D Y PATIL
UNIVERSITY
PUNE, AMBI

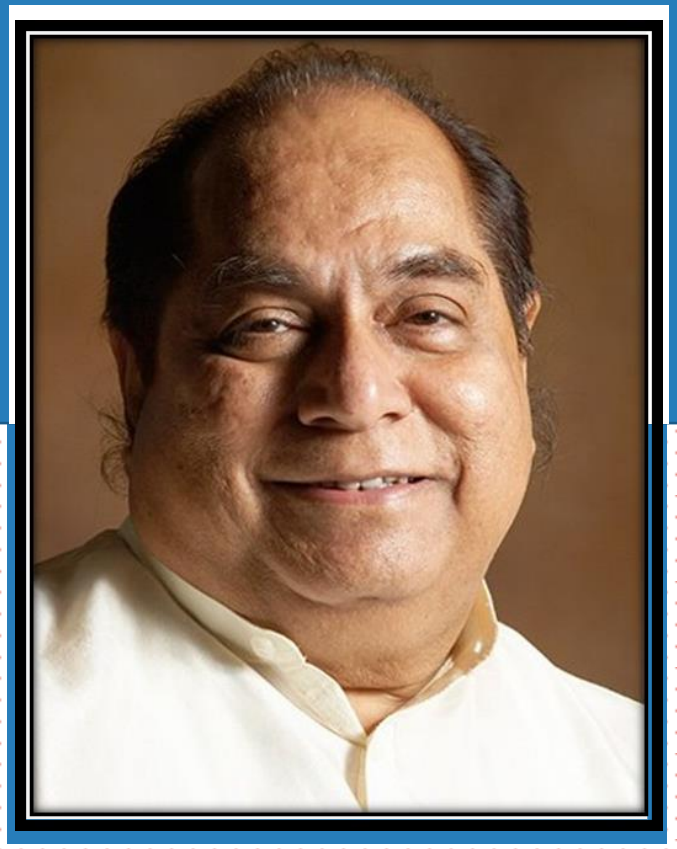
School of
Engineering &
Technology

# A 21st Century University in India

# D Y Patil University, Pune

# School of Engineering & Technology

# Our Leadership Team



**Hon’ble Dr D Y Patil**

**Padma Shri**

**Dr. Vijay D. Patil**

**President & Chancellor**

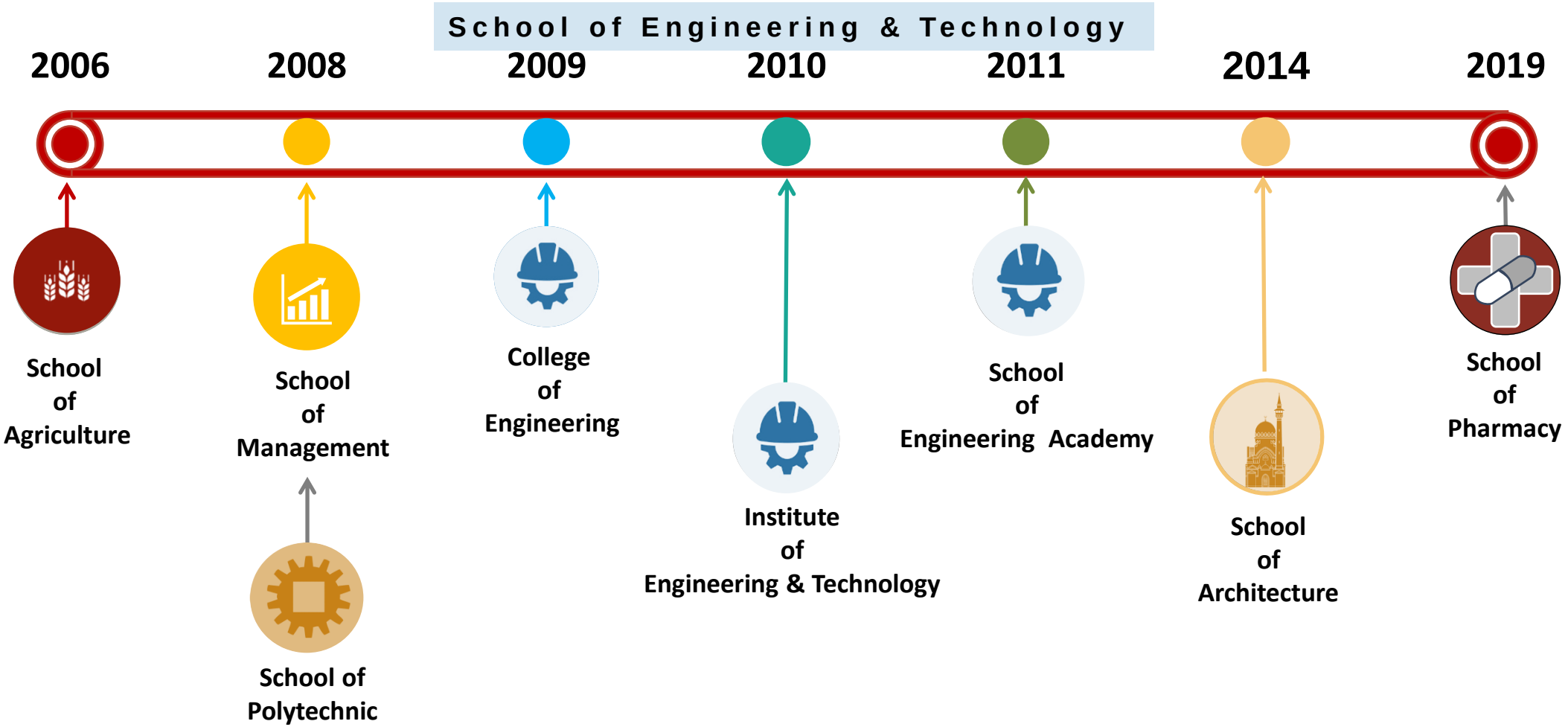
**Mrs. Shivani Patil**

**Managing Trustee**

**Dr. Sayalee Gankar**

**Vice-Chancellor**

# Legacy to be D Y Patil University



# We Create Engineers for INDUSTRY

Premier school for engineering and technology education that creates leaders, innovators and entrepreneurs through need based curricula, enriched academic delivery and industry partnership.

# School of Engineering & Technology

**B.Tech. | M.Tech. | Ph.D.**

Approved by

AICTE, New Delhi.

