



TEACHING LEARNING CENTRE

Ramanujan College

(Accredited Grade 'A' by NAAC)

University of Delhi

in collaboration with

DEPARTMENT OF ZOOLOGY

PSGR Krishnammal College for Women

(Reaccredited with A++ grade NAAC, NIRF 2021-6th rank)

Coimbatore, Tamil Nadu

under the aegis of

PANDIT MADAN MOHAN MALAVIYA NATIONAL

MISSION ON TEACHERS AND TEACHING

MINISTRY OF EDUCATION

is organising an

ONLINE TWO-WEEK REFRESHER COURSE IN

ZOOLOGY

15 – 29 December 2021

**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

PSGR KRISHNAMMAL COLLEGE FOR WOMEN

Established in 1963 by Sri. G.R. Govindarajulu and Smt. Chandrakanthi Govindarajulu, PSGR Krishnammal College for Women (PSGRKCW) has now blossomed into a reputed and renowned institution of higher education. The rich heritage is carried forward under the leadership of the Managing Trustee, Sri. G. Rangaswamy and Founder Trustee, Smt. R. Nandini. Enjoying autonomy since 2004, the college was conferred with 'College of Excellence' status by the UGC in 2016. It is ranked 6th among colleges in India in the National Institutional Ranking Framework (NIRF) 2021 by Ministry of Education, Government of India. PSGRKCW is accredited by NAAC with A++ Grade (CGPA 3.71). All the eight science departments of the college have been recognized with Star status of DBT, Government of India. Another pioneering initiative was starting of the MBA programme exclusively for women during 1993-94 under the

banner of GRG School of Management Studies which has now been accredited by the Accreditation Council for Business Schools and Programs (ACBSP), USA in 2019.

PSGRKWCW offers 32 UG, 13 PG and 13 MPhil/PhD programmes in arts, science, commerce, business administration, management, and computer science. UGC-sanctioned skill enhancing programmes are conducted through B.Voc. programmes in two disciplines – Beauty Therapy & Aesthetics and Garment Designing). A Community College (Beauty Therapy and Multimedia & Animation) has also been established. Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India, has provided financial support to establish DBT-BUILDER – Interdisciplinary Life Science Programme for Advance Research and Education and BIRAC (Biotechnology Industry Research Assistance Council) has approved the establishment of GRG BIRAC EYUVA Centre (Encouraging Youth for Undertaking Innovative Research through Vibrant Acceleration) with this, the Institution is venturing into establishing incubation and startups in Microbiology in the year 2021.

The college has been selected under UGC PARAMARSH scheme for mentoring NAAC Accreditation aspirant institutions and under STRIDE scheme of UGC for trans-disciplinary research projects. An Indo-Russian Research Project funded by DST is ongoing. A Rural Women Technology Park has been established since 2014-15 with the support of Government of India, Department of Science and Technology.



DEPARTMENT OF ZOOLOGY

The Department of Zoology was established in the year 1979 with undergraduate programme and upgraded to post graduate programme in the year 2018. In the year 2014 the department was recognized as a Research Department; however, research has been undertaken by the faculty members since 2009 and six minor projects sponsored by DST-IEDC, two major projects from UGC and one major project sponsored by DST-NRDMS has been completed so far.

The research interests of the faculty members are from diverse fields of Zoology such as Limnology, Environmental Studies, Remote sensing, Entomology, Aquatic Toxicology, Micro Paleontology and Cell signaling. The department has developed an apiary unit and a butterfly garden, with the purpose of Eco-tourism, education and conservation at Nilgiri Biosphere Nature Park at Anaikkatti, Coimbatore, with the financial support from GRG Trust. The department organizes guest lectures, Science Academies' lecture workshops and National seminars to promote scientific attitude among the students, community and young teachers. The Department has a well-equipped library with more than 3500 books and a well-maintained museum with more than 400 specimens and slides. The preserved specimens and slides have been digitized in the form of images and catalogues as a repository for broader access by the students. Various community-oriented extension activities involving students to rural communities through National Schemes such as Unnat Bharat Abhiyan (UBA) to enhance Entrepreneurship and rural development by the faculty and the students.

The Naturalist's Association comprises of both the Botany and Zoology Departments of the college and the association intends to encourage a better understanding of the natural environment and to awaken concern for our natural heritage among the student community so as to have a healthy, sustainable natural environment and to learn about, celebrate, preserve and nurture nature for the

benefit of future generations. A number seminars and tree planting programmes are organized involving academicians, government officials and conversationalists who share their knowledge, information and love towards nature and address the students to highlight the positive actions that benefit nature. For more than 20 years, this association is encouraging in creating networking, training, and collaboration among members in support of our conserving nature.

