

3	Attendance	10
4	End Term Examination	50

VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML
Contact Hours	30 Hours
Prerequisite	Nil

Course Description

This course introduces concepts, algorithms, and techniques of machine learning algorithm on different types of datasets, which covers data mining algorithms. The course focus on understanding the application domains of artificial intelligence that covers wide range of sectors such as banking, retail, airline, agriculture and many more. The importance of research writing is also analyzed that includes identifying the research gaps and making inferences from the literature.

Course Objectives

Students will be able to:

- have clear understanding of the problem-solving processes.
- gain idea of supervised, unsupervised and reinforcement learning.
- understand the real time applications of AI and Machine learning.
- understand the scope and significance of research.
- develop basic skills of generating research reports.

Course Outcomes

On completion of this course students will be able to:

CO 1: Analyze and design a real world problem for implementation and understanding the dynamic behavior of a system.

CO 2: Understanding the various domains of Artificial Intelligence techniques such as game playing techniques, Healthcare, Banking and Education System.

CO 3: Understanding different Machine learning Algorithms

CO 4: Understanding the importance of Research Writing

CO 5: Develop an understanding of the data cleaning and its related Issues.

Course Content

Module I: Artificial Intelligence and its Applications

8 hours

Introduction to Artificial Intelligence, Introduction to AI levels, Types of Artificial Intelligence, AI Use Cases and its applications: Health care ,Human resource, Banking for Fraud detection, Supply chain, Game Playing, Military, Aviation and Education Sector, Reasons supporting the boom of AI.

Module II: Basics of Machine Learning

Introduction to Machine learning, Pattern interestingness, Machine learning process, Data Preprocessing, Data cleaning, Frequent Itemset Mining: Apriori Algorithm: Finding Frequent Itemsets by Confined Candidate Generation, Cluster Analysis, and Requirement for cluster analysis, Clustering techniques: K mean, hierarchical Methods, Outliers.

Module III: Techniques and Applications of Machine Learning

8 hours

Classification-decision trees, Attribute Selection Measures, TreePruning, Machine learning Use cases and its applications: Travel and Hospitality, Health care and Life sciences, Manufacturing, Travel Industry.

Module IV: Research and Technical Writing

8 hours

Introduction to Research, Research Objectives, Scope and Significance of research, Identifying research gaps, Literature Review, Comparative Analysis, basic principles in technical writing, Inferences.

Practicum

1. Students gather and preprocess data from a real business problem, such as customer behaviour data or financial data.
2. Students select appropriate machine learning algorithms and build predictive models using the pre-processed data.
3. Students work on projects where they design AI-driven solutions for specific business problems, like demand forecasting or fraud detection.

4. Students explore the challenges and considerations for deploying AI and ML models in a business or industry context.

Textbooks

1. DataMining Concepts and Techniques, Jiawei Han MichelineKamber, Jianpei, Morgan Kaufmannn.
2. Data Mining Techniques – Arun K pujari, Universities Press

Reference Books

1. Introduction to Data Mining – Pang-Ning Tan, Vipinkumar, Michael Steinbach, Pearson.
2. Data Mining Principles & Applications –T.VSveresh Kumar, B.Esware Reddy, Jagadish S Kalimani, Elsevier.

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


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



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/2022-23/3229(13) Dated: 05th December, 2022

NOTICE

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

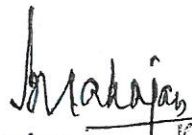
Course Code	Course Title	Coordinating Department / School	Duration
ETCA816A	Soft Computing: Characteristics and Techniques	SOET	30 Hrs.
VAC119	Reshaping Intelligent Business and Industry: Convergence of AI and ML	SOET	30 Hrs.
VAC131	Employability and Analytical Skills-I	SOET	30 Hrs.
VAC132	Employability and Analytical Skills- II	SOET	30 Hrs.
VAC133	Employability and Analytical Skills-III	SOET	30 Hrs.
VAC149	Skill Development for Technical Interviews	SOET	30 Hrs.

Maximum 100 seats are available for the course.

