

**Rajiv Gandhi Proudhyogiki
Vishwavidyalaya
Bhopal**

Accredited with 'A' grade by NAAC



Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV), accredited with 'A' grade by NAAC, established in the year 1998 is truly a picture of modernization offering learner-centric programs in Engineering, Pharmacy, and Architecture & Management. University is sprawled over a vast campus of 241.4 acres, marching towards development into a center of excellence in the arena of Technical Education, Research and Innovations. Under its umbrella there are 05 UTD's, 188 affiliated Engineering Colleges, 69 Pharmacy Colleges, 25 MCA Colleges and 05 Architecture colleges imparting Graduate level instructions running 23 under graduate level courses & 84 post graduate level courses. Situated amidst an aesthetic and hilly surrounding, the University is also offering Ph.D. in eight faculties.

The main focus of University is on research and development, industrial consultancy and establishing efficient & effective mechanisms for managing innovations.

RGPV has been selected by Ministry of Human Resource Development (MHRD) as one of the Affiliating Technical Universities (ATUs) among ten across the country for receiving TEQIP-III grant.

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- Prof. Sunil Kumar, Hon'ble Vice Chancellor, RGPV

Patron

- Prof. S. S. Kushwah, Registrar, RGPV

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- Prof. S. C. Choubey, TEQIP Coordinator
- Prof. S. S. Bhadauria, UIT-RGPV
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- Prof. Vineeta Nigam, UIT-RGPV

Chief Coordinator

- Prof. Sanjeev Sharma, Director, SoIT, RGPV

Coordinators

- Dr. Jitendra Agrawal, SoIT, RGPV
- Dr. Nishchol Mishra, SoIT, RGPV

Departmental Committee

- Prof. Sarita Bhadauria, SoIT, RGPV
- Dr. Varsha Sharma, SoIT, RGPV
- Mr. Yogendra P.S Maravi, SoIT, RGPV
- Mr. Vivek Sharma, SoIT, RGPV
- Ms Priyamwada Sharma, SoIT, RGPV

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**Rajiv Gandhi Proudhyogiki Vishwavidyalaya
Bhopal**

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**One Week
Short Term Training Program
on
“Data Analytics with Machine Learning
using Python”**



**(26th - 30th November, 2019)
Under**

TEQIP-3
Technical Education Quality Improvement Programme

Organized by



School of Information Technology
University Teaching Department
Rajiv Gandhi Proudhyogiki Vishwavidyalaya
(State Technological University of Madhya Pradesh)
Airport Road, Gandhi Nagar, Bhopal-462033

Program Objectives

The main objective of this short term training program is to up-grade the knowledge of participants in the area of Data Analytics with Machine learning using Python. Data analytics is the science of analyzing raw data in order to make conclusions about the information it contain, with the help of specialized systems and software. Data analytics is widely used in commercial industries to help organizations to make more-informed business decisions and by scientists and researchers to verify or disprove scientific models, theories and hypotheses. Data Analysis is performed to clean, transform the data, and extract the right information from the data (Feature Engineering) to input it to the Machine Learning technique. Machine learning model performs the expert task on the input. Machine learning can be stated as the practice of applying algorithms to use data, learn from it & forecast the future trends. Machine learning is used in financial forecasting, search engines, image recognition, natural language processing, medical diagnosis, recommendation systems, classification and prediction for various systems etc.

Python is a general-purpose programming language and is widely used for data analytics and machine learning. This short term training program will enable the participants to use Python for data analytics tasks and develop Machine learning solutions to their research problems. Participants will be issued certificates on successful completion of this course.

Major Course Contents

- ❖ Introduction to Data Analytics, Machine learning & Core Python
- ❖ Scientific Distributions used in Python for data science
- ❖ Importing and Exporting Data using Python
- ❖ Data Manipulation and Data Analysis
- ❖ Statistics and Predictive modeling
- ❖ Data Exploration for modeling
- ❖ Data Preparation, Solving Segmentation, Regression, Classification problems etc.

About School of Information Technology



The School of Information Technology (SoIT) at RGPV was established in 2002-03. SoIT offers M. Tech. in Computer Technology & Applications, Information Technology, Cyber Forensics and Data Science. These courses prepare young graduates to take state of art challenges as required by the industry and R & D organizations. Within a span of Seventeen years, the department has made a mark in ICT and Computing research especially in the area of Mobile Computing, Data Mining, Soft computing, Information Security, Image Processing and many more.

Registration and Accommodation

- ❖ Faculty members/Ph.D Scholars of RGPV and affiliated institutions can register for this FDP
- ❖ There is no fee for registration.
- ❖ Registration for maximum 50 seats will be done on first come first serve basis.
- ❖ Those who wish to attend the STTP are requested to fill the registration form and send a scanned copy of it at soit@rgtu.net on or before 20th November 2019.
- ❖ Tea/Snacks and lunch will be provided free of cost during STTP.
- ❖ Accommodation will be made available for outstation participants on payment basis in RGPV campus if requested in advance.

Registration Form

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1. Name:.....
2. Designation:.....
3. Institute:.....
4. Mobile No.:.....
5. Email Id:.....
6. Accommodation Required: Yes/No.....

Signature of Applicant with Date

Signature & Seal of Sponsoring Authority