



Maharaja Agrasen Institute of Management Studies

Affiliated to GGSIP University; Recognized u/s 2(f) of UGC

Recognized by Bar Council of India; ISO 9001 : 2015 Certified Institution

Maharaja Agrasen Chowk, Sector 22, Rohini, Delhi – 110086, INDIA www.maims.ac.in

Skill Enhancement Course on Data Analytics 1.0

February – April 2021

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Director
Maharaja Agrasen Institute
of Management Studies
Sector 22, Rohini, Delhi-86





Maharaja Agrasen Institute of Management Studies

(Established by Maharaja Agrasen Technical Education Society) Affiliated to GGSIP University, Delhi

Recognized U/s 2(f) of UGC & Bar Council of India

ISO 9001:2015 Certified Institution

www.maims.ac.in

Maharaja Agrasen Chowk, Sector-22, Rohini, Delhi-110086 India (Est. 2003); Office Phone: 8448186947

Courses offered: BBA, B.Com (H), B.A. Eco. (H), BA (JMC), BALLB & BBALLB

Under the Aegis of IQAC & in association with ThinkQuest Club

Department of Business Administration

is organizing

Skill Enhancement Certification Course

(February'21 – April'21)

Data Analytics 1.0 using Excel & SPSS for Undergraduate Students

Key Takeaways

- Application of Research Methodology
- Understanding of different types of data
- Able to describe, predict & make informed decisions
- Application in the specific areas of marketing, human resources, finance, and operations.



Time: 4:00 PM - 5:30 PM



Duration: 30 Hours



Starting From: 19 Feb 2021

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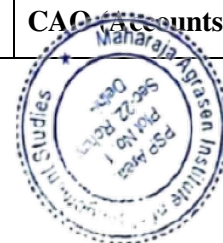
Maharaja Agrasen Technical Education Society (MATES), New Delhi

**Dr. Nand Kishore Garg Founder &
Chief Advisor, MATES
Chancellor, Maharaja Agrasen University, Baddi, HP**



Chairman		Executive Chairman	
Sh. Vineet Kumar Gupta		Sh. S.P.Aggarwal, IAS	
Sr. Vice Chairman			
Sh. Manoj Singhal			
Vice Chairmen			
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Maharaja Agrasen Institute of Management Studies	Maharaja Agrasen Institute of Technology	Maharaja Agrasen University	Maharaja Agrasen Global School
			
Prof. (Dr.) S. K. Garg- Director General	Prof. (Dr.) Neelam Sharma- Director	Prof. (Dr.) R. K. Gupta- Vice Chancellor	Sh. B. L. Mahajan- Director
Prof. (Dr.) Ravi Kumar Gupta- Director	Prof. (Dr.) S. S. Deswal- Dean (Academics)	Sh. Suresh Gupta- Project Director	Sh. J R Mani Tripathi CAO (Accounts)

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Sec-22, Rohini, Delhi-86





Resource Persons:

- **Dr. Parul Kumar, Convener & Asst. Prof. (9899220678)**
- **Prof. (Dr.) Vijay K. Khurana, Co-Convener & HOD**
- Dr. Bharti Chaudhary, Asst. Prof.
- Dr. Sumedha Dutta, Asst. Prof.
- Ms. Shilpee Aggarwal, Asst. Prof.
- Mr. Inderpal Singh, Asst. Prof.
- Ms. Preeti Bansal, Asst. Prof.
- Mr. Nakul Anand, Asst. Prof.

Who can attend?

- **Final Year Students**
- BBA
- B.Com (H)
- B.A.Eco (H)
- BALLB
- BBALLB
- BAJMC

No Fees

Online Sessions

Certificate of Completion

Top 7 Performers will get Certificate of Excellence

Last date of Registration:

Feb 16, 2021



Evaluation:

- Mid term – MCQ
- Final – MCQ
- Application based Project

Maharaja Agrasen Institute
of Management Studies
Sector 22, Rohini, Delhi-86

*Minimum 80%
Attendance*

Patrons:

Prof. (Dr.) S. K. Garg
(Director General, MAIMS)

Prof. (Dr.) G.P. Govil
(Advisor, MATES)

Prof. (Dr.) Ravi K. Gupta
(Director, MAIMS)

Program Head

Prof. (Dr.) Vijay K. Khurana
(HOD, Dept. of Bus. Admin.)



