

Report on Anna University Sponsored Faculty Development Training Programme On IT6006-DATA ANALYTICS 22-6-2018 to 29-6-2018

A seven days faculty development programme on “**IT6006 – Data Analytics**” was held at the Department of Computer Science and Engineering, Amrita College of Engineering and Technology, under the sponsorship of Anna University, from 22nd June to 29th June, 2018. The major focus of the FDP is on upgrading the teaching, training, and research skills for the development of faculty members. It intends to provide opportunities for faculty members to renew their intellectual vitality and further their professional growth. The Programme also aims at equipping teachers with skills and knowledge in the field of Big data analytics, machine learning , Statistical concepts, big data tools and data mining that are essential for inculcating learning values in students and guiding and monitoring their progress towards their career.

The FDP was attended by 25 participants from faculty members of CSE, ECE, IT, and MCA.

INAUGURAL SESSION:

The esteemed personalities present on the inauguration of the programme:

Prof.Dr. R.K.Suresh, Principal, Amrita College of Engineering and Technology

Mr. Gopala Krishnan, Campus In-charge, & GM

Dr. N.R.Ram Mohan, HOD Department of CSE, Amrita College of Engineering and Technology welcomed all the respected dignitaries and participants and emphasized the benefits of such kind of resourceful activity. Prof. Dr. R.K Suresh, Principal of Amrita College of Engineering and Technology appreciated the program organized by CSE department. Mr. Gopala Krishnan, Campus In-charge & GM encouraged for such activities.



TECHNICAL SESSIONS:

22/06/18:

Dr.A.Antony Viswasa Rani, Asso.Prof, Department of CSE of Amrita College of Engineering and Technology has delivered a lecture on “Data Analytics”. In this session participants were learned about Bigdata, analytics concepts, big data challenges and various data analytics tools.



Hands on session :

“R” language installation is done by the participants and the instructions were given by Dr.A.Antony Viswasa Rani, Asso.Prof and Mrs. Sindhiya M.P/ Asst,Prof. Department of CSE of Amrita College of Engineering and Technology. At first participants were trained with R Basic concepts and simple exercises.



23/06/18:

Prof. Sandhya Harikumar, Asst. Professor, Department of Computer Science and Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Kollam, Kerala has focused on Frequent item sets and Clustering techniques with examples . In this session participants were familiar with the Clustering techniques and

Association rule mining.

25/06/18:

Prof. Thanammal Indu, Department of CSE of Amrita College of Engineering and Technology presented a lecture on streaming concepts, data model and Architecture.

During the Hands on session Apriori and Clustering Techniques were implemented in R programming. In this session participants were familiar with the Streaming concepts and models.

26/06/18 & 27/06/18:

Dr.P.Prakash, Asst. Professor, Department of Computer Science and Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore, Tamilnadu has conducted two days Sessions on HADOOP Framework and NoSQL Databases.

Hands on session :

Hadoop installation , Map-Reduce Program Execution in Hadoop, Pig Installation and MongoDB Installations were done and the participants were worked on it with various Examples. They had done some programming regarding the above areas given by the experts.

In this session participants were familiar with the Hadoop Ecosystems and MongoDB.

28/06/18:

Prof. Sinduja. S , Department of CSE of Amrita College of Engineering and Technology presented a lecture on Sentimental Analysis. Prof. Thanammal Indu , Department of CSE of Amrita College of Engineering and Technology presented a lecture on Big data Statistics and Sampling Techniques.

Hands on session-Sentiment Analysis Using R is done.



29/06/18:

Dr.T. Senthil Kumar, Associate Professor, Department of Computer Science and Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, coimbatore, Tamilnadu explained the concepts of Regression modeling, Multivariate analysis, Bayesian

modeling, inference and Bayesian networks, Support vector and kernel methods, Rule induction Neural networks principal component analysis and neural networks.

Hands on session was done with the software Anaconda & Spider. Regression, Bayesian networks, Support vector were implemented.

The program was ended with vote of thanks by Dr.A.Antony Viswasa Rani, Asso.Prof, Department of CSE of Amrita College of Engineering and Technology, Coordinator of the FDP on 29/06/2018.

