## ELIGIBILITY

Faculty members from Engineering and Polytechnic Colleges / Technical Institutions / Universities are eligible.

## RESOURCE PERSONS

All lectures / sessions will be delivered by resource persons from premier Institutions and Industries.

## IMPORTANT DATES

| | |
|---|---|
| Last date for Registration | : 01-12-2021 |
| Selection Notification by email | : 02-12-2021 |
| Confirmation by Participants | : 03-12-2021 |

## REGISTRATION FEE

| | |
|---|---|
| For ISTE Members | : Rs. 600/- |
| For Non-ISTE Members | : Rs. 3540/-* |

(*Additional fee for ISTE Life Time Membership apart from registration fee)

Registration fee for ISTE and Non-ISTE Members will be accepted through online / NEFT transfer to the bank details given below.

| | | |
|---|---|---|
| Account Name | : | The Registrar Annamalai University |
| Account Number | : | 621201156619 |
| Bank Name | : | ICICI BANK |
| Branch | : | Annamalai Nagar |
| IFSC Code | : | ICIC0006212 |

## REGISTRATION

Participants are required to fill the online registration form by clicking on the following link:

**https://forms.gle/d32DLXaPrTbC4KBp7**

Number of participants is limited and the preference will be given on a first come first serve basis. Five days of attendance is Compulsory. A test shall be conducted on the 5th day of the programme. Details related to registration, confirmation and meeting link will be shared through e-mail.

## ORGANIZING COMMITTEE

| | | |
|---|---|---|
| Chief Patron | : | **The Vice-Chancellor** Annamalai University |
| Patron | : | **Dr. R. Gnanadevan** Registrar (i/c), Annamalai University |
| Chair | : | **Dr. A. Murugappan** Dean, FEAT, Annamalai University |
| Co Chair | : | **Dr. S. Palanivel** Professor & Head Dept. of CSE, Annamalai University |
| Coordinator | : | **Dr. M.Govindarajan** Associate Professor Dept. of CSE, Annamalai University |

## AWARD OF CERTIFICATE

E-certificate will be issued by ISTE on meeting the following criteria:

- ❖ Session-wise attendance
- ❖ Test performance
- ❖ Submission of Feedback form

## FDP VENUE

Online Mode

## ADDRESS FOR COMMUNICATION

**Dr. M. Govindarajan**
Associate Professor
Department of Computer Science and Engineering
Faculty of Engineering and Technology
Annamalai University, Annamalainagar-608 002,
Chidambaram, Tamil Nadu.
Mobile: 9942530375
e-mail: govindaucse@gmail.com

# ANNAMALAI UNIVERSITY

**(Accredited with 'A' Grade by NAAC)**

**IQAC ENABLED ISTE
APPROVED
ONLINE ONE WEEK
FACULTY DEVELOPMENT PROGRAMME
ON
DATA SCIENCE AND ITS APPLICATIONS
(DSA'21)**

**6th - 10th December, 2021**



## Coordinator

**Dr. M. Govindarajan**
Associate Professor

**ORGANIZED BY**

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

# IQAC ENABLED ISTE
## APPROVED
## ONLINE ONE WEEK
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## DATA SCIENCE AND ITS APPLICATIONS (DSA'21)

## 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. In1928, 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 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 FDP

This FDP is aimed to impart knowledge and training on the fundamentals of data science and its applications. The main objective is to make the participants familiar with data science and machine learning techniques. Data Science provides the practice of obtaining, exploring, modeling and interpreting data. Working in the discipline such as programming, statistics, mathematics, machine learning, data analysis, visualization and big data are explored. This FDP will be beneficial to faculty members who intend to practice/begin research in the field of processing and analysis of data using advanced techniques such as AI/ML/DL etc.

## FDP CONTENTS

❖ Introduction to Data Science

❖ Insight of Big Data Analytics

❖ Deep Learning

❖ Data Visualization

❖ Real Life Applications of Data Science

❖ Open Source tools for Data Science

❖ Hands on Sessions