



Government of India
Ministry of Human Resource
Development

MINISTRY OF HUMAN RESOURCE DEVELOPMENT

**PANDIT MADAN MOHAN MALAVIYA
NATIONAL MISSION ON TEACHERS AND TEACHING**

**TEACHING LEARNING CENTRE
RAMANUJAN COLLEGE
(UNIVERSITY OF DELHI)**

RESEARCH METHODOLOGY AND STATISTICAL TOOLS

**SEVEN-DAY FACULTY DEVELOPMENT PROGRAMME
15TH APRIL- 21ST APRIL 2019**

CALL FOR REGISTRATION AND PARTICIPATION



**Organized
by the
Teaching Learning Centre
Ramanujan College
(Accredited Grade 'A' by NAAC)
University of Delhi**

SEVEN-DAY FACULTY DEVELOPMENT PROGRAMME

RESEARCH METHODOLOGY AND STATISTICAL TOOLS

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The Ministry of Human Resource Development (MHRD) launched the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) in 2017. 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.

The Teaching Learning Centre at Ramanujan College, University of Delhi offers a SEVEN-day Faculty Development Programme on “Research

Methodology and Statistical Tools” for research scholars and teachers of higher education in the country from 15th APRIL – 21st APRIL 2019.

RAMANUJAN COLLEGE

Ramanujan College is 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 fifteen courses in different subjects in Humanities, Commerce and Science streams. It is also the study centre for the students of the School of Open Learning, University of Delhi, the Non- Collegiate Women's Education Board, University of Delhi and the Indira Gandhi National Open University. Ramanujan College has also been selected by the MHRD as a National Resource Centre. The College also runs a number of professional courses. The teachers of Ramanujan College are highly motivated and have original, published academic and creative work, including journal 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). The college has also been ranked 26th in the National Institute Ranking Framework (NIRF 2018).

We at Ramanujan College emphasize on the holistic development of personality, meaningful exposure to real world, and inculcating practical skills amongst our students apart from ensuring academic excellence.

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

- TLC, Ramanujan College is equipped with a modern state of art auditorium, conference rooms and ICT enabled class rooms.
- Emphasis to create 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
- 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

CONCEPT NOTE

In the present situation, education throughout the world is experiencing a major change. It has thus become necessary to advance the scholarly capital and to focus on connecting classroom teaching with applied research. Lack of correct knowledge of statistical tools and its application acts as a barrier for researcher to carry out quality research effectively. Proper learning of various research tools, methodology and use of software helps in combining research and practice. Therefore, to guarantee progressively skillful and scientific data analysis, a formal training is required.

This Faculty Development Programme intends to comprehend and perceive circumstances that require statistical analysis, figuring out how to choose and apply appropriate technique. This FDP includes lectures and hands on experience of various software that are used in empirical researches. It is aimed for sharpening the teaching and research abilities of faculties, researchers and trainers. It will build confidence among them in applying data analysis tools. Training on software like SPSS, R would significantly augment the level of research and publication skills of participants.

CONTENTS FOR THE FACULTY DEVELOPMENT PROGRAMME

- **Overview of Multivariate Research Techniques**
- **Introduction and Data Management using IBM SPSS Statistics**
- **Inferential Analysis:** Probability Distributions, Hypothesis testing, Concept of p value and significance testing, Assumption of Normality.
- **Parametric and Non-Parametric Tests:** Crosstabs and Chi Square test, One sample t test, Paired sample t test, Independent sample t test, One Way ANOVA, Post Hoc Analysis
- **Correlations Analysis, Simple and Multiple Regression Analysis with Assumptions Testing**
- **Exploratory and Confirmatory Factor Analysis, Structural Equation Modeling (SEM)**
- **Introduction to R:** Installing and Working with R

Eligibility

- ❖ The FDP is open to Faculty members (regular/ad-hoc/temporary) from any Indian university/college and registered Ph. D research scholars. However, preference will be given to young teachers and to out-station teachers working in remote parts of the country.
- ❖ All the participants are requested to register online by visiting www.rcdu.in on or before 24th March, 2019 by browsing the following link - <http://bit.ly/2V0savD>
- ❖ Registration for all the participants is mandatory. Only limited seats are available. Selected participants would be informed by 28th March, 2019.
- ❖ TLC Ramanujan College will provide the participants with the travel expenses (air fare or 2-ac train travel, whichever is cheaper).
- ❖ Boarding/lodging facility will be provided on request on twin sharing basis for outstation candidates.

For further queries, please mail at: tlc@ramanujan.du.ac.in

Registration Details

DETAILS OF REGISTRATION FEES

For Participants Seeking Accommodation: ₹2000/- (Refundable*)

For Other Participants: ₹1000/- (Refundable*)

Note: *The registration fee will be refunded after the completion of the FDP if the participant has successfully attended the FDP.

PAYMENT DETAILS

Process

First step: Participants will fill up the online application form with all required details within the final date of submission. Late applications will not be entertained. The final date of submission is the **24th March 2019**.

Second Step: Once the participant receives confirmation of acceptance of application, which we shall send by the **28th March 2019**, the participant will make online Payment of the Registration Fee, by **3rd April 2019**, through NEFT to the following account:

Account Name: Principal, Ramanujan College

Account Number: 0156000100585618

Bank & Branch: Punjab National Bank, Kalkaji

IFSC: PUNB0015600

MICR Code: 110024052

Outstation participants are at this stage advised to make travel arrangement.

