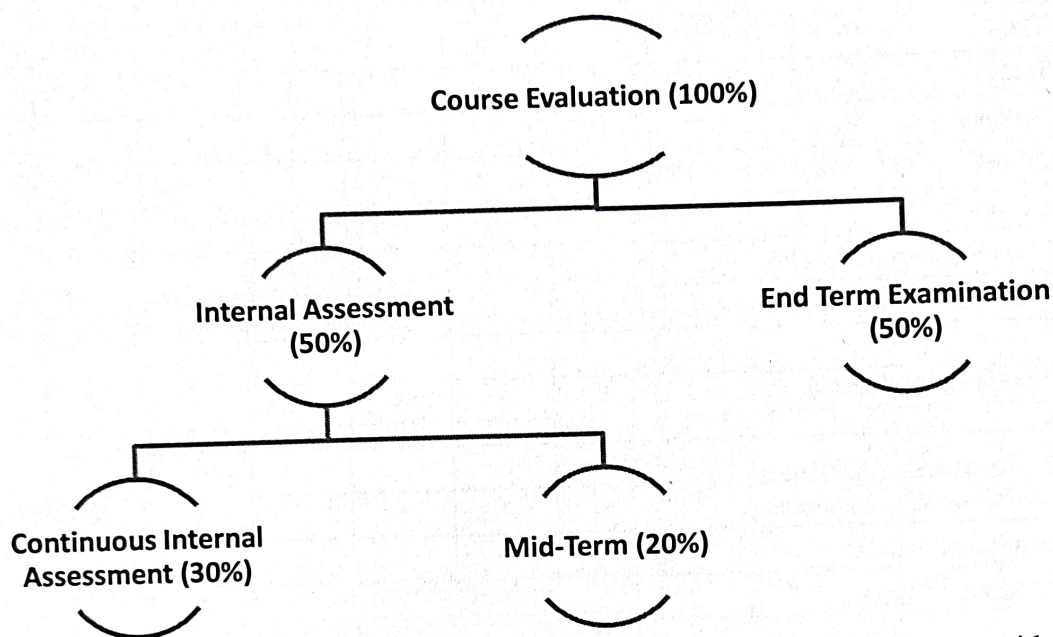

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E-Mail: Each student have an e-mail id and a password, provided by University. Students will receive course related information on this email. Students are advised to regularly check this email for updates on the course.

9. 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 (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 from the methods given below:

1. Class Assignments (Individual / Group)
2. Case Study
3. Review Paper
4. Group Work
5. Presentations
6. Model Development Role-Play
7. Rapid Fire Questions
8. Class Participation

Part 2: Mid Term The home assignment will be of 20 % weightage. The faculty will conduct the mid-term of the students at the end of the course. It can either be objective type question paper / subjective type question

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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.

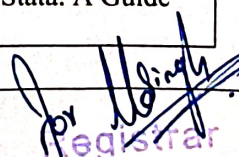
10.CO and Assessment Alignment Matrix:

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

11.Session Plan

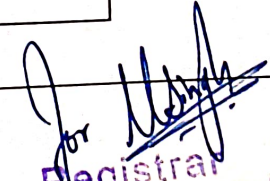
Day/Date	Topic/Contents	Pedagogy	Readings
Day 1	Introduction to levels of measurement and variables in Stata	Lecture	Applied Statistics Using Stata: A Guide for the Social Sciences.
Day 2	Data Management using Stata	Lecture/Practical	Data Management Using Stata: A Practical Handbook
Day 3	Descriptive statistics	Lecture/Practical	Applied Statistics Using Stata: A Guide for the Social Sciences.
Day 4	Data visualization	Lecture/Practical	Applied Statistics Using Stata: A Guide for the Social Sciences.
Day 5	Inferential Statistics-I	Lecture/Practical	Applied Statistics Using Stata: A Guide for the Social Sciences.
Day 6	Inferential Statistics-II	Lecture/Practical	Applied Statistics Using Stata: A Guide for the Social Sciences.
Day 7	Inferential Statistics-III	Lecture/Practical	Applied Statistics Using Stata: A Guide for the Social Sciences.
Day 8	Inferential Statistics-IV	Lecture/Practical	Applied Statistics Using Stata: A Guide for the Social Sciences.


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Session Timings:

Day	Date	Session 1	Session 2	Lunch Break	Session 3	Session 4
Day 1	7 Dec 2024	9:00–11:00 AM	11:15 AM–1:15 PM	1:15–2:15 PM	2:15–3:45 PM	4:00–5:30 PM
Day 2	21 Dec 2024	9:00–11:00 AM	11:15 AM–1:15 PM	1:15–2:15 PM	2:15–3:45 PM	4:00–5:30 PM
Day 3	4 Jan 2025	9:00–11:00 AM	11:15 AM–1:15 PM	1:15–2:15 PM	2:15–3:45 PM	4:00–5:30 PM
Day 4	18 Jan 2025	9:00–11:00 AM	11:15 AM–1:15 PM	1:15–2:15 PM	2:15–3:45 PM	4:00–5:30 PM
Day 5	1 Feb 2025	9:00–11:00 AM	11:15 AM–1:15 PM	1:15–2:15 PM	2:15–3:45 PM	4:00–5:30 PM

