



सत्यमेव जयते
Ministry of Education
Government of India

**DEPARTMENT OF COMMERCE
IN COLLABORATION WITH
TEACHING LEARNING CENTER**

**RAMANUJAN COLLEGE
(Accredited Grade 'A++' by NAAC)
UNIVERSITY OF DELHI**

**IS ORGANISING
TWO-WEEK FACULTY DEVELOPMENT
PROGRAMME (HYBRID MODE)
IN
RESEARCH METHODOLOGY
&
DATA ANALYSIS
14 DECEMBER - 28 DECEMBER 2023**



**CALL FOR
REGISTRATION
& PARTICIPATION**

CONCEPT NOTE

The scholarly and research spaces are ever advancing and with the introduction of New Educational Policy, 2019, the pool of academicians and researchers are liable to address and adapt up to the difficulties of these developing viewpoints. Research Methodologies are likewise continually being redesigned with new innovations and software being presented. The area of Social Science is seeing changes in the ways to deal with Quantitative and Qualitative Research Methods. Thus, it is strongly believed that research and development have become an essential component, not only in academic institutions but in industries as well. Thus, a Faculty Development Programme on research methodology would be valuable.

This Two-week FDP focus on the wide parts of Quantitative and Qualitative Research Methods with regard to the Social Science discipline. The FDP doesn't expect to limit itself to the hypothetical domains of quantitative and qualitative research. The purpose of this FDP is to enable participants to understand the data, different test, and techniques and effectively apply in their research along with reporting of research outcomes with the utilization of SPSS, E-views and other softwares. The present FDP is designed in a manner to provide a complete package of important quantitative and qualitative research methodologies. It is a learning journey from both quantitative and qualitative aspects in social science research.

THEMATICS

<p>Day 1</p>	<ul style="list-style-type: none"> • Types of Research, Types of Data • Research Process • What exactly is Review of Literature? • What exactly is a Hypothesis? Types of Hypotheses: Null & Directional 	<ul style="list-style-type: none"> • Model Building, Gaps in Model • How to frame Research Questions and Objectives? • Research Design • Brief idea about various Measurement & Data Analysis • Steps for Statistical Analysis
<p>Day 2</p>	<ul style="list-style-type: none"> • Use of AI tools for the Review of Literature 	<ul style="list-style-type: none"> • Use of AI tools for the Review of Literature
<p>Day 3</p>	<ul style="list-style-type: none"> • Introduction to the Statistical Software • Data Entry in the software- Data View, Variable view • Basic functions -Merge Data, Recode into same/different variable 	<ul style="list-style-type: none"> • Data Cleaning Operations- Missing Frequency, Outlier, Improper Codes, Logical Error, Merge cases
<p>Day 4</p>	<ul style="list-style-type: none"> • Demystifying Concepts, Constructs, Variables, Dimensions, Items • Questionnaire & Scales • Type of Scales, Models • Introduction to theoretical Modeling • Discussion of lower- and higher-order constructs 	<ul style="list-style-type: none"> • Introduction to reflective and Formative Scales • Discussion of Seminal Papers for higher order scaling and measurement • Dimension Identification through deductive and inductive inquiry • Dimension Table • Item Generation • Discussion of Seminal Papers for reporting practices of Dimensionality

<p>Day 5</p>	<ul style="list-style-type: none"> • Face Validation • Content Validation • Measurement through Content Validity Index • Calculation and assessment of I-CVI, S-CVI (S-CVI/UA, S-CVI/Ave), Modified Kappa (κ^*) • Discussion of Seminal Papers for calculation, assessment and reporting of item analysis 	<ul style="list-style-type: none"> • Introduction Systematic Literature Review-Variou frameworks • Bibliometric Analysis
<p>Day 6</p>	<ul style="list-style-type: none"> • Brief idea about various Measurement • Assumptions of Normality, Linearity, Homogeneity of Variance • Univariate Analysis: Mean, Median, Mode, Standard deviation 	<ul style="list-style-type: none"> • Bivariate Analysis: Hypothesis tests (Parametric & Non-parametric tests)
<p>Day 7</p>	<ul style="list-style-type: none"> • Bivariate Analysis: Cross-tabulation & Chi sq test 	<ul style="list-style-type: none"> • Bivariate Analysis: Correlation & Simple Regression
<p>Day 8</p>	<ul style="list-style-type: none"> • Multiple Regression- various Statistics and Assumptions 	<ul style="list-style-type: none"> • Logistics Regression • Binary Regression, • Multinomial Regression, • Ordinal Regression
<p>Day 9</p>	<ul style="list-style-type: none"> • Linear Discriminant Analysis • Log-Linear Analysis 	<ul style="list-style-type: none"> • Exploratory Factor Analysis