Course Start Date: 08 February 2023

Course End Date: 31 May 2023

All interested students are required to confirm their registration with the Dean-School of Engineering & Technology latest by **28th December, 2022.**


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

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 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	PROGRAMME	SEMESTER	8-Feb-23	9-Feb-23	15-Feb-23	16-Feb-23	22-Feb-23	23-Feb-23	1-Mar-23
2202070034	MUKESH KUMAR	B.Com (H)	Semester-II	A	P	P	A	P	A	P
2202080120	ARYAN	BBA	Semester-II	P	P	P	A	P	A	P
2201560026	PRASHANT KUMAR MAJUMDAR	MCA	Semester-II	P	P	P	P	P	P	P
2202080088	PARTH PAWAR	BBA	Semester-II	P	P	P	P	A	P	P
2202390049	MUSKAN	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	A	P	P
2202390015	POORVA KHARE	BBA in BI and Analytics SAMATRIX	Semester-II	A	A	P	P	P	P	P
2202390011	YUG HANS	BBA in BI and Analytics SAMATRIX	Semester-II	P	A	P	P	P	A	P
2202080053	KANCHAN THAKRAN	BBA	Semester-II	P	A	P	P	P	P	P
2202390020	SAHITYA SINGH	BBA in BI and Analytics SAMATRIX	Semester-II	P	A	P	P	P	P	P
2202070013	ISHITA S XAVIER	B.Com (H)	Semester-II	P	P	P	P	A	P	P
2201560008	ELEENA	MCA	Semester-II	P	P	P	P	P	P	P
2202080011	VARDAAN AGGARWAL	BBA	Semester-II	P	P	P	P	P	P	P
2201560005	DARSHIT RAGHAV	MCA	Semester-II	P	P	P	P	P	P	P
2113820020	MAYANK SINGHANIA	B.Sc. (H) Agriculture	Semester-IV	P	P	P	A	P	A	P
2201560003	KHUSHANK BISHARYA	MCA	Semester-II	P	P	P	P	P	P	P

Shardha Bhandari
COURSE INCHARGE

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K.R. Mangalam University

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ROLL NO	NAME	2-Mar-23	8-Mar-23	9-Mar-23	15-Mar-23	16-Mar-23	22-Mar-23	23-Mar-23	29-Mar-23	30-Mar-23	5-Apr-23
2202070034	MUKESH KUMAR	P	P	P	P	P	P	P	P	P	P
2202080120	ARYAN	P	P	P	P	P	P	P	P	P	P
2201560026	PRASHANT KUMAR MAJUMDAR	P	P	P	P	P	P	P	P	P	P
2202080088	PARTH PAWAR	P	P	P	P	P	P	P	P	P	P
2202390049	MUSKAN	P	P	P	P	P	P	P	P	P	P
2202390015	POORVA KHARE	P	A	P	P	P	A	P	P	P	P
2202390011	YUG HANS	P	P	P	P	P	P	A	P	P	P
2202080053	KANCHAN THAKRAN	A	P	P	P	P	P	P	P	P	P
2202390020	SAHITYA SINGH	P	A	P	P	P	P	P	P	P	P
2202070013	ISHITA S XAVIER	P	P	P	P	P	P	P	P	P	P
2201560008	ELEENA	P	A	P	P	P	A	P	P	P	A
2202080011	VARDAAN AGGARWAL	P	P	A	P	P	P	P	P	P	P
2201560005	DARSHIT RAGHAV	A	P	P	P	P	P	P	P	P	P
2113820020	MAYANK SINGHANIA	P	P	P	P	P	P	P	P	P	P
2201560003	KHUSHANK BISHARYA	P	A	P	P	P	P	P	P	P	P

Shweta Baniwal

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K.R. Mangalam University

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ROLL NO	NAME	6-Apr-23	12-Apr-23	13-Apr-23	19-Apr-23	23-Apr-23	26-Apr-23	27-Apr-23	3-May-23	4-May-23	10-May-23
2202070034	MUKESH KUMAR	P	P	P	P	P	P	P	P	P	P
2202080120	ARYAN	P	P	P	P	P	P	P	P	P	P
2201560026	PRASHANT KUMAR MAJUMDAR	P	P	P	P	P	P	P	P	P	P
2202080088	PARTH PAWAR	P	P	P	P	P	A	P	P	P	P
2202390049	MUSKAN	P	P	P	P	P	P	P	P	A	P
2202390015	POORVA KHARE	P	P	P	P	P	P	P	P	P	P
2202390011	YUG HANS	P	P	P	P	P	P	P	P	P	P
2202080053	KANCHAN THAKRAN	P	A	P	P	P	P	P	P	P	P
2202390020	SAHITYA SINGH	P	P	P	P	P	P	P	P	A	P
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2202080011	VARDAAN AGGARWAL	P	P	P	A	P	A	P	P	P	P
2201560005	DARSHIT RAGHAV	P	P	P	A	A	A	P	P	P	P
2113820020	MAYANK SINGHANIA	P	P	P	P	P	P	P	P	P	P
2201560003	KHUSHANK BISHARYA	P	P	P	P	P	A	P	A	P	P

Shubra Banerjee

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Haryana 122103

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COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY
: CONVERGENCE OF AI AND ML

