ABOUT THE INSTITUTE AND DEPARTMENT

Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology is an autonomous institute affiliated to the University of Mumbai. Institute runs four UG, three PG and four Ph.D. programmes in engineering. NIRF ranked S.P.I.T. consistently between 100 to 150. Institute has strong culture of innovation, research and entrepreneurship. S.P.I.T. is consistently achieving 100% placements since few years.

Department of Electronics Engineering has earned a great reputation in the field of engineering education, as well as industry. Department has well equipped laboratories to cater the unique, flexible and globally competent curriculum. Department regularly organizes value added courses and FDPs. Department is provisionally accredited by National Board of Accreditation consistently in last three accreditation cycles.. Department has highly motivated faculty members. Department has Ph.D. research centre in Electronics Engineering. Strong research and innovation culture makes the department one of the highly sought after department for pursuing B.Tech and Ph.D. Students of the department every year shine in national level competitions like Texas Instruments, E-Yantra, Robocon and Hackathons. Department alumni are presently working in many core companies like INTEL, Apple, Samsung, Microsoft etc.

REGISTRATION PROCESS

This being AICTE sponsored FDP there are **NO registration charges**. However online registration is compulsory. Please visit **http://fdp.spit.ac.in/**. You can **register for one or more than one FDP. For certificate attendance and passing of Examination is mandatory.**

CONTACT FOR REGISTRATION

Prof. Payal Shah (Mobile: 9867368965)

Prof. Harshil Kanakia (Mobile: 9819740847)

IMPORTANT DATES & LINKS

Last date for registration:
   FDP1: 30th Sep2020
   FDP2: 31st Oct 2020
   FDP3: 29th Nov 2020
For Registration: http://fdp.spit.ac.in/
Email: fdp@spit.ac.in
Other: *www.spit.ac.in*

FDP SCHEDULE

FDP1	FDP2	FDP3
Foundation of Data Science	Artificial Intelligence & Machine Learning	Data Science & Its Applications
19th to 31st Oct	17th to 29th Nov	7th to 19th Dec

WHO SHOULD ATTEND THE COURSE

Teachers from AICTE approved academic and research institutions can attend this course. This course if particularly useful for teachers working/teaching or doing research in the domain of RPA, machine learning and data science
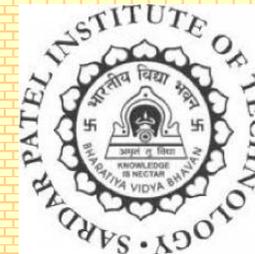
AICTE Sponsored Three TWO Week Online Faculty Development Programme (FDP) On

"Insights into Intelligent Automation, Machine Learning and Data Science"
19th Oct-19th Dec 2020

Coordinator
Dr. Surendra Rathod
Professor
Electronics Engineering Department

Organized By
Electronics Engineering Department
Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology,
(An autonomous institution affiliated to University of Mumbai)
Mumbai, Maharashtra

Telephone: 91-22-26707440 / 26287250 | URL : www.spit.ac.in

ABOUT FDP

In the latest technology trend, organizations are looking for the intelligent automation tools to solve business challenges, increase productivity, efficiency, and accuracy which results in a benefit to the organization. Analytic firms like Deloitte, McKinsey etc. predicted that next few years data science will leads all the engineering domains. AICTE in its 'Approval Process Handbook' also emphasized need to include courses related to data science be made part of curriculum in all branches and faculty from branches like electronics must learn these new technologies. There is a need to find innovative way to leverage these technologies which are the fastest gaining technologies in current market. There is a lack of understanding of the potential benefits of these technologies to solve business problems. Deep insights are required into these technologies to find business solutions. This FDP promises to provide teachers hands-on training and industry connect for sharing real life case studies.

FDP OBJECTIVES

1. To motivate teachers from engineering domains like electronics etc. to adopt new relevant technologies like intelligent automation and data science.
2. To provide hands-on training to teachers on various tools and platforms of intelligent automation, machine learning and data science
3. To train teachers on data exploration, data modeling, analytics and visualization.
4. To provide hands-on training on various programming languages like R, Python, Base SAS etc.
5. To provide platform to faculty members to interact with industry experts from these domains
6. To make teachers aware that these technologies need to be introduced in all branches of engineering to increase employable and also empower teachers in these technologies by providing opportunity of learning

COURSE CONTENTS

Broadly Three TWO week FDP's will cover the following contents:

FDP1: Foundation of Data Science: Mathematical foundation- Probability, Statistics, Linear Algebra etc. Programming- R, SCALA, Python etc. Basics of scalable data science.
FDP2: Artificial Intelligence and Machine Learning Basics of AI, RPA, Natural language processing, basics of ML, regression, classification, clustering, recommendation, association mining etc.
FDP3: Data Science and Its Applications Life cycle of data science, data analytics, visualization, deep learning and real life applications of data science.

RESOURCE PERSONS

Distinguished faculty members from the renowned institutes like IIT, other institutes and industry experts/ trainers working in the domain of RPA, machine learning and data science will be the resource persons for the FDP.

Expected Outcome

1. Course content on intelligent automation, machine learning and data science
2. Trained teachers in various programming languages like R, Python and SAS
3. Hands on training on various tools from industry experts and renowned academicians
4. Curriculum content and feasibility of including data science, machine learning and industrial automation related courses
5. Various laboratory exercises to be carried out in these courses are adopted in curriculum
6. Social network of faculty and industry experts
7. Ideas for projects and research possibilities in these domain.

PATRON

Dr. Shesha Iyer — Chairman, BoG, S.P.I.T

Dr. B. N. Chaudhari — Principal, Sardar Patel Institute of Technology

ORGANIZING COMMITTEE

Dr. Surendra Rathod (Coordinator)

Prof. Narendra Bhagat	Prof. Renuka Pawar
Prof. Prashant Kasambe	Prof. Nikahat Mulla
Prof. Manisha Bansode	Prof. Aparna Halbe
Prof. Payal Shah	Prof. Soni Bhambar
Prof. Priya Deshpande	Prof. Varsha Hole
Prof. Pallavi Thakur	Prof. Harshil Kanakia
Prof. Pramod Bide	Shri. Shrikant Goswami

PROGRAMME EVALUATION COMMITTEE

1. Dr. B. N. Chaudhari
   Principal of the Institution (Chairperson)

2. Dr. Deepak Karia
   Head of Electronics Engineering Department

3. Dr. P. B. Bhavathankar
   Head of Information Technology Department

4. Dr. D. R. Kalbande
   Subject Expert

5. Dr. S. S. Rathod
   Co-ordinator of the program (Member Secretary)