



# 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](http://www.maims.ac.in)

## Skill Enhancement Course on Data Analytics

August 2018-October 2018

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





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(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  
Maharaja Agrasen Chowk, Sector-22, Rohini, Delhi-110086 India (Est. 2003); [www.maims.ac.in](http://www.maims.ac.in)  
Courses offered: BBA, B.Com (H), B.A. Eco. (H), BA (JMC), BALLB



**MAIMS  
Organizes**

## *Skill Enhancement Certification Course*

*On*

## *Data Analytics*

*(Aug '18 – Oct '18)*

### **Key Takeaways**

- Application of Research Methodology.
- Understanding of different types of data.
- Able to describe, predict & making decisions.
- Application in the specific areas of management.
- Use of Excel/ SPSS in data analysis

**Time: 3:00 PM - 4:30 PM**

**Duration: 30 Hours**

**Date of Commencement: 13 Aug 2018**

**For queries, mail us on:**

**[bhartimaims@gmail.com](mailto:bhartimaims@gmail.com)**

**Programme Head: Prof. (Dr.) Vijay Kr.  
Khurana Convener. Dr. Bharti  
Chaudhary  
Co-Convener: Dr. Shilpee Aggarwal**

  
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## About Maharaja Agrasen Technical Education Society

Maharaja Agrasen Technical Education Society (MATES) is a charitable trust comprising of a group of well-known Educationists, Industrialists, Businessmen, Professionals and Philanthropists with an aim to promote quality education in the field of Technology, Management, Law, Pharmacy and Health Services to shape the human society for a better future. Dr. Nand Kishore Garg (Founder & Chief Advisor-MATES, Chancellor-MAU, Three Times MLA-Delhi Vidhan Sabha) has been a significant source of inspiration and motivation for achieving the aims and goals of the society.

## About Maharaja Agrasen Institute of Management Studies

MAIMS was established in 2003 by Maharaja Agrasen Technical Education Society. The Institute has attained a distinct position in running BBA, B. Com (H), BA (H) Eco, BA (JMC), BALLB (Integrated) programmes affiliated with Guru Gobind Singh Indraprastha University, Delhi. The Institute was granted ISO certification 9001:2015 after meeting the updated requirements of ISO certification. MAIMS has over the years grown into a premier center of excellence and has made its niche in the areas of teaching, research, consultancy, and corporate development.

  
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# Course Description


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 understand the basic concepts of research & data analysis in the years to come. The students will learn basics of research and how data analysts describe, predict, and make informed business decisions in the specific areas of marketing, human resources, finance, and operations. 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 on basic concepts of research, hypothesis formulation, sampling and data collection followed by descriptive analysis, literature review . Thus, this course would build research skills among the students.

## Schedule

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

*\*Hands on experience on Excel/Jamovi/SPSS etc.*

*\*Participants must make arrangement for their own software.*

  
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# Registration

<b>Last Date of Registration</b>	<b>Fees till 6<sup>th</sup> August'2018</b>
External Participant	INR 2500/-
Free for Internal Participant	

*Limited seats on first cum first*

## Who should attend?

Research Scholars, Early Researchers, Students  
– Undergraduate & Postgraduate,  
Research Enthusiastic.

### Bank Account / Paytm Details for Payment

IMPS/NE FT		Paytm/U PI	
Account Holder's Name	Maharaja Agrasen Institute of Management Studies	Name	Maharaja Agrasen Institute of Management Studies/ Anil Kumar
Bank Name	Union Bank of India	Mobile No.	8448186940
Account Number	394502010059876		
Account Type	Savings Account		
IFSC	UBIN0560421		
*UTR/Ref. No. & Screenshot of payment to be uploaded for completing the registration form			

## Requirements for Issue of Certificate

**80% or more attendance**  
**Submission of solutions/answers of all assignments**  
**Submission of weekly feedbacks**  
**Good performance in all MCQ test**