ROLL NO	NAME	11-May-23	17-May-23	18-May-23	24-May-23	25-May-23	31-May-23	TOTAL	Present	Percentage
2202070034	MUKESH KUMAR	P	A	P	P	P	P	33	29	87.88
2202080120	ARYAN	P	A	P	P	P	P	33	30	90.91
2201560026	PRASHANT KUMAR MAJUMDAR	P	P	P	P	P	P	33	33	100.00
2202080088	PARTH PAWAR	P	P	P	P	A	P	33	30	90.91
2202390049	MUSKAN	P	A	P	A	P	P	33	29	87.88
2202390015	POORVA KHARE	P	P	P	A	P	A	33	27	81.82
2202390011	YUG HANS	P	P	A	P	P	P	33	29	87.88
2202080053	KANCHAN THAKRAN	P	P	P	P	P	P	33	30	90.91
2202390020	SAHITYA SINGH	A	P	A	P	P	P	33	28	84.85
2202070013	ISHITA S XAVIER	P	A	A	P	P	P	33	29	87.88
2201560008	ELEENA	P	P	P	P	P	P	33	28	84.85
2202080011	VARDAAN AGGARWAL	P	P	P	P	P	P	33	30	90.91
2201560005	DARSHIT RAGHAV	P	A	P	P	P	P	33	28	84.85
2113820020	MAYANK SINGHANIA	P	A	P	P	P	A	33	28	84.85
2201560003	KHUSHANK BISHARYA	P	P	P	P	P	P	33	30	90.91

Shweta Bansal

COURSE INCHARGE

School of Engineering & Technology (SoET)
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Haryana 122102
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K.R. Mangalam University
Sohna Road, Gurugram, Haryana



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ROLL NO	NAME	PROGRAMME	SEMESTER	8-Feb-23	9-Feb-23	15-Feb-23	16-Feb-23	22-Feb-23	23-Feb-23	1-Mar-23
2002080070	GRUSHA	BBA	Semester-VI	A	P	P	P	P	P	P
2201560051	SAKSHI RAI	MCA	Semester-II	P	P	P	P	P	A	P
2202070058	RISHABH KHANDELWAL	B.Com (H)	Semester-I	P	P	P	P	P	P	P
2201560048	ANSHUL YADAV	MCA	Semester-I	P	P	P	P	P	P	P
2202070059	MAYANK ARORA	B.Com (H)	Semester-I	P	P	P	P	A	P	P
2202390057	AKANKSHA GUPTA	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	P	P	P
2201560040	PIYUSH	MCA	Semester-II	P	P	P	P	P	P	P
2002080054	ANIKET	BBA	Semester-VI	P	P	P	P	P	P	P
2002080017	TANNU	BBA	Semester-VI	P	P	P	A	P	A	P
2002080063	TANNU DAHIYA	BBA	Semester-VI	P	A	P	P	P	P	P
2008790009	KAMAL	B.A. (H) Psychology	Semester-VI	P	P	P	P	A	P	P
2202390021	DIKSHA YADAV	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	A	P	P
2202390039	DIMPLE	BBA in BI and Analytics SAMATRIX	Semester-II	P	A	P	P	P	P	P
2202070041	HARSHIT GULATI	B.Com (H)	Semester-II	P	P	P	P	A	P	P
2202080156	DEV KATYAL	BBA	Semester-II	P	P	P	P	A	P	P
2202390016	DEV VATS	BBA in BI and Analytics SAMATRIX	Semester-I	P	P	P	P	P	P	P
2202080158	VIVEK MALHOTRA	BBA	Semester-I	P	P	P	P	P	A	P
2202080121	RIYA SHARMA	BBA	Semester-II	P	P	P	P	P	P	P

COURSE INCHARGE
Shubra BaniyaK.R. Mangalam University
Sohna Road, Gurugram, (Haryana)K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)
Haridwar 122103



ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY
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2002080070	GRUSHA	P	A	P	P	P	A	P	P	P	P
2201560051	SAKSHI RAI	P	P	A	P	P	P	P	P	P	P
2202070058	RISHABH	A	P	P	P	P	P	P	P	P	P
	KHANDELWAL										
2201560048	ANSHUL YADAV	P	A	P	P	P	P	P	P	P	P
2202070059	MAYANK ARORA	P	P	P	P	P	P	P	P	P	P
2202390057	AKANKSHA GUPTA	P	A	P	P	P	A	P	P	P	P
2201560040	PIYUSH	P	P	A	P	P	P	P	P	P	P
2002080054	ANIKET	A	P	P	P	P	P	P	P	P	P
2002080017	TANNU	P	P	P	A	P	P	P	P	P	P
2002080063	TANNU DAHIYA	P	A	P	P	P	P	P	P	P	P
2008790009	KAMAL	P	P	P	P	P	P	P	P	P	P
2202390021	DIKSHA YADAV	P	P	P	P	P	P	P	P	P	P
2202390039	DIMPLE	P	A	P	P	P	P	P	P	P	P
2202070041	HARSHIT GULATI	P	P	P	P	P	P	P	P	P	P
2202080156	DEV KATYAL	P	P	P	P	P	P	P	P	P	P
2202390016	DEV VATS	P	A	P	P	P	A	P	P	P	P
2202080158	VIVEK MALHOTRA	P	P	A	P	P	P	P	P	P	P
2202080121	RIYA SHARMA	A	P	P	P	P	P	P	P	DEAN	P