CONCEPT NOTE

The COVID-19 pandemic situation and beyond have brought significant disruptions across the country and restructured the way higher education is delivered. Establishment of the technological infrastructure and services in higher education system through information and communication technology between management, learners, and professors in higher education institutions need to be considered. The teaching community are evolving innovative approaches to equip themselves with the skills necessary for creating a holistic teaching learning environment where the symbiotic relationship between the teacher and the student blossoms which is beyond cognition and thought. It is still under debate whether to reopen the educational institutions or to continue the existing online platform.

The incorporation of information communication technology in education has already been on a high growth. This transition is forced to build emergency remote learning systems immediately.

It is imperative to recover from the pandemic by equipping with the latest change in trends to become better prepared for future crises. The faculty are consistently in need of improving their knowledge in the related areas of science and technology. It is essential to understand the strategic significance and values of the interdisciplinary and multidisciplinary research to accomplish optimum scientific outcomes. The teachers in Higher Education increasingly

are in the need for the completion of refresher course in Zoology to enhance their subject knowledge for their professional journey.

In response to significant demand for Faculty development program, this online Refresher course in Zoology is being organized which will bolster teacher's capabilities to enhance the teaching learning methodologies. This capacity building program will also support and enhance the blended models of education. This course aims to bring together the subject expert(s) from multidisciplinary fields ranging from basic sciences to applied sciences including clinical research in order to open-mindedly share recent advancements in dynamic and ever-expanding fields of science, with a special emphasize on the cutting-edge approaches in biochemistry, cell biology, genetics, genomics, metabolic biology, physiology, immunology etc.

The participants will have greater opportunities to broaden their scientific knowledge, networking of teachers to share their ideas, experience and expertise in pedagogy and research based on the areas of high-quality teaching, promoting teaching as a professional practice and deeper engagement in the research activities shall help to achieve educational excellence among the teaching fraternity.

AIMS AND OBJECTIVES

The objective of conducting online refresher course in Zoology is to enrich the skills and knowledge of the teaching faculty members.

The teachers can attend the course from their home or college at their own convenience.

1. To organize specially designed online refresher course in Zoology for all the teaching faculty at the level of Assistant Professor, and Associate Professor for capacity improvement and update the current trends and emerging developments of

faculty involved in teaching in institutions.

2. to enable the faculty involved in teaching and research in institutions of higher education to utilize fast growing Information and Communication Technology support to teaching and research.

THEMATICS

- **Zoology**
- **Biotechnology**
- **Biochemistry**
- **Environmental Management**
- **Immunology**
- **Evolutionary Biology**
- **Environmental Engineering**
- **Molecular Biology**
- **Epidemiology and Public Health**
- **Human Genetics**

REGISTRATION PROCESS & PAYMENT DETAILS

ELIGIBILITY

Faculty members (regular/adhoc/temporary) from Chemistry, Botany, Zoology, Earth Science, Environmental science and allied disciplines are eligible to apply.

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: 14 December 2021

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 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 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**
- **The Refresher Course is beneficial for the Career Advancement Scheme (CAS)**

For further information, write to us at:

zoology@ramanujan.du.ac.in

or contact us through WhatsApp:

+91 - 7011863335

+91 7011527088

ORGANISING BOARD OF THE REFRESHER COURSE

DIRECTOR (Teaching Learning Centre, Ramanujan College)

Prof. S.P. Aggarwal

Principal, Ramanujan College, University of Delhi

PATRON

Dr. (Mrs.) S. Nirmala

Principal, PSGR Krishnammal College for Women

PROGRAMME DIRECTOR

Dr. Nikhil Kumar Rajput

Ramanujan College, University of Delhi

CONVENOR

Dr. Ashish Kumar Shukla

Ramanujan College, University of Delhi

CO- CONVENORS

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Ramanujan College, University of Delhi

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PSGR Krishnammal College for Women

Dr. P. Susheela

PSGR Krishnammal College for Women

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PSGR Krishnammal College for Women

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PSGR Krishnammal College for Women

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Ramanujan College, University of Delhi

Dr. R. Yamuna

PSGR Krishnammal College for Women

Ms. Shipra Yadav

Ramanujan College, University of Delhi