

# ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP) ON Predictive Analytics and Business Intelligence

(1<sup>st</sup> - 10<sup>th</sup> 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)



"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.

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

- 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

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

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

**PRINCIPAL**  
G. Narayanamma Institute of  
Technology & Science (for women)  
(AUTONOMOUS)  
Chaitanyam Hyderabad - 500 104

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

Online Transfer Details
Account Name: <b>Electronics &amp; ICT Academy NITW</b>
Account No: <b>62423775910</b>
IFSC: <b>SBIN0020149</b>
Bank and Branch: <b>State Bank of India, NIT (REC) Warangal</b>

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/q1qtJ2au1ZhwZarP7>

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	01.12.2021 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.



# ONLINE FACULTY DEVELOPMENT PROGRAM (FDP)

ON

Predictive Analytics and Business Intelligence  
(1<sup>st</sup> December - 10<sup>th</sup> 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

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

12/21

G. Narayanamma Institute of Technology & Science (AUTONOMOUS) Shaikpet, Hyderabad 500 104

PRINCIPAL (for women)



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**(AUTONOMOUS)**  
**Shaikpet, Hyderabad – 500104**

**Department: Information Technology**

2021-22

REPORT

FDP on Predictive Analytics And Business Intelligence

**Date of program:** 01-12-2021 to 10-12-2021

**Resource person:** Prof. R.B.V Subramanyam, NITWarangal  
Mr NageshBhattu Sristy, NIT Andhra Pradesh  
Dr. P.RadhaKrishna, NITWarangal  
P.Mohan, Sr Data Scientist, Tech Mahindra

**About the Program:**

This FDP was organized by Department of CSE of GNITS, it is a 40 hours course conducted online. This FDP has started with an overview of Business Analytics and Map Reducing by Prof. RBV Subramanyam. Followed by theory and practicals of python scripting. Sessions on textmining and social media analysis gave overview of mining data using machine learning approaches. The FDP also gave overview of performing data analytics using Tableau tool and sessions in business intelligence, collaborative Bi and Software Analytics. This helped us to acquire knowledge on different intelligence approaches for student projects and new course on data analytics.

  
Signature of the Faculty member

C. Sudhakar Reddy

Dr. V. Supriya

  
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