



TEACHING LEARNING CENTRE RAMANUJAN COLLEGE

(Accredited Grade 'A' by NAAC)

UNIVERSITY OF DELHI

in collaboration with

INTERNAL QUALITY ASSURANCE CELL SAMEER GANDHI KALA MAHAVIDYALAYA & COMMERCE & SCIENCE COLLEGE SOLAPUR, MAHARASHTRA

under the aegis of

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

ONLINE TWO-WEEK INTER-DISCIPLINARY
REFRESHER COURSE

RESEARCH METHODOLOGY

20 February - 06 March 2022

**CALL FOR REGISTRATION
AND PARTICIPATION**

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 with the latest addition of B.Sc. Environmental Sciences (Hons) in 2020, it 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 Abilities and 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.

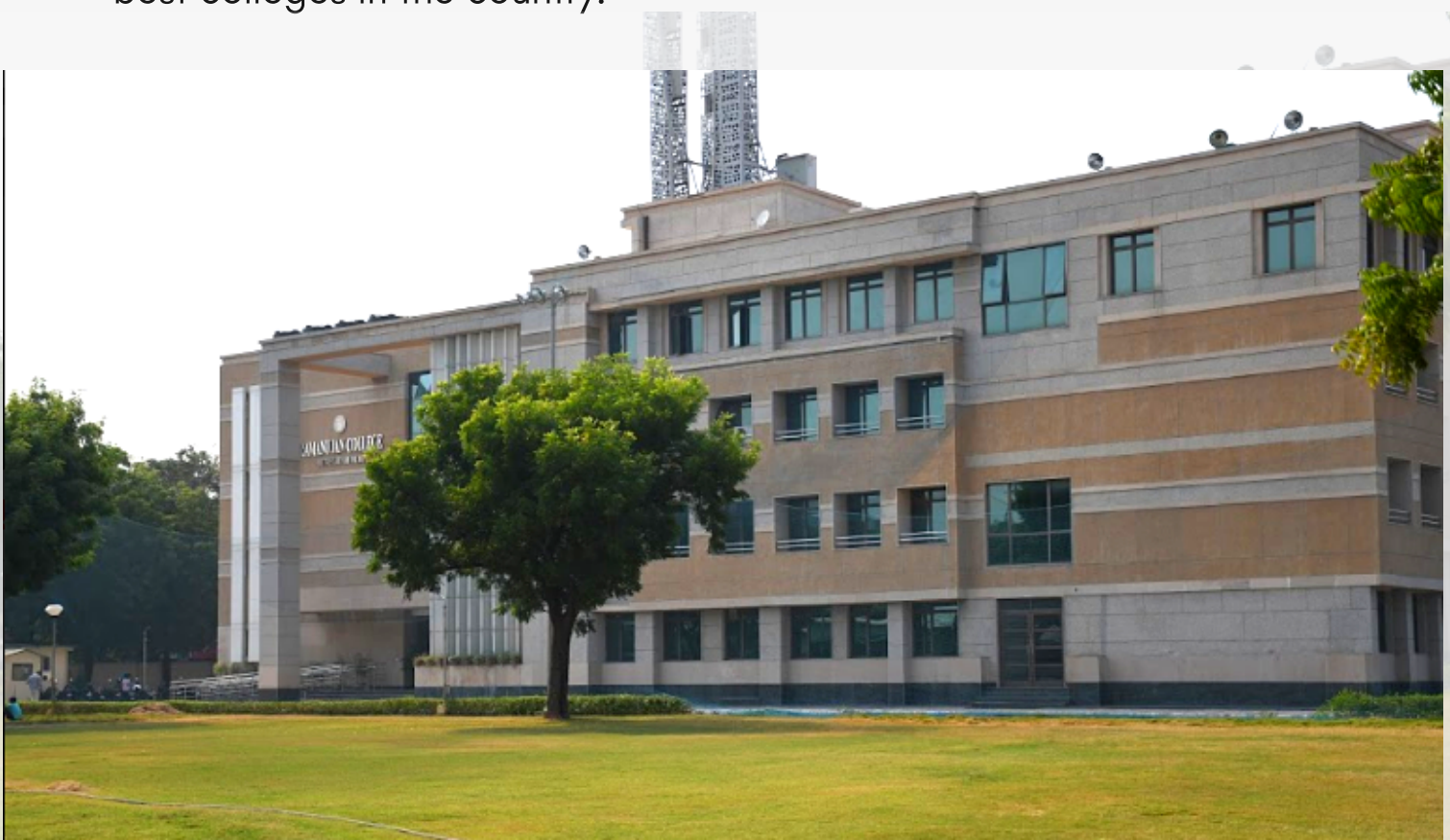
Ramanujan College offers various short-term diploma, certificate, and executive development programmes on contemporary and skill-oriented themes. These are conceived and designed by faculty members in consultation with external experts.

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 (PMMMNTT) 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.



