



Maharaja Agrasen Institute of Management Studies

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

Skill Enhancement Course on Quantitative Research & Analysis using MS Excel & SPSS

February – May 2021

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Sector 22, Rohini, Delhi-86





Maharaja Agrasen Institute of Management Studies
Affiliated to Guru Gobind Singh Indraprastha University, Delhi, INDIA
Maharaja Agrasen Chowk, Sector-22, Rohini, Delhi-110086, INDIA;
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Dr. Manju Gupta
Head, Department Commerce

Wednesday, 17th February, 2020

SKILL ENHANCEMENT CERTIFICATE COURSE

On

“Quantitative Research & Analysis using MS Excel & SPSS”

Certificate Course Name	Quantitative Research & Analysis using MS Excel & SPSS
Course Objectives	This course endeavors to demystify the web of knowledge surrounding research methods, focusing particularly on business research with statistical tools and techniques. The course will acquaint the learners with the fundamentals of research and data analysis, the ultimate aim of which is to equip the participants with superior research skills. This will enable them to not only publish high quality research papers in reputed journals, but will also allow them to become well-rounded business professionals.
Resource Person(s)	<ul style="list-style-type: none"> • Ms. Sumati Kohli, Convener & Assistant Professor • Dr. Rachna Jain, Co-Convener & Assistant Professor • Dr. Manju Gupta, Head, Department of Commerce • Dr. Nisha Jindal, Assistant Professor • Ms. Taranpreet Kaur, Assistant Professor • Ms. Rachita Agarwal, Assistant Professor • Ms. Kajal Mittal, Assistant Professor
Duration	30 Hours (20 Sessions: 1.5 hour each)
Commencement Date	Monday, February 22, 2021
Course Fee	Nil for students of MAIMS, 2500/- for external participants
Session Timings	3:00 pm - 4:30 pm
Venue	Google Meet
Participants	Undergraduate Students
Number of Seats	Limited seats are available (on first come first served basis)
Important Dates	Registration starts 9 th February 2021 Last date to register for Skill Enhancement Certificate Course is 18 th February 2021 Course Starts from 22 nd February 2021
Registration Link	https://forms.gle/nEESsMWwXScHZ1qx7
Issue of Certificate	Certificate of completion shall be issued to successful participants.
Convener(s)	Ms. Sumati Kohli, Convener & Assistant Professor, Department of Commerce, M: 9810440408 Ms. Rachna Jain, Co-Convener & Assistant Professor, Department of Commerce, M: 9810407768

Manju

Dr. Manju Gupta
Head, Department of Commerce

Director
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SKILL ENHANCEMENT CERTIFICATE COURSE DETAILS

“Quantitative Research & Analysis using MS Excel & SPSS”

Research forms a very important backbone for developing new knowledge and ideas. In the business world, quantitative research is crucial for understanding customer needs, development of strategy and for overall organizational success. Sound knowledge of research is an important skill to be a successful professional in today's time. Knowledge of data analysis and quantitative research would be helpful and would support students in the future research progression. Now- a –days, sophisticated research software packages facilitate research in an efficient and resourceful manner. Hence, this skill enhancement course is designed to cater to the needs of students for a sound understanding of research design and use of related software for data analysis.

This course endeavors to demystify the web of knowledge surrounding research methods, focusing particularly on business research with statistical tools and techniques. Hands-on experience on dummy data will be given at the end of the course.

Objectives:

- To acquaint the learners with the fundamentals of research and data analysis
- To define research variables and learn data collection methods
- To impart capabilities for formulation and testing of hypothesis based on the nature of research.
- Enhance the ability to publish high quality research papers in reputed journals

Benefits of the Skill Enhancement Certificate Course:

- Guidance from Expert Resource Persons
- Publication in high repute journals
- Enhance your resume
- Certificate


