Engineering is to INVESTIGATE, DISCOVER and CREATE
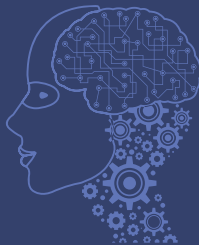
D Y PATIL UNIVERSITY
PUNE I AMBI
|| ज्ञानधीनं जगत् सर्वम् ||

School of
Engineering & Technology

B.Tech | M.Tech | PhD
Diploma Integrated (B.Tech)

University Ranked as Innovation in Global Collaboration Learning **2021 by Elets**

SOET Ranked 41 All over India by **Times Engineering Survey**

Best University Campus **Vanashree Award** Govt. of Maharashtra

Top 20 School of Architecture in Maharashtra

University in Excellence for **Pharmacy Education**

D Y Patil University I Pune

Since 1983, D Y Patil Group of Institutions is a leading group known amongst the top education institutions in India. D Y Patil University Pune was established vide Government of Maharashtra Act No. VI of 2019 and recognized by UGC, New Delhi, India.

It owes its existence to the wisdom, benefaction, and hard work of a far sighted visionary-Padmashree Dr. D. Y. Patil, Ex-Governor of States of Tripura, West Bengal and Bihar, who sowed the seed of education in Kolhapur, Maharashtra in 1983 with a motto: "Knowledge is Supreme" Established in 1983 primarily for extending quality education to rural population of the State, today, it is one of the largest private educational providers in the State of Maharashtra. Presently, it has more than182 Institutes, Three Deemed Universities, Four State Private Universities, 96,000 + Students, 3.75 Lacs + Alumni, 11,000+ Employees under its expansive umbrella.

Our Journey

From 2006, at D Y Patil Technical Campus colleges namely **D Y Patil College of Engineering, D Y Patil School of Engineering Academy, D Y Patil Institute of Engineering and Technology, School of Pharmacy, Padmabhushan Vasantdada Patil College of Agriculture, D Y Patil Polytechnic, D Y Patil Institute of Management, D Y Patil School of Design and D Y Patil School of Architecture** are successfully running UG and PG programmes which are approved by AICTE, MSBTE, PCI and COA wherein more than 7000 students are studying in the various programmes of campus.

Rich legacy and history of excellence spanning more than 17 years resulted into transform as D Y Patil University, Pune and continued to provide cutting-edge programs.

|| ज्ञानधीनं जगत् सर्वम ||

MANAGEMENT LEADERS

Dr. D. Y. Patil
Founder President

Dr. Vijay D. Patil
President & Chancellor

Mrs. Shivani V. Patil
Managing Trustee

Prof. Dr. Sayalee Gankar
Vice Chancellor

INDUSTRY ADVISERS

Garima Babbar
Head Program, South Asia
Education & Skill
Delvelopment,
ADOBE System

Amal P S
Founder & CEO
Keito Tech India

Amitava Neogi
Senior Advisor
Centrum Wealth

Amit Singhal
Founder & CEO
Fluid Ventures

Rohan Salgarkar
MD and Chief Strategy Officer,
Avira Insights

Dhruva Panicker
Founder
Dominix Global

Hrishikesh Dhande
Head, Academic Interface
Program TCS Maharashtra

Ravi Ghate
Head Social Projects,
BVG India

SCHOOL OF ENGINEERING AND TECHNOLOGY

School of Engineering & Technology is engaged creating the future leaders in engineering, science and technology. Programmes are designed and delivered to build a foundation in engineering principles. Students are encouraged to collaborate across disciplines to apply skills to real-world problems.

At campus, student centric learning culture provides opportunities for learning and practicing. Engineering education is designed to understand 'how' things work and 'find' practical solutions with the use of scientific processes and application of theories. Students are made ready to play a role and perform functions as an engineer that is to design, evaluate, develop, test, modify, install, inspect and maintain a wide variety of products and systems.

ACHIEVEMENTS

- DYPU School of Engineering & Technology 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.
- D Y Patil University is awarded as University for Innovation in Global Collaborative Learning in 2021 at 19th World Education Summit.

