

# A QUARTERLY IN-HOUSE NEWSLETTER BY THE DEPARTMENT OF ECE OF



**B.P. Poddar Institute of Management and Technology**

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Editor In Chief: Ms. Rashmita Mishra



## Vision of the Department:

Emerge as one of the premier departments for Electronics and Communication Engineering studies in West Bengal

## Mission of the Department:

1. Imparting innovative educational program through laboratory and project-based teaching-learning process for meeting the growing challenges of industry and research.
2. Providing an inspiring and conducive learning environment to prepare skilled and competent engineers and entrepreneurs for sustainable development of the society.
3. Creating a knowledge centre of advance technologies committed to societal growth using environment-friendly technologies.



*"An expert is a person who has made all the mistakes that can be made in a very narrow field."*

-Niels Bohr

(7th October 1885 -18th November 1962)



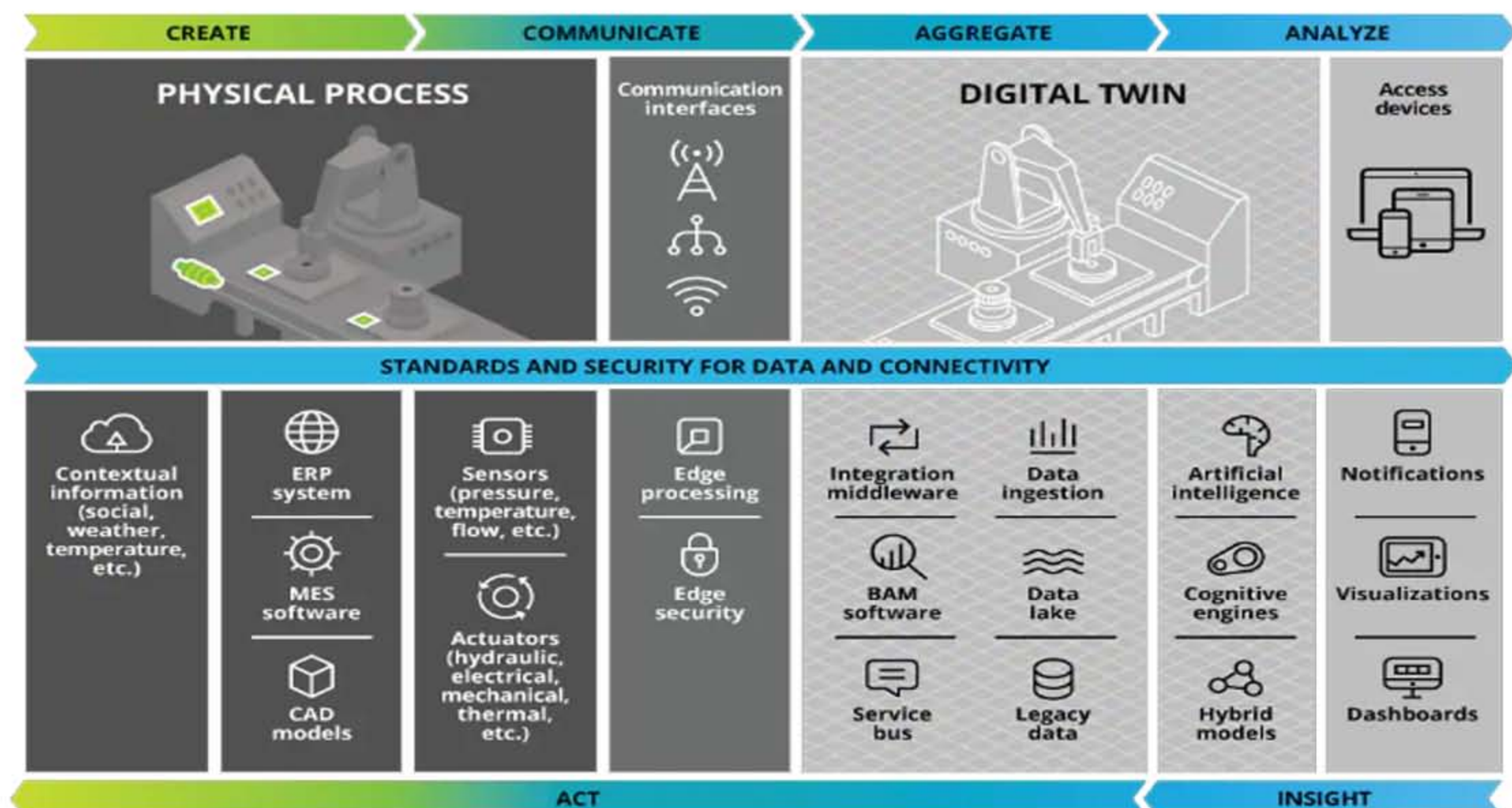
# TECH TRENDS

## DIGITAL TWINS

A digital twin is a digital representation that mirrors a real-life object, process or system. Digital twins can also be linked to create twins of larger systems, such as a power plant or city. The idea of a digital twin is not new. It goes back to computer-aided design representations of things or online profiles of customers, but today's digital twins are different in four ways:

- 1) The robustness of the models, with a focus on how they support specific business outcomes.
- 2) The link to the real world, potentially in real time for monitoring and control.
- 3) The application of advanced big data analytics and AI to drive new business opportunities.
- 4) The ability to interact with them and evaluate "what if" scenarios.