COURSE INCHARGE

Shweta Baniya

Registrar
K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)School of Engineering & Technology (SOET)
K.R. Mangalam University
Sohna road, Gurugram
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ATTENDANCE SHEET

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2002080070	GRUSHA	P	P	P	P	P	P	P	P	P	P
2201560051	SAKSHI RAI	P	P	P	P	P	P	P	P	P	P
2202070058	RISHABH KHANDELWAL	P	A	P	P	P	P	P	P	P	P
2201560048	ANSHUL YADAV	P	P	P	P	P	P	P	P	A	P
2202070059	MAYANK ARORA	P	P	P	P	P	A	P	P	P	P
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2202390039	DIMPLE	P	P	P	P	P	A	P	A	P	P
2202070041	HARSHIT GULATI	P	P	P	P	P	A	A	P	P	P
2202080156	DEV KATYAL	P	P	P	P	P	A	A	P	P	P
2202390016	DEV VATS	P	P	P	P	P	P	P	P	P	P
2202080158	VIVEK MALHOTRA	P	P	P	P	P	P	P	P	P	P
2202080121	RIYA SHARMA	P	A	P	P	P	P	P	P	P	P

Shruti Bansal

COURSE INCHARGE

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

School of Engineering & Technology

K.R. Mangalam University

Sohna road, Gurugram DEAN
Haryana 122103



ATTENDANCE SHEET

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2002080070	GRUSHA	P	P	P	A	P	A	33	28	84.85
2201560051	SAKSHI RAI	P	P	A	P	P	A	33	29	87.88
2202070058	RISHABH KHANDELWAL	P	P	P	P	P	P	33	31	93.94
2201560048	ANSHUL YADAV	A	P	A	P	P	P	33	29	87.88
2202070059	MAYANK ARORA	P	A	A	P	P	A	33	28	84.85
2202390057	AKANKSHA GUPTA	P	P	P	P	P	P	33	28	84.85
2201560040	PIYUSH	P	P	P	P	P	P	33	30	90.91
2002080054	ANIKET	P	P	P	P	P	A	33	28	84.85
2002080017	TANNU	P	A	P	A	A	A	33	26	78.79
2002080063	TANNU DAHIYA	P	P	P	P	P	P	33	29	87.88
2008790009	KAMAL	P	A	P	P	A	A	33	27	81.82
2202390021	DIKSHA YADAV	P	A	P	A	P	P	33	28	84.85
2202390039	DIMPLE	P	P	P	P	P	P	33	29	87.88
2202070041	HARSHIT GULATI	P	A	P	P	A	A	33	27	81.82
2202080156	DEV KATYAL	P	A	P	A	P	P	33	28	84.85
2202390016	DEV VATS	P	P	P	A	P	A	33	29	87.88
2202080158	VIVEK MALHOTRA	P	P	A	P	P	P	33	30	90.91
2202080121	RIYA SHARMA	P	P	P	P	P	P	33	31	93.94

COURSE INCHARGE

Shweta Beraud

Registrar
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Haryana 122103

Support of 31 Engineering & Technology (SOET)

K.R. Mangalam University

Sohna road, Gurugram

Haryana 122103



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ROLL NO	NAME	PROGRAMME	SEMESTER	8-Feb-23	9-Feb-23	15-Feb-23	16-Feb-23	22-Feb-23	23-Feb-23	1-Mar-23
2202390029	HIMANSHU	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	P	P	P
2202080104	UTSAV MANGLA	BBA	Semester-II	A	P	P	P	A	P	P
2202080085	ABHAY SAINI	BBA	Semester-II	P	P	P	P	P	P	P
2202080032	ROHIT YADAV	BBA	Semester-II	A	A	P	P	P	A	P
2202070076	PARTH MANCHANDA	B.Com (H)	Semester-II	P	A	P	P	P	P	P
2202080241	DEVANSH SHARMA	BBA	Semester-II	A	A	P	P	P	P	P
2202390003	SUJAL BOSE	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	A	P	P
2202390005	MOHIT	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	P	P	P
2202390010	AKASH BHARDWAJ	BBA in BI and Analytics SAMATRIX	Semester-II	A	P	P	P	P	P	P
2208190007	KULDEEP JANGIR	B.A. (H) Economics	Semester-II	P	P	P	P	P	P	P
2002080007	NITI	BBA	Semester-VI	P	P	P	P	P	A	P
2202390019	KARTIK ARORA	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	P	P	P
2202080247	SIDDHANT VOHRA	BBA	Semester-II	P	P	P	P	P	P	P
2202070057	TANISHA SINGH	B.Com (H)	Semester-II	P	P	P	P	A	P	P
2208190019	PARTH SHARMA	B.A. (H) Economics	Semester-II	P	P	P	P	P	P	P
2202080100	PARUL YADAV	BBA	Semester-II	P	P	P	P	P	P	P
2202080138	ARJUN	BBA	Semester-II	P	P	P	P	P	P	P
2202390024	ANISHA SOLANKI	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	A	P	A	P

