



Recourse Persons: Nikhil B. Shah (VP, Business Development, Strategy, Predikly).He is expert in Artificial Intelligence, Machine Learning/Deep Learning, Internet Of Things, Data Science, Big Data, Cloud Databases , Python and 2G to 5G Mobile Architectures. He is having more than 20 years of experience in the leading companies like Bell Labs, ISRO, TCS, Zeitnet, Nokia, Ericsson and IBM to name a few.

**Eligibility for Participation:** Faculty Members from Engineering Colleges/MCA Institutes, PG and PhD Research Scholars from GTU affiliated Institutes.

**Lodging, Boarding and Travel:**

- There is 500Rs (Refundable) registration fee for the participants.
- Accommodation will be provided to the participants (if specified in the registration form). No Separate Accommodation allowances will be provided.
- TA will be provided as per GTU Norms.

**Registration:**

- Deposit INR 500(Refundable) in the Account.
- Apply for the Registration on the Following Link:  
<https://goo.gl/forms/dBabGN3BqRX4k2P93>
- Send a soft copy of NEFT transaction receipt or the scanned copy of the cheque to the e-mail [monicagahlawat517@gmail.com](mailto:monicagahlawat517@gmail.com) for confirmation.

**No. of Seats:** First come First Serve Basis

**Bank Details:** L.J Institute of Computer Applications  
Bank Name: Axis Bank. Branch: S.G Highway  
A/C No 297010100020244  
IFSC : UTIB0000297

**Venue:** L.J Institute of Computer Applications, Between Sarkhej Circle & Kataria Motors, S.G. Road, Ahmedabad, Gujarat 382210

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**AICTE-GTU Jointly Sponsored  
Faculty Development Programme**

*on*

**Cloud Based Web Application  
Development using Python**

**(Django + MongoDB)**

**[March, 15<sup>th</sup> – 20<sup>th</sup>, 2019]**

**Prof.(Dr.)Navin Sheth**  
Chief Patron(Vice Chancellor)  
Gujarat Technology University

**Dr.J.C.Lilani**  
Convener ( Registrar (I/C) )  
Gujarat Technology University



*Organized by*  
**L. J Institute of Computer Applications,  
Ahmedabad – 382210.  
GUJARAT**

## About LJMCA:

L.J Institute of Computer Applications Ahmedabad, is affiliated to Gujarat Technological university was founded in 2004. This institute is recognized by All India Council of Technical Education (AICTE), New Delhi. The Institute has been rendering remarkable services in the field of technical education in Gujarat, by offering an integrated package of high quality education and training.

The Institute is committed to create an ambience for nurturing innovation, creativity and excellence among the students. It spares no effort in achieving its goal of giving the nation, the sincere, truly dedicated, and well trained IT professionals who would be the leaders of tomorrow.

## About Cloud Based Web Application Development using Python(Django + MongoDB)

Cloud computing is a term that has gained widespread use over the last few years. With the exponential increase in data use that has accompanied society's transition into the digital 21st century, it is becoming more and more difficult for individuals and organizations to keep all of their vital information, programs, and systems up and running on in-house computer servers. Cloud-based applications and data are accessible from virtually any internet-connected device. Developing in the cloud enables users to get their applications to market quickly. Hardware failures do not result in data loss because of networked backups.

Compared to programming languages like Java and PHP, Python provides an efficient programming structure. Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together. Python's simple, easy to learn syntax emphasizes readability and therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python

interpreter and the extensive standard library are available in source or binary form without charge for all major platforms, and can be freely distributed. The developers answer for Python and Django, when it comes to developing large-scale applications.

## Course Content:

### Python:

- An Introduction to Python, Basic Python Syntax
- Language Components, Collections, Functions
- File I/O ,Modules , Classes in Python
- Regular Expression ,Database Access

### Django Framework

- Introduction to the Framework
- Models, URLs, Views
- Get & Post
- Forms, Admin
- Templates, Authentication
- Internationalization, Security

### Mongo DB

- Mongo DB Data Modeling
- Create database, insert, query
- Delete, update, limit

## Deployment Examples

**Certificates:** Certificates will be provided to the participants who will pass the assignments.

## Objectives:

The Objective of the FDP is to promote awareness and disseminate use and development of web application using python programming for faculty and researchers of MCA/ Engineering (ICT/CE/IT) by hands-on sessions. The learning outcomes includes enhancing the knowledge and skills of the faculties in state of art technologies in Computer Science /Engineering domain to inculcate the Professional ethics, values and competencies. The FDP will help the faculty members to provide guidance to the students to adopt to the changes in the Curriculum via-a-vis Industry needs.