



**D Y PATIL**  
UNIVERSITY  
PUNE | AMBI  
॥ ज्ञानधीनं जगत् सर्वम् ॥

School of  
**Engineering &  
Technology**





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# Journey

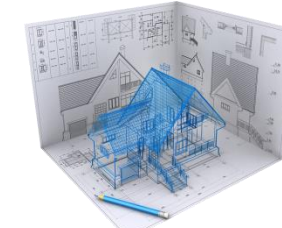
- D Y Patil Polytechnic
- D Y Patil Institute of Management



- D Y Patil Institute of Engineering & Technology



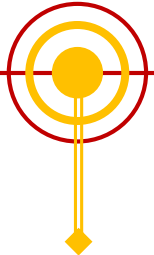
- D Y Patil School of Architecture



- D Y Patil School of Pharmacy



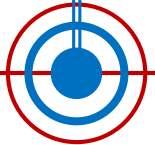
2006



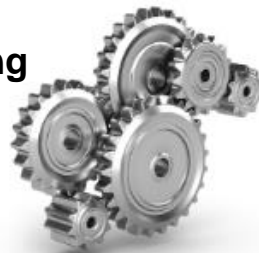
- College of Agriculture



2008



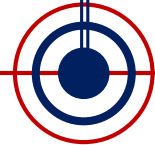
- D Y Patil College of Engineering



2009



2010



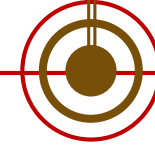
- D Y Patil School of Engineering Academy



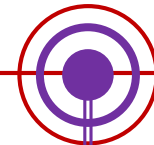
2011



2014



2018



- D Y Patil High School



2019







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# School of Engineering & Technology

## B Tech | M Tech | PhD

## Diploma + B Tech Integrated

### B Tech Branches

Computer Science | IT | AI & DS | Mechanical | Civil |  
E & TC

### M Tech Branches

Computer Science | Mechanical- Design Engineering | Civil | Construction  
Management | E & TC – VLSI & Embedded Systems | Signal Processing



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***“Engineering is to investigate,  
discover and create”***

### Vision

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



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- D Y Patil University, Pune is established by Govt. of Maharashtra Act No. VI of 2019 under the Section (3) and recognized by UGC, New Delhi, India.
- Awarded as Emerging University in West by ASSOCHAM India, New Delhi in 2023
- DYPU School of Engineering & Technology is consistently ranked in Times Engineering Institute Survey 2020 and 2021
- Ranked 41 Top Engineering Colleges in India, ranked as 32 Top Private Engineering Colleges in India and Ranked as Top 10 Engineering Colleges in West Zone at ALL INIDA RANKING
- University Campus has received “Vanashree Award” as Green Campus by Government of Maharashtra and Ministry of Environment.
- Branch Offered are Computer Science, Information Technology, Civil Engineering, Automobile, Electronics & Telecommunications, Electrical and Mechanical
- Specializations Tracks are offered in Artificial Intelligence, IOT, Machine Learning, Block Chain and Robotics.
- D Y Patil University is awarded as University for Innovation in Global Collaborative Learning in 2021 at 19th World Education Summit.



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### Highlights

- B Tech, M Tech and PhD Program are approved by AICTE
- Yearly renewed syllabus with support of industry for Choice Based Credit System and Multidisciplinary Education
- Certifications and credit transfer with industry and R & D Organizations. Certifications are explored with EdX, Course Era, NASSCOM, MOOCs, NPTEL and Swayam are few as per the guidelines of UGC, New Delhi
- Freshman Orientation Program, Finishing School, Competency Mapping - Behavioral Labs Boot Camp, Outreach, and Immersion Programs for professional development
- **CRCS** for providing career services, internship, live projects and final placement for students.
- Centre for Entrepreneurship, Innovation, and Incubation (**CEII**) to support Start-Up India
- MOU and partnership with leading Universities and Industry for academic, imparting technology joint research and techno-managerial development through guest lectures, seminars, conferences, on the job training, projects, and internships.
- **Finishing School** to gain experience through **9 Student Clubs** Readers' Club, Sport Club, Cultural Club, Photography Club, Film & Theater Club, Expressions Club, Social Media Club, Environmental Club and Outreach Club
- Residential Campus\*



## 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



**4.**  
**INDUSTRY**



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## B Tech Programme

### Computer Engineering

The programme is exposed to emerging topics such as Analytics, Machine Learning, Cloud Computing, Internet of Things to make the students industry ready.