Shweta Banerjee

COURSE INCHARGE

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ATTENDANCE SHEET

VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	2-Mar-23	8-Mar-23	9-Mar-23	15-Mar-23	16-Mar-23	22-Mar-23	23-Mar-23	29-Mar-23	30-Mar-23	5-Apr-23
2202390029	HIMANSHU	P	A	P	P	P	P	P	P	P	P
2202080104	UTSAV MANGLA	P	P	P	P	P	P	P	P	P	P
2202080085	ABHAY SAINI	P	A	P	P	P	A	P	P	P	P
2202080032	ROHIT YADAV	P	P	A	P	P	P	P	P	P	P
2202070076	PARTH	A	P	P	P	P	P	P	P	P	P
	MANCHANDA										
2202080241	DEVANSH SHARMA	P	A	P	P	P	P	P	P	P	P
2202390003	SUJAL BOSE	P	P	P	P	P	P	P	P	P	P
2202390005	MOHIT	P	A	P	P	P	A	P	P	P	P
2202390010	AKASH BHARDWAJ	P	P	A	P	P	P	P	P	P	P
2208190007	KULDEEP JANGIR	P	A	P	P	P	A	P	P	P	P
2002080007	NITI	P	P	A	P	P	P	P	P	P	P
2202390019	KARTIK ARORA	A	P	P	P	P	P	P	P	P	P
2202080247	SIDDHANT VOHRA	P	A	P	P	P	P	P	A	P	P
2202070057	TANISHA SINGH	P	P	P	P	P	P	P	P	P	P
2208190019	PARTH SHARMA	P	A	P	P	P	A	P	P	P	P
2202080100	PARUL YADAV	P	P	A	P	P	P	P	P	P	P
2202080138	ARJUN	A	P	P	P	P	P	P	P	A	P
2202390024	ANISHA SOLANKI	P	P	P	A	P	P	P	P	P	P

Shweta Bera

COURSE INCHARGE

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Haryana 122402



ATTENDANCE SHEET
VAC COURSE FOR ACADEMIC YEAR 2022-23
COURSE CODE: VAC119
COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY
: CONVERGENCE OF AI AND ML

ROLL NO	NAME	6-Apr-23	12-Apr-23	13-Apr-23	19-Apr-23	23-Apr-23	26-Apr-23	27-Apr-23	3-May-23	4-May-23	10-May-23
2202390029	HIMANSHU	P	P	P	P	P	P	P	P	A	P
2202080104	UTSAV MANGLA	P	P	P	P	P	A	P	P	P	P
2202080085	ABHAY SAINI	P	P	P	P	P	P	P	P	P	P
2202080032	ROHIT YADAV	P	P	P	P	P	P	P	P	P	P
2202070076	PARTH MANCHANDA	P	A	P	P	P	P	P	P	P	P
2202080241	DEVANSH SHARMA	P	P	P	P	P	P	P	P	A	P
2202390003	SUJAL BOSE	P	P	P	P	P	A	P	P	P	P
2202390005	MOHIT	A	P	P	P	P	P	A	A	P	P
2202390010	AKASH BHARDWAJ	P	P	P	A	P	A	P	P	P	P
2208190007	KULDEEP JANGIR	P	P	P	P	P	P	P	P	P	P
2002080007	NITI	P	P	P	P	P	P	P	P	P	P
2202390019	KARTIK ARORA	P	A	P	A	P	P	P	P	P	P
2202080247	SIDDHANT VOHRA	P	P	P	P	P	P	P	P	A	P
2202070057	TANISHA SINGH	P	P	P	P	P	A	P	P	P	P
2208190019	PARTH SHARMA	A	P	P	P	P	P	A	A	P	P
2202080100	PARUL YADAV	P	P	P	P	P	P	P	P	P	P
2202080138	ARJUN	P	P	P	A	A	A	P	P	P	P
2202390024	ANISHA SOLANKI	P	P	P	P	P	P	P	P	A	P