HIGHLIGHTS

- Freshman Orientation Programme, Finishing School, Competency Mapping - Behavioral Labs Boot Camp, Outreach, and Immersion Programmes for professional development
- *Certifications explored with EdX, Course Era, NASSCOM, MOOCs, NPTEL and Swayam
- KRITI
- Blended Teaching of Online and Offline mode and use of Learning Management System (LMS)
- CIAP 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 : 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*

Conditions Apply*

> " Program are offering specialisations designed to develop engineering principles, innovation and scientific temperament to work in industries "

VISION

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

MISSION

- Provide quality and value based education that transform students through academic rigour
- Provide outcome based industry and socially relevant curriculum
- Develop the scientific, technology and research based approach
- Enhance the skills and competencies of students to pursue career in industry
- Provide innovation & entrepreneurship skills in new and emerging fields.
- Enhance industry-focused learning through academia and industry partnership
- Incorporate importance of service to the community and contribute towards social responsibility

B. TECH

Duration: Four Year | Eight Semester

Branch/s

Computer Engineering
- Computer Engineering (Generic)
- Artificial Intelligence
- Network & Information
- Cyber Security

Information Technology
- Information Technology (Generic)
- Cyber Security and Digital Forensic
- Data Science
- Information Communication Technology

Artificial Intelligence and Data Science
- Machine Learning
- Data Analytics and Visualization
- Deep Learning
- Blockchain Technology

Mechanical Engineering
- Mechanical Engineering (Generic)
- Robotics
- Mechetronics
- Thermal Engineering
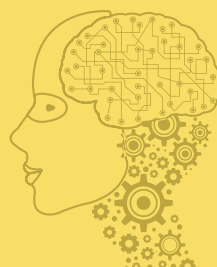
Civil Engineering
- Civil Engineering (Generic)
- Construction Management
- Structural Engineering
- Transportation Engineering

E & TC
- Digital signal Processing
- Microwave Engineering
- VLSI Design and Technology
- Broadwave Communication Systems
- Signal and Systems

M. TECH

Two Year | Four Semesters

- **Computer Engineering**
- **Mechanical Engineering**
    - I) Design Engineering
    - II) Heat Power Engineering
- **Civil Engineering**
    - I) Construction Management
- **E & TC Engineering**
    - I) VLSI & Embedded Systems
    - II) Signal Processing

VLSI & Embedded Systems
- Embedded System Design
- System on Chip
- Testing and Verification of VLSI Circuits
- ASIC Design

Signal Processing
- Advanced Digital Signal Processing
- Biomedical Signal Processing
- Statistical Signal Processing
- Still Image and Video Compression

Computer Engineering
- Computational Intelligence
- Analysis of Algorithms
- Data Science
- Advanced Cloud Computing

Design Engineering
- Advanced Thermodynamics and Combustion Technology
- Advanced Heat Transfer
- Air Conditioning Technology
- Advanced Fluid Mechanics

Construction Management
- Construction Technology
- Sustainable Construction Materials
- Retrofitting of Structures
- Construction Contracts Administration and Management

Heat Power Engineering
- Computational Intelligence
- Analysis of Algorithms
- Data Science
- Advanced Cloud Computing

Design Engineering
- Material Science and Mechanical Behavior of Materials
- Analysis and Synthesis of Mechanisms
- Advanced Mechanical Vibrations
- Mechanical Measurements and Controls

" B.Tech in Computer Science and IT offers skills of the future Big Data Analytics, Cloud & Cyber security Services, IoT, Artificial Intelligence and many other Digital Technologies required for Industry 4.0. "

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

B. Tech Programme Structure

- Basic Science Courses
- Engineering Science Courses including workshop, Engineering drawing, basics of electrical/mechanical/computer/information technology/AI &DS.
- Humanities & Social Science Courses
- Program Core Courses (Branch specific)
- Professional Elective Courses (Branch specific)
- Open Electives
- Skill Enhancement Courses
- Audit Courses [Environmental Sciences, Indian Constitution]
- Project work, seminar and internship in industry or professional organization

M. Tech Programme Structure

- Professional Elective Courses
- Laboratories Course
- Open Elective Course
- Special Topic Seminar
- Project work and internship in industry
- Skill Development Courses
- Dissertation Course

- University offers facilities to motivate young generations through various possible resources and opportunities to instigate research based learning.
- The industry collaboration, field study and industry- institute interaction opens up the means for experiential learning.
- Project based learning methods helps in confidence building by understanding theoretical concepts and practical aspects.