### AI & DS

The curriculum explores to develop an inference engine and knowledge-based systems to solve problems as an expert. Computer science languages is the main focus communicate with computer machines for the above purposes.

### Electronics & Telecommunication Engineering

Electronics & Telecommunication Engineering Programme emphasizes on aligning Education 4.0 with Industry 4.0 and prepare students for the next industrial revolution which will happen in their lifetime.

### Information Technology

The curriculum explores the study of designing, development and execution of software/hardware applications and computer-based systems to meet challenges of today and tomorrow.

### Mechanical Engineering

In view of demands in industries the programme includes the tracks like Robotics, CAD/CAM & Thermal Engg in which students are trained to address the problems through innovative thinking to develop appropriate technological solutions.

### Civil Engineering

The curriculum has strong focus in the research areas of Transportation Engineering, Structural Engineering, and Construction Management





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# M Tech Programme

**01**

## Computer Engineering

Aims at emerging the graduates, with advanced conceptual knowledge, technical skills and ability to pursue research in the field of Computer Engineering, appropriate to the present ICT scenario

**02**

## Mechanical Engineering – Heat Power

Heat Power Engineering stream lays emphasis on advanced learning with emphasis on synthesis, Design and optimization to meet current scenario of Industries and Ecosystem.

**03**

## Mechanical Engineering - Design

M. Tech in Mechanical Engineering in Design at DYPU, has been designed keeping in line with the recent revolutions taking place in industry and to address future avenues the engineers will have to deal with.

**04**

## Civil Engineering–Construction Management

The programme is well organized and deals with the designing, planning, construction and management of different infrastructures. Students can acquire knowledge of advanced learning in Project Management, Resource Management, Risk Management, Construction Optimisation Techniques, Procurement Management etc.

**05**

## E & TC – Signal Processing

Signal processing techniques are finding key applications in wide areas of technology ranging from wired and wireless communication to multimedia processing to medical diagnosis to earth quake prediction

**06**

## E & TC – VLSI & Embedded Systems

The ambitious -Making in India- Mission and its implementation deals with embattled results in terms of huge expansion of core hardware manufacturing industries in Electronics and Telecommunication engineering.



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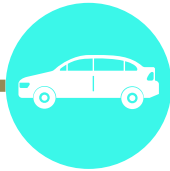
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# B Tech Four Year at Campus

Establish the competence in Mathematics, Basic Sciences, Engineering Sciences, and fundamental Core Engineering topics, humanities and social sciences.



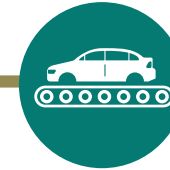
**First Year**



**Second Year**

Identify, formulate, review research literature, analyse and Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration

Acquire knowledge and skill through stream elective, open elective subjects and also through internship/project activity.



**Third Year**

Understanding of Contemporary & Latest Technology, Knowledge of Common Business Principles Discipline and Service Orientation, Innovation Ability Strong in Ethics and Life Values



