

## WHO CAN ATTEND

UG, PG and Research scholar working in biological sciences and ecology professionals working in NGOs can participate in this programme.

## REGISTRATION

Interested candidates can apply through the google link given below  
<https://forms.gle/UDkjt39QTkGV4h2DA>

## SELECTION PROCEDURE

Selection will be on first come first served basis, Shortlisted candidates will be informed through email. Selected candidates could pay the fees along with the duly filled registration form.

## PAYMENT DETAILS

Rs 500 (Rupees five hundred only) payable through digital payment to the bank account given in registration form.

The registration fee includes workshop kits, training material, working lunch, refreshments and course completion certificate.

Account No : 04670200000009

Account Name : JAMAL MOHAMED COLLEGE

IFSC Code : IOBA0000467

Branch : IOB JMC Branch , Tiruchirappalli

## VENUE

Biodiversity informatics Training Centre  
Department of Botany  
Jamal Mohamed College (Autonomous)  
Tiruchirappalli

## IMPORTANT DATES

[Registration through google link : 11/01/2024

Intimation of Short list candidates : 12/01/2024

Payment of Fees : 14/01/2024

# NATIONAL LEVEL WORKSHOP ON ECOLOGICAL DATA ANALYTICS USING **R** - PROGRAMMING LANGUAGE

24<sup>th</sup> January 2024

REGISTRATION FORM

Name :

Academic Degree (pursuing) :

Department and Institutional address :

Mobile and Email :

Mode of payment ( DD/NEFT/ GPay etc) :

Transaction ID (attach receipt) :

Date of Transaction :

Scanned copy (for shortlisted candidates only) of the registration form should be send to [bbg@jmc.edu](mailto:bbg@jmc.edu) with softcopy of payment receipt on or before 14/01/2024

## ACCOMMODATION AND TRAVEL

The participants from outside have to arrange their own accommodation and travel. Arrangement of Accommodation in hotels (on payment) would arranged for other state participants on request.

## Contact Details

Dr. B. Balaguru  
9443771087  
[bbg@jmc.edu](mailto:bbg@jmc.edu)

Dr. N. Ahamed Sherif  
9894637172  
[nas@jmc.edu](mailto:nas@jmc.edu)

# NATIONAL LEVEL WORKSHOP ON ECOLOGICAL DATA ANALYTICS USING **R** - PROGRAMMING LANGUAGE

24<sup>th</sup> January 2024



Organized by

PG and RESEARCH DEPARTMEN OF BOTANY

JAMAL MOHAMED COLLEGE (Autonomous)

Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0

(Affiliated to Bharathidasan University)

Tiruchirappalli 620 020

TAMIL NADU

[www.jmc.edu](http://www.jmc.edu)



**ABOUT JAMAL MOHAMED COLLEGE**

Jamal Mohamed College occupies a unique place in the academic galaxy and shines bright among the greatest academic institutions of our nation. The vision of two great stalwarts and freedom fighters Janab. M. Jamal Mohamed Sahib and Janab. N.M. Khajamian Rowther resulted in the establishment of this educational institution in 1951 with a motto to spread knowledge among the poor and downtrodden sections of the society. Since its humble beginning in 1951 with the initial strength of 12 staff members and 250 students, the college has attained phenomenal progress in the academic sphere and earned goodwill among the people for providing higher education with ethical values. With the blessings of the Almighty and the support of the well-wishers, the college is marching ahead. On 11<sup>th</sup> July 1951 the college was inaugurated by Hon'ble. Thiru. P. S. Kumarasamy Raja, the then Chief Minister of Madras. His Excellency, the Maharaja of Bhavanagar, the Governor of Madras presided over the function. Over the period of 7 decades, the college was able to scale greater and greater heights and rise to the present status as a multi-faculty institution with 11 UG programmes, and 11 PG programmes under Government Aided stream and 11 UG programmes and 3 PG programmes under self-financing stream for men by promoting quality and excellence in higher education due to the sustained efforts and dedicated leadership rendered by the College Management Committee. The college also offers 18 UG and 15 PG programmes exclusively for women as part of women empowerment during the second shift of the college. 17 Ph.D. programmes are offered for both men and women under self-financing stream. Presently the college has a strength of 10452 students. The college has on its rolls 145 Government Aided teaching faculty and 328 faculty under the self-finance stream. The College has , secured 56<sup>th</sup> position NIRF Ranking in 2022 and accredited with \ 'A++' Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0 in the year 2023.