Course Content

Lec. No.	Topics	Software	Resource Person
1	Types of Data- Nominal, ordinal, ratio & interval	Excel	Prof.V.K. Khurana
2	Filter - Number and Text filters, data filters	Excel	Ms. Shilpee Aggarwal
3	Sorting - Sort by colour, reverse list and randomize list	Excel	Dr. Bharti Chaudhary
4	Conditional Formatting - Manage rules, data bars, colour scales	Excel	Mr. Inderpal Singh
5	Tables - Structured references, table styles and quick analysis	Excel	Ms. Preeti Bansal
6	Cleaning Data in Excel - removing duplicates, use of min & max	Excel	Dr. Sumedha Dutta
7	Data Screening through Descriptive Analysis	Excel	Mr. Nakul Anand
8	Use of Graphs - trend lines, Histogram, Rank & Percentile; multiple axis graph	Excel	Dr. Bharti Chaudhary
9	Pivot Table	Excel	Dr. Parul Kumar
10	Frequency distribution	Excel	Ms. Shilpee Aggarwal
11	Hypothesis testing - t test and z test	Excel	Dr. Sumedha Dutta
12	ANOVA	Excel	Mr. Nakul Anand
13	Correlation & Regression	Excel	Ms. Preeti Bansal
14	Working in SPSS: Entering data, variable labels, value labels	SPSS	Mr. Nakul Anand
15	Chart Creation Basics - box plot, histogram, PP plots	SPSS	Mr. Inderpal Singh
16	Descriptive Analysis & Crosstabulation	SPSS	Dr. Bharti Chaudhary
17	Mann Whitney Test, Wilcoxon test	SPSS	Dr. Sumedha Dutta
18	T-test & ANOVA	SPSS	Ms. Shilpee Aggarwal
19	Correlation & Regression	SPSS	Ms. Preeti Bansal
20	Exploratory Factor Analysis	SPSS	Dr. Parul Kumar

Requirements for Issue of Certificate

- 80% or more attendance.
- Submission of solutions/answers of all assignments.
- Submission of all weekly feedbacks
- Good performance in all MCQ based tests.



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Value Added Course on: Data Analytics 1.0

S.No	Name	Enrolment No.	19/2/2021	22/2/2021	24/2/2021	26/2/2021	3-1-2021	3-3-2021	3-5-2021	3-8-2021	3-10-2021	3-12-2021	15/3/2021	17/3/2021	19/3/2021	22/3/2021	24/3/2021	26/3/2021	5-10-2021	5-12-2021	14/5/2021	21/5/2021
1	Kunal Valecha	35214721620	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
2	Mayank Malhotra	35314721620	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
3	Nikita Gulia	35414721620	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
4	Aman Verma	35514721620	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
5	Manan Bahal	35614721620	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
6	Saurabh Pratap Singh	04114721620	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P
7	Shekhar Patnaik	04214721620	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P
8	Shruti Rawat	04314721620	A	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
9	Bipasha Rawat	01814721620	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P
10	Divyot Singh Jaggi	01914721620	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Divyanshu Chugh	02014721620	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Drya Bajaj	02114721620	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
13	Guneet Chowdhary	02214721620	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P
14	Hardik Nagpal	02314721620	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
15	Nilabh Sharma	00714721619	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P