**Fourth Year**



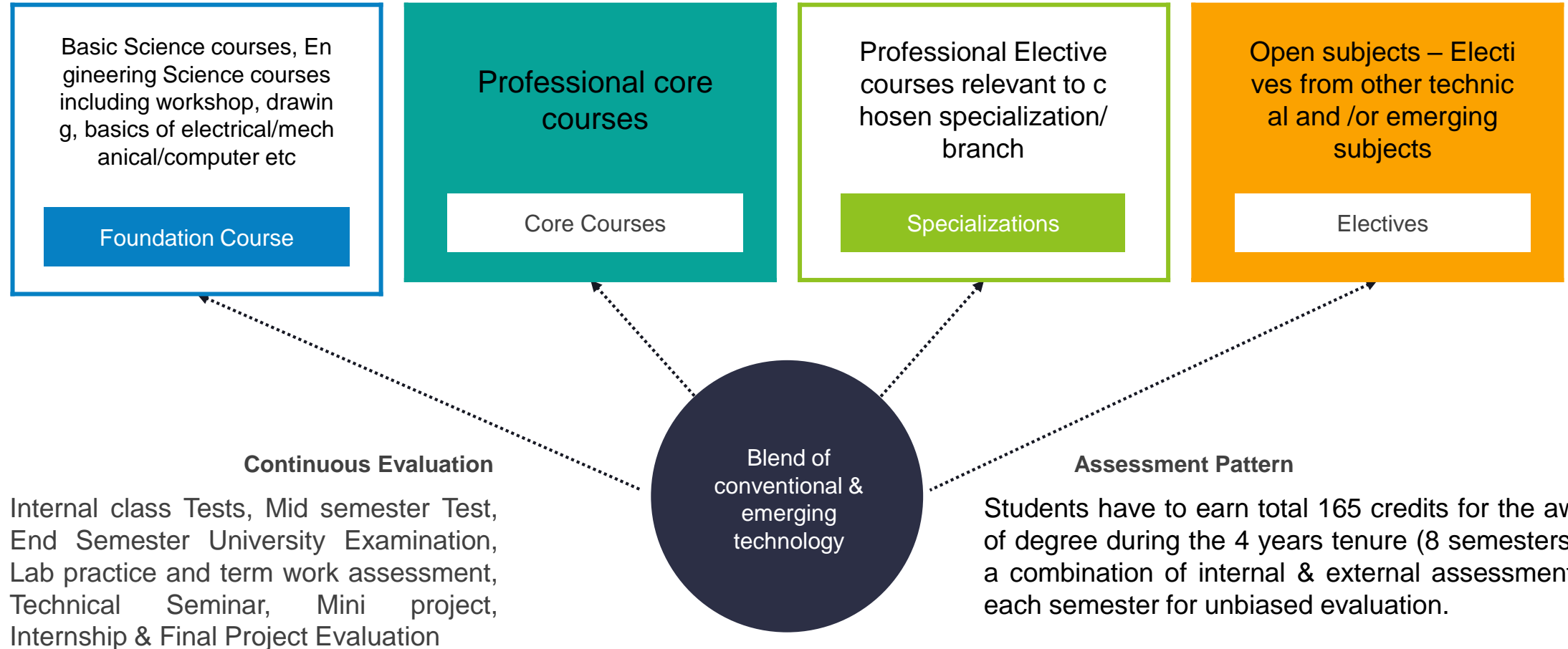
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## Choice Based Credit System Programme Structure





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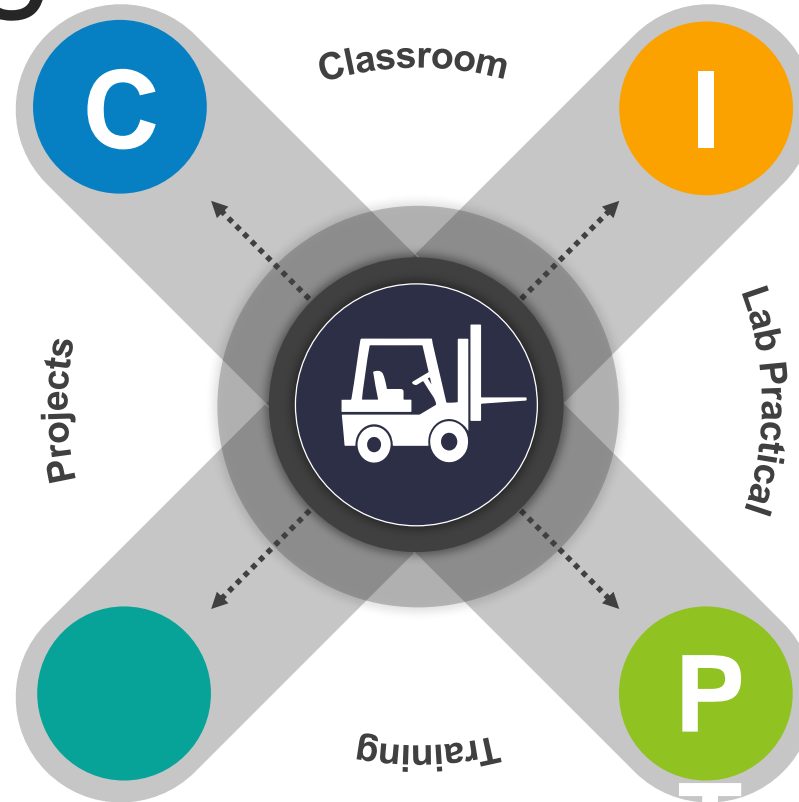
# Programme Delivery

## Classroom Teaching

Classroom teaching with the use of modern teaching aids & methodologies like LCD projectors, models, etc., is very much effective and interactive. It is mainly focused on content delivery.