Enrollement No.	Name	Total Sessions Scheduled	Sessions Attended	Present Percentage
IIHMR-U/01/2023-25/1683	Anurag Chakraborty	20	16	80
IIHMR-U/01/2023-25/1687	Arnab Basak	20	15	75
IIHMR-U/01/2023-25/1688	Arshia Chopra	20	15	75
IIHMR-U/01/2023-25/1693	B.Hari Hara Krishna	20	15	75
IIHMR-U/01/2023-25/1694	Bhalerao Sayali Anand	20	16	80
IIHMR-U/01/2023-25/1733	Kratika Naruka	20	15	75
IIHMR-U/01/2023-25/1744	Mansi Gupta	20	16	80
IIHMR-U/01/2023-25/1757	Nagar Prachi Natwarlal	20	15	75
IIHMR-U/01/2023-25/1773	Pallavi Mishra	20	15	75
IIHMR-U/01/2023-25/1782	Pratap Jha	20	16	80
IIHMR-U/01/2023-25/1784	Pulkit Sharma	20	15	75
IIHMR-U/01/2023-25/1791	Raktima Kerni	20	16	80
IIHMR-U/01/2023-25/1794	Richa Singh	20	15	75
IIHMR-U/01/2023-25/1806	SAKSHI .	20	15	75
IIHMR-U/01/2023-25/1830	Shivam Verma	20	16	80
IIHMR-U/01/2023-25/1834	Shivani Dixit	20	15	75
IIHMR-U/01/2023-25/1849	Sonakshi Jain	20	15	75
IIHMR-U/01/2023-25/1852	Soumya Prasad	20	15	75
IIHMR-U/01/2023-25/1861	Surbhi Sharma	20	15	75
IIHMR-U/01/2023-25/1869	Tanvi .	20	15	75


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IIHMR-U/01/2023-25/1876	Toshniwal Sakshi Sunil	20	15	75
IIHMR-U/01/2023-25/1877	Tushar Yadav	20	15	75
IIHMR-U/01/2023-25/1884	Vipin Khaneja	20	15	75
IIHMR-U/01/2023-25/1886	Vishal Chauhan	20	15	75
IIHMR-U/02/2023-25/0499	Dukare Ganesh Govardhan	20	15	75
IIHMR-U/02/2023-25/0505	Gavhane Aniket Raju	20	15	75
IIHMR-U/02/2023-25/0533	Mousham kumari	20	15	75
IIHMR-U/02/2023-25/0551	Purva Pandya	20	15	75



Certification of Completion

This certifies that

Dukare Ganesh Govardhan

Master of Business Administration (Pharmaceutical Management)

2023-25

has successfully completed Value Added Course (VAC) on

Advanced Statistics Tools for Data Science

Conducted during **December 2024- February 2025**, accumulating a total of 35 hours
with **Grade B+**

Dr. Himadri Sinha
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: February 7, 2025

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Certification of Completion

This certifies that

Anurag Chakraborty

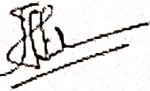
Master of Business Administration (Hospital and Health Management)

2023-25

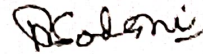
has successfully completed Value Added Course (VAC) on

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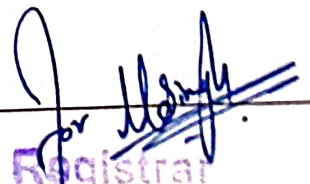


Dr. Himadri Sinha
Professor and Coordinator (VAC)



Dr. P.R. Sodani
President

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Certification of Completion

This certifies that

Arshia Chopra

Master of Business Administration (Hospital and Health Management)

2023-25

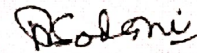
has successfully completed Value Added Course (VAC) on

Advanced Statistics Tools for Data Science

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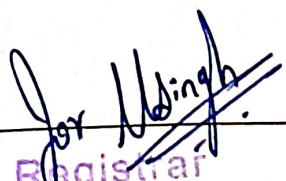


Dr. Himadri Sinha
Professor and Coordinator (VAC)



Dr. P.R. Sodani
President

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Certification of Completion

This certifies that

Pallavi Mishra

Master of Business Administration (Hospital and Health Management)

2023-25

has successfully completed Value Added Course (VAC) on

Advanced Statistics Tools for Data Science

Conducted during **December 2024- February 2025**, accumulating a total of 35 hours
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Dr. Himadri Sinha
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: February 7, 2025

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Certification of Completion

This certifies that

Richa Singh

Master of Business Administration (Hospital and Health Management)

2023-25

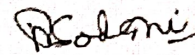
has successfully completed Value Added Course (VAC) on

Advanced Statistics Tools for Data Science

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Dr. Himadri Sinha
Professor and Coordinator (VAC)



Dr. P.R. Sodani
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