



Our Course

Internet o

Web Development

Mobile Applications

Database Administra

Infrastructure and Network

System Administration and Networking

Applications





# Centre of Excellence in IT

Jishnu T $\,{\sf U}^1$ 

 $^{1}$ Trainer Centre of Excellence in IT,PNG

Centre of Excellence in IT, PNG October 2019







CEIT

Jishnu T U

Our Courses

Internet of Things

Web Development

Mobile Applications

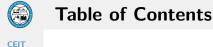
Big Data

Database Administration

Infrastructure and Network Security

8 System Administration and Networking

IT Applications







Our Courses

Our Courses

Infrastructure and Network Security

8 System Administration and Networking



## **Our Courses**





CEIT

Jishnu T U

We Offer 4 PG-Diploma & 17 Certificate Courses.

Our Courses

Things
Web Deve

Mobile Application

Database

Infrastructure and Network Security

System Administration and

IT

Let us introduce our courses through use cases

Use Case: Smart Safety Monitor

Some Features of products are

- 1 Flood, Freeze and Fire detection
- 2 Control Thermostat and Valve Operation
- Raise Alert
- 4 Predict Maintenance of machine



## Components





CEIT

Jishnu T U

#### Our Courses

Things

Web Deve opment

Mobile Applications

Database

Administration

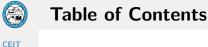
Infrastructure and Network Security

System Administration and

IT

The product contains components:

- 1 Smart Sensor and hubs programmed to detect Freeze/Fire or Flood.
- 2 To process the message from sensor and send alerts
- 3 A portal (App) to control valve and Thermostat operation
- 4 A view to show all parameters of the platform
- **6** A model to analyze the signals of machine to predict the failure







Internet of Things Internet of **Things** 

Infrastructure and Network Security

8 System Administration and Networking



## **Certificate Course in Internet of Things**





CEIT

Jishnu T U

Our Course

## Internet of Things

Web Devel

Mobile Application

Application

Database Administra

Infrastructure and Network Security

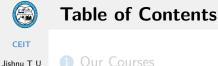
System Administration and

IT

Applications



- Embedded Linux to develop for IoT.
- Wireless Network & Communication protocols.
- Or prototyping using NodeJS and Python for development.
- 4 Cloud Platforms for IoT.







3 Web Development

Infrastructure and Network Security

8 System Administration and Networking

Web Development



## Certificate Course in Java Programming





CEIT

Jishnu T U

Our Course

Things

Web Development

Mobile Applications

Big Data

Database Administra tion

Infrastructure and Network Security

System Administration and

Net

Annlications



- Core Java and Advanced Java programming.
- 2 Database Technologies.
- **3** Foundations of Web Technologies.
- 4 Enterprise Java for Servlets, Java Server Pages.



## Certificate Course in MS.Net





CEIT

Jishnu T U

Our Course

Things

Web Development

Mobile Applications

Applications

Database Administra

Infrastructure and Network Security

System Administration and

IT



Microsoft

- MS .NET 4.5 Framework using C#.
- 2 Database Technologies.
- 3 Foundations of Web Technologies.
- 4 MS .Net Window programming.
- **6** MS .Net Web based programming.



## **Certificate Course in Advanced Web Technology**





CEIT

Jishnu T U

Web Development



- 1 Web Programming I (HTML, CSS, Aiax).
- Web Programming II (PHP, Java) scripts).
- Database Concepts.
- 4 Internet Terminologies



## Certificate Course in Multimedia Website Designing





CEIT

Jishnu T U

Our Course

Things

Web Development

Mobile Applications

Big Data

tion

Infrastructur and Network Security

System Administration and

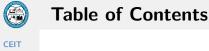
Netwo

Applications





- HTML Scripting.
- 2 Javascript, CSS, JQuery.
- Interactive Flash Animation







4 Mobile Applications

Mobile **Applications** 

Infrastructure and Network Security

8 System Administration and Networking



## **Certificate Course in Android Programming**





CEIT

Jishnu T U

Our Course

Things

Mobile

Applications

Database Administra

Infrastructur and Network

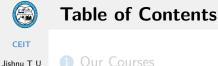
System Administration and

Netw

Annlinetiene



- Java Programming.
- 2 Mobile and Wireless Technologies.
- **3** Android Programming.
- 4 Database Concepts.