The focus today is on digital twins in the IoT, which could improve enterprise decision making by providing information on maintenance and reliability, insight into how a product could perform more effectively, data about new products and increased efficiency. Digital twins of an organization are emerging to create models of





# RECENT EVENTS

## SCHOOL AWARENESS PROGRAM (SAP)

The School Awareness Program (SAP) is an initiative taken by the students of the Department of Electronics and Communication Engineering and SPIE Student Chapter, BPPIMT, to spread awareness among school students about the growth, need and development of technology as a whole through the fields of science and engineering.

A School Awareness Program on 'Elementary Electronics, Embedded System and Robotics', was organised by 3 of the SPIE student chapter members of BPPIMT: Rudra Nath Palit , Sanchari Saha , Shambik Ghosh at I. P. Memorial School, Howrah on November 10, 2017.



# UPCOMING EVENTS

## SPIE ORIENTATION PROGRAM

The SPIE Orientation Program is an induction program that welcomes the newly joined students of the Department of Electronics and Communication Engineering to the SPIE Student Chapter, BPPIMT.

The SPIE Student Chapter began in 2010 with just 20 students since then the chapter has seen enormous growth in student participation. The SPIE Student Chapter, BPPIMT will be organizing its orientation program in the coming months to induct new members into the chapter.

This program also discusses the various activities that the SPIE Student Chapter does over the year.



# ABHIGYAN

The SPIE Student Chapter in association with the Department of Electronics and Communication Engineering will be organizing its annual technical quiz 'Abhigyan' on the 24th of February, 2018.

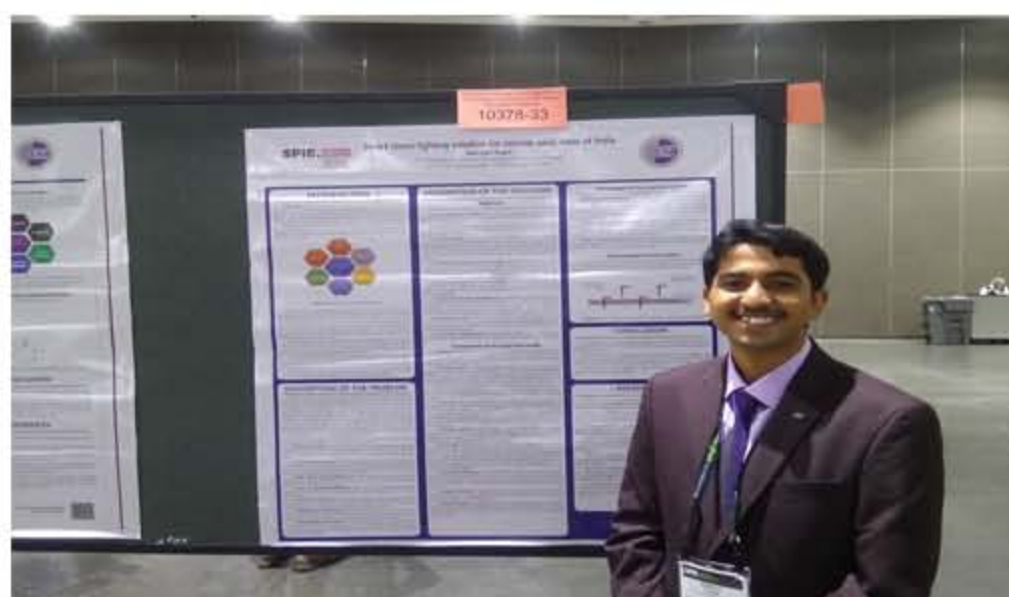
Abhigyan is a technical quiz in which all the students of BPPIMT participate. 100's of team compete in this technological quiz showcasing their technological knowledge.

## ACHIEVEMENTS & AWARDS

1) Dr. Surajit Mandal, Associate Professor, Department of Electronics and Communication Engineering, BPPIMT received Teacher of the Year 2017 Award by Maulana Abul Kalam Azad University of Technology on 5th September 2017.



2) Mr. Debdyut Hazra (ECE-A, 4<sup>th</sup> year) presented a paper at the 'International Conference on Solid State Lighting and LED-based Illumination Systems' in San Diego, USA on 6<sup>th</sup> September 2017. His paper was based on Smart street lighting solution for remote rural areas of India and Universal fixture for body mounted LED lights.



Faculty Editorial Board: Ms. Rashmita Mishra, Dr. Vedatrayee Chakraborty, Ms. Susmita Biswas

Student Editorial Board: Shirsho Dutt (ECE-B, 2nd Year), Anisha Palit (ECE-A, 2nd Year)