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COURSE CONTENT

S. No.	Topics	No. of Sessions
1	Types of Data- Nominal, ordinal, ratio & interval, Working in SPSS: Entering data, variable labels, value labels	1
2	Transformation of data Cleaning Data in Excel & SPSS	1
3	Data Screening through Descriptive Analysis – Excel & SPSS	2
4	Descriptive Statistics – Excel & SPSS – Excel & SPSS	1
5	Cross tabulation – One & Two Variables – Excel & SPSS	1
6	Use of Graphs – trend lines, Histogram, Rank & Percentile; multiple axis graph, Chart Creation Basics - box plot, histogram, PP plots – Excel & SPSS	1
7	t-test/z-test one sample & two sample-Excel & SPSS	2
8	t-test/z-test paired sample – Excel & SPSS	1
9	ANOVA – Excel & SPSS	1
10	Correlation – Pearson's Coefficient –Excel & SPSS	1
11	Correlation – Spearman's Rank –Excel & SPSS	1
12	Regression – Assumptions	1
13	Regression – Simple & Multiple – Excel & SPSS	2
14	Chi-square Test, Sign test- SPSS	1
15	Kruskal Wallis Test, Friedman's Test - SPSS	1
16	Mann Whitney Test, Wilcoxon test - SPSS	1
17	Factor Analysis - SPSS	1
	TOTAL	20


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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.

Duration: 30 Hours (1.5 hour per session: Total 20 sessions)

Resource Person(s):

- Ms. Sumati Kohli, Convener & Assistant Professor
- Dr. Rachna Jain, Co-Convener & Assistant Professor
- Dr. Manju Gupta, Head, Department of Commerce
- Dr. Nisha Jindal, Assistant Professor
- Ms. Taranpreet Kaur, Assistant Professor
- Ms. Rachita Agarwal, Assistant Professor
- Ms. Kajal Mittal, Assistant Professor

Course Schedule: From 22nd February, 2021 (3 p.m. to 4:30 p.m.)

Who can attend? Undergraduate Students

Criteria for Certification:

- Attendance
- Submission of assignment/quizzes within specified time
- Submission of all weekly feedbacks

Important Dates:

Registration starts 9th February 2021

Last date to register for Skill Enhancement Certificate Course is 18th February 2021

Course Starts from 22nd February 2021


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Value Added Course on: Quantitative Research & Analysis using MS Excel & SPSS

			Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
S.No	Name	Enrolment No.	22/2/2021	24/2/2021	26/2/2021	3-1-2021	3-3-2021	3-5-2021	3-10-2021	3-12-2021	15/3/2021	17/3/2021	19/3/2021	22/3/2021	24/3/2021	26/3/2021	29/3/2021	31/3/2021	5-3-2021	5-5-2021	5-7-2021	5-10-2021
1	Garvit Garg	04014701720	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
2	Gaurav Kumar	04114701720	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
3	Gautam Dongree	04214701720	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
4	Gautam Sarkar	04314701720	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
5	Hansika Kharbanda	04414701720	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
6	Hari Chopra	04514701720	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
7	Harsh Chauhan	04614701720	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P
8	Harsh Gupta	04714701720	A	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
9	Harsh Surana	04814701720	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
10	Pranjal Chandra	09214701720	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	Pratham Singh	09314701720	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Pratyaksh Gupta	09414701720	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
13	Prerit Bhageria	09514701720	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P
14	Vishwanath Oberoi	14814701720	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
15	Yash Garg	14914701720	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P
16	Yash Tanwar	15014701720	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P

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17	Yashasvi Singh	15114701720	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
18	Yatharth Sharma	15214701720	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P
19	Yuvraj Sawhney	15314701720	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P
20	Shikhar Sood	12561101720	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
21	Shikhar Upadhyay	12661101720	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
22	Shivam Jain	12761101720	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
23	Shivam Mahendru	12861101720	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P
24	Shreya Garg	12961101720	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
25	Shubham	13061101720	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
26	Shubhankar Verma	13161101720	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	A	P	P
27	Vaibhav Bhatia	14261101720	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
28	Vansh Jain	14361101720	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
29	Vanshika Garg	14461101720	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
30	Vasu Garg	14561101720	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P
31	Vishakha Singh	14661101720	P	A	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
32	Vishal Singh	14761101720	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A
33	Vivek Rana	14861101720	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P
34	Divyansh Katana	08461101719	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A
35	Dev Chhabra	08561101719	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A
36	Radhika Sekari	08661101719	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	A	P	P	P	P

