



Ministry of Education
Pandit Madan Mohan Malaviya National Mission
on Teachers and
Teaching Learning Centre
Ramanujan College
University of Delhi
(NAAC Grade 'A')
in association with
Indian Accounting Association, NCR Chapter

organises

2 Weeks Refresher Course

on

**'Data Analysis
with
Statistical Methods'**

**(Sharpening Skills in Statistical Analysis through
Ms-Excel, SPSS, MATLAB and R)**

21st December, 2020 to 3rd January, 2021

ADVISORY COUNCIL & ORGANISING COMMITTEE



Prof. Nageshwar Rao
Vice Chancellor, IGNOU,
Former VC,
Uttarakhand Open University



Prof. I. M. Pandey
Former Dean and
Offg. Director, IIM
Ahmedabad



CA (Dr) Girish Ahuja
National Tax Guru of
Direct Taxes
Former Faculty, SRCC, D.U



Dr. S.P. Aggarwal
Web Chair, Principal,
Ramanujan College,
University of Delhi



CA (Dr.) Sanjeev Singhal
President, IAA, NCR Chapter
Central Council Member,
ICAI, Course Moderator



Dr. J.L. Gupta
Member, Executive Council,
Delhi University, Secretary,
IAA, NCR Chapter



Dr. Rekha Dayal
Vice President, IAA,
NCR Chapter,
Associate Professor, JMC



Dr. Anjali Gupta
Joint Sec, IAA, NCR
Chapter, Assistant
Professor, ARSD, DU



About the Course

Research and data analysis is very significant for all professionals to develop decision-making process today. Today, Strategic think tanks are using reliable data analysis techniques in the predictive analysis based on historical data. Now- a – days, a software package is accessible to analyse data in a more resourceful manner. Hence, the present workshop is designed to cater to the needs of academicians, researchers, and industry professionals for a sound understanding of research design and use of related software for data analysis. Academicians, Researchers, Ph.D/Doctoral Scholars, Professionals and Students with interest in Data Science can attend the Refresher Course on Data Analysis using Statistical Methods like SPSS, R,MS-Excel and Mat Lab.

Who should attend?

The Refresher Course is open to Faculty members (regular/ad-hoc/temporary) from any National or International University/College and scholars pursuing research in different areas of Sciences and Social Sciences. The REFRESHER COURSE is also important and useful for participants seeking promotions under the 7th CPC from AL 10 to AL 11, AL 11 to AL 12 and AL 12 to AL 13.

HIGHLIGHTS OF THE COURSE

Duration:

The refresher course will be of two weeks duration, with a minimum of 72 contact hours spread over a span of 14 working days

Evaluation:

- *The evaluation will be done as per the guidelines promulgated by the MHRD/UGC.
- * The total marks will be 100 (Assignments 40 marks and Multiple Choice Objective Test 60 marks)
- * Participants will be issued E-certificates only when he/she has 90% attendance.
- * It is also mandatory for all the participants to submit the duly filled feedback form online for each session.

Registration & Course Fee

Participation Fee per person (Non-Refundable) :--- INR 850/ - ; For physically challenged (Including visually impaired) participants INR 425 /-

Limited seats, admission on first – come, first - serve basis.

Course Pre-requisites

STEP I -- All the aspirants are requested to pay registration fee by NEFT/UPI/IMPS/PayTm details of the account are :

Account Name: Principal Ramanujan college

Account Number: 072001003912 IFSC Code: ICIC0000720

BANK AND BRANCH: ICICI BANK LTD. Kalkaji , New Delhi-110019 MICR CODE: 110229078

STEP II -- The candidates are required to register online after paying registration fee and by using following links:

<https://forms.gle/RmSNzgXpFoHxpJRP8>

[https://forms.gle/uDPtevYRd3\]3mLnt5](https://forms.gle/uDPtevYRd3]3mLnt5) [for physically challenged,including visually impaired participants].

Refresher Course Pre-Requisites

- Basic knowledge of Mathematics, Statistics, Econometrics and Research methodology is an essential preference.
- Relevant Software are required on the laptops of the participants.
- Wherever needed Data Worksheets will be provided.
- It is the responsibility of the participant to take a NOC or inform their employer.
- As per the guidelines prescribed by the Government of India the candidates who are visually impaired (blind/low vision) or orthopedically handicap may use services of a subscribe at their own cost for the online assessments.