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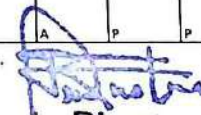
16	Tushar Rajput	00814721619	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
17	Abhinav Srivastav	00914721619	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
18	Rudraksh Batra	01114721619	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
19	Aniket Shankar	01214721619	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P
20	Isha Saldhi	01314721619	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
21	Kriti Chawla	01414721619	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
22	Kartik Kohli	01514721619	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
23	Shobhit Bansal	02014721619	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P
24	Swati Jain	02114721619	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P
25	Mitali Sharma	02214721619	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
26	Tanushree Sharma	02314721619	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	A	P	P
27	Ritika Dhiman	02414721619	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
28	Anmol Arora	02514721619	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
29	Anu	02614721619	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
30	Devanshu Budhiraja	02714721619	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P
31	Akshat Gupta	02814721619	P	A	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
32	Deepanshu Mishra	02914721619	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A
33	Allan Charles Swamy	03014721619	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P
34	Shruti Garg	03314721619	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A
35	Bhavit Khatri	03414721619	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A


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36	Arjun Singh	03514721619	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	A	P	P	P
37	Priyank Sapra	03614721619	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
38	Roma Madan	03714721619	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P
39	Karan	03814721619	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	Saarthak Singhal	35114721619	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P
41	Somya Jain	35214721619	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P
42	Pulkit Vig	35314721619	P	P	A	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
43	Siddhant Sagar	35414721619	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
44	Suryansh Singh Pawar	35514721619	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
45	Saumya Guliani	35614721619	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
46	Lipika Agrawal	03114721619	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
47	Sanskar Kapoor	03214721619	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P
48	Bhavya Walia	00214721619	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
49	Manika Chugh	00314721619	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P
50	Varchas Sharma	00414721619	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P
51	Rohan Saini	03814721620	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P
52	Sahil Kukreja	03914721620	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P
53	Sakshi Vashisht	04014721620	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
54	Ishita Garg	02514721620	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
55	Jewels Sethi	02614721620	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P


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56	Khushboo Katoch	02714721620	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
57	Aarush Kher	00314721620	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P
58	Aastha Suri	00414721620	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
59	Abhinav Pandey	00514721620	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P	P
60	Muskaan Khatri	40161188818	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
61	Aarnav Gupta	40261188818	P	P	P	P	P	P	A	P	P	A	A	P	P	A	P	P	P	P	P	P
62	Samaksh Gaur	40361188818	P	P	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	P	P	P
63	Yashica Garg	40461188818	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
64	Sanyam Sethi	03461188818	P	P	P	P	P	A	P	P	P	A	A	P	P	P	P	P	A	P	P	P
65	Shaswat Tyagi	03561188818	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
66	Shaurya Chugh	03661188818	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
67	Jatin Dubey	01761188818	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
68	Jatin Rohra	01861188818	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P
69	Kriti Khurana	01961188818	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
70	Manav Tomar	02061188818	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
71	Mayank Pruthi	02161188818	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
72	Kangna Batheja	01914788818	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
73	Kshiraj Goyal	02014788818	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
74	Mohit Saroha	02214788818	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
75	Nakul Chadha	02314788818	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P



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76	Abhinav Agarwal	00361188820	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
77	Abhinav Gupta	00461188820	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P
78	Aditya Singh	00561188820	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
79	Ashwariya Sandosh	00661188820	P	P	P	P	P	P	A	P	P	A	A	P	P	A	P	P	P	P	P	P
80	Shubham Jindal	00314788819	P	P	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	P	P	P
81	Raghav Goel	00414788819	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
82	Sudharshu Gupta	00514788819	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
83	Raghav Aggarwal	00614788819	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
84	Khushi Rathore	02514788819	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P	P
85	Minakshi	02614788819	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
86	Ritika Singhal	02714788819	P	P	P	P	P	P	A	P	P	A	A	P	P	A	P	P	P	P	P	P
87	Tripti Garg	02814788819	P	P	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	P	P	P
88	Harshit Upadhyay	02914788819	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
89	Shamendra Kumar	04214788819	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
90	Piyush Gandhi	04314788819	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P



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Value Added Course on: Data Analytics 1.0

