



## About the College

Bannari Amman Institute of Technology (BIT), one of the premier Institutions of technical learning in India, was established with the singular objective of disseminating technical knowledge on par with global standards to the rural community in Southern India. Within a span of two decades, this citadel of learning has achieved many laurels, through its educational vision combined with corporate social responsibilities and social concerns.

## About the Department

The Department of Computer Science & Engineering is a unique center of BIT established in 1996. It offers 4 years B.E.(Computer Science & Engineering) programme and 2 years M.E. (Computer Science & engineering) programme. The department has been recognized as a centre for carrying out Ph.D./M.S. (by Research) Programme under Anna University, Chennai. It has dedicated and specialized faculty members in different areas of computer Science & Engineering with rich experience in academics, industry and research. The department has well equipped and spacious laboratories with modern computer equipments.

## About the Training Programme

Big data is a vast, huge and diverse Technology. It requires completely new architecture and algorithms to extract the hidden knowledge from large volume of data. In Big Data, Data Analytics plays a predominant role in Data Analysis. It poses major challenge to research in association to scientific fields like spatial research, drug discovery, computational biology, genetic research, bioinformatics, material science, geographical information system, space observation, statistics, cognitive learning and artificial intelligence.

This programme covers both the theoretical and practical aspects of Big Data, providing hands-on learning experience to the participants. Overall the programme provides external knowledge in basics of Data Science and advanced data models like Mapreduce and Hadoop frame work and SAS visual Analytics.

## Objectives of the Programme

- To strengthen specialized research areas of big data analytics.
- To ensure that faculty members are trained in the big data analytics platforms (such as, Hadoop, Hadoop-Related Projects, Spark, SAS etc.),
- To get deep knowledge in machine learning techniques and its applications in analytical tools, NoSQL databases.
- To enrich Knowledge in Real world Applications like e-Governance, Healthcare, Transportation and Business etc.

## Course Contents

- Recent Trends in Data Science
- Advanced Data Models
- Hadoop Installation - Map Reduce Programming
- Hadoop Hands-on: HIVE, PIG, Sqoop, Zoo Keeper, Hive
- Apache Casandra
- SAS Enterprise Miner /SAS Visual Analytics
- Hands-on: Hadoop Spark
- NoSQL Data Management - Mongo DB
- Hands-on :R Programming
- Data Streams Analysis Platforms
- Bigdata / Hadoop Case Studies

## Resource Persons

Specialized persons from Industries and Academic Institutions like IIT's and NIT's.

## Registration Procedure

1) Demand Draft for Rs 500 has to be taken in the favour of "The Principal, Bannari Amman Institute of Technology" Payable at sathyamanglam.

2) The Amount will be refunded for the attending Delegates.

3) Accommodation shall be provided for out side participants on request.

4) Total number of participants will be limited to 50.

5) Participants are advised to follow formal dress code and bring the College ID proof.