Pedagogy

- Project Based Learning(PBL) Approach
- Classroom Learning: lectures, interactive sessions, audio video, online learning.
- Laboratory Practical Practice: Hands on Session
- Continuous Evaluation and assessment: Internal 40% and External 60% for each subject
- Group Assignments & Presentations to learn collaborative skills.
- Technical and Professional Skill Enhancement workshops.
- Industry-Academia: Guest lectures, Seminars & Conferences, Live projects, group projects and internship

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

Dioploma + B. Tech in Computer Engineering
Duration: Six Year

Subject Focused During Three Year of Diploma

- Engineering Mathematics
- Information & Communication Technology (ICT)
- 'C' Programming
- Computer Hardware Maintenance
- 'C' Programming Lab

- Object oriented Programming through C++
- Data Structures
- Digital Techniques
- Database Management Systems
- Computer Graphics &Multimedia Techniques
- Computer Networks
- Software Engineering
- Java Programming
- Microprocessor and Interfacing
- Artificial Intelligence

- Software Testing and Quality Assurance
- Advanced Java Programming
- Advanced Database Management Systems
- Software Testing and Quality Assurance Lab
- Mobile Application Development
- Programming Through Python
- Cyber Security
- Web development using HTML & CSS
- Industrial Internship Training

Career Opportunities

- Software Developers
- Testing Engineers
- Computer Programmer
- Software Engineer
- Networking Engineer
- Computer Systems Engineer

Fees:

- Diploma Fees Rs 75000/- per year and from Fourth year (B.Tech S.Y. fee will be applicable as per B Tech decided for the respective academic year)

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

" Diploma B.Tech Program offers Computer specialisations with Certifications* in current and future technology "

CORPORATE RELATIONS AND CAREER SERVICES

University has created the two important services to promote discovery, innovation driven environment through CIAP and KRITI. Platforms are created to bring companies and university for the collaboration with an outcome of developing competencies, future skills, research, projects and final placement.

Centre For Industry and Academia Partnerships (CIAP)

Vision

Develop the young workforce as corporate professionals, techno-managers and entrepreneur through academic and industry partnership.

Mission

- CIAP aims to be engaged to provide advance education, research, skill building program and employment through various interventions.
- Build the competencies and provide the exposure to industry practices.
- Use of behavioral - technical assessments and conduct training programs to build competencies.
- Collaborate and partner with industry and government for development of knowledge and skills.

Initiatives

CTO Summit I CHRO Summit I CEO Summit I Honhar Bharat I MOUs I Guest Lectures, Seminars, Panel Discussion, Industry Visits

Centre for Excellence KRITI

Knowledge I Research I Ideation I Technology I Innovation

Vision

Focus on upskilling to develop the technical and professional skills through professional organizations and trainers.

Mission

Identify the latest requirement of the industry and design the program

Initiatives

• Up-Skilling through leading partners for credit based and additional certifications

• Hackathon I Skill- Hackathon I Business Idea Pitching Competition I Business Modelling I Prototyping

SOME OF OUR TOP RECRUITERS

Be the next forward thinker to tackle social, economic and industry challenges through theoretical and practical approach, we prepare you to work for Industry 4.O

Prof. Dr. Ajim Shaikh
University Campus Head Corporate Relations

INDUSTRY ACADEMIA INTERFACE

INTERNATIONAL CERTIFICATIONS

Priyanka Dhamane
Programming for Everybody
University of Michigan

Vishwanath Naikwade
Programming for Everybody
University of Michigan

Dipanshu Garg
Programming for Everybody
University of Michigan

Nishant Chaware
Introduction to Deep Learning
National Research University

Shubham Khedekar
Renewable Energy And Green
Building Entrepreneurship
University of Duke

Priya Wazarkar
Renewable Energy And Green
Building Entrepreneurship
University of Duke

Yash Sonawane
Introduction to Facial Sludge
Management
Ecole Polytechnique Federale de Lausanne