# Our Academic Team

**School of Engineering and Technology**

**Prof. (Dr.) Laxman Kamble**

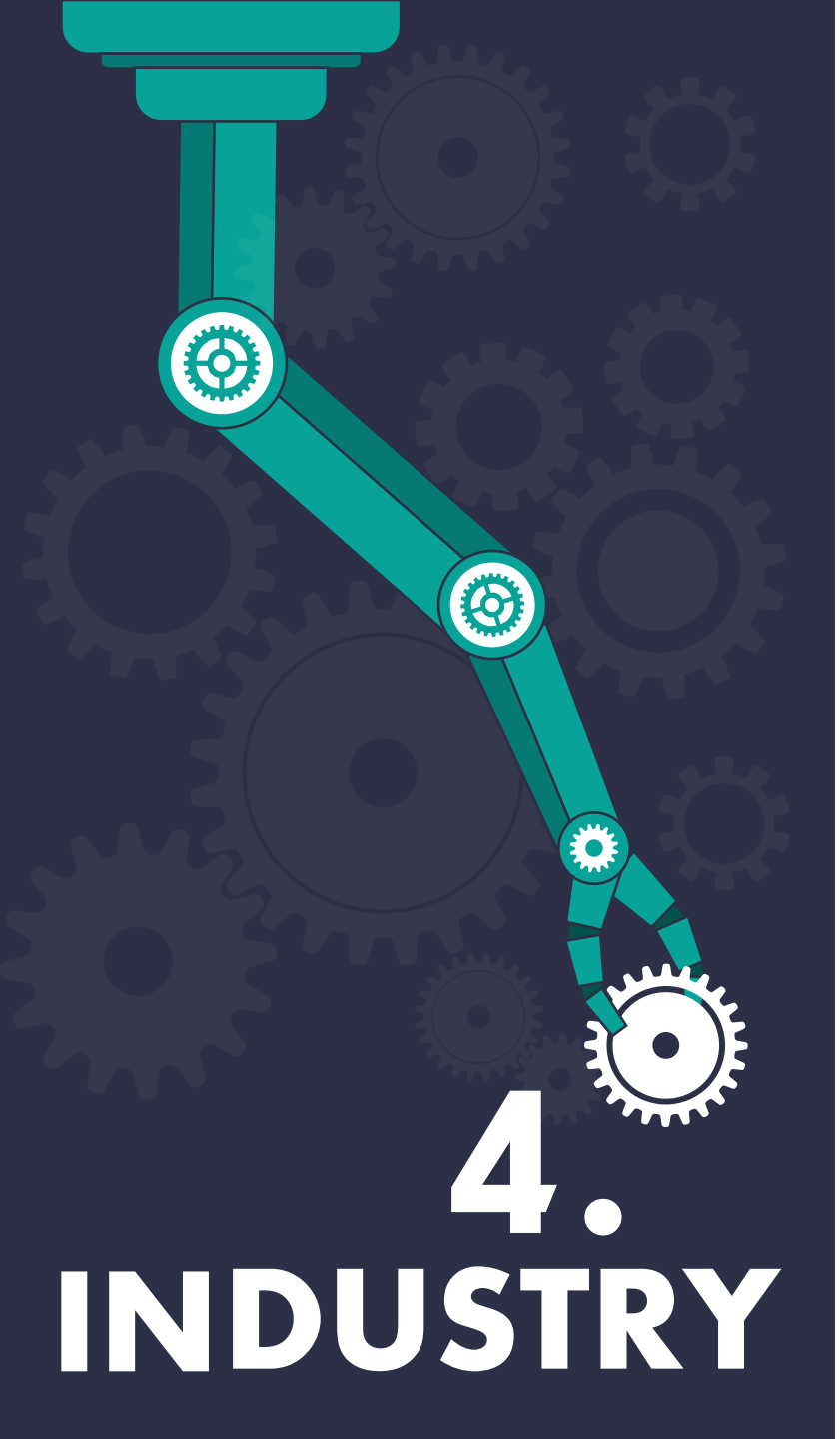
**Principal**

**Prof. (Dr.) Abhay A. Pawar**

**Principal**

**Prof. (Dr.) Rajesh Kherde**

**Principal**




# Programme Objectives

**01** **Quality and Value Based Education**

Provide quality and value based education that transform students through academic rigor

**02** **Science, Math, Technology and Research**

Develop the scientific, technology and research based approach

**03** **Innovation and Entrepreneurship**

Learn innovation and entrepreneurship skills in new and emerging field

**04** **Problem Solving**

Experiment, develop prototype and give solution to the community, industry and nation

# B Tech Programme

**01** **Computer**

Learn emerging topics such as Analytics, Machine Learning, Cloud Computing, Internet of Things etc

**02** **Information Technology**

Learn How computer System works, How to design & develop programming language and integrate for the functioning development of software

**03** **Mechanical**

Specialization like Robotic, Cad-Cam and Thermal engineering for tomorrows industry

**04** **Automobile**

Insight into the future technologies specilization such as hybrid and electric vehicles.

# B Tech Programme

05 **Civil Engineering**

Foundation in the area of Transportation Engineering, Structural Engineering, and Construction Management

06 **Electrical Engineering**

Get ready for exciting world of transition to sustainable energy.

07 **Mechanical**

Design, develop, test and supervise the manufacturing of electronic and telecommunication equipment.

# Four Year at Campus

Lay the foundation in:
Mathematics,
Basic Sciences,
Engineering Sciences,
Fundamental Core
Engineering topics,
Humanities
Social sciences.

**First Year**

Identify, Analyse & Formulate

- Literature review, Design Solutions For complex engineering problems
- design system components or processes that meet the specified needs with appropriate consideration

**Second Year**

**Third Year**

Choice base credit system
Core electives
Open Electives
Internship & Live projects

**Fourth Year**

Preparing for final Placement:
Contemporary & Latest Technology, Knowledge of Common Business Principles
Learn business Models
Business Ethics
Social responsibility

# M Tech Programme

Learn the theoretical knowledge and practical skills related to design, construction, operation, support & Maintenance of technology

## 01 Computer Engineering

Aims at emerging the graduates, with
- Advanced conceptual knowledge,
- Technical skills
- Research fundamentals
- Current technology trends
- and ability to pursue research in the field.

