



Stanley College of Engineering and Technology for Women

Chapel Road, Abids, Hyderabad – 500 001

(Autonomous)

(Affiliated to Osmania University & Approved by AICTE)

(All eligible UG Courses are accredited by NBA & Accredited by NAAC with 'A' Grade)

Department of Information Technology

Report of the Faculty Development Programme

Data Analytics

A faculty development programme was organized by **Electronics & ICT Academy National Institute of Technology, Warangal** in association with “Stanley College of Engineering & Technology for Women”, Hyderabad (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI) from **8th to 17th April, 2022** through virtual mode on the above-mentioned topic. This was a ten-day Faculty Development Programme where various related subtopics were discussed in detail by eminent educationists and a very beneficial academic environment was experienced by the participants.

The FDP was started with an inaugural session on 8th April, 2022 with the Lamp Lightening ceremony followed by National song. The dignitaries were welcomed by the Convenor of FDP Dr.K.L.Vasundhara, Head of Mathematics, Convenor and presented flowers. Address by Guest of Honor Dr.Buddha Chandrasekhar, CCO-AICTE gave a primary motivation to all the participants regarding the FDP, role of EICT academy, encouraging recent trends in order to fulfil research-oriented industry-academicians. The Vote of thanks for the inaugural session was proposed by Dr.B. Srinivasu, Professor and Head of Information Technology Department, Covenor.

DAY 1:

The technical session 1 was on the topic “Introduction and Overview of Data Analytics” and the guest speaker was Dr. C R Rao, Dean, Central University, Hyderabad. Dr. C R Rao discussed what is Data Analytics and its benefits. He also discussed the Business Analytics and the 7-step process and also discussed about the Advanced Analytics. The lecture was very beneficial and provided an insight on the various challenges associated with business analytics and spoke about different analytics used now-a-days.

The next technical session 2 was on the topic “Call Centre’s Optimization Problem and Machine Learning” and the guest speaker was Dr. Montaz Ali, WITS university, Johaunsberug, South Africa, Zambia. Dr. Montaz Ali discussed about the data of Call Centre and how that data can be optimized using different technologies and Machine Learning and also gave a hands-on experience.

DAY 2:

The session 1 was on the topic “Mathematics of Data Analytics and Regression Analysis” and the

guest speaker was Dr. X. She Yang, University of Middlesex, UK. Dr. X. She Yang discussed about how the mathematics is important and useful in Data Analytics and explained in detailed about Regression Analysis and how it is used in real time.

The next technical session 2 was on the topic “Open-source software tools for Data Analytics (Python/R)” and the guest speaker was Dr. Abhilash Pochiraju, University of Leicester, Data analysis for business intelligence, UK. Dr. Abhilash Pochiraju has given a hands-on experience on different tools that are used for Data Analytics in Python and R programming language.

DAY 3:

The session 1 was on the topic “Statistical Foundations” and the session 2 was the “Hands-on session on Statistical Foundations” and the guest speaker for the Day 3 was Prof V.Ravindranath, JNT University, Kakinada. Prof V.Ravindranath gave an importance about the statistical analysis and foundations in the field of Data Analytics and also in session 2 gave an hands-on experience how this statistical foundation is used in different projects of Data Analytics.

DAY 4:

The technical session 1 was on the topic “Data Pre-processing” and the guest speaker was Dr. Tene Ramakrishnudu, NIT Warangal. Dr. Tene Ramakrishnudu gave a detailed idea on what is Data Pre-processing and why do we need to pre-process the data. The session gave an idea how to handle the real-world data.

The next session 2 was on the topic “Predictive analytics” and the guest speaker was Dr. Ravindra S Hegadi, Dean Computer Science, Central University of Karnataka, Kalaburagi. Dr. Ravindra S Hegadi discussed about Big Data and Predictive Analytics. He has explained about the Impact of Predictive Analytics and also its applications along with the software APIs used.