<p>Day 10</p>	<ul style="list-style-type: none"> • Confirmatory Factor Analysis • Reliability & Validity in Reflective and Formative Constructs • Convergent Validity • Discriminant Validity • Nomological Validity 	<ul style="list-style-type: none"> • Handling Higher Order Constructs • Structural Equation Modeling • Predictive Relevance
<p>Day 11</p>	<ul style="list-style-type: none"> • Higher effects: Mediation, Moderation 	<ul style="list-style-type: none"> • Structural Model Robustness Check: • Endogeneity, • Common Method Biasness, • Unobserved Heterogeneity
<p>Day 12</p>	<ul style="list-style-type: none"> • Sampling Design • Different Formulae and methods for sample size determination 	<ul style="list-style-type: none"> • Reference writing using Mendeley • Tips for Paper Publication

FACULTY DEVELOPMENT PROGRAMME

The Ministry of Education (erstwhile, Ministry of Human Resource Development) launched the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMMNMTT) in 2014. One of the main objectives of this mission is to facilitate teacher training by constituting Teaching Learning Centers in various institutions of higher education in our country. The Teaching Learning Centers (TLCs) are mandated to promote on a continuous basis the learning of new pedagogical practices, methodology of forming discipline-specific curricula and creating new learning materials (including e-content) for use by the teachers in colleges and postgraduate departments. It is envisioned that the TLCs will accelerate the teaching-learning process by encouraging independent critical and creative thinking and facilitating research for subject specific growth. The TLCs will assist the faculty in capacity building for curriculum designing, scientific assessment and evaluation and the development of innovative academic programs to strengthen the inclusive nature of higher education. The TLCs are also encouraged to reach out to teachers teaching in regionally disadvantaged locations. The Pandit Madan Mohan Malaviya National Mission emphasizes the need to change the role and workings of a teacher from a mere disseminator of information and knowledge to the one who helps students to develop critical, analytical skills, capabilities to generate information, the ability to reason and to empower themselves through open sources and globally oriented digitalized self-learning processes. The focus is not only on 'what is taught' but also importantly, to 'the way it is taught,' in an effort to develop and enhance individual education, that will eventually go on to define the manner in which the future generations will work and live.

The Teaching Learning Centers offer Faculty Induction Programs (FIPs) for newly recruited faculty and Faculty Development Programs (FDPs) for teachers with experience who wish to update their field of knowledge, expertise and skill with the latest available research, resources and technology. In the FDPs, special emphasis is given to inter and cross-disciplinary methodologies of study.

University Grants Commission (UGC) has intensified its efforts to have a strong virtual engagement with the students through email/social media platform and hosting lectures using Google Class Room and other video-conferencing platforms. Keeping in view the immense benefits and reach of online courses in the present academic set-up, the Department of Commerce and the Teaching Learning Centre, Ramanujan College, University of Delhi is offering a Two-week Faculty Development Programme for faculty members and research scholars of higher education in the country. The **four-quadrant approach of Massive Open Online Courses (MOOCs)**, as prescribed by the Ministry of Education, is flawlessly incorporated, enriching the learning experiences of all participants.

ABOUT RAMANUJAN COLLEGE

Ramanujan College is a University of Delhi college, located in the well-known area of Kalkaji, near Nehru Place, in South Delhi. Ramanujan College has highly qualified, dedicated, and committed faculty members. The college runs 16 courses in different subjects in Humanities, Commerce and Science streams. It is also the study centre for the students of the the Non- Collegiate Women's Education Board University of Delhi, and the Indira Gandhi National Open University.