## 02 Mechanical Engineering

Two speciation

1. Heat Power &
2. Design

## 03 Civil Engineering–Construction Management

Emphasis on
- Project Management,
- Resource Management,
- Risk Management,
- Construction Optimisation Techniques,
- Procurement Management etc.

## 04 E & TC

Offers two specialization

1. Signal Processing
2. VLSI & Embedded Systems

# Programme Structure

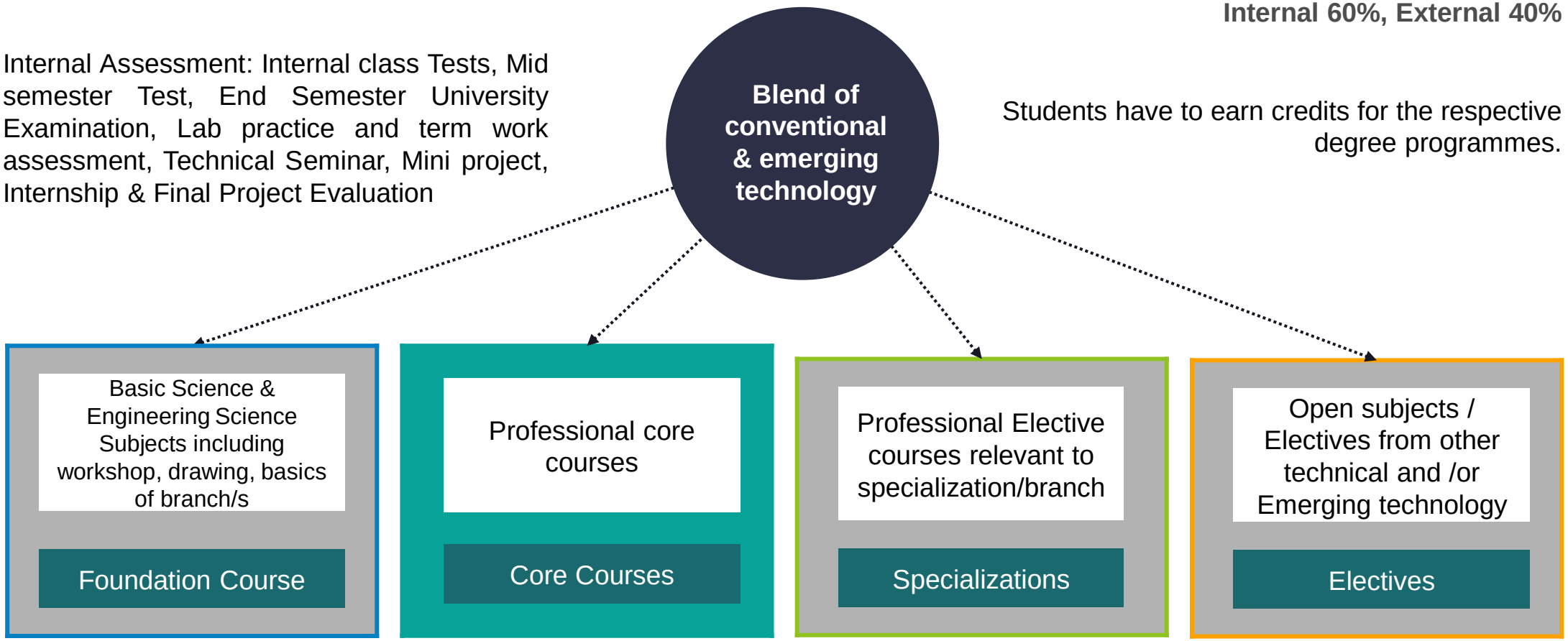
## Choice Based Credit System for B. Tech & M. Tech

**Continuous Evaluation:**

Internal Assessment: Internal class Tests, Mid semester Test, End Semester University Examination, Lab practice and term work assessment, Technical Seminar, Mini project, Internship & Final Project Evaluation

**Assessment Pattern:**
**Internal 60%, External 40%**

Students have to earn credits for the respective degree programmes.