S.No	Name	Enrolment No.	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
			20/2/2021	23/2/2021	25/2/2021	27/2/2021	3-2-2021	4/3/2021	3-6-2021	3-9-2021	3-11-2021	13/3/2021	16/3/2021	18/3/2021	20/3/2021	23/3/2021	25/3/2021	27/3/2021	5-11-2021	13/5/2021	15/5/2021	27/5/2021
91	Divyank Chhabra	04414788819	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
92	Gaurav Khandelwal	00561188819	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
93	Prema Sachdeva	00661188819	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
94	Aniket Bhutani	00761188819	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
95	Sankalp Mishra	00861188819	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
96	Avya Garg	02461188819	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
97	Vansh Gupta	02561188819	P	P	A	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P
98	Karan Goyal	02661188819	A	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
99	Mudit Arora	02761188819	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
100	Naman Bansal	02861188819	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
101	Yash Jain	03961188819	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
102	Anubhav Goel	04061188819	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
103	Udyan Mittal	04161188819	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P
104	Vishal Dugar	04261188819	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
105	Aparna	00614788818	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P
106	Avdhi Jain	00714788818	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P

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107	Chetan Kumar Pal	00814788818	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P
108	Snigdha Dhupal	03514788818	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P
109	Twinkle Mittal	03614788818	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P
110	Vinayak Agarwal	03714788818	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
111	Vivek Bumbra	03814788818	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
112	Raman Tayal	40614788818	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
113	Shreya Gupta	40714788818	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P
114	Mukul Bansal	40814788818	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
115	Dhruv Gupta	40914788818	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
116	Abhinav Jindal	00161188818	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	A	P	P
117	Abhishek Kataria	00261188818	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
118	Akash Kumar	00361188818	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
119	Aksh Swanni	00461188818	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
120	Amit Shukla	00561188818	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P
121	Ammar Moin	00661188818	P	A	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
122	Anish Arora	00761188818	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A
123	Himanshu Bishi	01461188818	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P
124	Ipsa Madhuri Lao	01561188818	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A
125	Jaspreet Singh Gauram	01661188818	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A
126	Muskan Bansal	02261188818	P	P	P	P	P	A	A	P	P	P	P	P	P	P	A	P	P	P	P


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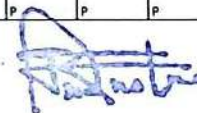
127	Neeraj Aggarwal	02361188818	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
128	Nikita Gupta	02461188818	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P
129	Sagar	03261188818	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
130	Samakh Sharma	03361188818	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P
131	Shulpi Gupta	03761188818	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
132	Tanya Gupta	03861188818	P	P	A	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
133	Tanya Hora	03961188818	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
134	Vaishnavi Singh	04061188818	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
135	Vishal Aggarwal	04161188818	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
136	Pranshu Rajpal	40561188818	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
137	Shubham Garg	40661188818	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
138	Pranshu Sharma	40761188818	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
139	Vanshika Chawla	41261188818	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
140	Lakshay Chadha	41361188818	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P
141	Aaditya Sharma	00114721620	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
142	Aarti Gupta	00214721620	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
143	Aditya Yadav	00614721620	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
144	Aishwarya Vasdev	00714721620	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
145	Amit Singh Rana	00814721620	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
146	Angel Jain	00914721620	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P


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147	Aryan Narang	01714721620	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
148	Khushi Garg	02814721620	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
149	Shubham Sharma	04414721620	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P	P
150	Simarjeet Singh	04514721620	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
151	Ritu Sangwan	00114721619	P	P	P	P	P	P	A	P	P	A	A	P	P	A	P	P	P	P	P	P
152	Gaurav Goyal	36014701719	P	P	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	P	P	P
153	Ujjwal	00514721619	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
154	Prashita Tomer	00614721619	P	P	P	P	P	A	P	P	P	A	A	P	P	P	P	P	A	P	P	P
155	Shreya Jain	35614701719	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P
156	Akarsh Chutani	08061101719	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
157	Mayank Antil	08161101719	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P
158	Rupali Matreja	08261101719	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P
159	Harsh Verma	08361101719	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P
160	Ashish Kumar	01614721619	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P
161	Shivay Gouri	01714721619	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
162	Anirudh Sharma	01814721619	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
163	Sarthak Chhabra	01914721619	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
164	Siddhant Bansal	11614701719	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
165	Gautam Sharma	11714701719	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P
166	Manan Kakkar	11814701719	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P


