

CHIEF PATRON



Dr. G. Viswanathan
Chancellor

PATRONS



Shri. Sankar Viswanathan
Vice President



Dr. Sekar Viswanathan
Vice President



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Vice President



Dr. Rambabu Kodali
Vice Chancellor



Dr. S. Narayanan
Pro Vice Chancellor



Dr. T. Jayabharathi
Registrar

CHAIRMAN



Dr. N. Arunai Nambi Raj
Dean, School of Advanced Sciences (SAS)
VIT, Vellore - 632 014

CONVENOR



Dr. K. Karthikeyan
Professor and Head
Department of Mathematics, SAS
VIT, Vellore-632014

FACULTY COORDINATORS



Dr. K. Sathya Narayana Sharma



Dr. B. Venkataramana



Dr. P. Ragukumar



Dr. R. Udhayakumar

Registration Details

Registration Fee : Rs. 500/- (Excluding GST)

Payment & Registration Link : <https://events.vit.ac.in/>

Important Dates

Last date for registration: **25.07.2022**

Programme dates: **29.07.2022 to 31.07.2022**

Venue: **T T Gallery II (V.O.C Gallery)**

Contact Details

Dr. P. RAGUKUMAR

Ph: 80157 57320, E-Mail: ragukumar.p@vit.ac.in

Note: Attendance is mandatory for all the session.

Everyone should bring your own laptop.



VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Reaccredited with 'A++' Grade by NAAC | Ranked 9th by MHRD-NIRF

Recognised as Institute of Eminence (IoE) by Govt. of INDIA

Vellore 632 014, Tamil Nadu, India

Short Term Course

on

Industrial Applications of

“SQL & CLOUD COMPUTING”

29 – 31 July 2022



ORGANISED BY

**DEPARTMENT OF MATHEMATICS
SCHOOL OF ADVANCED SCIENCES
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE 632 014**

About the Institute

Vellore Institute of Technology was founded in 1984 in the name of “Vellore Engineering College” by the Chancellor Dr. G. Viswanathan. From its humble beginning, the institution has grown exponentially to that of having more than 36,000 students. Students from all the states of India and from more than 60 countries are studying at VIT. University status was conferred in 2001 by MHRD, Govt. of India in recognition of its excellence in academics, research and extra curricular initiatives. Currently, VIT has 4 campuses—in Vellore, Chennai, Amravati (AP) and Bhopal (MP). The National Institutional Ranking Framework (NIRF) of the MHRD, Government of India, has ranked 12th in Research, 12th in Engineering Category, 13th in University Category and 21st in Overall Category in 2020. VIT has gone for accreditation by NAAC [India], IET [UK], and ABET [USA] and follows world class academic processes. VIT is the first and only University in India to get 4-star rating from QS, the world universities ranking organization. VIT has also been ranked in the top 251-300 in Times Higher Education (THE) World University Ranking (Emerging Economies) in 2021 and in the top 198 in QS Asia Ranking.

About School of Advanced Sciences

School of Advanced Sciences (SAS), which was established in the year 1984, comprises Mathematics, Physics, and Chemistry departments. The vision of the School is to provide quality teaching and research, which would make an impact at a global level. The School consists of a total of

232 experienced and energetic faculty, which includes 116 in Mathematics, 45 in Physics, and 71 in Chemistry. The research activities, publications and fruitful interactions with the industry are a testimonial to the expertise of the faculty in VIT.

The School offers Masters Programs in Data Science, Business Statistics, Physics and Chemistry; Integrated Masters Programs in Mathematics and Computational Statistics & Data Analytics. The School offers Ph.D. programs in frontier research areas in all THREE disciplines. The candidates selected through a National level test and a comprehensive interview, undertake extensive course work and the School has on roll 750 Ph.D. Scholars.

About the Programme

The Main aim of the programme is to provide the participants, a hands-on experience to writing queries, create database, Analytics to solving problems and deployment in the cloud. It also gives the understanding of advanced SQL, analytical and deployment for solving industrial data. The programme will mainly focus on creating database and solving real time industry problems using various analytical methods such as to Introduction and applications of DBMS, Purpose of database, Database design process, ER Diagrams - Entities, Attributes, Relationships, Constraints, Keys.

The Relational Model, Querying relational data, Logical database design: E-R to relational.

SQL: Basics of SQL, DDL, DML, DCL, structure - creation, alteration, defining, constraints - Primary key, foreign key, unique, not null, check, IN

operators. Normalisation / Non-normalisation.

Advanced SQL: SQL/RDBMS Recap, Transaction Isolation Levels, SQL Views, Index Algorithm, SQL Locks/Waits, Function/Procedures, Triggers, Data backup/Restore. Hands - on: Data Modeling, Database, Table creation, Procedure, User Defined Function, Triggers, Exception Handling. Azure, Google Cloud, Container in VM and Cloud Computing, Container Orchestration, Introduction to DevOps and Hands - on sessions.

Resource Persons

The sessions of the programme will be handled by eminent personalities in the respective domain and names follows:



Dr. V. Ajantha Devi
Research Head
AP3 Solutions
Chennai



Mr. Jagadeesan
Head (Data Analytics)
Analytics division,
Sedin Technologies, Chennai



Mr. Balasubramaniam
Senior Professional Lead in
Application Delivery
Certified Kubernetes
Administrator, Enterprise Services
DXC Technology, Chennai



Dr. C. Muthu
Head, Department of Data Science
Loyola College, Chennai