



TEACHING LEARNING CENTRE;
DEPARTMENT OF STATISTICS

and

RAMANUJAN CENTRE FOR
APPLIED MATHEMATICS & RESEARCH

Ramanujan College
(Accredited Grade 'A++' by NAAC)
University of Delhi



सत्यमेव जयते
Ministry of Education
Government of India

under the aegis of

PANDIT MADAN MOHAN MALAVIYA NATIONAL
MISSION ON TEACHERS AND TEACHING
MINISTRY OF EDUCATION

are organising an

**Online Two-week Refresher Course
in Statistics**

PARADIGMS & PRINCIPLES OF STATISTICS

22 June - 06 July 2022

Call for Registration & Participation

RAMANUJAN COLLEGE

Ramanujan College, a constituent College of the University of Delhi was established in 1958 as an evening college. The College has been accredited Grade “A++” by the National Assessment and Accreditation Council (NAAC) in its Second Cycle.

At present, Ramanujan College offers sixteen undergraduate programmes in different disciplines. Besides this, the college has been awarded the DDU KAUSHAL (Deen Dayal Upadhyay - Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood) Kendra (2016) by UGC and Teaching Learning Centre (2017) by Ministry of Education. The College also offers short-term diploma, certificate, and executive development programmes on contemporary and skill-oriented themes to complement the regular graduation courses. It is also the Study Centre of School of Open Learning (SOL), Non-Collegiate Women Education Board (NCWEB) and Indira Gandhi National Open University (IGNOU) for various courses.

In 2018, the College conducted a Course on Human Rights, Environment and Ethics through its National Resource Centre (NRC), under the Annual Refresher Programme in Teaching (ARPIT) scheme of MoE. The College has also entered into Memorandum of Understanding(s) with foreign universities. It is also working for collaboration with other higher education institutions located in remote areas of the country, under the Vidya Vistar Scheme of the University of Delhi.

In pursuit of its vision: “Discover, Empower, Transform: Building A Better World”, Ramanujan College is working towards the recommendations of the National Education Policy (NEP) 2020. The objective is to make the College a centre for interdisciplinary studies and research with a future focus on blended learning.

TEACHING LEARNING CENTRE RAMANUJAN COLLEGE

Teaching Learning Centre (TLC) is mandated by the Ministry of Education (MoE) to organise Faculty Development Programmes (FDPs), Faculty Orientation and Induction Programmes (FIPs), discipline specific and interdisciplinary Refresher Courses, conferences, workshops, through offline and online modes. These programmes are based on in-depth subject knowledge, quantitative and qualitative research methodologies, and on an interdisciplinary approach as is envisaged in the National Education Policy (NEP), 2020.

The TLC, Ramanujan College has been set up with the aim of "Reaching the Unreached" teachers in terms of regional diversity and geographically remote areas of the country. It has successfully conducted more than hundred learner-centric programmes since October 2017 and trained over one lakh teachers across the country in various discipline specific and interdisciplinary programmes.

In the TLC Programmes distinguished and internationally acclaimed resource persons deliver lectures and conduct sessions on wide ranging disciplines/topics of relevance in the contemporary and ever evolving global scenario to benefit the teaching fraternity, corporates and researchers. The sessions are also uploaded for larger audiences on the official YouTube Channel of the College.

Ramanujan College is a pioneer in offering offline/online courses for faculty members of higher education institutions and research scholars through the customised Learning Management System (LMS), designed by the College's Research Development and Services Cell. It is predominantly participant-friendly and incorporates evaluation methods and comprehensive feedback systems to judge learning outcomes. The LMS is hosted on CLOUD with high scalability and reliability. The College has installed its own Cloud Infrastructure to host its servers for research and data analysis.

Enrichment Spectrum at the TLC, Ramanujan College

- Transforming teachers into knowledge-creators
- Emphasis on creating self-learning space for participants
- Interaction with eminent scholars and academicians
- Four Quadrant Approach (e-tutorial, e-content, Self-Assessment and Web Resources).
- Regular follow-up with the participants through Google Classroom/ Telegram/ Discussion Forum.
- Adaptation skills for the dynamic contemporary environment
- Augmentation of professional capabilities and research-based knowledge
- Inter and cross-disciplinary methodologies of study
- Co-creation and mutual contribution between participants and facilitators
- Formation of knowledge capital
- Online certificates using the Blockchain Technology to ensure authenticity and verifiability

CONCEPT NOTE

Statistics is an emerging field of research having enormous applications in core areas with its allied sectors. To understand the increasing complexity among decision variables, many statistical techniques and tools have been developed in recent years. Each technique has its special assumptions and particular area of application. Statistics play a very important role in the current era for research and development and the knowledge of the theoretical approach of statistics and its application is necessary for the development of the research in various sectors. With the advancement in computational tools and techniques, this area has become most important for the current needs.

Therefore, this training programme has been designed to address the needs of both theory and applications. To proceed towards need-based research, statistics professionals engaged in various disciplines must be exposed to the advanced developments taking place in this area. The proposed training programme would help researchers in formulating appropriate strategies to face the upcoming challenges.

THEMATICS

- **Linear Regression Analysis**
- **Econometrics**
- **Sampling Techniques**
- **Data Science with Statistical Software**
- **Non - parametric Methods**
- **Simulation technique with open software software**
- **Multivariate Analysis**
- **Life testing**
- **Operational Research**
- **Machine Learning**
- **Information Theory**
- **Mathematical tools and software**
- **Graph theory**
- **Cryptography**

EXPECTED LEARNING OUTCOMES

After the completion of programme, participants will be equipped with:

- Recent advances in statistical theory
- Modern approach and its application in the real world
- Use of statistical software packages for data analysis

REGISTRATION PROCESS & PAYMENT DETAILS

ELIGIBILITY

The Refresher Course is open to Faculty members (regular/ad-hoc/temporary) from any Indian university/college and registered M.Phil./ Ph. D. research scholars in the disciplines of Mathematics, Statistics, Computer Science and its allied fields.

All those who meet the eligibility criterion are required to register and pay a **Non-Refundable fee of INR 1450/- by visiting**

rcmoocs.in

REGISTRATION DEADLINE: 21 June 2022

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.

IMPORTANT:

- Registration is mandatory for participation.
- Attempting and submitting all the quizzes and assignments is mandatory, and each participant should score atleast 50% aggregate to be eligible for the 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 PMMMNMTT scheme, all participants need to submit online feedback for each session.
- **No Objection Certificate (NOC) or Leave is NOT REQUIRED to participate in the Programme**
- Failing to meet any of the above conditions will result in the denial of completion certificate.

For further information, write to us at:

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or contact us through WhatsApp:

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ORGANISING BOARD OF THE PROGRAMME

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