**Cash Prizes: INR 500/- each shall be given to top 3 performers.**

**Certificate of Merit** will be issued to top 5 performers.

**Certificate of Completion** will be issued to participants who successfully complete the course.

  
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## Resource Persons

Prof. (Dr.) Vijay K. Khurana, Professor

Dr. Bharti Chaudhary, Convener & Assistant Professor

Ms. Shilpee Aggarwal, Co- Convener & Assistant Professor

Ms. Sumedha Dutta, Assistant Professor

Dr. Deepak Dagar, Assistant Professor

Ms. Shilpee Aggarwal, Assistant Professor

Mr. Inderpal Singh, Assistant Professor

Ms. Preeti Bansal, Assistant Professor

Mr. Nakul Anand, Assistant Professor

**For further queries mail us: [bhartimaids@gmail.com](mailto:bhartimaids@gmail.com)**

  
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Value Added Course on Data Analytics

		BATCH-1																						
S.No	Name	Enrollment No.	13/8/2018	17/8/2018	20/8/2018	22/8/2018	24/8/2018	5/9/2018	7/9/2018	10/9/2018	12/9/2018	14/9/2018	24/9/2018	26/9/2018	28/9/2018	1/10/2018	3/10/2018	5/10/2018	8/10/2018	10/10/2018	12/10/2018	15/10/2018		
1	ANSH KHARRANDA	1314701718	Ansh	Ansh	Ansh	Ansh		Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh		Ansh	Ansh		
2	ANVITA JAIN	1414701718	Anu	Anu	Anu		Anu	Anu	Anu	Anu	Anu	Anu	Anu		Anu	Anu	Anu	Anu	Anu	Anu	Anu	Anu		
3	ARNAV DASITAM	1514701718	Arn	Arn		Arn	Arn	Arn	Arn		Arn	Arn	Arn	Arn	Arn	Arn	Arn	Arn	Arn	Arn	Arn	Arn		
4	ARYAN GOYAL	1614701718	Arjn		Arjn	Arjn	Arjn		Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn	Arjn		
5	ROBIN RAI	0614701718	Robin	Robin	Robin	Robin	Robin		Robin	Robin		Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin		
6	ROHAN CHALHAN	0714701718	Rohan	Rohan		Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan		Rohan	Rohan		
7	SACHIN	0814701718	Sachin	Sachin	Sachin	Sachin	Sachin		Sachin	Sachin		Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin	Sachin		
8	SACHIN AGARWAL	0914701718		Sachin	Sachin	Sachin	Sachin	Sachin		Sachin	Sachin	Sachin	Sachin	Sachin	Sachin		Sachin	Sachin	Sachin		Sachin	Sachin		
9	SADIL KARN	1014701718	Sadil		Sadil	Sadil	Sadil	Sadil	Sadil	Sadil		Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil		
10	SADIL GUPTA	1114701718	Sadil		Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil	Sadil		
11	SAKSHAM GOEL	1214701718	Sak	Sak	Sak	Sak	Sak	Sak	Sak		Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak		
12	SALONI SINGH	1314701718	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal	Sal		
13	SAMAKSH KAPUR	1414701718		Sam	Sam	Sam		Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam		
14	SAMARTH GARD	1514701718	Sam	Sam		Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam		
15	SANDAL UPPAL	1614701718	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand		Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand		
16	SANYA GUPTA	1714701718	Sany	Sany	Sany	Sany		Sany	Sany		Sany	Sany	Sany	Sany	Sany	Sany	Sany	Sany	Sany	Sany	Sany	Sany		
17	VISHAL KANORA	42814701718	Vish	Vish	Vish	Vish	Vish	Vish		Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish		
18	SHEVAM AGORA	43014701718	Shev	Shev	Shev	Shev	Shev	Shev	Shev		Shev	Shev	Shev	Shev	Shev	Shev	Shev	Shev	Shev	Shev	Shev	Shev		
19	ISHIKA GUPTA	43114701718	Ish	Ish	Ish		Ish	Ish	Ish	Ish	Ish		Ish	Ish	Ish	Ish	Ish	Ish	Ish	Ish	Ish	Ish		
20	JAHNAVI VERMA	43214701718	Jah	Jah	Jah	Jah	Jah		Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah	Jah		
21	CHAITANYA AGGARWAL	43314701718	Chai	Chai	Chai		Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai		
22	ROBIN SINGH	43414701718	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin	Robin		
23	VIDHI BANSAL	43614701718	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi		
24	PRASHANT SARTY	43714701718	Prash	Prash	Prash	Prash		Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash	Prash		
25	CHIRAG AHUJA	43814701718	Chir	Chir		Chir	Chir	Chir	Chir	Chir	Chir	Chir	Chir	Chir		Chir	Chir	Chir	Chir	Chir	Chir	Chir		
26	IVNEET SINGH GAMBHIR	43914701718	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne		Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne	Ivne		
27	YASH RAI	44114701718	Yash		Yash	Yash	Yash	Yash	Yash	Yash	Yash	Yash	Yash	Yash	Yash		Yash	Yash	Yash	Yash	Yash	Yash		