DAY 5:

The session 1 was on the topic “Case studies and Research Trends in Data analytics” and the guest speaker was Dr. Burhanuddin, Director, UTeM International Centre, University Teknikal Malaysia. Dr. Burhanuddin gave a lecture on the recent research trends that are emerged in the field of Data Analytics and also have discussed about the Case studies under the above said topic.

The session 2 was on the topic “Role of machine learning in Data Analytics” and the guest speaker was Prof. R B V Subramaanyam, NIT Warangal. He has discussed how machine learning is used in Analytics and how these both can be combinedly used further in the real-world.

DAY 6:

The session 1 was on the topic “Data Classification” which was followed by the topic “Hands-on Data Classification” in session 2 and the whole day the two sessions were handled by the guest speaker Sri B Sachin Govind, Technical Architect, Yellow.ai. Sri B Sachin Govind discussed about how data can be classified and also gave a hands-on experience by explaining the tools used in Data Classification.

DAY 7:

The technical session 1 was on the topic “Clustering analysis” and the guest speaker was Dr. V Kumar, Central University of Kerala, Periya. Dr. V Kumar discussed about what is clustering analysis and explained in detailed about it.

The technical session 2 was on the topic “Data Analytics Case study” and the guest speaker Sri B Sachin Govind, Technical Architect, Yellow.ai. Sri B Sachin Govind discussed about the different case studies of Data Analytics and that have a proper idea of hoe Data Classification is useful in Data Analytics.

DAY 8:

The session 1 was on the topic “Data Visualization” which was followed by the topic “Hands-on session on Data Visualization” in session 2 and the whole day the two sessions were handled by the guest speaker Dr. Tene Ramakrishnu, NIT Warangal. Dr. Tene Ramakrishnu discussed about various ways to visualize the data and explained the tools and packages used for Data Visualization which helped our participants to understand the topic easily.

DAY 9:

The technical session 1 and 2 was on the topic “Social Media Analytics” and the whole day the two sessions were handled by the guest speaker Prof P Radha Krishna, NIT Warangal. Prof P Radha Krishna discussed about how the data is present on the social media and how such data can be analysed. He also took You-tube media as example and explained about the Social Media Analytics.

DAY 10:

The session 1 was on the topic “Handling massive datasets: Big Data Analytics” which was followed by the topic “Bid Data Analytics” in session 2 and the whole day the two sessions were handled by the guest speaker Dr. Tene Ramakrishnu, NIT Warangal. Dr. Tene Ramakrishnu discussed about how to deal with massive datasets and how to analyse them.

The last session of the FDP i.e. the valedictory session was held. Report of the FDP was presented by Dr.K.L.Vasundhara, Convenor. Votes of thanks were provided by Dr.B.Srinivasu, Convenor of FDP.

Approval Mail:

On Thu, Feb 24, 2022 at 4:59 PM EICT NITW <eict.nitw@gmail.com> wrote:

Dear Sir/ Madam,

As per the request letter sent from your college, your course is approved and you need to plan the programme and prepare the brochure and lecture schedule as soon as possible and send it to e-mail: eict.nitw@gmail.com to publish on the website.

I am also giving below the contact details of coordinator(s) and email address(es). Please contact the coordinator from NIT Warangal to plan the FDP.

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| Data Analytics | 1. Dr. K. L. Vasundhara, Dept. of Mathematics, Stanley College of Engineering and Technology for Women, Hyderabad Ph. No: 9440220759 Email: vasundhara.yerasuri@gmail.com 2. Dr. T. Ramakrishnudu, Dept. of CSE, NIT Warangal Email: trk@nitw.ac.in Ph. No: 0966876842 | 40 Hrs | Online | 8 th – 17 th April, 2022 |
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Please find the attached documents for the instructions, Participant List format.

Thank you

E & ICT

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with best regards

Dr. Tene Ramakrishnudu

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