## Technical and Soft Skill Training

Technical training sessions are arranged on various modeling and analysis software which are being used in the industries and also soft skill training programs are frequently scheduled. Conduction of value added certificate courses on recent technology.



## 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

Being a part of continuous assessment process, practical & group assignments are carefully scheduled and assessed. Encouragement to take up Mini projects





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# Learning Process

Orientation Programme



Continuous Evaluation



**Semester**

Projects /Assignment



Industry Module



Foundation Programme



Final Examination

Learning Process is defined at School of engineering which ensures industry inputs, certifications, online training, webinars.

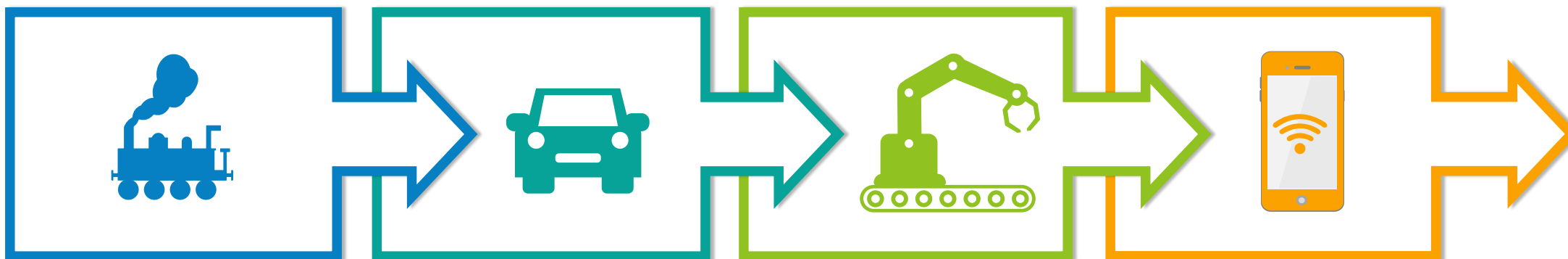


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**1st**

### 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.

**3rd**

### 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.

**2nd**

### 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).

**4th**

### 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.



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# Internship and Projects



## Internship

Internship opportunity is tapped for on the job training. Internship is a way of knowing 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 mini projects (prototypes) during their winter vacation. They have to present it to the department and explain the new research concepts.



## Summer Projects

Every engineering student gets their certificate after completion of his/her project successfully at final year. These projects are industry sponsored as well as in house.



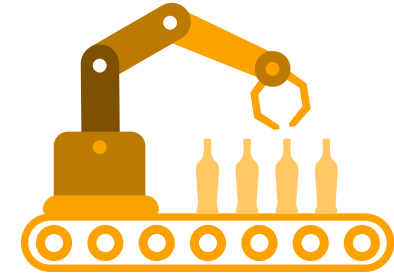
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# Industrial Solutions



## Process Development



Students recognize the ongoing industry project problems and provide solutions by preparing prototype and prove the performance through the testing.

## Experiments



Laboratory experimental set ups are developed by students for specific research areas for the testing and analysis related with their learning courses.







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# Industrial Skill Development

## CAD-CAM

Here computer systems are used to design and manufacture the products. The term CAD/CAM implies that an engineer can use the system both for designing a product and for controlling manufacturing processes.



## Lean Management

It is an approach to managing an organization that supports the concept of continuous improvement, a long-term approach to work that systematically seeks to achieve small, incremental changes in processes in order to improve efficiency and quality.



## Six Sigma Tools

- The 5s System
- Value Stream Mapping
- Regression Analysis
- Pareto Chart
- FMEA



## Quality

Quality assurance involves all activities in the institute that are necessary for fulfilling the purposes of sustaining high quality education and educational services, it aims at:

- Ensuring continuous enhancement of the quality education
- Maintaining consistency and effectiveness in quality assurance activities
- Promoting the culture of quality assurance system.

# INDUSTRY MOU

MOUs with world's leading organizations and industries are bringing benefits for our faculty and student. MOUs are signed to bring many opportunities in terms of research projects, prototypes, product development, group assignments, live projects, internships and final placements.