28	KANSHIKA PANWAR	44214701718	Ka	Ka	Kg	Kg	Kg	Kg	Kg	Kg		Kg	Kg	Kg	Kg	Kg	Kg	Kg		Kg	Kg	Kg
29	ANKIT SEHGAL	44314701718		Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit
30	PREETI SINGH	44414701718	Pa	Pa		Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa
31	AANYA JAIN	44514701718	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
32	MEHAK GUPTA	44714701718	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma	Ma
33	SAKSHI MUNDRA	44814701718	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se	Se
34	UTKARSHA SAHANI	7714701717	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut	Ut
35	VISHAL GUPTA	7814701717	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi	Vi
36	YANSHU CHAUDHAN	7914701717	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya	Ya
37	YOGESH KUMAR MADHREY	8014701717	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym	Ym
38	ANKIT DAHIYA	3514701717	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad	Ad
39	ARUSHI AGGARWAL	35214701717	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar
40	CHIRAG AGGARWAL	35314701717	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch
41	ISHIT GUPTA	35414701717	Isht	Isht		Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht	Isht
42	KUNAL MITTAL	35514701717	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl	Kunl
43	MUSKAN PATHAK	35614701717	Muskan		Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan	Muskan
44	NIKHIL DARG	35714701717	Ng	Ng	Ng		Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng	Ng
45	MEHAK GUPTA	7814701716	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
46	MEHUL TAYAL	5914701716	Mehul	Mehul		Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul	Mehul
47	MOHAMMAD AMAAN SULTAN	6014701716	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
48	MUSKAN SURANA	6114701716	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
49	NETIKA GULIA	6314701716	N	N		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
50	NITYA BANSAL	6414701716	Nitya		Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya	Nitya
51	NAKUL CHADHA	2314788818	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul	Nakul
52	NAVJEN DYER	2414788818	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat
53	NAVYA LOGANI	2514788818	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat	Nat
54	PARAG GUPTA	2614788818	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag	Parag
55	PAYAL KAPOOR	2714788818	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa
56	PRANSHU TIWARI	2814788818	Pr	Pr	Pr		Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr
57	PULKIT GUPTA	2914788818	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu	Pu
58	PARAS BHARDWAJ	291188818	Paras	Paras		Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras	Paras
59	HEAM GULATI	3161188818		Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam	Heam
60	SAGAR	3261188818	S	S	S		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S



61	KAMAKSHI SHARMA	1351100018	Sang	Sang	Sang		Sang	Sang	Sang		Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang
62	SANYAM SETHI	1351100018		Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang	Sang
63	SIRASWAT TYAGI	1351100018	Sh	Sh		Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
64	SHARBYA CHUGH	1351100018	Sh	Sh	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch	Sch
65	SHUBHI GUPTA	1351100018	Shubi	Shubi		Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi	Shubi

