

ANNAMALAI UNIVERSITY

(Accredited with 'A' Grade by NAAC)
Faculty of Engineering and Technology
Department of Computer Science and Engineering

DST - PURSE II Sponsored National Workshop on Data Analytics with R Programming (DARP'21) [Online mode]

22nd to 24th September, 2021

REGISTRATION FORM

Prof./Dr./Mr./Ms. :

Designation :

Organization :

Address :

Mobile No. :

Email ID :

Gender : Male / Female

Registration Fee Details

DD No : Dated :

Amount :

Bank Name :

Signature of the Candidate Signature of the Head of the
Institution (with Seal)

Keep Link for Registration :
<https://bit.ly/3giYrv8>

QR Code for Registration :



ORGANIZING COMMITTEE

Patron : **Dr. R. Gnanadevan**
Registrar (i/c)
Annamalai University

Co-Patron : **Dr. A. Murugappan**
Dean, Faculty of Engineering
and Technology

Convener : **Dr. S. Palanivel**
Professor & Head
Dept. of Comp. Sci. & Engg.

Coordinators : **Dr. R. Ragupathy**
Associate Professor
Dr. R. Arunkumar
Associate Professor
Dept. of Comp. Sci. & Engg.

Co-Coordination : **Dr. C. Anbuananth**
Associate Professor
Dr. S. Mohan
Assistant Professor
Dept. of Comp. Sci. & Engg.

VENUE :

Online - Google Meet Link :
<https://meet.google.com/ymr-qage-aaq>

QR Code for Registration :



IMPORTANT DATES

Last date of Registration : 17.09.2021
Notification about Selection : 18.09.2021

ADDRESS FOR COMMUNICATION

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Department of Computer Science and
Engineering.

ORGANIZED BY

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Faculty of Engineering and Technology
Annamalai University
Annamalainagar - 608 002
Tamil Nadu, India.

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ABOUT THE UNIVERSITY

In the early 1920s Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi College, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. In 1928, Rajah Sir S. R. M. Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929). One of the most significant developments is the enactment of the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013), which has come into force from September 25, 2013. Annamalai University is accredited with 'A' Grade by NAAC in 2014. "The NIRF-2020" by the Ministry of Human Resource Development (MHRD) has ranked the University in the band 101 - 150 in the overall category as well as the University Category. In the Pharmacy Category the ranking is 12th in India. In the Medical Category the ranking is 35th. "The Times Higher Education World University Ranking - 2021" has ranked Annamalai University in 1000+ for Overall category. In the Subject Category Ranking, 2021, the University is ranked 601+ for Clinical & Health Subjects, in the band of 801-1000 for Engineering, 801+ for Life Sciences and 1000+ in the Physical Sciences Subjects. "The QS World University Ranking - 2021" has ranked Annamalai University in the band of 301-350 in Asia Ranking, and 39 in India Ranking. "The CWTS Leiden Ranking 2019", on scientific impact of universities and on universities' involvement in scientific collaboration & scientific performance, has ranked the University at 23rd based on the number of publications and 7th based on the proportion of publications that, compared with other publications in the same field and in the same year, belong to the top 10% most frequently cited. Among the top 212 ranked institutions for Higher Education in India the "SCImago Institutional Ranking (2019)" has ranked Annamalai University as 9th in Tamil Nadu and 29th in India. Annamalai University is one of the largest unitary, teaching, and residential Universities in Southern Asia comprising of 10 Faculties and 49 departments of study. This University has played a pivotal role in providing access to higher education to thousands of youth cutting across the social spectrum, especially from economically and socially disadvantaged classes. In this respect, this University's service to the nation is tremendous.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1984 to meet the demand for well-qualified computer professionals. The

various associations and clubs promote the leadership and organizational skills of the students by conducting various academic events throughout the year. Apart from academics, students also involve themselves in activities that inculcate service and team spirit. The department library has more than 7500 books. In addition, it also has e-resources to access journals / magazines with internet facilities. The department houses more than 300 high end computers to meet the requirements of various laboratories. In addition, it has speech and vision laboratory, deep learning laboratory, IoT laboratory for the benefit of the students and research scholars to explore in the latest technology. The department has organized two international conferences and several national conferences and workshops. The department has many research projects funded by AICTE, UGC, DST and TNSCST.

ABOUT THE WORKSHOP

Data Analytics is a process of collecting, organizing and analyzing large sets of data to discover patterns and other useful information from the data. Data analytics helps business owners, doctors, scientists, and everyone with big data in order to make better decisions. Data Analytics is also used to disprove the old and existing theories and focus on updated facts. There are many tools which help in analyzing such data. R is the most widely used open source language in analytics.

The R programming language has become an important tool for computational statistics, visualization, data science and predictive modeling. It is used to solve challenging problems in fields like computational biology, quantitative marketing, and finance. R is a dynamic language and environment for statistical computing that combines the features of object oriented and functional programming.

R language is widely used among statisticians and data miners for developing statistical software and data analysis. Polls and surveys of data miners are showing R's popularity has increased substantially in recent years. Experts in R language are in high demand. The objective of this workshop is to explore various analytical techniques and gain the requisite knowledge to use R independently.

SCOPE OF THE WORKSHOP

The proposed three day workshop module with extensive hands-on exercises will provide a comprehensive overview of Data Analytics with R Programming, projects/research related to it, and a hands-on experience in applying them.

The participants will learn how to get going in R from the beginning. This workshop will help them to understand the easiness of employing R programming towards solving problems in various data analytics such as descriptive analytics, predictive analytics, business analytics and big data analytics. Participants will develop

a deeper understanding of the basic concepts for the usage of R programming language. The course provides participants with the knowledge and essential skills needed to address the challenges of data intensive decision making environments.

TOPICS TO BE COVERED:

- ✦ Installation of R, Rstudio, and R packages
- ✦ Basics of R Programming
- ✦ Data Structures in R
- ✦ Data Manipulation using R
- ✦ Descriptive Analytics with Statistics
- ✦ Visual Descriptive Analytics
- ✦ Predictive Analytics using Machine Learning
- ✦ Deep Learning for Data Analytics
- ✦ Business Analytics
- ✦ Big Data Analytics

During the last decade, the momentum coming from both academia and industry has lifted the R programming language to become the single most important tool for computational statistics, visualization, and data science. Worldwide, millions of statisticians and data scientists use R to solve their most challenging problems in fields ranging from computational biology to quantitative marketing.

R has become the most popular language for data science and an essential tool for Finance and analytics-driven companies such as Google, Facebook, and LinkedIn. R is preferred by start-ups and smaller companies. So this workshop will create strong career opportunities for engineering, business administration, and economics, mathematics, and statistics students.

REGISTRATION FEE

There is no registration fee for internal participants (including deputed staff). The registration fee is Rs.300/- for external participants from other academic institutions and Rs. 600 for external participants from industry. The participants are requested to register themselves by sending the duly filled in application form through proper channel along with the registration fee in the form of Demand Draft drawn in favour of "The Registrar, Annamalai University" payable at ICICI Bank, Annamalai Nagar. Also register through online using the link provided in the registration form.

TARGET AUDIENCE

Faculty members, research scholars and UG/PG students from engineering, arts & science and polytechnic institutes and industrial persons are eligible to participate.

RESOURCE PERSON

Resource Persons are drawn from IITs, NITs, National Research laboratories, Universities, Institutions and Industry.