# Curriculum is designed by Industry Practioners

* University has right to make the changes in programme structure / subject basket/ assessment / evaluation.

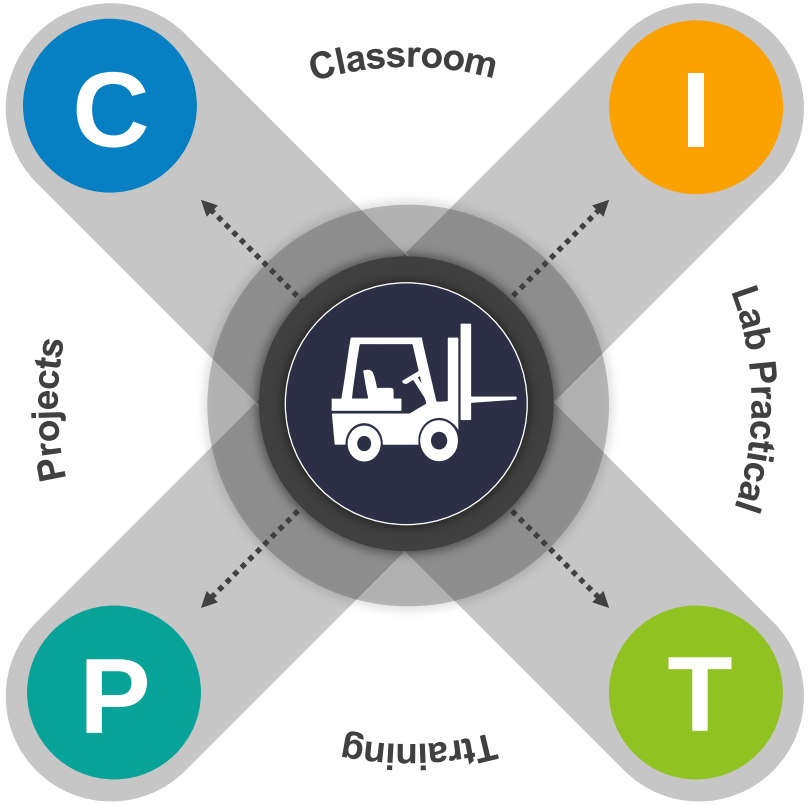
# Programme Delivery

### Classroom Teaching

Classroom teaching with the use of interactive webinars & Videos to bring experience & contemporary trends through interactive sessions.

### Technical and Soft Skill Training

Technical & Soft Skill training programmes will be organized as value addition.



