





STUDY MATERIAL FOR BTECH EXAMS BY BITS PILANI FOR WORKING PROFESSIONALS UNDER WILP*

- WORK INTEGRATED LEARNING PROGRAM

-  **Study Kit:** Course is divided into several modules as per syllabus
-  **Faculty:** Guided by scholars and retired faculty members from IITR
-  **Effectiveness:** 100% exam oriented with dynamic updates
-  **Support:** Contact us on WhatsApp | Call | Email *anytime*

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BITS Pilani

Pilani | Dubai | Goa | Hyderabad | Mumbai

**WORK INTEGRATED
LEARNING PROGRAMMES**

46
Years
of Delivering
Excellence

B.Tech.

Engineering Technology

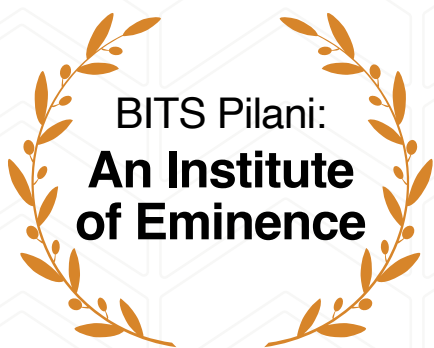
for working professionals

Learn. Work. Grow.

Programme Brochure

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BITS Pilani:

Since 1964, BITS Pilani has been a pioneer in higher education, recognised as an Institute of Eminence by the UGC and Ministry of Education. Known for academic excellence, it has grown into a globally respected institution and was the first Indian university to establish an international campus in Dubai.

Welcome to BITS Pilani's Work Integrated Learning Programmes (WILP)

At BITS Pilani WILP, we blend education with professional growth through tailored programmes aligned with both business and learner goals. Professionals gain new skills, adopt best practices, and make a meaningful impact, while organisations benefit from increased productivity, retention, and a motivated workforce. Our UGC-approved programmes offer real-world, practical knowledge, ensuring lasting success.



46

Years of legacy

1,36,904

Working Professionals
Graduated

353

CEOs and
Founders

4,997

Global Heads,
Presidents & Directors

367

Organisations Trust Us
As Learning Partner

50,117

Working Professionals
Currently Enrolled



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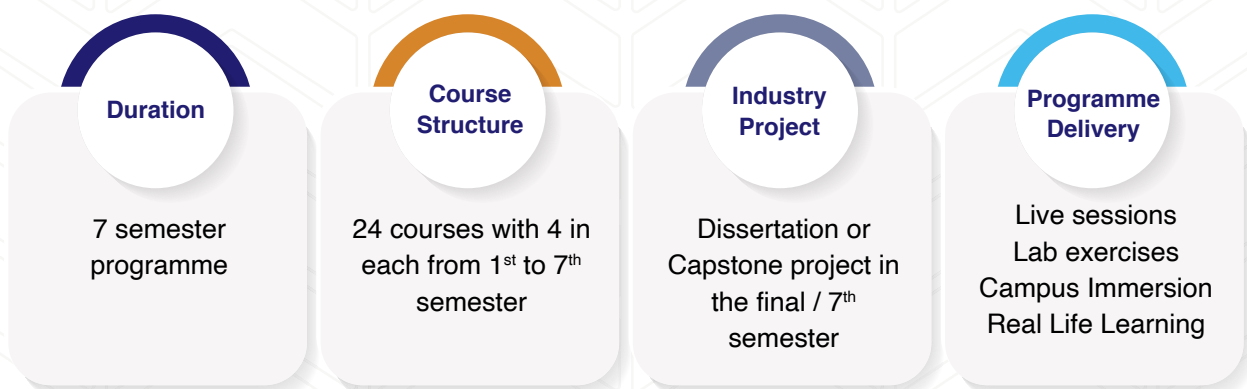
B.Tech. Engineering Technology

Programme Introduction

With a comprehensive curriculum, experiential learning, and flexible education methods, the B.Tech. in Engineering Technology is a seven-semester Work Integrated Learning Programme designed for working professionals seeking to gain a multidisciplinary edge in today's technology-driven world.

The programme provides a strong intellectual foundation in contemporary technologies while reinforcing core engineering fundamentals. It equips learners with a broad, multi-domain perspective—enabling them to integrate knowledge across disciplines and apply it effectively in modern engineering practice.

Programme Structure



Eligibility Criteria

- Minimum eligibility to apply: Working professionals holding Diploma in Engineering/ B.Sc. in relevant disciplines, with at least 60% aggregate marks and minimum of two years of work experience after the completion of the degree in relevant domains.

