About the Institute

Punjab Engineering College (PEC), originally established as Mugalpura Engineering College in 1921 in Lahore, later relocated to its present campus in 1953 and became affiliated with Panjab University. It attained Deemed University status in 2003, was renamed PEC University of Technology in 2009, and reverted to its original name, Punjab Engineering College (Deemed to be University), in 2017. Administered by the Union Territory of Chandigarh, Government of India, it shares its 146-acre campus with Chandigarh College of Architecture and follows academic and administrative processes similar to IITs in India.

PEC offers 8 undergraduate B.Tech programmes and 13 postgraduate M.Tech programmes across various engineering and technology disciplines. Since obtaining university status, PEC has introduced Ph.D. programs spanning engineering, science, management, humanities, and social sciences. Admissions to UG and PG programs are based on national-level examinations, specifically JEE (Mains) and GATE, respectively.

About the Department

The globalization of the Indian economy has created significant opportunities for the computer software and hardware industry. The Department of Computer Science and Engineering at PEC plays a pivotal role in producing highly skilled software engineers. The department focuses on fostering innovation and providing a comprehensive education to excel in the growing software sector. Experienced faculty members deliver a rigorous curriculum, emphasizing hands-on training and personal development. The programs are designed for close industry interaction, reflected in the high demand for department graduates. Alumni from the department have found success in companies like MICROSOFT and SEAGATE in the US. The continuous development of the curriculum and close ties with the industry ensure that students are well-prepared for the dynamic challenges of the software and hardware sector.

Patron

Dr. Baldev SetiaDirector, PEC

Chairman

Dr. Trilok ChandProfessor and Head, CSE, PEC

Coordinator

Dr. Padmavati, Associate Professor, CSE, PEC

Email: padmavati@pec.edu.in Contact No: 9417689170 (M), 01722753856 (O)

Co-Coordinator

Dr. Sudesh Rani, Assistant Professor, CSE, PEC Email: sudeshrani@pec.edu.in

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AICTE Training and Learning (ATAL) Academy sponsored







6 Days
Faculty Development Programme
(FDP) on

Deep Learning: Fundamentals and case studies in Healthcare (Physical Mode)

08.01.2024 to 13.01.2024

Coordinator Dr. Padmavati Associate Professor, CSE

Co-Coordinator Dr. Sudesh Rani Assistant Professor, CSE



Organized by

Dept. of Computer Science and Engineering Punjab Engineering College (Deemed to be University), Chandigarh – 160012

> Phone: 0172 2746074, 2753051 Website: www.pec.ac.in

About ATAL Academy

The AICTE Training And Learning (ATAL) Academy, established by the All India Council for Technical Education (AICTE), is a specialized institution dedicated to enhancing the knowledge and skills of faculty members, research scholars, and students in the field of technical education. ATAL Academy offers a wide range of faculty development programs in various contemporary technology areas. These programs are designed to keep educators and learners updated with the latest advancements in technology and to foster innovation and research in technical education. The academy conducts numerous programs in collaboration with government institutions, benefiting a significant number of participants each year. It plays a pivotal role in elevating the quality of technical education and research in India by providing access to cutting-edge knowledge, resources, and expertise. ATAL Academy is a valuable resource for those seeking to stay at the forefront of technological advancements and contribute to the growth and excellence of technical education in the country.

Objective of FDP

The Faculty Development Programme is designed to offer participants an extensive overview of deep learning fundamentals, tools and techniques that are critical in solving problems in deep learning domains. This course is tailored to provide an insight into the latest research trends in healthcare applications using deep learning techniques. Participants will be exposed to a wide spectrum of topics, encompassing the multiclass classification of Parkinson's disease, Cancer cell classification, the categorization of mandibular fractures based on radiograph images, the detection of schizophrenia through MRI analysis, predictive analytics for epileptic seizures, and more. The participants will also have a wider perspective to security and privacy issues in healthcare applications. The Faculty Development Programme offers an invaluable opportunity for participants to expand their horizons and contribute to the cutting-edge advancements in healthcare and deep learning.

Topics Covered but not limited to:

The major topics to be covered (though not limited to) are as follows:

- Fundamentals of Deep Learning
- Current research trends in deep learning
- Data pre-processing techniques
- Epileptic seizure prediction and detection
- Classification of various disease such as, Parkinson's, cancer etc. using deep learning
- Applications of deep learning in dentistry
- Detection of autism disorder using deep learning
- Voice disorder detection using deep learning
- Identification of disease such as cancer, Schizophrenia etc. using deep learning.
- Security and privacy issues in healthcare applications
- Hands-on lab sessions on various case studies

Resource Persons

Resource persons are from reputed institutes, software industries and R & D organizations. Some key speakers are:

Dr. Trilok Chand Aseri, PEC

Dr. Rajesh Bhatia, PEC

Dr. Satish Kumar, Chief Scientist, CSIO, Chandigarh

Dr. Sateesh K Peddoju, IIT Roorkee

Dr. Sudarshan Iyengar, IIT Ropar

Dr. Neelesh Kumar, Sr. Principal Scientist, CSIO, Chandgiarh

Dr. Banumathy Nagamani, PGIMER, Chandigarh

Dr. Manoj Jaiswal, PGIMER, Chandigarh

Dr. Neelam Goel, UIET, Panjab Univeristy

Dr. Tanu Wadhera, IIIT Una

Mr. Rahul Sharma, Microsoft Pvt. Ltd

Dr. Ashima Khosla, CDAC

Dr. Jinee, TIET Patiala

Who should Attend

The faculty members of the AICTE approved institutions, research scholars (PhD. and PG students), participants from Government and industry etc.

There is no Registration fee from any participant (Max. 100 participants). The participants will be selected on first come, first serve basis. Further, Certificate will be provided to the participant after successful completion of the training program with at least 80% attendance and Continuous Comprehensive Assessment.

How to Apply

Login to AICTE ATAL Portal and register as participant by visiting: https://atalacademy.aicte-india.org. After registering as participant, choose this program from the list of workshops.

Organizing Committee

Dr. Rupali Syal, CSE

Prof. Alka Jindal, CSE

Dr. Poonam Saini, CSE

Dr. Sandeep Harit, CSE

Dr. Shilpa, CSE

Prof. Mayank Gupta, CSE

Prof. Amandeep Kaur, CSE

Dr. Manish Kumar, CSE Dr. Satnam Kaur, CSE

Dr. Kanu Goel, CSE

Dr. Nitin Kumar, CSE

Contact Details

For any queries regarding this programme,

Please contact:

The Coordinators, ATAL FDP

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