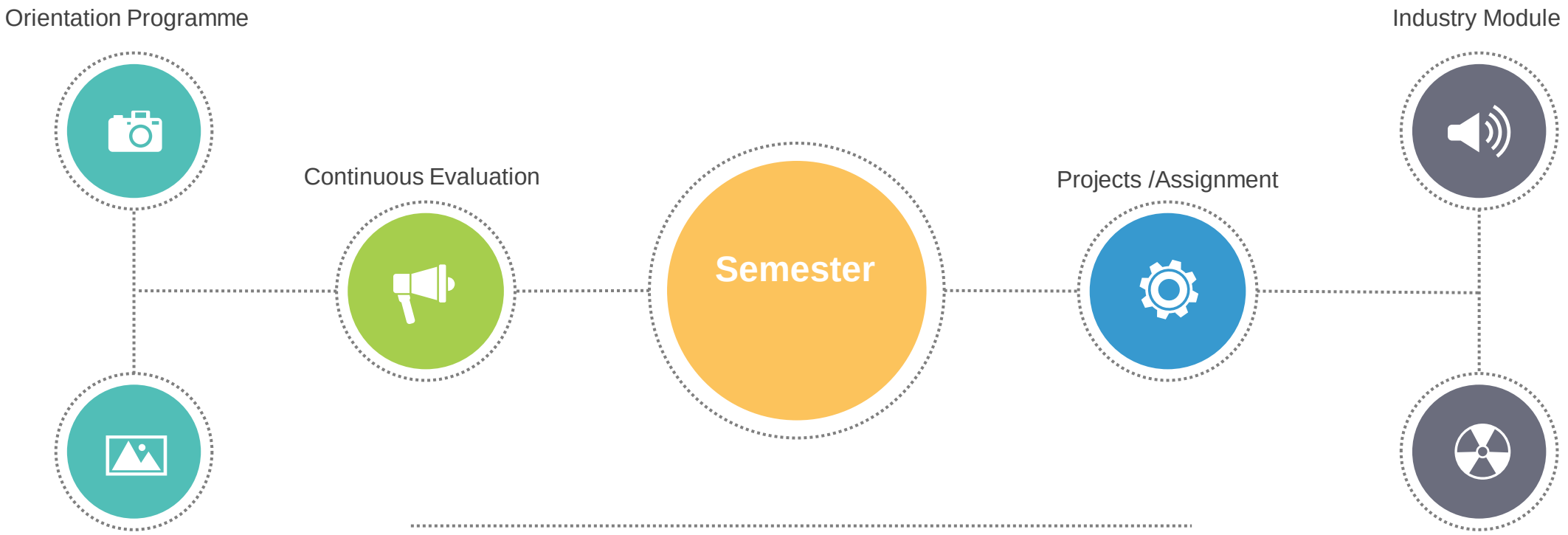

### Internship

Compulsory internship of six months during which students work on various projects and prepare themselves and perform well to get pre-placement offer in the same company.

### Practical and Group Assignment

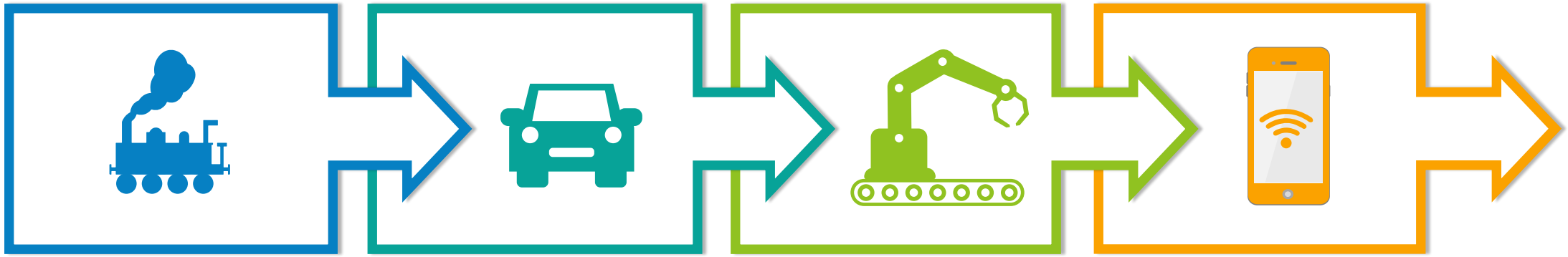
Continuous assessment process, includes, Practical, Group assignments & Mini projects

# Learning Process




**Learning Process is well defined at School of Engineering & Technology which ensures industry inputs, certifications*, online training & webinars.**

# Industry 4.0 Courses



**1st**

## ROBOTICS

It is an interdisciplinary research area which involves design, construction, operation, and use of robots. The goal of robotics is to design intelligent machines that can help and assist humans in their day-to-day lives and keep everyone safe.

**2st**

## BLOCK CHAIN

It's a growing list of records, called blocks, that are linked using cryptography. Each block contains a cryptographic hash of the previous block, a timestamp, and transaction data (generally represented as a Merkle tree).

**3st**

## ARTIFICIAL INTELLIGENCE

**Artificial Intelligence** (**AI**) is the branch of computer sciences that emphasizes the development of **intelligence** machines, thinking and working like humans. For **example**, speech recognition, problem-solving, learning and planning.

**4st**

## ANDROID APP DEVELOPMENT

The official language for Android development is Java. Large parts of Android are written in Java and its APIs are designed to be called primarily from Java. It is possible to develop C and C++ app using the Android Native Development Kit (NDK), however it isn't something that Google promotes.

# Internship and Projects

**Internship**

Internship opportunity is tapped for on the job training. Internship is a way of kn owing an organizations strategy, work environment, and working in the specific department on a specific project which helps to build career path for students.

