

Registration Form

Short Term Training Program On Application of Artificial Intelligence in Engineering

09th December- 14th December, 2019

Name: _____

Designation: _____

Institute/Organization: _____

Address: _____

City: _____

Mobile: _____

E - Mail: _____

I am enclosing the demand draft in favor of
"Principal, C.S. Patel Institute of Technology-
Changa" payable at Anand as registration fees.

Fee Details:

Academia Student

Industry/R&D Organizations

Amount: _____ Demand Draft No: _____

Bank and Branch: _____ Date: _____

Date: _____ Signature of Participant

Seal and Signature
of Head of Institution

Chief Patron

Shri Surendra Patel, President, CHARUSAT
Dr. M. C. Patel, Secretary, CHAMOSPKM
Dr. Pankaj Joshi, Provost, CHARUSAT

Patron

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Chandubhai S. Patel Institute of Technology

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Convener

Dr. Nilay Patel (M): 9825548275
HOD EE

Coordinator

Jigar Sarda (M): 7567702409
Mihir Patel (M): 9723315488

Co-Coordinators

Jignesh Patel (M): 9978794997
Ankur Patel (M):

Correspondence

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M&V Patel Department of Electrical Engineering

Chandubhai S. Patel Institute of Technology

(A Constituent Institute of CHARUSAT)

Organizes

Short Term Training Program

On

Application of Artificial Intelligence in Engineering

09th December- 14th December, 2019

In association with:



**Charotar University of Science
and Technology**

Changa - 388421,

Dist: Anand,

Gujarat

About The University

CHARUSAT is promoted by Shri Charotar Moti Sattavis Patidar Kelvani Mandal. It is established under Gujarat Act No. 8 of 2009, Govt. of Gujarat and recognized to award degrees as specified by UGC under Section 22 of UGC Act 1956. The university campus is sprawling over 105 acres of lush green landscape with ultra-modern facilities for teaching, learning, research, sports, healthcare, student housing, food, banking, transportation etc. CHARUSAT currently offers professional education in Engineering, Pharmacy, Computer Application, Business Management, Applied Sciences, Physiotherapy and Nursing.

About The Institute

CSPIT is a pioneer institute of CHARUSAT. The institute offers UG, PG and PhD programs in EE, ME, CE, IT, EC and Civil Engineering. The institute is established with a view to promote excellence in engineering education and to prepare the young talent to meet challenges of engineering and technology.

About The Department

Department of Electrical Engineering offers UG, PG (Power System and Power Electronics) and PhD programs. It is equipped with high-tech laboratories for power system protection, electrical machines, PE & Drives, high voltage, PLC & Instrumentation and DSP. The department is also having a simulation lab with the highly professional software such as Power Factory, CYME, MI Power, PSCAD, MATLAB/Simulink, PSIM, PSPICE and SKM Power Tool.

Objective

At the end of the program, the participants will be able to:

- Understand and choose the good AI model for their different analysis

- Analyse mathematically / simulate such system problems and appreciate the existing innovative solutions.
- Apply the knowledge / offer solutions for modern power grid issues
- Develop real world applications using Artificial Intelligence and Machine Learning

Course Content

The electricity is the most essential and vital ingredient for the growth of the nation in the social, industrial, commercial, and agricultural sectors. The Indian Power Sector has taken a quantum leap in electricity generation and has reached to capacity of 300 GW. The reforms, restructuring of power sector and private participation are all the outcomes of the Electricity Act 2003. They lead to improved quality and reliability of power supply and satisfy the ever-increasing demand for electrical energy consumption. Nowadays, the existing electrical power grid, which is fitted largely with 20th century infrastructure, is transformed to 21st century standards to create greater efficiencies, reliability and the integration of renewable energy sources. This transformation of the electrical grid is named as "Smart Grid". Smart Grid is a novel and innovative model for the utility grid, with a vision towards operation and control of the power system as efficiently as possible. Artificial intelligence (AI) is to provide rationale human intelligence to the computing machines. This transformation of intelligence is carried out through intensive learning and reasoning with massive data. Today's, AI is used for good decision making in small scale to large scale industries. There is a need to enhance the skills of the youths/professionals in the area of AI. The primary objective of the AI STTP is to provide participants with understandings of various methodologies, techniques and tools related to Artificial Intelligence and Machine Learning. The AI STTP will bring together experts from various

domains to explore the current state of the art applications in Artificial Intelligence and Machine Learning, approaches for developing Artificial Intelligence and Machine Learning technologies for various domains. The mode of delivery would be the chalk-board, presentations and hands-on simulations. The eminent professors, researchers, designers and engineers contributing in these areas will deliver the lectures during the program and share their experience and expertise with the participants. The course will benefit to the participants from academics, R&D institutions, utility engineers, research scholars and students.

Registration Fees

Research Scholars/Students	Rs. 750/-
Academia	Rs. 1000/-
Industry/R&D Organizations	Rs. 1500/-

The registration fees for the participation include the charges for lecture notes, refreshment and lunch. All payment should be made by a demand draft drawn in favor of "Principal, C.S. Patel Institute of Technology, Changa", payable at Anand. The completed registration form duly forwarded by the Head of the Institution, accompanied by the demand draft should reach the course coordinator on or before **04th December, 2019**.

Important Dates

Last date of receiving application : 04/12/2019
Notification about selection: 05/12/2019

Accommodation

Registration fee does not cover the travel and accommodation charges. The accommodation can be arranged on payment basis by informing coordinators in advance up to 06/12/2019.