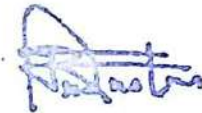

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37	Rahul Khuranna	08761101719	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
38	Nandit Sharma	11561101719	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P
39	Raghav Dembla	11661101719	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	Tanu Rani	11761101719	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P
41	Piyush Agarwal	11861101719	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
42	Kunal Goyal	12261101719	P	P	A	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
43	Paarth Sharma	12361101719	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
44	Kirti Arora	12461101719	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
45	Mannan Parashar	12061101719	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
46	Nikunj Gupta	12161101719	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
47	Aryan Kapoor	12561101719	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
48	Yash Chopra	13261101719	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
49	Vatsal Aggarwal	13561101719	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
50	Yash Bisht	13661101719	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P
51	Akash	00461101718	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
52	Akhil Anilkumar	00561101718	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
53	Arz Bhatnagar	01661101718	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
54	Ashut Kedia	01761101718	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
55	Aswin A M	01861101718	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
56	Ayushi Mittal	01961101718	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P

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77	Yogesh Vedwal	12161101718	P	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	A	P	P	P
78	Tanishq Arora	36461101718	P	P	P	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
79	Vasu Garg	36561101718	P	P	P	P	P	P	A	P	P	A	A	P	P	A	P	P	P	P	P	P
80	Veni Garg	36661101718	P	P	P	P	P	P	A	P	P	A	A	P	P	P	A	P	P	P	P	P



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			Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
S.No	Name	Enrolment No.	23/2/2021	25/2/2021	27/2/2021	3-2-2021	3-4-2021	3-6-2021	3-9-2021	3-11-2021	13/3/2021	13/3/2021	16/3/2021	18/3/2021	20/3/2021	5-4-2021	5-6-2021	5-9-2021	5-11-2021	13/5/2021	16/5/2021	18/5/2021
81	Vidisha Jain	36761101718	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A
82	Nisha Mallik	42061101718	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
83	Muskaan Chauhan	42161101718	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
84	Rhythm Jindal	42361101718	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
85	Shubham Dua	44161101718	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
86	Kumar Gaurav	44361101718	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
87	Bhavvy Batra	44461101718	P	P	A	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P
88	Sambhav Ahuja	44561101718	A	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P
89	Kartikeya Aggarwal	02114788820	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P
90	Khushi Garg	02214788820	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
91	Khushi Narang	02314788820	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
92	Khushin Gupta	02414788820	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
93	Krsh Garg	02514788820	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P
94	Kshitiy Khanna	02614788820	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
95	Kshitiy Srivastava	02714788820	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P
96	Lakshay Ahuja	02814788820	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P

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97	Lakshay Sharma	02914788820	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
98	Rahul	03714788820	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P
99	Ramanan Kartik	03814788820	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P
100	Rhythm Bansal	03914788820	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
101	Sajal	04014788820	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
102	Samarth Wadhwa	04114788820	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
103	Samuksha Singh	04214788820	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P
104	Sarthak Jhamb	04314788820	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P
105	Shashwat Goel	04414788820	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
106	Vidit Rajpal	05214788820	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	A	P	P
107	Vijay Kumar Bansal	05314788820	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
108	Ishika Dhingra	35114788820	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
109	Kabir Behl	35214788820	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
110	Kunal Sharma	35314788820	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P	A	P
111	Bhoomi Jain	01561188820	P	A	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
112	Chirag Bansal	01661188820	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A
113	Dikshita Mohita	01761188820	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
114	Dipanshu Kandav	01861188820	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A
115	Divyansh Singh	01961188820	P	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A
116	Rahul Ahuja	01461188820	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	A	P	P	P


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117	Rahul Dembla	03561188820	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
118	Sajal Bansal	03661188820	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P
119	Saksham Mittal	03761188820	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
120	Sanchi Aggarwal	03861188820	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P
121	Yash Jain	03914788818	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P
122	Divansh Singh	00114788819	P	P	A	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
123	Geetika Sareen	00214788819	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
124	Kshitij Sood	00714788819	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
125	Priyansh Bansal	01714788819	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
126	Jeeya Rajpal	01814788819	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
127	Akshit Bansal	01914788819	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P
128	Arpit Bucchha	02014788819	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
129	Deepanshi Kharagwal	02114788819	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
130	Sidhant Mahajan	02214788819	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P
131	Apurv Pulastya	02314788819	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
132	Ronit Kapil Khanna	02414788819	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
133	Avijit Rajpurohit	03014788819	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
134	Tarang Gupta	03114788819	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
135	Pulkit Garg	03814788819	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P
136	Chirag Negi	03914788819	P	P	A	P	P	P	A	P	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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Skill Enhancement Certificate Course on “Quantitative Research and Analysis Using MS Excel and SPSS” February 2021-May 2021