**Winter Project**

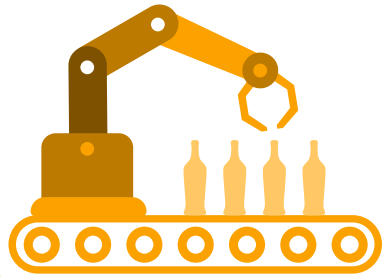
Students are encouraged to develop mi ni projects (prototypes) during their win ter vacation. They have to present it to the department and explain the new re search concepts.

**Summer Projects**

Every engineering student gets their c ertificate after completion of his/her pr oject successfully at final year. These projects are industry sponsored as wel l as in house.

## Experiments

Laboratory experiments are conducted by students for specific research area for testing and analysis.



## Process Development

Students identify the ongoing industry project problems and work on providing solutions by preparing prototype.

# Center for Industry Academic Partnership

Industry Partnership l Collaborations l MOU l

**Proximity to Indian Corporates in Mumbai and Pune**

University campus has become the “Seat of Education and Knowledge”. It is preferential education destination for students. Campus is equally distanced from Pune and Mumbai. Due to which academicians, industry practioners and industry from India’s Financial Capital Mumbai are partnered and providing training, internship and placement.

| | | |
|---|---|---|
| Mumbai | Pimpri Chinchwad Industry(PCMC) | PUNE |
| IT Industry- Hinjewadi | MIDC-Chakan | MIDC-Talegaon |

**Industry Focused Learning:**

Programs are designed, developed and reviewed in consultation with academic experts and leading industry practitioners for ensuring relevant learning.

**Practice, Experience and Experimentation**

Industry projects, Joint programs, certifications, research, internships and placements are the outcome of partnership.