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

SAMEER GANDHI KALA MAHAVIDYALAYA & COMMERCE & SCIENCE COLLEGE

The college is located in the rain shadow area of Western Ghats. The great visionary social worker and veteran politician Honorable Late Vishnupant Kulkarni took wise decision to establish a college for needy students. The college is known as Sameer Gandhi Kala Mahavidyalaya & Commerce & Science College Malshiras, Solapur (Maharashtra) on 15th July 2004. The college is affiliated to Punyashlok Ahilyadevi Holkar Solapur University. The college stated motto "Vidya Eva Dhanam" means 'the knowledge is our permanent property'. Initially, the college was housed in parent institute named Shri Hanuman Shikshan Prasarak Sanstha, Malshiras as here that college has owned seven acres of land and has beautiful campus with playground. The campus is neat and pollution free. For the development of multidimensional and all round development of students, college facilitates co-curricular and extra-curricular activities like NSS, Sports, cultural and extension activities.

INTERNAL QUALITY ASSURANCE CELL

The College Internal Quality Assurance Cell (IQAC) was established on 03 June 2013. The IQAC Cell has been taking activity in the overall development of collage as well as our students. The cells main emphasis is on 'Quality Education'. The IQAC is in constancy touch with student's community to create their academic and psychological needs.

As per the guidelines from NAAC: "The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. For this, during the post-accreditation period, it will channelize all efforts and measures of the institution towards promoting its holistic academic excellence."



CONCEPT NOTE

Research is a form of systematic enquiry to delve deeper into a subject and produce socially relevant results in different forms like a product, research paper, patent or thesis. There are varied forms of research; each characterized by different methodologies. Research methodology holds prime importance as it outlines the course of the research endeavor and its final outcome. The process of research and the associated tasks need to be conceptualized appropriately to bring in the much needed quality in the research. Every task involved, like collection of data, searching literature

review, deriving a mathematical or computational solution or presentation of the results, requires a concrete and systematic approach. Formulation of such an approach requires immense deliberation in terms of the tools and techniques to be deployed as well. This Online Refresher Course is diligently planned around developing the foundational knowledge needed to step into the arena of research. The programme is an effort towards exploring different dimensions and paradigms of research. The modules intend to enhance the ability of the participants to undertake independent research in a planned manner, identify appropriate and significant literature review, design questionnaires, collect and analyze data, perform simulations and, to assist them in writing research papers for good quality journals. The participants will be trained to use several open source tools that are useful in accomplishing their research outcomes. The primary tools covered are those that would aid a researcher in a systematic background knowledge probe, data visualization, and effective presentation of results, writing research paper, preparation of reports and thesis, and prevention against plagiarism.

The course also aims to train the participants in different software applications and facilitate the application of these software in their teaching-learning methods and research endeavor. The programme will also focus on providing a comprehensive discussion and training in the effective methods and tools used in writing a research project/paper.

The course content is designed to disseminate knowledge of some of the important digital tools used for academic purposes. One will learn how to create individual research profiles, find relevant and good quality journals. The modules would be an amalgamation of the much needed digital skills which can play a significant role throughout the research process.

THEMATICS

Introduction to Research: Research Philosophy and Types

Development of deeper understanding of the dynamics of research philosophy and design and the underlying technology and proficiency

Research Design and Types

Data collection and Data Visualization

Analysis of Data and Techniques

Systematic Literature Review and Meta Data Analysis

Introduction to different Qualitative Research Methods

Developing an understanding about Qualitative and Quantitative Data Analysis

Writing Research Report and Research Papers using LaTeX

Advanced Searching Tools and Referencing Tools

Scientific Journal Finder

Indexing and Impact Factors

Publication Ethics: Patent, Copyright and Plagiarism

Creating Research Profile and Collaborations

EXPECTED LEARNING OUTCOMES

After successful completion of the online course, the participants will be able to:

- Gain better understanding on how to identify a research problem and design a valid research project to answer specific research questions
- Get hands-on training in the usage of several open source tools that can assist them in their research endeavors
- Write effective research papers and thesis in the journal designated formats using online tools
- Know the process of finding good quality journals for research and publishing

REGISTRATION AND PAYMENT PROCESS

ELIGIBILITY

Faculty members (regular/adhoc/temporary) in teaching profession and research scholars are eligible to apply for this programme.

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: 19 February 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:

rmdafdp@ramanujan.du.ac.in

or contact us through WhatsApp:

+91 - 7011863335

+91 - 7011527088

ORGANISING BOARD OF THE PROGRAMME

DIRECTOR, (TEACHING LEARNING CENTRE, RAMANUJAN COLLEGE)

Prof. S.P. Aggarwal

Principal, Ramanujan College

PATRON

Dr. Bal Shrikrishna Shantaram

Principal,

Sameer Gandhi Kala Mahavidyalaya & Commerce & Science College

PROGRAMME DIRECTOR

Dr. Nikhil Kumar Rajput

Assistant Professor, Ramanujan College

CONVENORS

Mr. Vipin Rathi

Assistant Professor,
Ramanujan College

Mr. Santosh Pandurang Mane

IQAC Coordinator,
Sameer Gandhi Kala Mahavidyalaya &
Commerce & Science College

PROGRAMME COORDINATORS

Dr. Ashish Shukla

Assistant Professor,
Ramanujan College

Dr. Devidas Sadhu Gejage

Head, Dept. of Marathi,
Sameer Gandhi Kala Mahavidyalaya &
Commerce & Science College

ORGANISING TEAM

Dr. Sachin Tomer

Assistant Professor,
Ramanujan College

Ms. Shipra Yadav

Assistant Professor,
Ramanujan College