PRINCETON INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to JNTU, Hyderabad)
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Counseling Code PETW

Princeton's Tabloid

e News Letter

(Vol 1, No 2)

MAY-JUNE 2020

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Edited by The Team Members of PETW

About the College:

Princeton Institute of Engineering and Technology for Women (PETW) was established in 2009 under the stewardship of **Dr S Prabhakar Rao**, a great educationalist with excellent dedication towards value based education system. His vision is to provide quality education to the poor and rural based girl students.

The college is located close to the Uppal X roads and spread in the sprawling campus with state of art laboratories, play ground, digital library and hostel located in the campus.

The college offers 6 B Tech Courses: Computer Science and Engineering (CSE), Electronics and Communication Engineering(ECE), Civil Engineering(CIVIL) CSE-AI&ML,CSE-Data Science and CSE-Cyber Security

College also runs the second shift Polytechnic Courses in Computer Science and Engineering(CSE), Electronics and Communication Engineering(ECE), Civil (CIVIL) and Electrical Engineering (EEE) streams. Experienced and qualified faculty will show special attention on every individual student's academic and overall growth.

The placement cell of the college is very active and organizes regular training activities and conducts mock interviews to students. The literary club will always be in the forefront to encourage the student to develop their English communication skills from first year onwards

Dr S Prabhakar Rao, Chairman of the Vagdevi Educational Society is the man behind the success of Princeton Institute of Engineering and Technology for Women .Other institutions run under the aegis of Vagdevi educational Society are Princeton Degree and PG College, Princeton PG College of Information Technology, Princeton Pharmacy College, Princeton PG College of Management located at Ramantapur, Hyderabad

Message by the Chairman

It is my great pleasure to extend heartfelt greetings to the readers of the second issue of the e-Newsletter of Princeton Institute of Engineering and Technology for Women(Princeton's Tabloid). Thanks to the medical community and the government of Telangana who took serious steps to control the spread of Covid19 virus in our state. I am happy to inform that AICTE has sanctioned 3 new B Tech courses in Artificial Intelligence, Data Science and Cyber Security from the AY 2020-21.

Although the newsletter format is limited in the amount of in-depth information it can provide, we will make every effort to describe briefly, our latest achievements in different areas of science & Engineering. I Congratulate the Principal, Editor and the team for bringing this e news letter successfully.

Message by the Principal

Kudos to all frontline warriors who are the main pillars to control the spread of Covid19 in the state of Telangana. The second edition of college e- newsletter, Princeton's Tabloid will ignite hidden talents of our students. I congratulate all the students who participated in co curricular

and extra curricular actives along with regular involvement in academics successfully. I appreciate the efforts of staff members for bringing the first edition of e newsletter successfully. Hopefully the forthcoming issues will bring more achievements.

New Courses:

Three New Courses (CSE in Artificial Intelligence, CSE in Cyber Security and CSE in Internet of Things) were sanctioned by All India Council for Technical Education AICTE, New Delhi from the academic year 2020-21

Webinar on Cyber Security

Principal, Staff and students of CSE have attended a webinar on Rethinking Cyber Security in the Digital Era on 5th May 2020.

AI&DS

Free Trail run was conducted on Artificial Intelligence and Data Science organized by University of Texas on 9th May 2020

Webinar

A Webinar was organized by SRM University, Amaravati, Andhra Pradesh (Topic: **Post COVID - 19 Resurgence of Indian Industry and R & D)** on 15th May 2020. The Chairman and Principal of PETW have attended the Webinar.

Awareness Program

An awareness Program was organized by the College on the Importance of the New Courses introduced in B Tech Courses. The Chairman and Principal have few invited few academicians to the college(Few Principals of Intermediate Colleges and Technocrats) and explained about the role of these subjects in the present industry and a two page brochure(written in English and Telugu) was released by the chairman(19th May 2020).

IETE webinar

Principal and staff of PETW have attended a webinar on Future of Artificial Intelligence , organized by IETE on 20th May 2020.

