



TEACHING LEARNING CENTRE

RAMANUJAN COLLEGE

(ACCREDITED GRADE 'A++' BY NAAC)

UNIVERSITY OF DELHI

in collaboration with

BHASKARACHARYA COLLEGE OF APPLIED SCIENCES

ESBT. 1995, NAAC A++; NIRF RANK: 22 IN COLLEGE CATEGORY 2023

UNIVERSITY OF DELHI

and

DESHBANDHU COLLEGE

NAAC A++; NIRF RANK: 17 IN COLLEGE CATEGORY 2023

UNIVERSITY OF DELHI

is organising an

ONLINE TWO-WEEK REFRESHER COURSE

PHYSICS

30 AUGUST - 13 SEPTEMBER 2023

organised under the aegis of
PANDIT MADAN MOHAN MALAVIYA NATIONAL
MISSION ON TEACHERS AND TEACHING
MINISTRY OF EDUCATION

CALL FOR REGISTRATION AND 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. 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 the Ministry of Education. The College also offers short-term diploma, certificate, and executive development programmes on contemporary & skill - oriented themes to complement the regular graduation courses.

It is also the Study Centre of 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.



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 indepth 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.

The courses are offered 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.

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](#).

BHASKARACHARYA COLLEGE OF APPLIED SCIENCES

Bhaskaracharya College of Applied Sciences, named after a great mathematician of 12th century, was set up in October 1995. The college is a constituent college of University of Delhi and is 100% funded by Government of National Territory of Delhi. College originally started at PUSA Campus with introduction of three departments, ten members of teaching and five non-teaching staff with about 90 students. In December 2002, the college shifted to its present premises in Dwarka, New Delhi. Within a short span of time, college has achieved remarkable recognition as one of the few colleges in Delhi offering eleven under-graduate programmes in science with more than 1300 students from across the world, 91 teaching and 110 non-teaching staff.

The college was accredited with Grade "A++" with a score of 3.6/4.0 by the National Assessment and Accreditation Council (NAAC) in its second cycle of accreditation recently. We also secured 22nd rank in the college category of 2023 NIRF Rankings instituted by Ministry of Education. The college has also been granted 'Star College Status' by the Department of Biotechnology (DBT) and Eat Right Campus award by Food Safety and Standards Authority of India (FSSAI). The MSME has started its incubation centre at the campus. The NCC unit is expected to start from the academic year 2023-24.

College has witnessed a consistent excellence in academics, sports and other co-curricular activities and has laid emphasis on the overall development of students. The infrastructure of the college ensures that young minds get nurtured in a stimulating environment. The college is proud to have its own Flag, established a college song and is having its registered logo. College envisions **"A commitment to mentor the students to achieve excellence through holistic education"** emphasizing inclusive and futuristic education in tune with the college motto, a Bhagwata Gita maxim 'Gyan Vigyan Sahitam', which literally means science along with the comprehensive knowledge would help students in their overall learning process and foster global competencies

among them. Recently BCAS has been approved as a Nodal Centre by ISRO to conduct the ISRO START (Space Science and Technology Awareness Training) program for final-year undergraduate sciences and technology students. The college has been selected as one of the designated Nodal centres for the G20 cultural activities, with France assigned as the country of focus.

College has launched its two indigenously built **zero cost Applications BRAHMA (BCAS Resource Automation, Handling and Management Application) and BEAMS (BCAS Event Automation & Management System)**, which are two web applications powered by Google. BRAHMA enables the college to manage various information resources generated in College such as Student Data, Attendance, Internal Assessment, Time Table, Students Feedback, Budget etc while BEAMS is a dedicated application to manage and automate various events related processes such as participants registration, communication, certificate generation, feedback etc . These apps are conceptualized and built by the Digitization & Automation Committee of the college and are free of cost and extending these for two colleges under Vidya Vistar Scheme of the college.

College has collaborated with various institutes either for academic exchange, research projects and some are for sustainable development. Eighteen such collaborations have been materialized as MoUs (and among these three were with International Organizations). College has been granted with six patents and a Technology Transfer.



DESHBANDHU COLLEGE

- Deshbandhu College, established in 1952 is the oldest and the largest co-educational institution in South Delhi and promotes Arts, Commerce, and Science courses. The college offers seven postgraduate and eighteen undergraduate courses in disciplines ranging from languages/literature, History, Political Science, Economics, Commerce, and all major branches of Sciences and Mathematics. It caters to more than 4500 students every year. Presently, it has secured A++ grade with 3.65 score from the National Assessment and Accreditation Council (NAAC) and has been ranked 17th in NIRF ranking in India. The sprawling campus of Deshbandhu College, with its lawns, gardens, and playground provides a healthy environment for all-round development of the generations to come.



CONCEPT NOTE

Concepts of physics are dispersed from the heart of atoms' nuclei to giants of the celestial world. The understanding of fundamentals of various potential fields of physics and critical analysis of concurrent research has a pivotal role for individuals working in the area of physics for lab-to-industry implementations. Such concurrent knowledge also helps in developing innovative teaching pedagogy. This refresher course has been designed to address the needs of theory, experimentations, and industrial applications. The proposed training program would help researchers, faculties in formulating appropriate strategies to face the upcoming challenges.

THEMES

- **Liquid Crystals**
- **Space Physics**
- **Plasma Physics**
- **Nanomaterials**
- **Atmospheric and Space Sciences**
- **Quantum Physics**
- **Thin Films**
- **Solar Cells, Solar Photo thermal and Photovoltaic devices**
- **Spectroscopy: Fluorescence & Molecular Spectroscopy**
- **Fiber Optics Applications in Medical Physics**
- **Nuclear and Particle Physics**
- **Condensed Matter Physics/Materials Science**
- **Superconductors**
- **Mathematical Physics- Theoretical studies and Simulation techniques**

REGISTRATION & PAYMENT DETAILS

Eligibility

Faculty members (regular/adhoc/temporary) and research scholars from Physics 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: 29 AUGUST 2023

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 PMMMMNMTT 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. However, participants are expected to inform their authorities about their participation.**
- 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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