Third Step: On receipt of payment of registration fees by the college the participant will receive a final confirmation and invitation letter.

FDP Rules

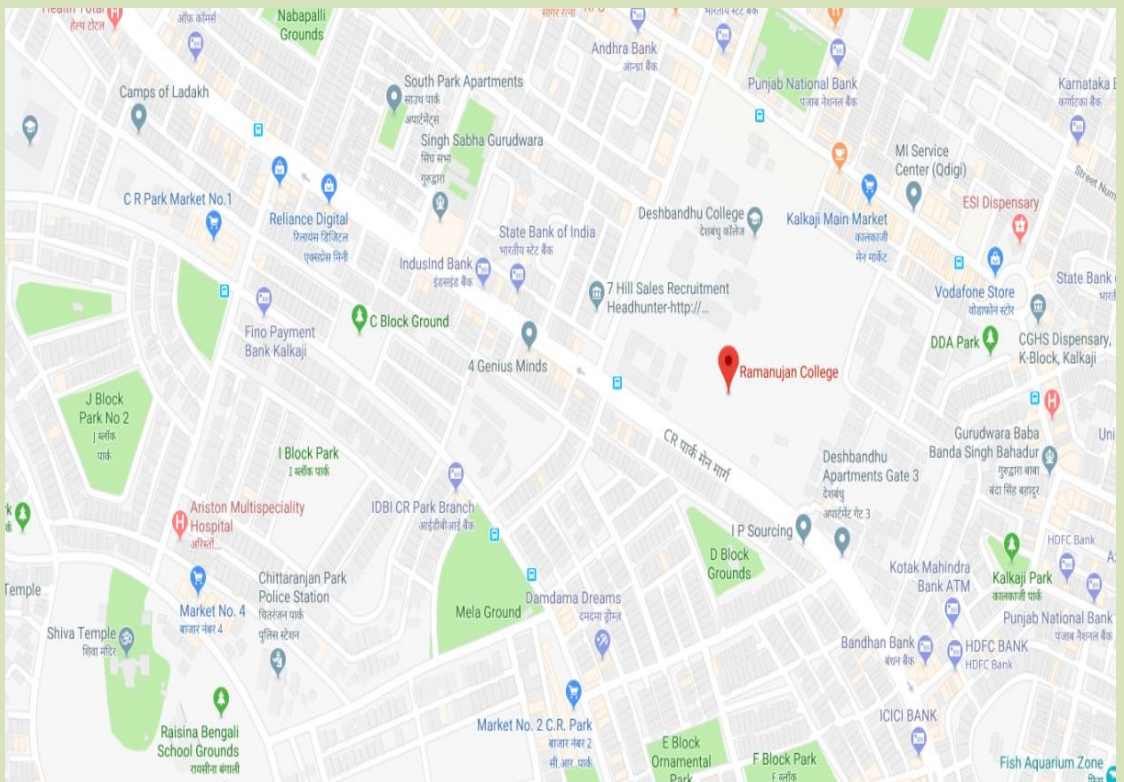
- The FDP begins on 15th April, 2019. The duration of the FDP per day is of **eight hours** with breaks for tea and lunch. Details of programme and the timings will be sent to participants.
- As the FDP is being organised under the prestigious PMMMNMTT scheme of MHRD, we at TLC, Ramanujan College give prime importance 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 and engaged during each session of the FDP. Therefore. It is compulsory for participants to attend all sessions in order to receive certificate of participation. Attendance will be taken at any time and any number of times during the sessions.
- Participants are requested to be punctual for all the sessions and strictly adhere to the date and time for all submissions.

- All participants will have to be present a short paper related to any aspect of the FDP.
- All participants have to send in online feedback for each session.
- Participants will share out the responsibility of writing reviews of each session.
- Please bring your own laptop for the hands-on session for the entire duration of the FDP.
- Bring your valid ID card for confirmation with the hotel.
- Bring the printout of the payment receipt to be deposited to the registration desk on the first day of the FDP.
- Those participants travelling by air should carry the printed tickets and boarding passes for the inward journey and mail us through courier or post the boarding pass for onward journey, failing which the reimbursement may not be done. Those participants coming by train should produce the print out of ticket (inward & onward) journey to the FDP team for smooth reimbursement. Local conveyance will not be paid.

VENUE

Ramanujan College, University of Delhi, Kalkaji, New Delhi - 110019

College is located in South Delhi near the well-known commercial hub of Nehru Place and the residential areas of Chittaranjan Park, Kalkaji and Greater Kailash. It is well connected with public transport and Delhi Metro (nearest metro station - Nehru Enclave Metro Station on Magenta Line).



ORGANISING BOARD OF THE FACULTY DEVELOPMENT PROGRAMME

CONVENOR

Dr. Kanwal Jeet Singh, Assistant Professor, Ramanujan College

CO-CONVENOR

Ms. Parul Saini, Assistant Professor, Ramanujan College.

ORGANISING SECRETARY

Mr. Prakhar Wadhwa, Assistant Professor, Ramanujan College

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TEACHING LEARNING CENTRE, RAMANUJAN COLLEGE

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DR. VIBHASH KUMAR, Assistant Professor, Department of Commerce and
Management Studies

Teaching Learning Centre

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University of Delhi

H Block, Kalkaji, New Delhi - 110019

Ph: +91-11-26430192

Email: ramanujancollege2010@gmail.com, tlc@ramanujan.du.ac.in

Website: <http://www.rcdu.in>