Shweta Bhardwaj

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VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	11-May-23	17-May-23	18-May-23	24-May-23	25-May-23	31-May-23	TOTAL	Present	Percentage
2202390029	HIMANSHU	A	P	A	P	P	P	33	29	87.88
2202080104	UTSAV MANGLA	P	A	A	P	P	A	33	27	81.82
2202080085	ABHAY SAINI	P	P	P	A	P	A	33	29	87.88
2202080032	ROHIT YADAV	P	P	A	P	P	P	33	28	84.85
2202070076	PARTH	P	P	P	P	P	P	33	30	90.91
2202080241	DEVANSH SHARMA	A	P	A	P	P	P	33	27	81.82
2202390003	SUJAL BOSE	P	A	A	P	P	A	33	28	84.85
2202390005	MOHIT	P	P	P	P	P	P	33	28	84.85
2202390010	AKASH BHARDWAJ	P	P	P	P	P	P	33	29	87.88
2208190007	KULDEEP JANGIR	P	P	P	A	P	A	33	29	87.88
2002080007	NITI	P	P	A	P	P	P	33	30	90.91
2202390019	KARTIK ARORA	P	P	P	P	P	P	33	30	90.91
2202080247	SIDDHANT VOHRA	A	P	A	P	P	P	33	28	84.85
2202070057	TANISHA SINGH	P	A	A	P	P	A	33	28	84.85
2208190019	PARTH SHARMA	P	P	P	P	P	P	33	28	84.85
2202080100	PARUL YADAV	P	P	P	P	P	P	33	32	96.97
2202080138	ARJUN	P	A	P	P	P	P	33	27	81.82
2202390024	ANISHA SOLANKI	P	A	P	P	P	P	33	28	84.85

Shweta Bana

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VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	PROGRAMME	SEMESTER	8-Feb-23	9-Feb-23	15-Feb-23	16-Feb-23	22-Feb-23	23-Feb-23	1-Mar-23
2202080042	VERSHA SANSANWAL	BBA	Semester-II	P	A	P	P	P	P	P
2202080047	SHRUTI SHREE	BBA	Semester-II	P	P	P	P	A	P	P
2202390012	TRISH VIKRAM SINGH	BBA in BI and Analytics SAMATRIX	Semester-II	P	P	P	P	A	P	P
2202080122	DIKSHA JAYARA	BBA	Semester-II	P	P	P	A	A	P	P

Shweta Bansal

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VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	2-Mar-23	8-Mar-23	9-Mar-23	15-Mar-23	16-Mar-23	22-Mar-23	23-Mar-23	29-Mar-23	30-Mar-23	5-Apr-23
2202080042	VERSHA SANSANWAL	P	A	P	P	P	P	P	P	P	P
2202080047	SHRUTI SHREE	P	P	P	P	P	P	P	P	P	A
2202390012	TRISH VIKRAM SINGH	P	P	P	P	P	P	P	P	P	P
2202080122	DIKSHA JAYARA	P	P	P	P	P	P	P	P	P	P

Chheta Bansal

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VAC COURSE FOR ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	6-Apr-23	12-Apr-23	13-Apr-23	19-Apr-23	23-Apr-23	26-Apr-23	27-Apr-23	3-May-23	4-May-23	10-May-23
2202080042	VERSHA SANSANWAL	P	P	P	P	P	A	P	A	P	P
2202080047	SHRUTI SHREE	P	P	P	P	P	A	A	P	P	P
2202390012	TRISH VIKRAM SINGH	P	P	P	P	P	A	A	P	P	P
2202080122	DIKSHA JAYARA	P	P	P	P	P	A	A	P	P	P

Shweta Bansal

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VAC COURSE FOR ACADEMIC YEAR 2022-23
COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY

: CONVERGENCE OF AI AND ML

ROLL NO	NAME	11-May-23	17-May-23	18-May-23	24-May-23	25-May-23	31-May-23	TOTAL	Present	Percentage
2202080042	VERSHA SANSANWAL	P	P	P	P	P	P	33	29	87.88
2202080047	SHRUTI SHREE	P	A	P	P	A	A	33	26	78.79
2202390012	TRISH VIKRAM SINGH	P	A	P	A	P	P	33	28	84.85
2202080122	DIKSHA JAYARA	P	A	P	A	P	P	33	27	81.82

Shweta Rana

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K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

VALUE ADDED COURSE(VAC)

ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML

COURSE OFFERED BY: SOET

LIST OF STUDENTS COMPLETING THE COURSE

S.NO	SESSION	ROLL NO	NAME	PROGRAMME	SEMESTER	COURSE CODE	COURSE TITLE	SCHOOL
1	2022-23	2202070034	MUKESH KUMAR	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
2	2022-23	2202080120	ARYAN	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
3	2022-23	2201560026	PRASHANT KUMAR MAJUMDAR	MCA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
4	2022-23	2202080088	PARTH PAWAR	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
5	2022-23	2202390049	MUSKAN	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
6	2022-23	2202390015	POORVA KHARE	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
7	2022-23	2202390011	YUG HANS	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
8	2022-23	2202080053	KANCHAN THAKRAN	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
9	2022-23	2202390020	SAHITYA SINGH	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
10	2022-23	2202070013	SHITA S XAVIER	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
11	2022-23	2201560008	ELEENA	MCA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
12	2022-23	2202080011	VARDAAN AGGARWAL	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
13	2022-23	2201560005	DARSHIT RAGHAV	MCA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
14	2022-23	2113820020	MAYANK SINGHANIA	B.Sc. (H) Agriculture	Semester-IV	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF BASIC & APPLIED SCIENCE(SBAS)
15	2022-23	2201560003	KHUSHANK BISHARYA	MCA	Semester-IV	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
16	2022-23	2002080070	GRUSHA	BBA	Semester-VI	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
17	2022-23	2201560051	SAKSHI RAI	MCA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
18	2022-23	2202070058	RISHABH KHANDELWAL	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
19	2022-23	2201560048	ANSHUL YADAV	MCA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
20	2022-23	2202070059	MAYANK ARORA	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
21	2022-23	2202390057	AKANKSHA GUPTA	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
22	2022-23	2201560040	PIYUSH	MCA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
23	2022-23	2002080054	ANIKET	BBA	Semester-VI	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF ENGINEERING & TECHNOLOGY (SOET)
24	2022-23	2002080017	TANNU	BBA	Semester-VI	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
25	2022-23	2002080063	TANNU DAHIYA	BBA	Semester-VI	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
26	2022-23	2008790009	KAMAL	B.A. (H) Psychology	Semester-VI	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF HUMANITIES(SOHS)
27	2022-23	2202390021	DIKSHA YADAV	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
28	2022-23	2202390039	DIMPLE	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
29	2022-23	2202070041	HARSHIT GULATI	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
30	2022-23	2202080156	DEV KATYAL	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)

[Signature]

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K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

VALUE ADDED COURSE(VAC)

ACADEMIC YEAR 2022-23

COURSE CODE: VAC119

COURSE TITLE: RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML

COURSE OFFERED BY: SOET

LIST OF STUDENTS COMPLETING THE COURSE

S.NO	SESSION	ROLL NO	NAME	PROGRAMME	SEMESTER	COURSE CODE	COURSE TITLE	SCHOOL
31	2022-23	2202390016	DEV VATS	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
32	2022-23	2202080158	VIVEK MALHOTRA	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
33	2022-23	2202080121	RIYA SHARMA	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
34	2022-23	2202390029	HIMANSHU	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
35	2022-23	2202080104	UTSAV MANGLA	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
36	2022-23	2202080085	ABHAY SAINI	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
37	2022-23	2202080032	ROHIT YADAV	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
38	2022-23	2202070076	PARTH MANCHANDA	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
39	2022-23	2202080241	DEVANSH SHARMA	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
40	2022-23	2202390003	SUJAL BOSE	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
41	2022-23	2202390005	MOHIT	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
42	2022-23	2202390010	AKASH BHARDWAJ	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
43	2022-23	2208190007	KULDEEP JANGIR	B.A. (H) Economics	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF HUMANITIES(SOHS)
44	2022-23	2002080007	NITI	BBA	Semester-VI	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
45	2022-23	2202390019	KARTIK ARORA	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
46	2022-23	2202080247	SIDDHANT VOHRA	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
47	2022-23	2202070057	TANISHA SINGH	B.Com (H)	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
48	2022-23	2208190019	PARTH SHARMA	B.A. (H) Economics	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF HUMANITIES(SOHS)
49	2022-23	2202080100	PARUL YADAV	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
50	2022-23	2202080138	ARJUN	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
51	2022-23	2202390024	ANISHA SOLANKI	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
52	2022-23	2202080042	VERSHA SANSANWAL	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
53	2022-23	2202080047	SHRUTI SHREE	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
54	2022-23	2202390012	TRISH VIKRAM SINGH	BBA in BI and Analytics SAMATRIX	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)
55	2022-23	2202080122	DIKSHA JAYARA	BBA	Semester-II	VAC119	RESHAPING INTELLIGENT BUSINESS AND INDUSTRY	SCHOOL OF MANAGEMENT & COMMERCE(SOMC)

