ONLINE FACULTY DEVELOPMENT PROGRAM (FDP) ON
Predictive Analytics and Business Intelligence
(1ˢᵗ – 10ᵗʰ December 2021)
organised by
Electronics & ICT Academy, National Institute of Technology, Warangal.
in association with
G. Narayanamma Institute of Technology and Science (Autonomous), Hyderabad
(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

The FDP is to give an introduction and insight into one of the most important data analytical technique, 'Predictive Analytics'. Predictive Analytics is the use of data, statistical algorithms and machine learning techniques to identify the likelihood of future outcomes based on historical data. BI is a broad term that encompasses data mining, process analysis, performance benchmarking, and descriptive analytics. It also helps in managing the business information which ultimately results in attaining the business objectives for its continuous success in the business industry. The program offers both theoretical knowledge and hands-on sessions in the area of Predictive Analytics and Business Intelligence to lead business transformation by leveraging emerging technologies through real-world case studies and exercises

Major Course Contents:

1. Introduction to Data Analytics, State-of-Art in Data Analytics.
2. Approaches to Predictive Analytics.
3. Predictive Modelling – Transformation and preparation of data, Evaluation of Predictive modelling.
4. Data Reduction and Analysis Techniques
5. Regression for Predictive Analytics- Linear, Logistic Regression, LDA, Time Series Forecasting
6. ARMA, ARIMA models
7. Machine learning in Predictive Modelling
8. Python scripting
9. Predictive Analytics Use Case
10. Text mining and social media analysis
11. Data Visualisation and storytelling using Tableau or PBI
12. Business Intelligence best practices and case studies
13. BI project management, BI team and staffing
14. Business Intelligence strategy, Operational BI, BI Selection
15. Self-service and Collaborative BI

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty and Research Scholars	Rs.750/-
Industry Participants	Rs.2250/-

Participants need to pay the Registration Fee Online using the following details

Online Transfer Details
Account Name: **Electronics & ICT Academy NITW**
Account No: **62423775910**
IFSC: **SBIN0020149**
Bank and Branch: **State Bank of India, NIT (REC) Warangal**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:
https://forms.gle/g1gtJ2au1ZhwZarp7

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 60 (sixty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important Dates:

Last date (Application & DD)	26.11.2021
Selection List by E- mail	27.11.2021
Duration	1.12.2021 to 10.12.2021

About NIT Warangal:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programmes in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About GNITS:

G. Narayanamma Institute of Technology & Science (GNITS), Hyderabad, a leading Engineering college for women, was founded by late Mr G. Pulla Reddy in 1997, with an objective to provide quality education in Engineering. GNITS received UGC Autonomous status for 10 years from 2018 and is affiliated to Jawaharlal Nehru Technological University (JNTU-H), Hyderabad with accreditation from NAAC, NBA and ISO certified. GNITS offers 8 B.Tech and 5 M.Tech programmes with 2640 students enrolled in B.Tech stream and 180 in M.Tech stream. First college in India to establish Apple Lab inaugurated by Tim Cook. Its excellent infrastructure provides opportunity for students to excel and secure placements in top MNC's on par with NITs, IITs & IIITs.

About CSE:

The Department of CSE offers two new programmes under B.Tech CSE with specialization in AI & ML and Data Science. The department has 9 doctorates & 24 pursuing Ph.D from reputed universities. Two research centres are established one for IOT and another for AI & ML with AICTE-MODROB funds. Quality research papers & 5 patents are published by various faculty. 95% of eligible students from CSE are placed in top MNC's with the highest pay package of 45 lakhs.

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1. Name :

2. Designation :

3. Institution :

4. Email :

5. Mobile No :

6.

Reference No:	
Amount:	
Bank :	
Date:	

7. Address for Correspondence:

8. Educational Qualification:

9. Subjects taught so far:

10. No. of refresher courses/workshops attended:

11. Experience (in years):

   Teaching: Research: Industry:

12. Do you belong to SC/ST :   YES /NO

   (If yes, please specify and attach a copy of caste certificate to claim the concession)

Declaration
The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Date   **Signature of the Applicant**

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. .... is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **"Predictive Analytics and Business Intelligence"**, sponsored by Electronics & ICT Academy during 1st December – 10th December, 2021 at G. Narayanamma Institute of Technology and Science, Hyderabad.

Signature of Head of Institution
(with seal)

Convenor/Advisory Member

Dr M Seetha Prof and Head CSE

Address for correspondence
Post your application form to
Head Department of CSE
G Narayanamma Institute of Technology and Science, Shaikpet, Hyderabad, Telangana, INDIA-500104

It is requested to all the delegates, after completion of application form and the payment details, the screenshot of payment and scanned application form has to be uploaded in the following online registration link.