The college also runs several professional courses. The teachers of Ramanujan College are highly motivated and have original, published academic and creative work, including journals and other print media articles and educational film making to their credit. Ramanujan College is a premier institution of the University of Delhi and has been accredited grade "A++" by the National Assessment and Accreditation Council (NAAC). We at Ramanujan College emphasize the holistic development of personality, meaningful exposure to real-world, and inculcating practical skills amongst our students apart from ensuring academic excellence.



ABOUT DEPARTMENT OF COMMERCE

DEPARTMENT OF COMMERCE

The Department of Commerce, Ramanujan College was established in the year 1964, with B.A. Commerce (now B.Com.). Then, in 1969, Bachelor in Commerce (B.Com. (H)) was also introduced by the department. The department has resourceful & efficient faculty and is the largest department with highest student strength in the college. The department not only covers the commerce courses but also caters to the needs of the students of B. A. (Prog.) by offering discipline courses in Accounting and Finance and Entrepreneurship and Small Business (ESB). The Department gets formal academic course work with empirical education, and through its society - RamComm organises a rich range of co-curricular activities.

From time to time, Department of Commerce has conducted various Conferences, Faculty Development Programmes (FDP), Workshops and Seminars to motivate the students and teachers and help in their career development. To build up administrative and managerial skills, students are motivated and given responsibilities of organizing various events. The much-awaited annual inter- college commerce festival: Comdezvous gives a platform to students to show their talent and creativity. Upon graduation, many students find placements with renowned business organizations such as Ernst and Young, Amazon, Tech Mahindra etc.

ENRICHMENT SPECTRUM AT THE TEACHING LEARNING CENTRE (TLC), RAMANUJAN COLLEGE

- Emphasis on creating self-learning space for students Hands-on assignments and live projects
- Expert guidance on live projects Follow-up tasks
- Provision of study content (wherever required) Developing appropriate attitudinal orientation
- A learning experience for personality enrichment Augmentation of professional capabilities
- Co-creation and mutual contribution between participants and facilitators
- Access to global resources
- Adaptation skills for the dynamic contemporary environment

REGISTRATION PROCESS & PAYMENT DETAILS

Faculty members (regular/adhoc/temporary) from the discipline of Commerce, Management Studies and allied disciplines are eligible to apply for this Faculty Development Programme.

All those who meet the eligibility criterion are required to register and pay a Non-Refundable fee of Online Mode: INR 1450/-, and Offline Mode: INR 6500/-by visiting **rcmoocs.in**

REGISTRATION DEADLINE: 7 December , 2023

After successful registration & payment, the participants will receive a confirmation via email. Please keep checking the spam folder of the email as the bulk email sent may end up in the spam folder.

An official group has been made for communication with the participants on "Telegram." You are therefore requested to install the Telegram App either from the Play Store or App Store. The link to join the official group will be provided in the confirmation mail.

Note: For the participants who wish to join offline, they have to first fill out the Google form, those who will get the confirmation to join offline, will pay for the same.

IMPORTANT:

- Registration is mandatory for participation.
- For the participants who wish to join offline, they have to first fill out the Google form, those who will get the confirmation to join offline, will pay for the same.
- Attempting and submitting all the quizzes and assignments are mandatory, and each participant should score a minimum of 50% in total to avail of the programme completion certificate.
- Graded certificates on the basis of performance will be awarded to the participants.
- As part of the Ministry of Education's requirement under the PMMMMNMTT scheme, all participants need to submit online feedback for each session.
- Failing to meet any of the above conditions will result in denial of a certificate of completion to the participants.
- No Objection Certificate (NOC) or Leave is NOT REQUIRED to participate in the Online Programme, however those who wish to join offline, they need to provide NOC
- Those who wish to join the FDP offline have to make their own arrangements for stay, as college will not provide the same.

**For further information, write to us at:
fdpcommdec2023@du.ac.in**

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