**BOSCH**



**BOSCH**

Invented for life

The practical training that offer by Bosch, enables us to provide technicians with the core skills, competence and hands-on confidence required to take on both modern automotive service, and diagnostic interrogation and resolution.

**Adobe Digital Disha**



- Orient teachers and students to emerging technologies in the Digital Era
- Introduce vistas for experiential and accelerated learning
- Empower educators to teach new age skills, create & share impactful lesson plans
- Enhance learning outcome

**FUEL**



Fuel has worked with 3000+ schools and college across India by changing the lives of more than 8,50,444 students. Programmes offered are skill development, future skill training and scholarships.

**TCS**



Computer Science & Business Systems in collaboration with Tata Consultancy Services

**Business Standard and Harvard Business School**



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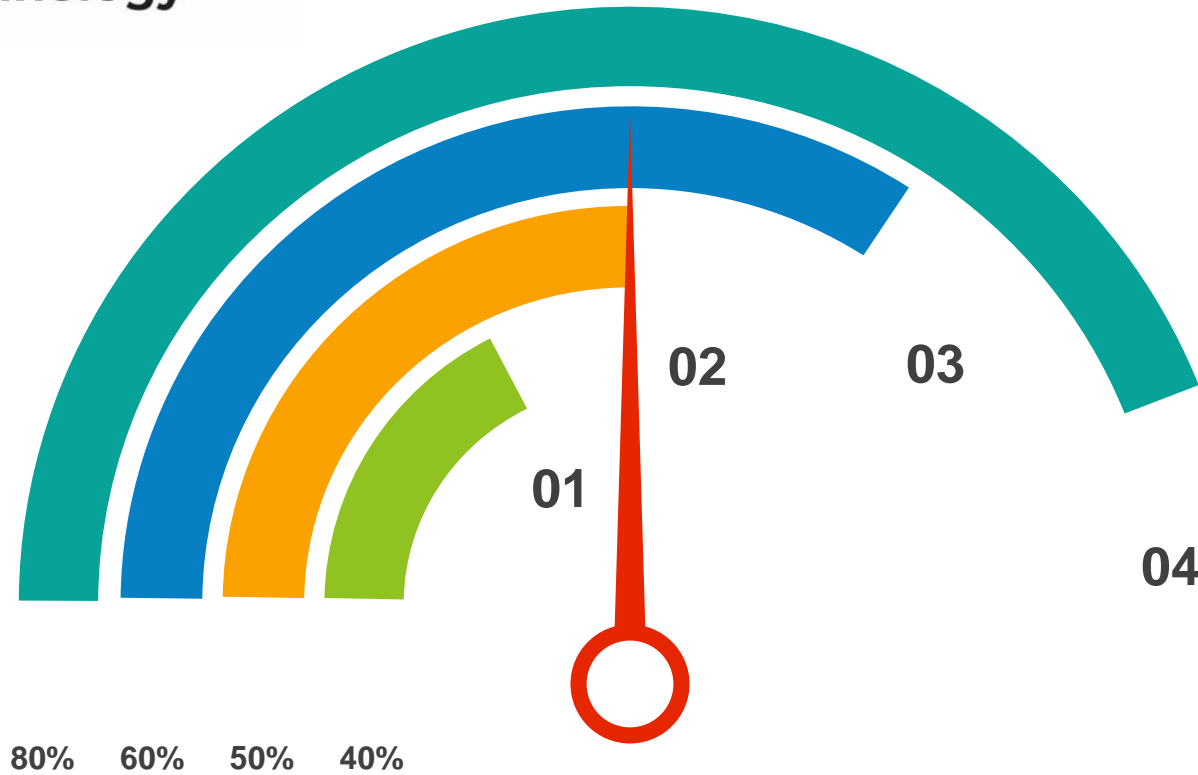


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**01**

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



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# Industry Placement

## Leadership Development

Techno-managerial skills are important to develop and inculcate habits that transform you for tomorrow's industry