Yukta Mahajan
Revit for Architectural Design
Exam Prep
Autodesk

Dhote Bhushankumar
Electric Power System
University of Buffalo

Kuntawar Shreya
Electric Vehicles and Mobility
Ecole des Ponts ParisTech

Ahire Anand
Electric Power Systems
University of Buffalo

Bonde Vinay Rajendra
Electric Power Systems
University of Buffalo

Mohit Mahajan
Programming for Everybody
University of Michigan

Vaishnavi Raje
Python Data Structures
University of Michigan

Amey Mete
R Programming
John's Hopkins University

Tejaswini Sarode
Programming for Everybody
University of Michigan

Sayali Badgujar
AI for Everyone
Deeplearning.ai

Samriddhi Garudik
Introduction to Cloud Identity
Google Cloud

Rahul Vashistha
Excel Skills for Business
Essentials
Macquarie University

Karthik Arumugam
Programming for Everybody
University of Michigan

University of Washinton | University of Michigan | University System of Georgia | Duke University | University of Colorado Boulder | Macquarie University | Stanford University | University of California | University of Melbourne

CAMPUS TO CORPORATE

Samriddhi Garudik
INTELLISWIFT
intelliswift

Dhruv Solanki
INTELLISWIFT
intelliswift

Nikhil Sawant
BAHWAN CYBERTEK
BAHWAN CYBERTEK

Shubham Kalamb
DITAPV
Ditap-V

Aditya Randive
ALTIMETRIK, PUNE
ALTIMETRIK

Shravani Mahabdi
INFOSYS
Infosys

Akash Sitoke
INFOSYS
Infosys

Sanket Deshmukh
INFOSYS
Infosys

Aniket Jaiswar
CAPGEMINI
Capgemini

Vishvas Manjare
CAPGEMINI
Capgemini

Jayesh Kuwar
CAPGEMINI
Capgemini

Raju Noronha
CAPGEMINI
Capgemini

Kunal Patel
ALTIMETRIK, PUNE
ALTIMETRIK

Kashish Mohnani
ALTIMETRIK, PUNE
ALTIMETRIK

Shubham Tharani
ALTIMETRIK, PUNE
ALTIMETRIK

Chandan Kumar
ALTIMETRIK, PUNE
ALTIMETRIK

Nihar Ingle
ACMEGRADE

Shivam Kumar
WIPRO
wipro

Mohanki Shreya
CAPGEMINI
Capgemini

Nutan Navale
CAPGEMINI
Capgemini

Aditya Sawase
CAPGEMINI
Capgemini

Mayuri Borkar
INFOSYS
Infosys

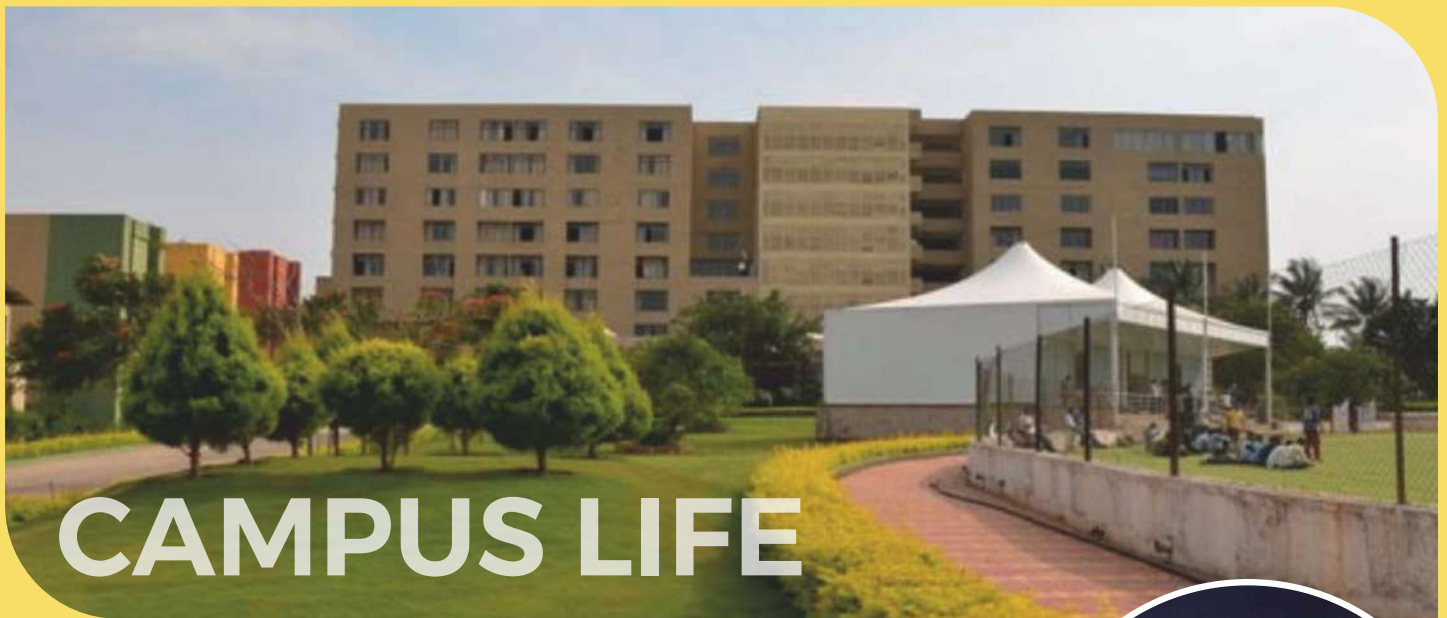**Sanket Deshmukh**
INFOSYS
Infosys

Nilesh Bhavane
PENTAGON SPACE

STUDENT ACHIEVEMENTS

➤ IT COLLOQUIM 2022 Projects Expo presentation of projects by 300 in Computer Science and IT in Artificial Intelligence, Machine Learning, Cloud Computing, Cyber Security , Image Processing , Deep Learning and Cryptography.

➤ Real Time Projects submitted with built protocol by 53 students for Socio Make-a-Thon by AMDOCS Pune.

➤ Won First Prize in Quasar Hackathon in Smart City Domain.

➤ Won First Prize in Quasar Hackathon in MediTech Domain.

➤ Won Second Prize Spot Genius in KLEOS National Hackathon

➤ Received Sponsorship for start-up "VAPTOR" worth Rs 5Lakh .

➤ SAE BAJA 2019 and ATVC 2020.

➤ Basketball event in 18th'ZEST-20' organized in 2020.

➤ Basketball event in 'VIJAY-2K19' in 2019.