Registration Link:
https://forms.gle/g1gtJ2au1ZhwZarp7

For more details about Electronics & ICT Academy, NIT, Warangal, please visit:
https://nitw.ac.in/eict

For more enquiries please contact co ordinators:

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Coordinators

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ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)
ON
Predictive Analytics and Business Intelligence
(1st December - 10th December 2021)

Organized by
Department of Computer Science and Engineering
G. Narayanamma Institute of Technology and Science, Hyderabad
in association with **Electronics & ICT Academy,** National Institute of Technology, Warangal

Day & Date	10.30 am – 12.30 pm		1.30 pm – 3.30 pm	
Day 1 01/12/21	Inaugural Function.	Business Analytics & Map Reducing *Dr.RBV Subramanyam, Professor, CSE, NIT Warangal*	Business Analytics & Map Reducing *Dr.RBV Subramanyam, , Professor, CSE, NIT Warangal*	
Day 2 02/12/21	Python scripting *Mr.Nagesh Bhattu Sristy, NIT AP*		Hands-on session *Mr.Nagesh Bhattu Sristy, NIT AP*	
Day 3 03/12/21	Machine learning in Predictive Modeling *Dr.N.Kalyani, Professor, CSE, GNITS*		Data Reduction and Analysis Techniques, Regression for Predictive Analytics• Linear, Logistic Regression, LDA *Dr.Venkateswara Rao Kagita, CSE,NITW*	
Day 4 04/12/21	Time Series Forecasting ARMA, ARIMA models *Dr.Srinivas Padmanabhuni, Eminent Engineer, AI Thought Leader, Entrepreneur*		Hands-on session *Dr.Srinivas Padmanabhuni, Eminent Engineer, AI Thought Leader, Entrepreneur*	
Day 5 05/12/21	Text mining and social media analysis *Dr.P.Radhakrishna, Professor, CSE,NIT, Warangal*		Case Studies on social media analysis *Dr.P.Radhakrishna, Professor, CSE, NIT, Warangal*	
Day 6 06/12/21	Data Visualization and storytelling using Tableau or Power BI *Mr.P.Mohan, Senior Data Scientist, Tech Mahindra*		Data Visualization and storytelling using Tableau or Power BI *Mr.P.Mohan, Senior Data Scientist, Tech Mahindra*	
Day 7 07/12/21	Data Visualization and storytelling using Tableau or Power BI *Mr.P.Mohan, Senior Data Scientist, Tech Mahindra*		Data Visualization and storytelling using Tableau or Power BI *Mr.P.Mohan, Senior Data Scientist, Tech Mahindra*	
Day 8 08/12/21	BI selection, Self-service and Collaborative BI *Ms.Manasa Devi, Data Scientist, Ascent Fund Sevices*		Business Intelligence best practices and case studies *Mr Umamaheswara Sarma, NIT Warangal*	
Day 9 09/12/21	BI project management, BI team and staffing *Dr.Srikumar, Group Manager E&R, Infosys Ltd, Mysore*		1:30 – 3:30 Business Intelligence strategy, Operational BI *Dr.Srikumar, Group Manager E&R, Infosys Ltd, Mysore*	3:30 – 5:30 Software Analytics *Dr.Anajaneyulu Pasala, AI/ML, Innovation and technology leader*
Day 10 10/12/21	Hands-on Session (Use Case) *Mr.Suresh Kadari, Cedura Tech Pvt.Ltd*	Exam(11.30 am – 12:00pm) Valedictory Function(12.15 pm)		

(Note: "Break" appears vertically between the two session columns)

G. Narayanamma Institute of Technology & Science

(Autonomous)   **(for Women)**

Shaikpet, Hyderabad- 500 104

Report on FDP "Predictive Analytics and Business Intelligence"

Date: 13-12-2021

Faculty Development Program for 40 hours in online mode on "Predictive Analytics and Business Intelligence" was organized by E & ICT academy, NIT Warangal and CSE, GNITS, Hyderabad from 1st December to 10th December 2021.

A huge response with 51 participants across various colleges from in and around Hyderabad attended this FDP. Most of the sessions were hands-on sessions with active participation and interactive teaching and learning.

Day1 (01-12-21) session was by Prof RBV Subramanyam, NITW on Business Anlaytics and Map Reducing.

Day 2 (02-12-21) session was by Mr Nagesh Bhattu Sristy. Sir has covered a full day session on Python scripting.

Day 3 (03-12-21) forenoon session was by Dr N.Kalyani, professor in CSE GNITS. Madam explained about usage of machine learning techniques in predictive modeling . And in the afternoon Dr Venkateshwara Rao Kagita, CSE, NITW explained more about Data reduction and Analysis techniques.

On Day 4 (04-12-21) , session by Dr.M Srinivas Padmanbhuni, was remarkably excellent on the topic "Time series forecasting" with real time applications.

On Day 5 (05-12-21), Dr.P Radhakrishna prof NIT Warangal has shared his indepth knowledge on Text mining and social media analysis. Inspite of holiday I,e Sunday ,participants have made themselves convenient to attend sir's session.
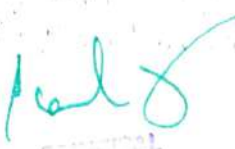
Day 6(06-12-21) and Day 7 (07-12-21) sessions were handled by Mr. P Mohan, senior data scientist, Tech Mahindra who was delivering on visual analytics using Tableau tool.

Day 8(08-12-21) session was by Ms Manasa Devi, data scientist, Ascend fund services delivering forenoon session on Business Intelligence selection, self-service and collaborative BI and afternoon session by Mr. Umamaheshwara Sharma B, senior Research Fellow in NIT Warangal on Software defect prediction-evolution

On Day 9 (09-12-21) session by Dr.Sreekumar, Infosys, was very interesting on BI project management, teaming and staffing in the forenoon and Dr Anjaneyulu Pasala delivered session on Software Analytics in the afternoon.

And finally on 10th day(10-12-21) I,e last day an inspiring talk by Mr.Suresh Kadari on Predictive Analytics and Business Intelligence.

Overall online feedback was taken from participants and the response collected was 75% excellent. All the sessions were very interactive and worthful helping participants to drive into future analytics for decision making.