GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
Department of Computer Science and Engineering

Ref. No.: CSE/07/637   Dated: 31/08/2023

<u>NOTICE</u>

A **"Value Added Course"** is being organized for B.Tech (CSE) students from 9th September, 2023 onwards.

Details are as follows:

Title: **"Next Generation IT Essentials"**

Session: Aug-Dec 2023

Mode: Online

Contents to be covered: Annexure Attached

Link for Registration: https://forms.gle/Hjt9qfMYMpEBu4C96

Expert: Mr. Shivam Gupta, IIT Ropar

For more information students may contact Prof. Supreet Kaur Assistant Professor, CSE Department.

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                                               HOD (CSE)

CC: Department Website

     Office Copy

     Department Notice Board

     Prof. Supreet Kaur

Annexure

Next Generation IT Essentials Course Layout

Duration: 1.5-hour lecture per week
Instructor: Shivam Gupta, Ph.D. Research Scholar, IIT Ropar, Punjab, India.
https://web2geeks.in

Week	Topic	Lecture/ Lab
1	Quick Recap to HTML, Need for HTML & CSS, JS	Lecture + Lab
2	Recap to PHP & Designing DB-connected login form	Lecture + Lab
3	Introduction to Server, DNS, Namespace, Web hosting and space, Cloud database etc	Lecture + Lab
4	Introduction to Web API and Containerization	Lecture + Lab
5	Containerization using Linux LXC, Amazon EC2 etc.	Lecture + Lab
6	Hosting website using Google sites	Lecture + Lab
7	Hosting website using Github pages, Introduction to Heuroko	Lecture + Lab
8	Hosting Login form on Webspace on Hostinger/MilesWeb	Lecture + Lab
9	Design API for ML model using Python (Flask)	Lecture + Lab
10, 11	Host ML model using Web API	Lecture + Lab
12	Designing a ChatBot using Google's Dialog API	Lecture + Lab
13	Learn about Amazon AWS Sagemaker, Ngrok and Google Geocoding	Lecture + Lab

Table 1: Next Generation IT Essentials week-wise course layout.