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This is to certify that **MUKESH KUMAR**, University Enrolment No **2202070034** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **ARYAN**, University Enrolment No **2202080120** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **PRASHANT KUMAR MAJUMDAR**, University Enrolment No **2201560026** of **MCA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **PARTH PAWAR**, University Enrolment No **2202080088** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **MUSKAN**, University Enrolment No **2202390049** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **POORVA KHARE**, University Enrolment No **2202390015** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **YUG HANS**, University Enrolment No **2202390011** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **KANCHAN THAKRAN**, University Enrolment No **2202080053** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **SAHITYA SINGH**, University Enrolment No 2202390020 of BBA in BI and Analytics SAMATRIX programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session 2022-23 (Even Semester).

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This is to certify that **ISHITA S XAVIER**, University Enrolment No **2202070013** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **ELEENA**, University Enrolment No **2201560008** of **MCA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **VARDAAN AGGARWAL**, University Enrolment No **2202080011** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **DARSHIT RAGHAV**, University Enrolment No **2201560005** of MCA programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **MAYANK SINGHANIA**, University Enrolment No **2113820020** of **B.Sc. (H) Agriculture** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **KHUSHANK BISHARYA**, University Enrolment No **2201560003** of MCA programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **GRUSHA**, University Enrolment No **2002080070** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **SAKSHI RAI**, University Enrolment No **2201560051** of MCA programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **RISHABH KHANDELWAL**, University Enrolment No **2202070058** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **ANSHUL YADAV**, University Enrolment No **2201560048** of MCA programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **MAYANK ARORA**, University Enrolment No **2202070059** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **AKANKSHA GUPTA**, University Enrolment No **2202390057** of **BBA** in **BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **PIYUSH**, University Enrolment No **2201560040** of **MCA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **ANIKET**, University Enrolment No **2002080054** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **TANNU**, University Enrolment No **2002080017** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **TANNU DAHIYA**, University Enrolment No **2002080063** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **KAMAL**, University Enrolment No **2008790009** of **B.A. (H) Psychology** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **DIKSHA YADAV**, University Enrolment No **2202390021** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **DIMPLE**, University Enrolment No **2202390039** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **HARSHIT GULATI**, University Enrolment No **2202070041** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **DEV KATYAL**, University Enrolment No **2202080156** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **DEV VATS**, University Enrolment No **2202390016** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **VIVEK MALHOTRA**, University Enrolment No **2202080158** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **RIYA SHARMA**, University Enrolment No **2202080121** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **HIMANSHU**, University Enrolment No **2202390029** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **UTSAV MANGLA**, University Enrolment No **2202080104** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **ABHAY SAINI**, University Enrolment No **2202080085** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **ROHIT YADAV**, University Enrolment No **2202080032** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **PARTH MANCHANDA**, University Enrolment No **2202070076** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **DEVANSH SHARMA**, University Enrolment No **2202080241** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **SUJAL BOSE**, University Enrolment No **2202390003** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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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 VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that **AKASH BHARDWAJ**, University Enrolment No **2202390010** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23** (Even Semester).

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This is to certify that **KULDEEP JANGIR**, University Enrolment No **2208190007** of **B.A. (H) Economics** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

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This is to certify that NITL, University Enrolment No 2002080007 of BBA programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session 2022-23 (Even Semester).

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This is to certify that **KARTIK ARORA**, University Enrolment No **2202390019** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

hahajan

Controller of Examination

[Signature]

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



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This is to certify that **SIDDHANT VOHRA**, University Enrolment No **2202080247** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **TANISHA SINGH**, University Enrolment No **2202070057** of **B.Com (H)** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **PARTH SHARMA**, University Enrolment No **2208190019** of **B.A. (H) Economics** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **PARUL YADAV**, University Enrolment No **2202080100** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **ARJUN**, University Enrolment No **2202080138** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **ANISHA SOLANKI**, University Enrolment No **2202390024** of **BBA** in **BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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Dr. P. P.

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This is to certify that **VERSHA SANSANWAL**, University Enrolment No **2202080042** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **SHRUTI SHREE**, University Enrolment No **2202080047** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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This is to certify that **TRISH VIKRAM SINGH**, University Enrolment No **2202390012** of **BBA in BI and Analytics SAMATRIX** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23** (Even Semester).

Date: 25.07.2023

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This is to certify that **DIKSHA JAYARA**, University Enrolment No **2202080122** of **BBA** programme has successfully qualified **VALUE ADDED COURSE VAC119 (RESHAPING INTELLIGENT BUSINESS AND INDUSTRY: CONVERGENCE OF AI AND ML)** during Academic Session **2022-23 (Even Semester)**.

Date: 25.07.2023

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Drp

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