Resource Persons

The resource persons include Prof. C.P. Gupta (Department of Financial Studies, South Campus, D.U.), Prof. S.S. Bhakar (Director, Prestige Institute of Management, Gwalior), Prof. Ananya Ghosh Dastidar (Department of Business Economics, South Campus, D.U.), Mr. Narain (Faculty of Management Studies, North Campus, D.U.) and other eminent experts in the area of Advance Research Methodology and Statistical Tools from all over India.

Focus of the Programme

Date/Day	Session-I 10.00 am-11.30 am	Session-II 12.00 - 1.30 pm
21-12-2020 Monday	Inaugural session (10.00 am-12.00 am)	Introduction to Research Variables and Methods (12.00 - 1.30 pm) Introduction to Measurement Scales of Research Variables (2.00 - 3.30 pm)
22-12-2020 Tuesday	Sampling Designs or Techniques	Formulation of Hypothesis
23-12-2020 Wednesday	Questionnaire designing	Data Analysis using SPSS
24-12-2020 Thursday	Testing of Hypothesis-parametric	Analysis of Variance
26-12-2020 Saturday	Testing of Hypothesis - Non- parametric	Testing of Hypothesis -Non-parametric
28-12-2020 Monday	Introduction to Excel	Advance Data Analysis using Excel
29-12-2020 Tuesday	Advance Data Analysis using Excel	Advance Data Analysis using Excel
30-12-2020 Wednesday	Measures of Association and Correlation	Introduction to Regression
31-12-2020 Thursday	Multiple Regression	Functional Forms & Dummy Variables in Regression
1-1-2021 Friday	Introduction to MATLAB	Introduction to MATLAB
2-1-2021 Saturday	Introduction to R	Data Analysis using R
3-1-2021 Sunday		Assessment Valedictory (2 PM -4:00 PM)

NOTE:

The Library Hours - 3:00 p.m-4:00 p.m (Everyday)

Discussion and Evaluation - 11:30a.m -12:00 p.m and 1:30 -2:30 p.m (Everyday)

Please Note the Following Points:

- After successful registration, participants are requested to join the official group on “Telegram” details of which will be provided in the confirmation mail. Participants are therefore requested to install Telegram App either from Play Store or App Store.
- It is strictly advised for the participants, who wish to attend the Refresher Course to do the registration and payment immediately. No requests will be entertained after the seats are full.
- The participants are advised to carefully fill their transaction details of payment at the time of filling of registration form.
- The programme fee will be refunded only in exceptional cases if the applicant is not selected.



Refresher Course Rules

- The REFRESHER COURSE begins on 21st December, 2020. Details of the programme will be sent to the participants later.
- As the REFRESHER COURSE is being organized under the prestigious PMMMNMSTT scheme of MHRD, prime importance is given to willing and serious participants who are eager to learn. In this context, it should be noted that certificates will be awarded to only those participants who will be present online and engaged during each session of the REFRESHER COURSE. Therefore, it is compulsory for participants to attend all the online sessions in order to receive certificate of participation.
- E-certificates will be given within 7 to 10 days after conclusion of the programme.
- The participant is required to read and accept all the conditions provided in the brochure.

ADVISORY COUNCIL

Prof. Kshiti Bhusan Das, Pro-Vice Chancellor, IGNOU.

Prof. R.N. Goyale, Former Head, Dept. of Commerce, Dean, Faculty of Commerce and Business, DU.

CA Amarjeet Chopra, Chairman NACAS, Ex. President, ICAI.

Prof. C. P. Gupta, Dept. of Financial Studies, South Campus, D.U.

Prof. Abdul Aziz Ansari, Dept. of Commerce and Business, Jamia Millia Islamia, V.P, IAA, NCR Chapter.

Prof. Madhu Vij, Dept. of Business Administration, FMS, D.U., Executive Member, IAA, NCR Chapter.

Prof. Sanjay Sehgal, Head, Dept. of Financial Studies, South Campus, D.U

Prof. V. K. Kaul, Head, Department of Business Economics, DU.

Dr. P.C. Jain, Former Principal, SRCC, D.U.

Prof. R. K. Singh, Head, Dept. of Commerce, Dean, Faculty of Commerce and Business, DU.

Prof. S.S. Bhakar, Director, Prestige Institute of Management, Gwalior.

Prof. Jay.S. Matadeen, , University of Mauritius.

Prof. Surender Kumar, Dept. of Economics, Delhi School of Economics, D.U.

Prof. Ram Singh, Dept. of Economics, Delhi School of Economics, D.U.

Prof. Neeraj Kaushik, Head, Dept. of Business Administration, NIT, Kurukshetra

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