

Tarun Kumar Gupta

From: IIHMRU 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 IIHMR 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



Registrar
The IIHMR University
1, Prabhu Dayal Marg
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 Hospital and Health Management
MBA Pharmaceutical Management
MBA Development Management
2023-24**

**Data Analytics Techniques
Course Plan**



A handwritten signature in blue ink, appearing to be 'R. Singh', written over a circular stamp.

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1. Course Information

Course Title:	Data Analytics Techniques
Course Code	VAC-029
Course Instructor (s)	Rahul Sharma

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 "Data Analytics Techniques" course provides participants with a comprehensive understanding of various data analytics techniques and their application in solving real-world problems. Participants will learn essential concepts, methods, and tools used in data analytics to effectively analyze and interpret data, enabling them to make informed decisions and drive organizational success.

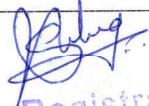
4. Course Objective

- To introduce participants to the fundamental concepts and principles of data analytics.
- To provide participants with a practical understanding of different data analytics techniques and their applications.
- To equip participants with the skills to preprocess and clean data for analysis.
- To enable participants to perform exploratory data analysis and uncover meaningful insights.
- To introduce participants to predictive analytics and the use of machine learning algorithms for data analysis.
- To develop participants' ability to visualize data and communicate insights effectively.
- To provide participants with hands-on experience in applying data analytics techniques through practical exercises and case studies.

5. Course Outcome

After the course, students should be able to

CO 1	Understand the importance of data analytics in decision-making and its relevance in various industries.
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CO 2	Apply data preprocessing and cleaning techniques to handle missing data, outliers, and data quality issues.
CO 3	Perform exploratory data analysis to uncover patterns, trends, and relationships in data.
CO 4	Create visually appealing and informative data visualizations and interactive dashboards.
CO 5	Demonstrate proficiency in using data analytics tools and technologies.
CO 6	Apply data analytics techniques to real-world scenarios through hands-on exercises and case studies.

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

Outcomes	CO 1	CO 2.	CO 3	CO 4	CO 5	CO 6
PO1	3	2	2	1	1	1
PO2	2	3	1	2	2	1
PO3	1	1	3	2	1	1
PO4	1	1	1	3	1	1
PO5	2	2	1	2	3	1
PO6	1	1	1	2	2	3

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, case studies and group work, and assignments.

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	1. Introduction to Data Analytics Understanding the importance of data analytics in decision-making	1,2	2,3



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	- Exploring different types of data analytics techniques - Overview of data analytics tools and technologies - Data Preprocessing and Cleaning		
Unit 2	2. Handling missing data and outliers - Data transformation and normalization - Dealing with data quality issues - Exploratory Data Analysis (EDA)	1,2,3	2,3
Unit 3	3. Descriptive statistics and data visualization - Identifying patterns and relationships in data - Uncovering insights through graphical representations	3,4,5	3,4,5
Unit 4	4. Predictive Analytics - Regression analysis for forecasting - Classification techniques for predictive modeling - Evaluating model performance and accuracy	1,6	3,4,5
Unit 5	5. Text Mining and Sentiment Analysis - Extracting information from textual data - Sentiment analysis for opinion mining - NLP techniques for text processing and analysis	1,3,6	4,5
Unit 6	6. Data Visualization and Dashboarding - Creating compelling visualizations to communicate insights - Design principles for effective data visualization - Building interactive dashboards for data exploration	4,6	2,5,6
Unit 7	7. Machine Learning Algorithms - Supervised and unsupervised learning techniques - Decision trees, random forests, and clustering algorithms	6	2,4,5,6