➤ 'MAHARASHTRA SHREE-2019' State Level Body Building Championship organized by Maharashtra Body Builder Association in 2019.

➤ 'BEST PHYSIQUE COMPETITION' Inter Collegiate Competition in 2019.

➤ 'BODY BUILDING CHAMPIONSHIP' in 2019.

➤ Basketball event 'SUMMIT 18'National Level Inter-Engineering Sports Meet in 2018.

CAMPUS LIFE

CAMPUS

DY Patil University is known for its Architecturally well designed buildings, large campuses, world class stadium and sports culture. Ambi campus is spread over more than 40 acres of land, fresh air and climate, lush green and amidst of nature near the valley. Campus has modern structure, academic spaces include library, studio, labs & workshops.

STUDENT CLUBS

Students at campus can pursue their passions through clubs like Photography club, the dancing club, the film club, the singing club, the theatre/ club, storytelling club, book reading club and sports club are engaged to organize various competitions and events.

STUDENT COUNCIL

University has elected student council which contributes in the academic and disciplinary proceedings. Committees are Student Welfare Committee, Sports Committee, Cultural Committee and Youth Leadership Development Committee.

INFRASTRUCTURE

The campus is amidst nature with flora and fauna gives the campus a uniqueness and located near the valley. Infrastructure is a modern design which resulting into a scenic and beautiful campus with quietness and harmony.

ACCOMMODATION*

University has best accommodation facilities for boys and girls students.

LIBRARY

Library is equiped with books, journals, E Resources & Data bases.
DYPU quarterly publish journal "IJSTEAM With ISSN No. 2582-8509

"Creativity is inventing, experimenting, growing, taking risks, breaking rules, making mistakes and having fun "

CAMPUS EVENTS

🖥️ Eligibility Criteria for B.Tech (1st Year & Direct 2nd Year)

Maharashtra State Candidate

1. The Candidate should be an Indian National.

2. Passed 10+2 examination with Physics/ Mathematics / Chemistry/ Computer Science/Electronics/Information Technology/ Biology/Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/Entrepreneurship. (Any of the three) Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.

OR

Passed min. 3 years Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) subject to vacancies in the First Year, in case the vacancies at lateral entry are exhausted. (The Universities will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the program) and The Candidate should have appeared in all the subjects in MHT-CET 2021/PERA-CET 2021 and should obtain nonzero score in MHT-CET2021/PERA-CET 2021.

OR

3. Passed Diploma in Engineering and Technology and obtained at least 45 % marks (at least 40 % marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only).

