



CAREER DEVELOPMENT CENTRE, B.I.T. SINDRI

(TRAINING & PLACEMENT CELL)

(Department of Higher & Technical Education)

Government of Jharkhand

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NOTICE

Attention: All the students of BIT SINDRI

All the students are hereby informed that AICTE, in collaboration with CYBERVIDYAPEETH is organising 200 HOURS OF INTENSIVE FREE CYBER ENGINEERING SKILL BUILDING Workshop.

Last Date: August 26, 2022 (10PM)

Mode: Online

Starting Date: - 1st Sept. 2022

Link: <https://forms.gle/EbqF7pBWdPpEZ1mQ8>

➤ Note:-

- ❖ It is **mandatory for all the student** to register for the webinar.
- ❖ **Attendance of the webinar will be shared to the respective departments** for further proceedings
- ❖ Link for registration in Cyber Vidyapeeth Portal is at the end of the form

**Prof. (Dr) Ghanshyam,
Chairman,
Career Development Centre,
B.I.T. Sindri, Dhanbad**

THE SYLLABUS



PYTHON PROGRAMMING

PYTHON PROGRAMMING-I

- Install & Setup
- Basic syntax
- Keywords and identifiers
- Comments , variable and data types
- Operators ,control flow (decision making , looping, branching)
- String manipulation
- List ,tuples,set and dictionary(Basics)
- Arrays
- Functions(User defined and built-in)

PYTHON PROGRAMMING-II

- Modules
- File Handling
- Exception handling
- Networking Programming
- Web Scraping
- Working With Images
- Working With PDFs and Spreadsheet CSV Files
- Project:Automating Job Applications on LinkedIn
- Project:Create an Automated Amazon Price Tracker

DATA SCIENCE

DATA SCIENCE-I

- Installation of Python, Jupyter Notebook & Google Colab
- Data Type, List, Functions, Loops
- NumPy - Math Operations & Array, Pandas Dataframe
- Reading CSV file & DB data
- Basic Statistics - Mean, Median & Mode
- Variance, SD, Population vs. Sample
- Central Tendency Theory
- Charts & Graphs for Analysis Distribution-Normal, Uniform & Poisson, p-value
- Hypothesis Testing

DATA SCIENCE-II

- Overview of ML - Training
- Confusion Matrix
- R-Square
- Supervised Vs. Unsupervised
- Regression
- Decision Tree & Random Forest
- K-Means Clustering
- Packet Capture, Metadata Extraction And Anomaly Detection
- Network Flow Analytics & Anomaly Detection
- Dns Fast Flux Attack Detection

DATA SCIENCE

PYTHON FOR SECURITY-I

- Building a port scanner
- Constructing a SSH Botnet
- Dictionary password cracker
- ZIP file Brute-Force crackerIntroduction to python shell
- Write python reverse shell (Windows)
- Write python reverse shell (Linux)
- Write python bind shell
- Handling Url's using python
- Write customised port scanner using python
- Perform banner grabbing

PYTHON FOR SECURITY-II

- Sniffing wireless network for personal information
- Lisntening for preferred networks and indentifying hiddenn wireless networks
- Stalking Bluetooth Radios
- Exploiting Bluetooth vulnerabilities
- Anonymously browsing the internet with the mechanize class
- Interacting with Google using python
- Interacting with Twitter using python
- Python for OSINT
- Threat Intel & Osint Using Python & Opensource Libraries



CYBERVIDYAPEETH FOUNDATION

Launching World's Unique "Cyberiversity Certified Cyber Rakshak-Beginner"

