









TEACHING LEARNING CENTRE RAMANUJAN COLLEGE

(ACCREDITED GRADE 'A' BY NAAC)
UNIVERSITY OF DELHI

in collaboration with

DESHBANDHU COLLEGE

(UNDER THE AEGIS OF IQAC)
UNIVERSITY OF DELHI

under the aegis of

PANDIT MADAN MOHAN MALAVIYA NATIONAL MISSION ON TEACHERS AND TEACHING

Ministry of Education

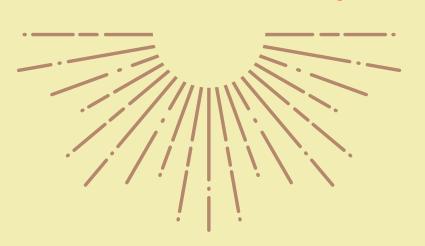
are organizing

TWO-WEEK REFRESHER COURSE IN

APPLICABLE MATHEMATICS

DECEMBER 15 – 29, 2021

FOR REGISTRATION



visit rcmoocs.in

SELF PACED | NO NOC REQUIRED | BENEFICIAL FOR CAS | E-CERTIFICATION

ABOUT RAMANUJAN COLLEGE

Ramanujan College is a constituent College of the University of Delhi (DU). It is inspired by the life and work of Srinivasa Aiyangar Ramanujan, one of the world's greatest Mathematicians. The College has been accredited Grade "A" by the National Assessment and Accreditation Council (NAAC) in its First Cycle. It is located in the well-known area of Kalkaji, near Nehru Place, in South Delhi.

The College was established in 1958 as an evening college for boys with just five programmes. Since 2010, Ramanujan College has been expanding and now at present offers sixteen undergraduate programmes in different disciplines. This achievement, in alignment to the recommendations of the National Education Policy (NEP) 2020, makes the College a centre for interdisciplinary studies and research with a future focus on blended learning. It has gradually grown into a self-sufficient and self-reliant institution owing to its academic vigour and intellectual capital.

Ramanujan College was awarded the Deen Dayal Upadhyay- Knowledge Acquisition and Upgradation of Skilled Human Abilitiesand Livelihood (DDU KAUSHAL) Kendra in 2016 by the UGC, under which two vocational courses were started in Banking Operations and Software Development.

The College has 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 Ministry of Education (MoE). This Course was uploaded on MoE's Massive Open Online Course (MOOC) platform SWAYAM and many participants registered for it.



Ramanujan College offers various short-term diploma, certificate, and executive development programmes on contemporary and skill-oriented themes. These are conceived and designed by faculty members in consultation with external experts.

The courses get exceptional response from the students and are conducted throughout the academic session. They are open to alumni and students of all the colleges. Some of these courses support the curriculum, some prepare the students for higher studies and also accelerate the professional growth.

The College is 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. As an initiative towards students and teachers exchange programmes, the College has 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.

The prestigious Teaching Learning Centre was awarded to Ramanujan College in 2017 by the Ministry of Education, under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) scheme.

In pursuit of its vision: "Discover, Empower, Transform: Building A Better World", Ramanujan College is today perceived as one of the best colleges in the country.

ABOUT 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
- 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

For the notification regarding recognition of the programmes conducted by TLC Ramanujan College for Career Enhancement Scheme (CAS) and the sanctity of the online courses for CAS, visit the link.



TLC Programmes adhere to the MoE and UGC Four Quadrant Approach

ABOUT DESHBANDHU COLLEGE

Established in 1952, Deshbandhu College, is the oldest amongst all colleges under the University of Delhi, South Delhi having more than 5000 students taking admission each year. Ranked 44 in Science in the India Today 2021 survey, it boasts of having nearly 200 research publications in SCI/ SCOPUS/UGC-CARE indexed international and national referred journals and has received more than Rs.75,00,000/- in research grants in the year 2019-20.