OR

4. Passed IB(International Baccalaureate) Diploma with a minimum score of 24 Credits

OR

5. Passed B. Sc. Degree with minimum 50% marks (Minimum 45% in case of in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only).

All India Candidates

1. The Candidate should be an Indian National.

2. Passed 10+2 examination with Physics/ Mathematics / Chemistry/ Computer Science/Electronics/Information Technology/ Biology/Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/Entrepreneurship. (Any of the three) Obtained at least 45% marks (40% marks in case of candidates belonging to reserved category) in the above subjects taken together.

OR

Passed min. 3 years Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) subject to vacancies in the First Year, in case the vacancies at lateral entry are exhausted. (The Universities will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the program) and should obtain nonzero positive score in JEE Main Paper I OR the candidate should have appeared in all the subjects in MHT-CET 2021/PERA-CET 2021 and should obtain nonzero score in MHT-CET2021/PERA-CET2021.

OR

3. Passed Diploma in Engineering and Technology and obtained at least 45 % marks (at least 40 % marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only).

OR

4. Passed IB(International Baccalaureate) Diploma with a minimum score of 24 Credits

OR

5. Passed B. Sc. Degree with minimum 50% marks (Minimum 45% in case of in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only).

Eligibility Criteria for Bachelor of Technology Direct Second Year (DSY B. Tech)

Maharashtra State Candidate & All India Candidates

1. The Candidate should be an Indian National.

2. Passed Minimum THREE years / TWO years (Lateral Entry) Diploma examination with at least 45% marks (40% marks in case of candidates belonging to reserved category) in ANY branch of Engineering and Technology.

OR

2. Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% marks in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.

OR

2. Passed D.Voc. Stream in the same or allied sector. (The Universities will offer suitable bridge courses such as Mathematics, Physics, Engineering drawing, etc., for the students coming from diverse backgrounds to achieve desired learning outcomes of the programme)

Eligibility Criteria Rules as stated by AICTE and UGC will be applicable time to time.

For International Students* –
Students applying through PIO(Person of Indian Origin)/FN (Foreign National)/ OCI (Overseas Citizenship of India) are requested to write a mail to admissions@dypatiluniversitypune.edu.in or contact Admission Office on 8448444230. +91 020 4717 0924

Eligibility Criteria for M.Tech

1. Candidate should be an Indian National.

2. Passed Bachelor's Degree in relevant field of Engineering and Technology from All India Council for Technical Education or Central or State Government approved institutions or equivalent, with at least 50% marks(at least 45% in case of Backward class categories and Person with Disability candidates belonging to Maharashtra State only)

3. Passed Bachelor Degree in the relevant course of Engineering and Technology as specified in the eligibility criteria for admission to a Post Graduate Degree course of the concerned University for which admission is being sought

4. Obtained Non-Zero positive score in Graduate Aptitude Test in Engineering (GATE) conducted by Indian Institute of Technology.

OR

5. For sponsored candidate, minimum two years of full timework experience in a registered firm / company/ industry/ educational and/or research institute / any Government Department or Government Autonomous Organization in the relevant field in which admission is sought.

Selection Process

Inter-Se-Merit based on score in MHT-CET/JEE(Main) for seeking admission through Maharashtra State Quota OR Inter-Se-Merit based on score in MHT-CET 1/JEE (Main) for seeking admission in All India Quota. Eligible candidate are required to apply along with academic credentials and required entrance test score. Candidate has to appear for selection process of DYPU. Based on above, a merit list will be prepared.

Eligibility Criteria for Diploma Engineering

- For first year Diploma Engineering
  SSC Passed with 35% marks (Best of 5)

- For Direct Second Year Admission
  HSC Science/Vocational /ITI (2 years) passed with 35% marks (PCB/PCM/PCMB)

Eligibility Criteria as per Regularity Bodies namely AICTE/UGC shall be applicable

Admission Process

Approaching Campus → DYPU Registration Form Filling → Admission Counselling → Join WhatsApp Group → Orientation Workshop → Form Filling → Guidance → PI → Offer Letter to Take Admission → Confirmation of Seat by payment of fees

Apply Online

www.dypatiluniversitypune.edu.in

D Y PATIL UNIVERSITY PUNE | AMBI
|| ज्ञानधीनं जगत् सर्वम् ||
School of **Engineering & Technology**

Scan to Apply

Apply online