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167	Nehal Anand	11914701719	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P
168	Chirag Goel	12414701719	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
169	Adit Rajesh Chaudhry	12514701719	P	P	P	P	P	P	A	P	P	A	A	P	P	A	P	P	P	P	P	P
170	Yash Agarwal	12614701719	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
171	Akshita Sharma	12714701719	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
172	Sejal Jindal	12814701719	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P
173	Shreyash Jain	12914701719	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
174	Palak	13014701719	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P
175	Sahil Kavshik	13114701719	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
176	Abhishek Grover	09661101719	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
177	Hrisha Kuman	09761101719	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P



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MAHARAJA AGRASEN INSTITUTE OF MANAGEMENT STUDIES

(A unit of Maharaja Agrasen Technical Education Society)

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Maharaja Agrasen Chowk, Sector 22, Rohini, Delhi - 110086, INDIA

Tel. Office: 8448186947, 8448186950 www.maims.ac.in

Under the Aegis of IQAC Skill Enhancement Certificate Course

Data Analytics- 1.0

February-May 2021

Report

Topic: Data Analytics 1.0 (Skill Enhancement Certificate Course)

Date: 19th February 2021-30th May 2021

Time: 4:00 PM to 5:30 PM

Venue: GMeet

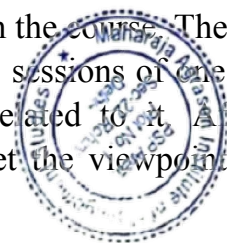
Beneficiaries with number: 177

Number of Batches: 2 (90+87)

Data Analytics is the need of an hour. In this dynamic & ever-changing environment, predicting the future has become more relevant, especially with the availability of enormous amount of data. Excel & SPSS (Statistical Package for Social Sciences) are the prominent tools in data analytics. They help generating meaningful results from the data by the application of various statistical methods with ease. Many companies have now been looking for a skilled professional, who understand the research methodology, statistical techniques, data presentation & working on statistical software. Thus, it encouraged the seasoned faculty of MAIMS to design a skill enhancement course in data analytics using Excel & SPSS for final year students. The Add on was conducted on G-meet Platform.

This Certification Course was the initiative taken under the aegis of IQAC in association with Think Quest Club for students of MAIMS. The prime objective of the course was to equip the students with the basics of research methodology & various quantitative data analysis techniques. Excel & SPSS had been used to conduct various statistical tests and make an inference about the data. Specifically, the course covered in-depth lessons for advance excel commands, formulas, charts/plots followed by descriptive analysis, parametric & nonparametric tests, correlation, regression, normality and factor analysis. A total of 177 students enrolled in the course. The course was conducted in two batches. The course was of 30 hours, divided in 20 sessions of one & half hour each. Every session was followed with a practical assignment related to it. After the completion of the week (2 sessions), a feedback form was floated to get the viewpoint of the

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students. A total of 10 such feedback forms were filled by the students. The students were assessed based on the assignment submitted, MCQ test on Excel and MCQ test on SPSS.

It was a great learning experience for the students as well as for the faculty. The sessions were conducted by Prof. (Dr.) Vijay Kumar Khurana, Dr. Parul Kumar, Dr. Bharti Chaudhary, Dr. Sumedha Dutta, Ms. Shilpee Aggarwal, Ms. Preeti Bansal, Mr. Inderpal Singh, and Mr. Nakul Anand. Certificates were given only to such students who successfully qualified all the four parameters, namely, attendance, feedback forms, assignments, and quizzes. The credit for this ambitious initiative goes to Prof. Vijay Kr. Khurana (HOD, Business Administration) & his team, who worked under the able guidance of the Prof. Ravi Kumar Gupta. Director MAIMS. Their constant support and encouragement helped in successful accomplishment of this program. The valedictory session of the certificate course was held on 22nd June 2021 and qualifying students were felicitated.