  
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Value Added Course on: Data Analytics

			BATCH-2																				
S.No	Name	Enrollment No.	13/8/2018	14/8/2018	15/8/2018	16/8/2018	21/8/2018	22/8/2018	23/8/2018	25/8/2018	4/9/2018	6/9/2018	8/9/2018	11/9/2018	13/9/2018	15/9/2018	25/9/2018	27/9/2018	29/9/2018	14/10/2018	6/10/2018	11/10/2018	15/10/2018
1	BHAWNA AGGARWAL	35114788810	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)	(B)
2	KAMAL KISHORE BANSAL	35114788810	RB	RB	RB	RB	RB	RB	RB	RB		RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB
3	RUSHITA JAIN	11214788810	RT	RT	RT	RT	RT	RT	RT	RT	RT		RT	RT	RT	RT	RT	RT	RT	RT	RT	RT	RT
4	SAHIL GUPTA	12414788810	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
5	VANSHIKA DEWAN	35514788810	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
6	VASU AGGARWAL	35614788810	VASU	VASU	VASU	VASU	VASU	VASU	VASU	VASU		VASU	VASU	VASU	VASU	VASU	VASU	VASU	VASU	VASU	VASU	VASU	VASU
7	PRIVANSHU	40114788810	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya	Priya
8	MAYANK KANSAL	40114788810	M.K	M.K	M.K	M.K	M.K	M.K	M.K	M.K	M.K		M.K	M.K	M.K	M.K	M.K	M.K	M.K	M.K	M.K	M.K	M.K
9	AKSHIT DHINGRA	40114788810	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP	AKP
10	ADIT KHOSLA	40114788810	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit	Adit
11	AAYUSH SINGHAI	40514788810	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S	A.S
12	PRASHAL JAIN	40614788810	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T
13	MERZA KAUM BEG	40714788810	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz	Miz
14	RAGHAV BANSAL	40914788810	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB	RB
15	PRASANNA JAIN	41014788810	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T	P.T
16	AASTHA	161102418	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata	Ata
17	AJHINT KALIR	261102418	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur	Akaur
18	ADITYA GAUTAM	361102418	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg	Adg
19	ANKET SHARMA	481102418	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS	AS
20	ANKIT KUMAR	561102418	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit
21	ARPI MITTAL	661102418	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP	ARP
22	AKUSHE SINGHAI	761102418	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh	Singh
23	RABUL JAIN	3361102418	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj
24	RAJARORA	3461102418	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj
25	RAJNAK GUPTA	3561102418	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
26	RITIKA KOPHIJ	3661102418	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
27	KOSHNI DHAR	3761102418	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar	Phar