# Laboratories

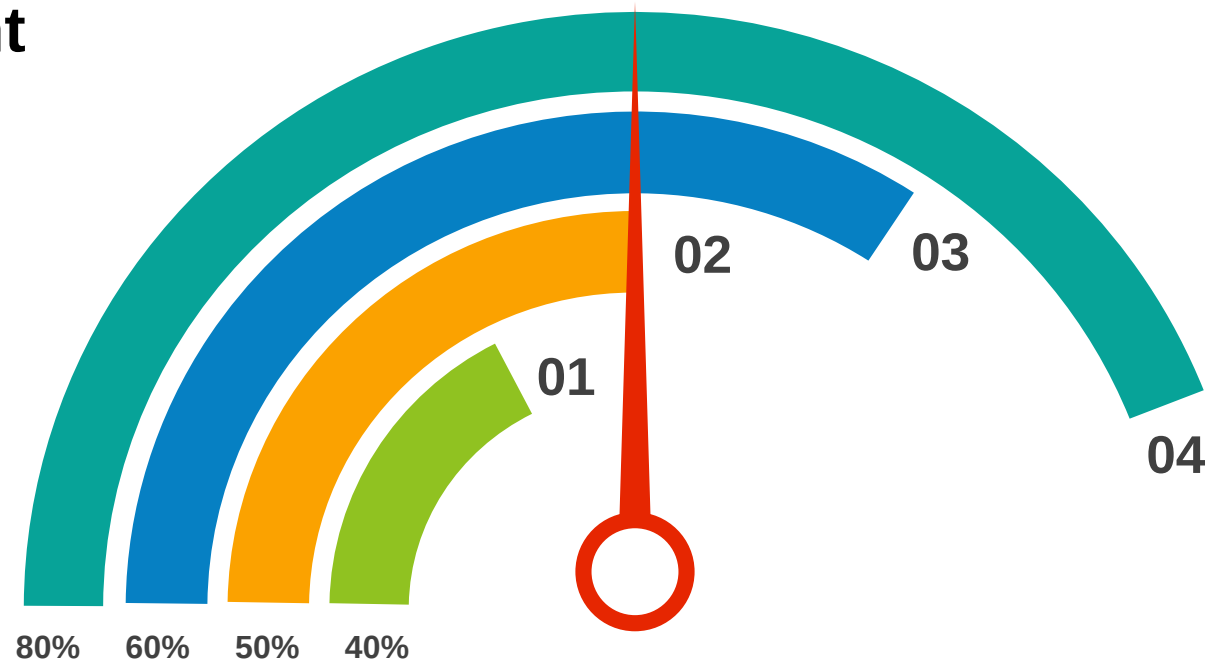
**Advanced machines**

**Good test rigs**

**High end software, etc.**

# Investment in Labs

**Total Investment**
**Rs. 10 Cr**




**01**
- Physics Lab
- Chemistry Lab
- BME Lab
- BEE Lab
- Workshop
- Graphics Lab
- Computer Centre

**02**
- FM Lab
- Turbomachines Lab
- I. C. Engine Lab
- OSA Lab
- DSPS Lab
- SOFT Lab
- PROG Lab

**03**
- A&DE Lab
- EM Lab
- EM & I Lab
- PE Lab
- HVE Lab
- PS Lab
- Surv Lab

**04**
- TE Lab
- CT Lab
- EG Lab
- D & M Lab
- TV & P Lab
- VLSI & EMB Lab
- I & M Lab

# Industry Placement

**Leadership Development**

Techno-managerial skills to transform for tomorrows' industry

**Academic Delivery**

Outcome based programme delivery

**Certifications* are offered in required areas for technical and professional expertise.**

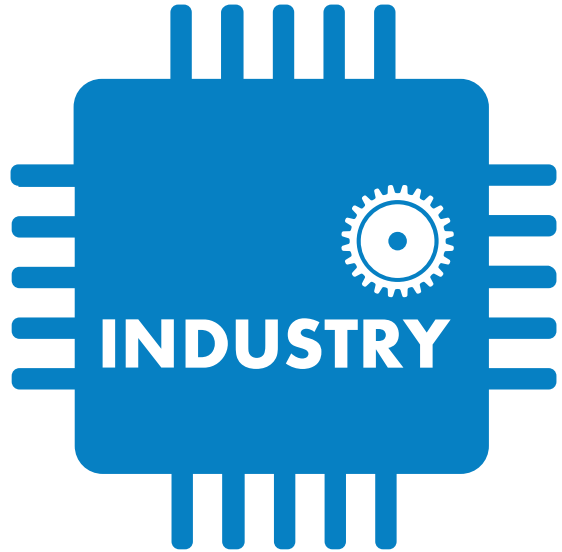
Students can also pursue certifications on online platform such as Mooc / Course era / Nptel

**Industry Exposure: Internship and Summer Placement**

DYPU Ambi Campus is providing opportunities in the industry located in the leading industry of IT Belt Hinjewadi, Chakan MIDC, Talegaon MIDC and PCMC & Mumbai due to the proximity.

**CV and Aptitude Building**

Career Service department help to write CV and prepare in aptitude test, soft skills, personal interviews and attitude development to get selected for the company