Convener –Dr. Parul Kumar, Senior Assistant Professor

About the Course

Courses on research methodology are often well packed with methods and techniques of data analyses, ‘but’ with limited understanding of the logic underlying the various techniques, methods, and research design. Keeping this challenge in mind, the present course has been designed for students who keen to do research & data analysis in the years to come. The students will learn how data analysts describe, predict, and make informed business decisions in the specific areas of marketing, human resources, finance, and operations. Analytics talent demand is much more than the available skilled supply. The students would be able to become employable in this fast-growing new age field by demonstrating the skills learnt through this course.

Excel & SPSS had been used to conduct various statistical tests and make an inference about the data. Specifically, the course covered in-depth lessons for advance excel commands, formulas, charts/plots followed by descriptive analysis, parametric & nonparametric tests, correlation, regression, normality, and factor analysis. Many companies have now been looking for a skilled professional, who understand the research methodology, statistical techniques, data presentation & working on statistical software. Thus, this course would build the data analysis skills among the students.

Objectives of the Course:

- Application of Research Methodology
- Understanding of different types of data
- Able to describe, predict & make informed decisions
- Application in the specific areas of marketing, human resources, finance, and operations. Quantitative Data Analysis

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Course Outcomes:

- Students will be able to analyze and work with large data sets and make meaningful interpretations.
- Students will also be able apply correct statistical tests on different types of data Students will be able to add value to their research projects.
- With advance knowledge of Excel & SPSS, they can easily start their careers as research analyst or data analyst.

Course content

This course is organized into 20 sessions as per details below:

Lec. No.	Topics	Resource Person
1	Types of Data- Nominal, ordinal, ratio & interval	Prof. V.K. Khurana
2	Filter – Number and Text filters, data filters	Ms. Shilpee Aggarwal
3	Sorting – Sort by colour, reverse list and randomize list	Dr. Bharti Chaudhary
4	Conditional Formatting – Manage rules, data bars, colour scales	Mr. Inderpal Singh
5	Tables – Structured references, table styles and quick analysis	Ms. Preeti Bansal
6	Cleaning Data in Excel - removing duplicates, use of min & max	Dr. Sumedha Dutta
7	Data Screening through Descriptive Analysis	Mr. Nakul Anand
8	Use of Graphs – trend lines, Histogram, multiple axis graph	Dr. Bharti
9	Pivot Table	Chaudhary Dr. Parul Kumar
10	Frequency distribution	Ms. Shilpee
11	Hypothesis testing – t test and z test	Aggarwal Dr. Sumedha Dutta

12	ANOVA	Mr. Nakul Anand
13	Correlation & Regression	Ms. Preeti Bansal
14	Working in SPSS: Entering data, variable labels, value labels	Mr. Nakul Anand
15	Chart Creation Basics - box plot, histogram, PP plots	Mr. Inderpal Singh
16	Descriptive Analysis & Crosstabulation	Ms. Shilpee Aggarwal
17	Mann Whitney Test, Wilcoxon test	Dr. Sumedha Dutta
18	T-test & ANOVA	Dr. Bharti Chaudhary

19	Correlation & Regression	Ms. Preeti Bansal
20	Exploratory Factor Analysis	Dr. Parul Kumar

Course Implementation Summary

The certification course was conducted from 19 February 2021 to 30 May 2021 via the online platform of Google Meet. The duration of the course was 30 hours along with the two MCQ quizzes & 20 assignments. Each class consists of a one & a half hour session along with the videos, a practice exercise, a quiz, and a reference guide. Classes were scheduled for twice a week. Following are the criteria based on which students are eligible for the certification:

- Attending regular classes using laptop.
- Submission of all Assignments.
- Participation in all Quizzes.
- Submission of the feedback form on timely basis.

Three toppers of the Course:

1. Roma Madan 03714721619
2. Ritika Singhal 02714788819
3. Vishal Aggarwal 04161188818


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Glimpses of the Event




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Sample Certificate:

Skill Enhancement Course on Data Analytics 1.0




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