28	SAHIL PANDEY	1801102418	Sahil		Sahil	Sahil	Sahil	Sahil	Sahil	Sahil		Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
29	SARTHAK KUMAR	1801102418	SK	SK	SK	SK	SK	SK	SK	SK		SK	SK	SK	SK	SK	SK	SK	SK	SK
30	SRAGIN JAIN	4001102418	S	S	S	S	S	S	S	S		S	S	S	S	S	S	S	S	S
31	SHOBHA MAKKAR	4101102418	Sm	Sm	Sm	Sm	Sm	Sm	Sm	Sm		Sm	Sm	Sm	Sm	Sm	Sm	Sm	Sm	Sm
32	SHUBHANGI AGGARWAL	4201102418	Shu	Shu	Shu	Shu	Shu	Shu	Shu	Shu		Shu	Shu	Shu	Shu	Shu	Shu	Shu	Shu	Shu
33	SMARITA SACHDEWA	4301102418	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp		Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp	Sp
34	TANMAY NASKAR	4401102418	Tm	Tm	Tm	Tm	Tm	Tm	Tm	Tm		Tm	Tm	Tm	Tm	Tm	Tm	Tm	Tm	Tm
35	TRIVON SENGUPTA	4501102418	Tu	Tu	Tu	Tu	Tu	Tu	Tu	Tu		Tu	Tu	Tu	Tu	Tu	Tu	Tu	Tu	Tu
36	UTKARSH NALTYAL	4601102418	Utk	Utk	Utk	Utk	Utk	Utk	Utk	Utk		Utk	Utk	Utk	Utk	Utk	Utk	Utk	Utk	Utk
37	VERONICA WADHAWAN	4701102418	Ver	Ver	Ver	Ver	Ver	Ver	Ver	Ver		Ver	Ver	Ver	Ver	Ver	Ver	Ver	Ver	Ver
38	YOGESH KUMAR	4801102418	Yog	Yog	Yog	Yog	Yog	Yog	Yog	Yog		Yog	Yog	Yog	Yog	Yog	Yog	Yog	Yog	Yog
39	AAKANKSHA VERMA	114702416	Aa	Aa	Aa	Aa	Aa	Aa	Aa	Aa		Aa	Aa	Aa	Aa	Aa	Aa	Aa	Aa	Aa
40	AKANKSHA GUPTA	114702416	Aka	Aka	Aka	Aka	Aka	Aka	Aka	Aka		Aka	Aka	Aka	Aka	Aka	Aka	Aka	Aka	Aka
41	AMARPALE AGGARWAL	414702416	Amr	Amr	Amr	Amr	Amr	Amr	Amr	Amr		Amr	Amr	Amr	Amr	Amr	Amr	Amr	Amr	Amr
42	ANISH GANGULI	114702416	Ani	Ani	Ani	Ani	Ani	Ani	Ani	Ani		Ani	Ani	Ani	Ani	Ani	Ani	Ani	Ani	Ani
43	ANSHUL KUCHIBAR	114702416	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh		Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh	Ansh
44	ASHIMA	714702416	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm		Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm	Asm
45	ASHISH SHARMA	814702416	As	As	As	As	As	As	As	As		As	As	As	As	As	As	As	As	As
46	DIKSHA AGARWAL	1514702416	D	D	D	D	D	D	D	D		D	D	D	D	D	D	D	D	D
47	NAKUL GUPTA	15414702416	Nak	Nak	Nak	Nak	Nak	Nak	Nak	Nak		Nak	Nak	Nak	Nak	Nak	Nak	Nak	Nak	Nak
48	PRIVANK SINGHAL	15514702416	P	P	P	P	P	P	P	P		P	P	P	P	P	P	P	P	P
49	SHEAURYA KOHLI	15614702416	SK	SK	SK	SK	SK	SK	SK	SK		SK	SK	SK	SK	SK	SK	SK	SK	SK
50	AMAN BHARTI	40114702416	Ana	Ana	Ana	Ana	Ana	Ana	Ana	Ana		Ana	Ana	Ana	Ana	Ana	Ana	Ana	Ana	Ana
51	ISHPREET KAUR SAINI	40314702416	I	I	I	I	I	I	I	I		I	I	I	I	I	I	I	I	I
52	ANU PATEL	114721617	Anu	Anu	Anu	Anu	Anu	Anu	Anu	Anu		Anu	Anu	Anu	Anu	Anu	Anu	Anu	Anu	Anu
53	RAM UTKARSH DAS	114721617	Ram	Ram	Ram	Ram	Ram	Ram	Ram	Ram		Ram	Ram	Ram	Ram	Ram	Ram	Ram	Ram	Ram
54	MAYANK KUMAR	1014721617	May	May	May	May	May	May	May	May		May	May	May	May	May	May	May	May	May
55	GADGAY KISATTAR	1814721617	G	G	G	G	G	G	G	G		G	G	G	G	G	G	G	G	G
56	ASHIMA GUPTA	15114721617	As	As	As	As	As	As	As	As		As	As	As	As	As	As	As	As	As
57	JASGUIN SINGH ATLEJY	15214721617	J	J	J	J	J	J	J	J		J	J	J	J	J	J	J	J	J
58	MANVI GARG	1514721617	M	M	M	M	M	M	M	M		M	M	M	M	M	M	M	M	M
59	KARTIK	15214721617	K	K	K	K	K	K	K	K		K	K	K	K	K	K	K	K	K
60	KIRTI SHARMA	1514721617	K	K	K	K	K	K	K	K		K	K	K	K	K	K	K	K	K







