

About BBSBEC

Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab was established in the year 1993, under the patronage of Shiromani Gurdwara Prabandhak Committee (SGPC), Sri Amritsar, with the approval of Government of Punjab. The college is approved by A.I.C.T.E., New Delhi, Ministry of HRD, GOI and is affiliated to I.K. Gujral Punjab Technical University, Jalandhar. The college has earned third time accreditation from the NBA and International Accreditation Organization (IAO) for various programmes. BBSBEC has also been accredited by the Institution of Engineers (India).

About IEI

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with the headquarter at Gokhale Road, Kolkatta -700020, IEI has served the engineering fraternity for over nine decades. In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded by this honour, remarkably for longer period of time. IEI functions amongst professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to government, Industries, Academia and the Engineering fraternity, operating from 121 centres located across the country. The institution provides grant-in-aid to its members to conduct research and development on engineering subjects.

Deep Learning

Deep learning is a fastest - growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. It features the development of complex, multi-layered algorithms based on Deep Neural Networks (DNN) to achieve critical breakthroughs in object recognition, facial recognition, and image/voice/speech recognition, as well as machine translation, Big Data analytics and natural language processing. The transformative impact of Deep Learning technology affects every industry, from security and social media to retail, finance and IoT (Internet of Things).

Theme

Overall theme of this workshop is to create awareness among faculty members about recent trends in research and also to create foundation of deep learning algorithms using various tools, where they can apply deep learning to solve real world problems. The proposed FDP introduces fundamental concepts of Machine Learning and Deep Learning. It covers an overview of machine learning and Deep Learning algorithms and their applications. The training comprises of a series of lectures and practical exercises. The participants obtain deep insights of machine learning, which in turn helps them to apply it in practice or as a foundation to a deeper study in this area. The duration of this workshop will be two days, with three sessions of two hour each.

Experts from Academia and Industry will be invited for delivering the lectures. Hands on experience and practical on basic and advanced topics will be conducted.

Course Contents

- Machine Learning: Introduction
- Supervised Vs Unsupervised Learning
- Linear Regression, Decision Trees, KNN
- Bayesian Networks, SVM
- Clustering: K Means
- Introduction to Deep Learning
- Feed Forward Neural Networks
- Back Propagation, Computing Gradients
- Principal Component Analysis
- Convolutional Neural Networks
- Recurrent Neural Networks
- Difference Between Statistical modeling, Machine learning and Deep Learning
- Hands on session using R, Python and other tools.

Important Dates:

Last Date of Online Submission: **8 July 2019**

Online Submission Links:

Scanned Registration Form and Demand Draft needs to be sent on:

Email Id: fdp.cse@bbsbec.ac.in

Registration Fees:

Academicians and Research Scholars:	Rs.500
IEI Corporate Members	: Rs.250
BBSBEC Faculty:	: Rs.250
Students:	: Rs.200
Students (IEI Chapter Members)	: Rs 100

Mode of Payment:

Demand Draft in favour of Principal, BBSBEC, Fatehgarh Sahib payable at Fatehgarh Sahib

BABA BANDA SINGH BAHADUR ENGINEERING COLLEGE, FATEHGARH SAHIB (Pb)



Organizes Workshop on
**Practical Approach Towards
Deep Learning**
(11-12 July, 2019)



Sponsored By: **Institution of Engineers (India)**

Organized By: **Department of CSE, BBSBEC, Fatehgarh Sahib**

REGISTRATION FORM

PARTICULARS OF THE APPLICANT		Recent passport size photograph
1.	Name (Dr./Mr./Ms.)	
2.	Designation	
3.	Institute/Organization (tick please)	Academic/ Industry/ R&D/ Student
4.	Highest Qualification	
5.	Mobile No. & Email-id	
6.	Fees Paid	
7.	Pursuing (B.Tech/M.Tech/PhD)	
8.	Accommodation required (Y/N)	
OFFICIAL ADDRESS (with website)		COMMUNICATION ADDRESS

Place: _____

Date: _____

It is certified that in case the applicant is selected for the workshop, (S)He shall be definitely attending the program

Date: _____

(Signature & Seal of Sponsoring Authority)

National Advisory Committee

Chairman :Mr. T.M. Gunaraja, President, elect IEI
Co-Chairman I :Mr N.P. Singh Brar, FIE, Chairman, CPBD, IEI
Co-Chairman II:Prof. (Dr.) T.S. Kamal, FIE
Members :Mr B S Patel, FIE, Member , CPDB,IEI
 Mr K Rajanikat, FIE, Member, CPDB, IEI
 Mr Timothy Dkhar, FIE, Member, CPDB, IEI

Organizing Committee

Chairman :J.R Garg, Chairman IEI Punjab & Chandigarh, State Centre ,FIE
Co-Chairman :Major General Dr. G.S. Lamba, Principal, BSBE, Fatehgarh Sahib
Org. Secretary : Er. S.S Mundi, FIE
Convener :Dr. Baljit Singh Khehra, HoD, CSE Deptt, BBSBEC, Fatehgarh Sahib
Co-Convener :Er. Khyati Marwah, BBSBEC, Fatehgarh Sahib

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 Er. Rupinder Saini, BBSBEC, Fatehgarh Sahib

For any Queries

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The Institution of Engineers (India)

**99 years of Relentless Journey towards
Engineering Advancement for Nation Building
Jointly with**

**Baba Banda Singh Bahadur Engineering College,
Fatehgarh Sahib
Organizes**

**All India Workshop
on**

**Practical Approach towards Deep
Learning**

July 11-12 ,2019

CSE Department - Seminar Hall

**Baba Banda Singh Bahadur Engineering College
Fatehgarh Sahib**



Sponsored by

**Institution of Engineers (India)
Punjab and Chandigarh State Centre**

Organised by

CSE Department, BBSBEC, Fatehgarh Sahib