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

10.Course Policies

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

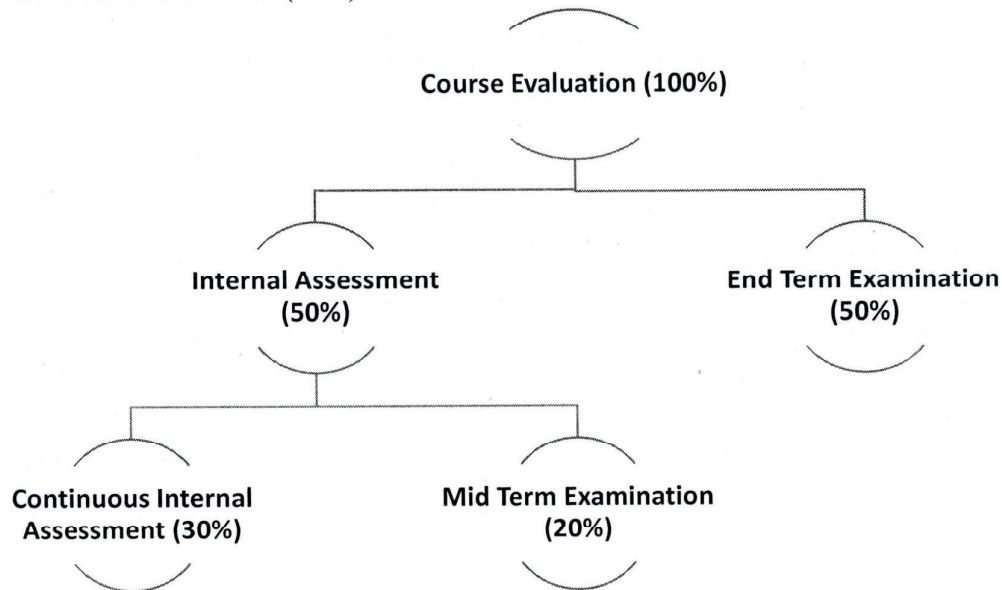
Attendance: Students are required to maintain a minimum attendance of 75% to be eligible to appear in the End-Term Examination of the course. Please refer to the student handbook for further details.

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.

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%)


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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)
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

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 Thursday (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 utilise these sessions.

Day/Date	Session	Topic/Contents
Day1	3	Introduction to Data Analytics
		Data Preprocessing and Cleaning
Day2	3	Handling missing data and outliers
		Exploratory Data Analysis
Day3	3	Descriptive statistics
		Data visualization
Day4	3	Predictive Analytics
		Evaluating model performance and accuracy
Day5	4	Text Mining and Sentiment Analysis
		NLP techniques
Day6	4	Data Visualization and Dashboarding
		Dashboarding
Day7	4	Machine Learning Algorithms 1
		Machine Learning Algorithms 2
Day8	4	Application of techniques 1
		Application of techniques 2



