

## Registration Form

Faculty development program on  
**“INTERNET OF THINGS”**

Under the aegis of TEQIP-III,  
in association with  
**Uttarakhand Technical University,**  
Dehradun

**03 to 07 February 2020**

Name: .....

Qualification: .....

Department: .....

Organization: .....

Address for Correspondence: .....

.....

.....

Mobile: .....

Email: .....

Accommodation Required:

Yes  No

Declaration

I agree to abide by the rules and  
regulations of the FDP and shall attend  
for the entire duration.

Date.....

Signature of the Applicant

### Patrons

Prof. (Dr.) N.S.Chaudhari  
Vice Chancellor, UTU, Dehradun  
Mr. Sanjay Bansal  
Chairman, DBGI, Dehradun

### Co-Patrons

Prof. (Dr.) H.S. Bhadhauria  
Coordinators, TEQIP-III, UTU, Dehradun  
Prof. (Dr.) Manoj Kumar Panda  
State Administrator, SPIU, Uttarakhand  
Mr. Aman Bansal

Managing Director, DBIT, Dehradun

### Convener

Prof. (Dr.) Amit Aggarwal  
Nodal Officer Academics, TEQIP-III,  
UTU, Dehradun  
Prof. Pankaj Chaudhary  
Director (Academics), DBIT, Dehradun

### Organizing Committee

Dr. Amit Joshi  
Nodal Officer, Finance, TEQIP-III, UTU  
Dr. Ashish Bagwari  
Chairman Purchase Committee, TEQIP-III, UTU  
Mr. Vivek Kumar Nodal Officer, Procurement,  
TEQIP-III, UTU, Dehradun.  
Dr. Amit Bhatt, Director, DBIMS, Dehradun.  
Dr. Jhuma Samanta, Director, DBIPR, Dehradun.  
Dr. Manish Mathur, Registrar, DBIT, Dehradun.  
Mr. Subhashish Goswami,  
Dean Academics, DBIT, Dehradun.  
Mr. Mukesh Rajput, DBIT, Dehradun  
Mr. Rohit Kanauzia,  
MIS Officer, TEQIP-III, UTU, Dehradun.  
Ms. Neha Pradhan,  
Procurement Assistant, TEQIP-III, UTU, Dehradun.  
Mr. Sidharth Kumar, Financial Assistant,  
TEQIP-III, UTU, Dehradun

## Five Days Faculty Development Program on “INTERNET OF THINGS”

under the aegis of  
TEQIP-III in association with  
Uttarakhand Technical University, Dehradun



**03 to 07 February 2020**



**Organized by:-  
Dev Bhoomi Institute of Technology**

(Affiliated to Uttarakhand Technical University, Dehradun)

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## About:

**Dev Bhoomi Group of Institutions, Dehradun, Uttarakhand** situated in the land of Gods, has stood true to its name and pledged to provide a world-class education and best possible facilities to its students. With the tenacity to step in the education industry and constant perseverance, today DBGI is amongst the top Institutions, with multifaceted regimes and courses. Dev Bhoomi Group of Institutions, Dehradun took its first steps in the world of education as Engineering College in Dehradun (DBIT). Subsequent to its commencement in the year 2005, the growth chart of the Institute has been phenomenal. The Institute provides the perfect blend of theoretical and practical knowledge. It is through its perseverance and positive response from its students that DBIT is now amongst one of the best Engineering Colleges in Uttarakhand.



## Objective and Outcomes of the FDP

- To provide a forum to exchange views, ideas & the latest innovations in the field of **INTERNET OF THINGS**.
- To offer learning on basics, emerging trends & challenges in the field of **INTERNET OF THINGS**.
- To improve faculty's ability in carrying out research, testing & consultancy in the area of **INTERNET OF THINGS**.
- To introduce **INTERNET OF THINGS** and to provide opportunities to further widen the knowledge and to pursue research.

## COURSE CONTENT

### DAY 1:

Revisiting python and Introduction of IOT

- Revisiting python
- List and dictionary comprehension
- What is internet?
- What is IOT
- The technology "internet of things"
- Usefulness of IOT
- Professional benefits
- Application of IOT
- New and upcoming

### DAY 2:

Getting started with Raspberry pi

- Introduction to Raspberry Pi
- Introduction to NOOBS/ RASPBIAN
- Features of Raspberry Pi 3 B+
- User manual and Software distribution
- Installing and starting Raspberry Pi

### DAY 3:

The "**THINGS**" Explanation

- Embedded system
- Input and output devices
- Analog and digital sensors
- Actuators
- Motors, IR sensors
- Temperature sensor
- LDR, Relay
- Water level indicator
- LCD, 7- segment, DHT

### DAY 4:

Practical on "**THINGS**" with Raspberry pi

- Blinking led using Raspberry pi
- Blinking and glowing multiple patterns of LEDs
- Driving motors and controlling the directions of motors
- LCD display, printing names and value on display
- IR sensors, working and interfacing with RPI.
- Variable distance calculations and displaying it on LCD

### DAY 5:

Getting started with pi camera

- Interfacing camera with Raspberry PI
- Basic commands to click photos using terminals

**For more details**

**Call at 18001034049, 9456113666**

**Visit : [www.dbgidoon.ac.in](http://www.dbgidoon.ac.in)**