4 Mobile Applications

Big Data

Infrastructure and Network Security

8 System Administration and Networking

Big Data



## Certificate Course in Big Data Technologies





CEIT

Jishnu T U

Our Course

Things

opment

Applications

Big Data

Database Administra

Infrastructure and Network Security

System Administration and

Net

Applications



- Python Programming.
- 2 Database Concepts & Data Collection.
- 3 Big Data Technologies.
- 4 Hadoop, Pig, and HIVE.



## Certificate Course in Big Data Analytics





CEIT

Jishnu T U

Our Course

Things

Web Development

Mobile Applications

Big Data

Administra tion

Infrastructure and Network Security

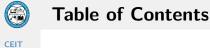
System Administration and

1400

Annlications



- R Programming.
- Probability & Statistics with R .
- Oata Visualization Analysis and Reporting.
- 4 Business Analytics







Database Administration

Infrastructure and Network Security

8 System Administration and Networking

Database Administra-

tion



## Certificate Course in Database Management





CEIT

Jishnu T U

Our Course

Things

opment Mobile

Application

Database Administra-

tion Infrastructu

and Network Security

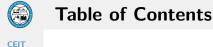
System Administration and

IT

Applications



- Database Concepts.
- 2 Database Technologies.
- 3 Database Administration.







Infrastructure 7 Infrastructure and Network Security

and Network Security



## Certificate Course in Network Security





CEIT

Jishnu T U

Our Course

Internet Things

Web Deve opment

Mobile Application:

Big Data

Administra tion

Infrastructure and Network Security

System Administration and

Netv

A mulications



- Computer Networking.
- 2 Network Defense and Countermeasures.
- 3 IT Infrastructure Management.



## Certificate Course in Ethical Hacking & Information Securit



CEIT

Jishnu T U

Our Course

Things

Mobile

Application

Database Administra

Infrastructure and Network Security

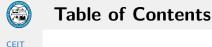
System Administration and

Netw

Applications



- Application Security.
- 2 Ethical Hacking.
- Open Programming with Crypto API.







Infrastructure and Network Security

8 System Administration and Networking

System Ad-

ministration and

Networking



## Certificate Course in Linux System Administration





CEIT

Jishnu T U

Our Course

Internet of Things

opment

Mobile Applications

Database Administra

Infrastructure and Network

System Administration and

Networking

Applications



- Fundamentals of Networking.
- 2 Linux Administration.
- 3 System Administration.



## **Certificate Course in Network Administration**





CEIT

Jishnu T U

Our Course

Things

Web Deve opment

Mobile Application

Rig Data

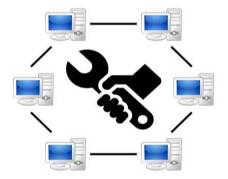
Database Administra

Infrastructure and Network Security

System Administration and Networking

Netw

I I Δpplications



- Computer Networking.
- 2 Network Administration.
- 3 Network Defense and Countermeasures.



## Certificate Course in Data Communication and Networking





CEIT

Jishnu T U

Our Course

Things

Mobile

Application

Database Administra

Infrastructure and Network

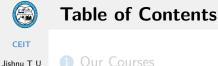
System Administration and

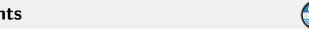
Networking

1T ^---!:--+:---



- Introduction to Networking.
- 2 Windows Server 2016.
- 3 Linux OS administration and configuration.









Infrastructure and Network Security

8 System Administration and Networking

Applications

IT Applications



## **Certificate Course in Software Testing**





CEIT

Jishnu T U

Our Course

Things

opment

Mobile Application

Database

Infrastructur and Network

System Administration and

i T

Applications



- Software Development Life Cycle.
- Software Testing Manual.
- 3 Software Testing Automation.



## **Certificate Course in Office Automation**





CEIT

Jishnu T U

Our Course

Things

Mobile

Application

Database Administra

Infrastructure and Network Security

System Administration and

IVELV

Applications



- Client Operating System (Windows 10, Ubuntu).
- MS Office 2016
- 3 Database Concepts
- 4 Database Management using MS access



## Certificate Course in Information Technology





CEIT

Jishnu T U

Our Course

Things

Web Deve opment

Mobile Applications

Database

tion

and Network Security

System Administration and

...

Applications



- Office Automation Tools.
- 2 Computer Fundamentals.
- 3 Communication using PC.
- Overview of Networking.
- **5** Database Concepts and MS Access.