IETE Webinar

A webinar was organized by IETE on Development of Deep Learning on 25th May 2020 and Staff and students have attended the webinar

Admissions Meet

A meeting was organized by the Chairman on the procedure to be adopted to invite meritorious students to PETW. The Principal, Vice Principal and Heads of CSE,ECE,Civil,EEE and H&S were present (2nd June 2020)

MOU Proposal

Fruitful discussion was held between the Principal of PETW and a city based Electronic Company on 12th June 2020 to have a collaboration between the college and the company.

Webinar

A webinar was organized by IETE on Machine Learning concepts on 20th June 2020. The Principal and HOD have attended the webinar.

Membership with engineergirl

Students of Princeton Institute of Engineering and Technology for Women have completed registrations with a voluntary organization (engineergirl) run by Women entrepreneurs of US and Caneda (27th June 2020).

MOU work

A meeting was held on 30th June 2020 at Ayyappa Society, Hyderabad to sign MOU with an IT based Company. The Principal of PETW and the representatives of the company were present

Staff Achievements/Articles

Under the guidance of the Principal of PETW, a research scholar has been awarded with PhD in CSE by the Madhya Pradesh based deemed to be university

Deep Learning

Dr. G. Arul Dalton
Professor

The term"Deep learning" is an AI function that mimics the workings of the human brain in processing data for use in decision making.

Deep learning, a machine learning subset, can be used to help detect fraud or money laundering.

Deep learning is a subset of machine learning in artificial intelligence (AI) that has networks capable of learning unsupervised from data that is unstructured or unlabeled. Also known as deep neural learning or deep neural network.

Deep learning has evolved an explosion of data in all forms and from every region of the world hand-in-hand with the digital era .This data known simply as big data, is drawn from sources like social media, internet search engines, e-commerce platforms, and online cinemas, among others. This enormous amount of data is readily accessible and can be shared through fintech applications like cloud computing.

Deep learning starts with Artificial Intelligence

An Artificial Intelligence involves certain mental exercises composed of the following activities:

Learning: Having the ability to obtain and process new information.

Reasoning: Being able to manipulate information in various ways.

Understanding: Considering the result of information manipulation.

.3. **Analytics & Grasping truths**: Determining the validity of the manipulated information.

Seeing relationships: Divining how validated data interacts with other data.

Considering meanings: Applying truths to particular situations in a manner consistent with their relationship.

Separating fact from belief: Determining whether the data is adequately supported by provable sources that can be demonstrated to be consistently valid.

However, the data, which normally is unstructured, is so vast that it could take decades for humans to comprehend it and extract relevant information. Companies realize the incredible potential that can result from unraveling this wealth of information and are increasingly adapting to AI systems for automated support.

Deep learning, a subset of machine learning, utilizes a hierarchical level of artificial neural networks to carry out the process of machine learning. The artificial neural networks are built like the human brain, with neuron nodes connected together like a web. While traditional programs build analysis with data in a linear way, the hierarchical function of deep learning systems enables machines to process data with a nonlinear approach.

A traditional approach to detecting fraud or money laundering might rely on the amount of transaction that ensues, while a deep learning nonlinear technique which include time, geographic location, IP address, type of retailer and any other feature that is likely to point to fraudulent activity.

The first layer of the neural network processes a raw data input like the amount of the transaction and passes it on to the next layer as output. The second layer processes the previous layer's information by including

additional information like the user's IP address and passes on its result.

The next layer takes the second layer's information and includes raw data like geographic location and makes the machine's pattern even better. This continues across all levels of the neuron network.
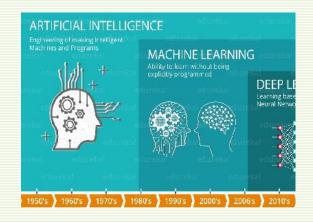

Figure:Deep Learning – AI Technologies Timeline