Recently, the college has been awarded with "DBT-Star College" Scheme by Department of Biotechnology, under which i4 Centre (Student Research Centre) was established in the college for interdisciplinary research. The college has 4 university approved Research laboratories with more than 20 Ph.D. Scholars and 2 Post-Doctoral Research Fellows engaged in full-time research activities. It has the largest collection of books and journals, print and digital, in its library, ranked 1 by DRDO. The college has recently developed about 4 acres of green landscape offering a variety of more than 35 species. The college campus is fully environment friendly having installed solar panels to maximize alternate power resource management.



ABOUT THE REFRESHER COURSE

This two week Online Refresher Course on Applicable Mathematics will focus on the mathematical techniques which has its applications in diverse fields such as engineering, medicine, biology, physics, finance, computer science, business, and industry.

Applicable mathematics is primarily a combination of mathematical science and specialized knowledge. The term "Applicable Mathematics" specifically describes the professional practice in which mathematicians work on realworld problems by formulating and studying mathematical models. Over the past decades, practical applications have inspired the expansion of mathematical theories, which then became the topic of study in pure mathematics where abstract concepts are studied for their own sake. The task of Applicable Mathematics is thus intimately connected with research in pure mathematics. Applicable mathematics comprised principally of applied analysis, most notably differential equations; approximation theory, and numerical analysis, and applied probability theory. Presently, the term "Applicable Mathematics" is utilized in a wider sense including the typical areas mentioned above as well as other areas that have become increasingly important in applications. Even fields such as number theory that are part of pure mathematics are now important in applications (such as cryptography), though they are not generally considered to be part of the field of Applicable Mathematics as such.

This programme will cover the basic concepts of the Applicable Mathematics together with a wide variety of applications, both to other branches of mathematics and to real-world problems. The main aim of this programme is to bring together the faculty members and researchers in the field of Applicable Mathematics. With this Refresher Course to be held in an Online Mode, we hope to stimulate research and foster new exciting interdisciplinary collaborations between researchers with different background and expertise in Applicable Mathematics.

ELIGIBILITY

The Refresher Course is open to Faculty members (regular/ad-hoc/temporary/Contractual/Guests) from any University/College, registered M.Phil./Ph. D. research scholars and interested Post Graduate Students in the disciplines of Mathematics, Statistics, Computer Science, Physical Sciences and its allied fields.

REGISTRATION PROCESS

- Registration Fee: INR 1450/- (Non-Refundable)
- Last Date for Registration: 14 December 2021
- All those who meet the eligibility criterion are required to register and pay registration fee of INR 1450/- by visiting rcmoocs.in
- 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

- The Refresher Course begins on 15th December 2021. The detailed day-wise Programme schedule will be communicated only to the registered participants before the start of Refresher Course.
- The sessions on various themes of the Refresher Course will be conducted either live or through pre-recorded videos via. Ramanujan College Web portal.
- As this Refresher Course is being organized under the prestigious PMMMNMTT scheme of the Ministry of Education, we at TLC, Ramanujan College, give prime importance to willing and serious participants who are eager to learn.
- Attempting and submitting all the quizzes and assignments are mandatory to avail of the programme completion certificate. The average score of all the quizzes must be at least 40%. Graded certificates on the basis of performance will be awarded to the participants.
- As a part of the Ministry of Education's requirement under the PMMMNMTT 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 Programme

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

ORGANIZING BOARD OF THE REFRESHER COURSE

PATRONS

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PRINCIPAL
RAMANUJAN COLLEGE

PROF. RAJIV AGGARWAL
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DESHBANDHU COLLEGE

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Mr. Akhil, Mr. Anil, Mr. Prashant, Mr. Sanchit and Mr. Vinod

Ramanujan College

(Accredited Grade 'A' by NAAC)
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Website: http://www.ramanujancollege.ac.in,
https://rcmoocs.in/

Deshbandhu College

(Accredited Grade 'B++' by NAAC)
NIRF 2021 RANK 60 IN COLLEGES CATEGORY
University of Delhi
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