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Serial No.	Admission ID	Student Name	Program	Total Sessions	Total Present
1	IIHMR-U/01/2022-24/1623	Simran Sharma	MBA (Hospital and Health Management)	28	16
2	IIHMR-U/01/2022-24/1446	Aayushi Vinodkumar Chhabdiya	MBA (Hospital and Health Management)	28	23
3	IIHMR-U/01/2022-24/1536	Madhura S	MBA (Hospital and Health Management)	28	21
4	IIHMR-U/01/2022-24/1647	V. Vaishnavi	MBA (Hospital and Health Management)	28	22
5	IIHMR-U/01/2022-24/1505	Harshita Garg	MBA (Hospital and Health Management)	28	17
6	IIHMR-U/01/2022-24/1534	Lavleen Kaur	MBA (Hospital and Health Management)	28	20
7	IIHMR-U/01/2022-24/1533	Lalita Morang	MBA (Hospital and Health Management)	28	22
8	IIHMR-U/01/2022-24/1644	Tika Kumari	MBA (Hospital and Health Management)	28	24
9	IIHMR-U/01/2022-24/1546	Musaddique Zaman	MBA (Hospital and Health Management)	28	20
10	IIHMR-U/01/2022-24/1551	Neha Mishra	MBA (Hospital and Health Management)	28	21
11	IIHMR-U/01/2022-24/1578	Rajat Shah	MBA (Hospital and Health Management)	28	20
12	IIHMR-U/01/2022-24/1638	Swarandeep Kaur	MBA (Hospital and Health Management)	28	19
13	IIHMR-U/01/2022-24/1570	Preeti Banyamin Misal	MBA (Hospital and Health Management)	28	21
14	IIHMR-U/01/2022-24/1547	Muskan Jaswal	MBA (Hospital and Health Management)	28	18
15	IIHMR-U/01/2022-24/1593	Saniya Syed	MBA (Hospital and Health Management)	28	26
16	IIHMR-U/01/2022-24/1610	Shivangini Rao	MBA (Hospital and Health Management)	28	17
17	IIHMR-U/01/2022-24/1473	Archi Gupta	MBA (Hospital and Health Management)	28	21
18	IIHMR-U/01/2022-24/1611	Shivani Harish Dhamgaye	MBA (Hospital and Health Management)	28	14
19	IIHMR-U/01/2022-24/1509	Himani Namdeo Balpande	MBA (Hospital and Health Management)	28	20
20	IIHMR-U/01/2022-24/1564	Pragya Verma	MBA (Hospital and Health Management)	28	20
21	IIHMR-U/01/2022-24/1544	Midhun Mathew Tom	MBA (Hospital and Health Management)	28	17
22	IIHMR-U/01/2022-24/1483	Ayushi Uniyal	MBA (Hospital and Health Management)	28	20
23	IIHMR-U/01/2022-24/1620	Siddharth Sharma	MBA (Hospital and Health Management)	28	19
24	IIHMR-U/01/2022-24/1493	Devanshi Shivhare	MBA (Hospital and Health Management)	28	24
25	IIHMR-U/01/2022-24/1632	Sunidhi Guraba	MBA (Hospital and Health Management)	28	18
26	IIHMR-U/01/2022-24/1581	Ravikant Rathore	MBA (Hospital and Health Management)	28	24
27	IIHMR-U/01/2022-24/1645	Trisha Sharma	MBA (Hospital and Health Management)	28	20
28	IIHMR-U/01/2022-24/1634	Suramya Nair	MBA (Hospital and Health Management)	28	23
29	IIHMR-U/01/2022-24/1504	Harsh Bansal	MBA (Hospital and Health Management)	28	23
30	IIHMR-U/01/2022-24/1532	Kumar Sougata	MBA (Hospital and Health Management)	28	25
31	IIHMR-U/01/2022-24/1464	Anshu Singh	MBA (Hospital and Health Management)	28	18
32	IIHMR-U/01/2022-24/1648	Vani Sri	MBA (Hospital and Health Management)	28	17
33	IIHMR-U/01/2022-24/1549	Nameesha Singla	MBA (Hospital and Health Management)	28	15
34	IIHMR-U/01/2022-24/1511	HIMANSHI PANDEY	MBA (Hospital and Health Management)	28	23
35	IIHMR-U/02/2022-24/0422	Rakesh Mandal	MBA (Pharmaceutical Management)	28	21
36	IIHMR-U/02/2022-24/0468	Yash Narendra Kale	MBA (Pharmaceutical Management)	28	13
37	IIHMR-U/02/2022-24/0433	Sanskriti	MBA (Pharmaceutical Management)	28	14
38	IIHMR-U/02/2022-24/0398	Lorika Rathod	MBA (Pharmaceutical Management)	28	15
39	IIHMR-U/02/2022-24/0387	Harsimran Singh	MBA (Pharmaceutical Management)	28	18
40	IIHMR-U/02/2022-24/0392	Kartik Sandeep Korekar	MBA (Pharmaceutical Management)	28	19
41	IIHMR-U/02/2022-24/0464	Vishwajeet Tanaji Patil	MBA (Pharmaceutical Management)	28	26
42	IIHMR-U/02/2022-24/0404	Mansi Rai	MBA (Pharmaceutical Management)	28	17