**ABOUT RESEARCH DEPARTMENT OF BOTANY**

The Department of Botany, Jamal Mohamed College was established in 1967 as a UG department, upgraded to PG level in 1985, and elevated as a research department in 2002. The hallmark of this department is its excellent infrastructure facilities. The department boasts of excellent infrastructural, laboratory and library facilities. The department has advanced instruments such as HPLC (Waters), UV-visible spectrophotometer, 2-Dimensional gel electrophoresis, Thermocycler, Incubated shaker, and Plant tissue culture Lab facility to pursue high quality in house research. Keeping pace with the changing times, the department has been updating its curriculum regularly.

The department has successfully completed the University Grants Commission sponsored Innovative programme-PG Diploma in Biodiversity Informatics during 2013 - 2018 with a grant of Rs. 80 lakhs. The department has received grants for research projects, workshop and seminars from various government funding agencies like DST, DBT, UGC, and TNSCST to the tune of more than 1.6 Crore during the period 2016 to 2023. In the year 2018, the Department of Botany was recognized by the Department of Science and Technology for improving the instrumentation facility under the FIST (phase - II) In the year 2020, the Department of Biotechnology, Government of India supported the improvement of the Undergraduate Programme under DBT Star College Scheme. In the year 2020 the Diploma in Horticulture programme was started with the support of NSQF, UGC. The department organising training and internship programmes on Remote Sensing and Geoinformatics, Biostatistics for Environment Management to research scholars and students from other colleges. More than 70 students have been awarded Ph.D., degrees from the department. As high as 180 research articles were published in peer-reviewed journals. Students of the Botany department constantly bring laurels by securing ranks in the Bharathidasan University Combined Ranking Examination every year. The department signed MOU with UiTM, Mara Malaysia, Horticulture agency Hosur for organizing conference and training programme.

**ABOUT WORKSHOP**

Conservation of our nature is of vital importance for our sustainable future. Changes in nature by Biotic and Abiotic factors affect the source, modification of habitats, geographic ranges and migration pattern of the living organisms that require significant assessment for any conservation measures. Biological Data such as Bioinformatics and Biodiversity data is voluminous and requires different software for analyse. Among the biological datasets analysis of ecological data can be highly complex since numerous variables are involved. For this purpose R software is a widely used. It is a flexible, and powerful programming language for ecological data analysis that is utilized by many ecologists from worldwide. With its numerous extensions, R offers specialized tools for environmental research and ecology. This basic training session on R applications in ecological data analysis would give an overview for exploring and analysing of the ecological data. It is in this backdrop that Ecological data analysis using R training course is designed.

This hands on training programme is mainly focused on

- Fundamentals of R Software
- Get the data into R
- Basic statistical analysis using R
- Sample ecological data analysis in R environment

**ORGANIZING COMMITTEE**

**PATRONS**

Hajee M. J. Jamal Mohamed Bilal  
President

Dr. A. K. Khaja Nazeemudeen, D.Litt., (USA)  
Secretary and Correspondent

Hajee M. J. Jamal Mohamed  
Treasurer

Dr.K. Abdus Samad  
Assistant Secretary

Dr. K. N. Abdul Kader Nihal  
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Ms. J. Hajira Fathima Director -Women Hostel

**CONVENOR**

Dr. H. Syed Jahangir, Associate Professor & Head, Department of Botany

**Organizing Secretaries**

Dr. B. Balaguru, Assistant Professor in Botany  
Dr. N. Ahamed Sherif, Assistant Professor in Botany

**EXECUTIVE MEMBERS**

Dr. A. Shajahan, Associate Professor in Botany and Dean of Research & Consultancies  
Dr. M. Kamaraj, Associate Professor in Botany  
Dr. R. Ravi Kumar, Associate Professor in Botany  
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Dr. R. Sathish Kumar, Assistant Professor in Botany  
Dr. R. Syed Moideen, Assistant Professor in Botany