# Campus Life

Industry Interaction

Photography Club

Sports Club

Community Engagement

Cultural Events

Film and Music Club

# Mentoring

**Faculty**

**Industry Practioners**

# ACHIEVEMENTS

**Students participated & achievements in-**

- SAE BAJA 2019 and ATVC 2020.
- Basketball event in 18th‘ZEST-20’ organized by COEP in 2020.
- Basketball event in ‘VIJAY-2K19’ organized by DYPTC in 2019.
- ‘MAHARASHTRA SHREE-2019’ State Level Body Building Championship organized by Maharashtra Body Builder Association in 2019.
- ‘BEST PHYSIQUE COMPETITION’ Inter Collegiate Competition organized by MES Abasaheb Garware College Pune in 2019.
- ‘BODY BUILDING CHAMPIONSHIP’ organized by Priyadarshani Krida Pratishthan, Dhankawadi, Pune in 2019.
- Basketball event ‘SUMMIT 18’National Level Inter-Engineering Sports Meet held at MIT-WPU, Pune in 2018.

# A 21st Century University in India

D Y Patil University, Pune

## School of Engineering & Technology

**For Admission Please contact**

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**Technical Helpline No - 8104502268**
**Phone No –020-71533830**
**E- Mail: admissions@dypatiluniversitypune.edu.in**
**info@dypatiluniversitypune.edu.in**

# THANK YOU..