43	IIHMR-U/02/2022-24/0419	Priyanshu Rai	MBA (Pharmaceutical Management)	28	23
44	IIHMR-U/02/2022-24/0384	Gaurav Kumar	MBA (Pharmaceutical Management)	28	21
45	IIHMR-U/02/2022-24/0380	Dev Prakash	MBA (Pharmaceutical Management)	28	17
46	IIHMR-U/02/2022-24/0362	Aakash Jain	MBA (Pharmaceutical Management)	28	15
47	IIHMR-U/02/2022-24/0365	Abhishek Kailash Rewaskar	MBA (Pharmaceutical Management)	28	21
48	IIHMR-U/02/2022-24/0397	Kumar Gaurav	MBA (Pharmaceutical Management)	28	20
49	IIHMR-U/02/2022-24/0456	Tanmay Varshney	MBA (Pharmaceutical Management)	28	22
50	IIHMR-U/02/2022-24/0457	Tanushree Abhay Pande	MBA (Pharmaceutical Management)	28	23
51	IIHMR-U/02/2022-24/0385	Harsh Choudhary	MBA (Pharmaceutical Management)	28	22
52	IIHMR-U/02/2022-24/0420	Purnendra Sahu	MBA (Pharmaceutical Management)	28	17
53	IIHMR-U/02/2022-24/0361	Aaditya Trivedi	MBA (Pharmaceutical Management)	28	25
54	IIHMR-U/02/2022-24/0440	Shriyani Roy	MBA (Pharmaceutical Management)	28	21
55	IIHMR-U/02/2022-24/0421	Rahul Kumar Singh	MBA (Pharmaceutical Management)	28	21
56	IIHMR-U/02/2022-24/0463	Vishal Uppal	MBA (Pharmaceutical Management)	28	26
57	IIHMR-U/02/2022-24/0458	Tejas Sharadrao Kitey	MBA (Pharmaceutical Management)	28	15
58	IIHMR-U/02/2022-24/0426	Rohit Prakash Khuje	MBA (Pharmaceutical Management)	28	18
59	IIHMR-U/02/2022-24/0425	ROHIT KANALAL SEPTA	MBA (Pharmaceutical Management)	28	17
60	IIHMR-U/02/2022-24/0453	Suraj Ahuja	MBA (Pharmaceutical Management)	28	22
61	IIHMR-U/02/2022-24/0444	Siddhant Kishor Wankhade	MBA (Pharmaceutical Management)	28	16
62	IIHMR-U/02/2022-24/0399	Mahak Arora	MBA (Pharmaceutical Management)	28	18
63	IIHMR-U/02/2022-24/0429	Sagar Chandrakant Tapase	MBA (Pharmaceutical Management)	28	17
64	IIHMR-U/02/2022-24/0367	Akshay Narayan Shinde	MBA (Pharmaceutical Management)	28	18
65	IIHMR-U/02/2022-24/0462	Vishal Singh Tomar	MBA (Pharmaceutical Management)	28	20
66	IIHMR-U/02/2022-24/0390	HITESH CHOUDHARI	MBA (Pharmaceutical Management)	28	17
67	IIHMR-U/10/2022-24/0022	Aayush Sharma	MBA (Development Management)	28	18
68	IIHMR-U/10/2022-24/0023	ABHISHEK RANJAN	MBA (Development Management)	28	20
69	IIHMR-U/10/2022-24/0034	Pramila Kumari	MBA (Development Management)	28	17



Certification of Completion

This certifies that

Devanshi Shivhare

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Data Analytics Techniques

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

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

Harsh Bansal

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Data Analytics Techniques

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

Harshita Garg

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Data Analytics Techniques

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

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024



Certification of Completion

This certifies that

Himanshi Pandey

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Data Analytics Techniques

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

Registrar

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1, Prabhu Dayal Marg
Near Sanganer Airport, Jaipur-302029



Certification of Completion

This certifies that

Anshu Singh

Master of Business Administration (Hospital and Health Management)

2022-24

has successfully completed Value Added Course (VAC) on

Data Analytics Techniques

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

with Grade P

Dr. Goutam Sadhu
Professor and Coordinator (VAC)

Dr. P.R. Sodani
President

Date of issue: April 22, 2024

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