Topic: Quantitative Research and Analysis Using MS Excel and SPSS (Skill Enhancement Certificate Course)

Date: 22nd February 2021-31st May 2021

Time: 3:00 PM to 4:30 PM

Venue: GMeet

Beneficiaries with number: 166

Number of Batches: 2 (80+86)

Maharaja Agrasen Institute of Management Studies, Department of Commerce under the aegis of IQAC started a Skill Enhancement Certificate Course on “Quantitative Research and Analysis using MS Excel and SPSS”. The course was started for the 3rd year undergraduate students of MAIMS. Registration for the same began on 9th February 2021 and classes started from 22nd February, 2021 and ended on 31st May, 2021. With 20 sessions of 1.5 hours each, the course was of 30 hours duration in total.

The basic aim of the course was to demystify the web of knowledge surrounding research methods, focusing particularly on business research with statistical tools and techniques. The course will acquaint the learners with the fundamentals of research and data analysis, the ultimate aim of which is to equip the participants with superior research skills. This will enable them to not only publish high quality research papers in reputed journals, but will also allow them to become well-rounded business professionals.

The certificate course was headed by Dr. Manju Gupta, Professor & Head, Department of Commerce. The course was convened by Dr. Rachna Jain, Associate Professor, Department of Commerce. Seven faculty members namely Dr. Nisha Jindal, Dr. Rachna Jain, Ms. Taranpreet Kaur, Ms. Rachita Agarwal, Ms. Sumati Kohli, Ms. Kajal Mittal & Ms. Divisha

Gupta acted as the resource person for the course covering various topics of research as per their expertise. Google meet was the online platform chosen for the conduct of classes. At the end of every topic, students were required to fill a feedback form. They were also required to participate in a short multiple choice question quizzes after every topic. Criteria of certification is threefold i.e., Attendance, Feedback form and Completion of multiple choice question quizzes that were conducted from time to time.

The course had been started with the basic research topics like Types of Data, Entering data in SPSS, Data Cleaning, Data Screening and Descriptive Statistics. Then, Advance research statistical tools & techniques were also covered like Cross Tabulation, Use of Graphs

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Hypothesis testing, ANOVA, Correlation, Simple Regression, Multiple Regression, Chi-square test, Mann- Whitney test, Kruskal Wallis Test and Factor Analysis. Topics were chosen keeping in mind the requirements of students in further studies and research. Almost all the topics were covered by using both the software – SPSS and Ms Excel. Practice questions were given to students in class so as to give those hands on experience on data. In total 3 session were taken by Ms. Kajal Mittal, 3 sessions by Ms. Sumati Kohli, 3 sessions by Ms. Rachita Aggarwal, 3 sessions by Ms. Taranpreet Kaur, 4 sessions by Dr. Rachna Jain, 3 sessions by Dr. Nisha Jindal and 1 by Ms. Divisha Gupta.

Such courses provide expert guidance to students & help them in building their resume. It gives them an edge over others when it comes to working in the corporate world. It helps the students in acquainting themselves with fundamentals of research and data analysis. The credit for this initiative goes to Dr. Manju Gupta, Program Head, Department of Commerce who worked under the able guidance of Prof. (Dr.) Ravi Kumar Gupta, Director, MAIMS. Their constant support and encouragement helped in successful accomplishment of this course.

Three toppers of the Course:

1. **Pratyaksh Gupta** **09414701720**
2. **Yash Chopra** **13261101718**
3. **Avi** **35614788819**



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Dr. Rachna Jain

[Convener, Associate Professor, Department of Commerce]



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Sample Certificate:

Quantitative Research and Analysis using MS Excel and SPSS




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