# MAHARAJA AGRASEN INSTITUTE OF MANAGEMENT STUDIES

(A unit of Maharaja Agrasen Technical Education Society)

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

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

Tel. Office: 8448186947, 8448186950 [www.maims.ac.in](http://www.maims.ac.in)

## Skill Enhancement Certificate Course

### Data Analytics

13 August- 15 October, 2018

### Report

Data Analytics is the need of the hour. In this dynamic & ever-changing environment, predicting the future has become more relevant, especially with the availability of enormous amounts of data. Excel & SPSS (Statistical Package for Social Sciences) are the prominent tools in data analytics. They help generate 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 understands 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.

This Certification Course was started for all the students of MAIMS, Research scholars, faculty & undergraduate students across the country. 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 advanced excel commands, formulas, charts/plots followed by descriptive analysis, parametric & nonparametric tests, correlation, regression, normality, and factor analysis. A total of 130 students completed the course. 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 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.

Registrations were opened from August 6, 2018 and the venue for the event was Lab 1.

  
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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, Mr. 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.(Dr.) M. K Bhat, Director, MAIMS. Their constant support and encouragement helped in the successful accomplishment of this program.

**\*Convener – Dr. Bharti Chaudhary, 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 are 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 understands the research methodology, statistical techniques, data presentation

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& 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.

### **Course content:**

This course is organized into 21 sessions as per details below:

S.No	Topic	Resource Person
1	Types of Data- Nominal, ordinal, ratio & interval	Prof . V.K. Khurana
2	Filter -N umber 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	Use of Graphs — trend lines, Histogram, multiple axis graph	Ms. Bharti Chaudhary
6	Cleaning Data in Excel - removing, use of min & max	Ms. Sumedha Dutta
7	Data Screening through Descriptive Analysis	Mr. Nakul Anand
8	Tables — Structured references, table styles and quick analysis, duplicates	Ms. Preeti Bansal
9	Macros	Dr. Deepak Dagar
10	Frequency distribution	Ms. Shilpee Aggarwal
11	Pivot Table	Dr. Deepak Dagar
12	Hypothesis testing — t test and z test	Ms. Sumedha Dutta
13	ANOVA	Mr. Nakul Anand
14	Correlation & Regression	Ms. Preeti Bansal
15	Working in SPSS: Entering data, variable labels, value labels	Mr. Nakul Anand
16	Chart Creation Basics - box plot, histogram, PP plots	Mr. Inderpal Singh



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17	Descriptive Analysis & Crosstabulation	Ms. Shilpee Aggarwal
18	Mann Whitney Test, Wilcoxon test	Ms. Sumedha Dutta
19	T-test & ANOVA	Dr. Bharti Chaudhary
20	Correlation & Regression	Ms. Preeti Bansal

### Course Outcomes:

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

The certification course was conducted from August 13, 2018 to October 15, 2018 in MAIMS's campus. 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.

  
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Following is the criteria based on which students are eligible for the certification:

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

Total Sessions: 20 of 1.5 hour each

Total number of students completed the course: 130

  
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Top three positions were occupied by following students:

1. ARNAV GAUTAM 1514701718
2. ANKIT SEHGAL 44314701718
3. ADIT KHOSLA 40414788816

  
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## Sample Certificate:

### Skill Enhancement Course on "Data Analytics"

August 2018-October 2018



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