## Academic Delivery and Assessment

Quality content delivery and continuous assessment process

## Certifications

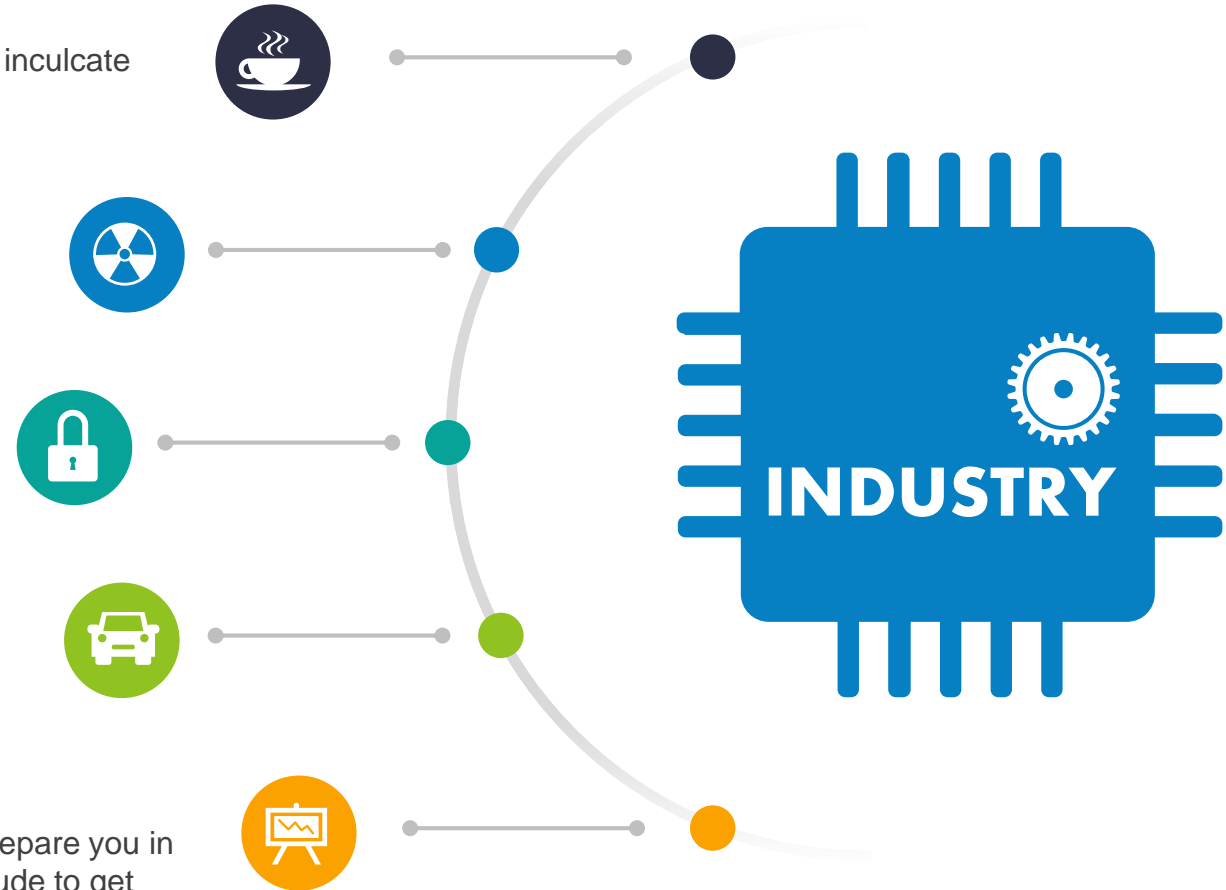
Many certification programs are offered like Basic Course on Diesel Fuel Injection Systems, Advanced Course Diesel Fuel Injection Systems, Auto Electrical Systems (Starter, Alternator & Batteries), etc.

## Industry Exposure: Internship and Placement

DYPU Ambi Campus is exploring opportunities for students and faculty due to the proximity IT Belt Hinjewadi, Chakan MIDC, Talegaon MIDC and PCMC which is the base of all leading industries in India.

## CV and Aptitude Building

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





# Campus Life



Industry Interaction



Photography Club



Sports Club



Community Engagement



Cultural Events



Film and Music Club



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# Mentoring



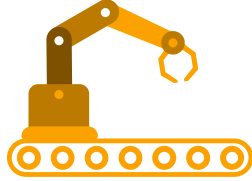
**Faculty**



**Industry Practitioners**



# ACHIEVEMENTS



## Students participated & achievements in-

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





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# Recruiters







# Thank You

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Admission Contact

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[www.dypatiluniversitypune.edu.in](http://www.dypatiluniversitypune.edu.in)