The programme is designed for:

- Highly driven and ambitious engineers who wish to gain deep insight into Core Engineering, Manufacturing and Executive Management functions
- Experienced professionals aspiring to gain an overall competency in the popular technology domains, which sets them apart from narrow specialisations

Who Should Apply

Highly driven and ambitious engineers who wish to gain deep insight into Core Engineering, Manufacturing and Executive Management functions.

Experienced professionals aspiring to gain an overall competency in the popular technology domains, which sets them apart from narrow specialisations.



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B.Tech. Engineering Technology

Programme Objectives



Create technologists in the fields of Mechanical, Circuits, Thermal and Manufacturing systems



Enabling students develop and implement innovative technological solutions for industrial problems



Provide requisite conceptual foundation and contextual understanding of real-world applications



Enable communication skills to effectively interact as members of cross functional teams

Career Outcomes

The programme will build you for aspirational career as

Design / Development Engineer

Application Engineer

Product Engineer

Maintenance / Service Engineer

Quality Control Engineer

Project Engineer / Site Engineer

Support Engineer

Production / Manufacturing Engineer

Validation Engineer

Pre-sales Engineer

CAD / CAM / CAE Engineer



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Key Benefits of BITS Pilani WILP



Unlock Cutting-Edge Technologies & Industry Practices

Stay ahead of the curve with future-ready tools, methods, and frameworks used by leading professionals worldwide.



Master Hands-On Learning Skills

Apply real world concepts in virtual & remote labs, case studies and simulations that build practical mastery.



Be a Top-Notch Professional in Your Field

Sharpen your expertise, build leadership skills, and accelerate your career growth with industry-relevant learning.



Learn from Best Minds & Industry Experts

Gain insights and mentorship from top faculty and experienced professionals who shape the future of industries.



Grow Without a Career Break

Continue your learning alongside your job, upgrading your skills without taking a career break.



Become Alumni of a Top Institution

Earn credentials from a globally recognised institution and join a powerful, lifelong alumni network



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B.Tech. Engineering Technology

Student Learning Journey

Our programmes are designed to help you grow, excel, and advance in your career. By combining industry-relevant skills with academic excellence, we ensure that your learning journey leads to real, measurable progress. Whether you're looking to boost productivity, stay motivated, or take the next step in your professional path, our courses empower you to achieve more. Invest in yourself today and build a future where you're not just keeping up but leading the way.



Programme Orientation



Live Sessions from BITS Experts



Lab Sessions for Practical Learning



Assessment & Mentoring



Campus Immersion Programme



Workplace Project or Dissertation



Convocation & Degree Award



Become a BITS Alumni



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B.Tech. Engineering Technology

Live Interactive and Engaging Learning Methodology



Live Learning

Live sessions for each course

32 hours of live instruction of each course on weekends in an interactive mode.

Faculty-guided | hands-on learning

Solve real life case studies, assignments & more and receive feedback on the same from the faculty members.

Experiential Learning

Experiential Learning Centres

Learning centres at major cities will go live in 2025 that will have physical labs and faculty members at one place for learners to conduct experiments & practical.

Campus Immersion Programme

Opportunity to visit the BITS campus to learn, experience labs, network with peers and get mentored by BITS leadership.



Project Based Learning

Final Semester Project

Learners pick project from their workplace or industry dissertation to apply their learning and suggest improvements.

Develop Problem Solving Skills

Identify, analyse, and effectively find solutions utilising critical thinking & analytical reasoning.

Self-Learning

Flexible learning with access to digital resources

Learners can access e-learning content, recorded sessions, and assignments on our LMS anytime, anywhere.

Library access to books & journals.

Learners get subscription to the world's largest collection of eBooks and other reading resources through OpenAthens.



Flexible Learning

You can take a break to attend personal or professional commitment. Come back & join from where left (Please take advise from your programme co-ordinator on details).



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Labs & Practical Session

Our programmes are designed for real-world impact. With hands-on simulations and remote labs, you don't just learn you apply. Gain practical experience, sharpen problem-solving skills, and master industry-relevant techniques in a dynamic, immersive environment.



Virtual Labs

Software (for design, analysis, modelling, and simulation) hosted on the cloud and accessible online from anywhere.



Remote Labs

Physical lab equipment operated & controlled by students from remote locations.



Simulation, AR / VR & Web Based

Manipulate parameters to understand their impact in a real-world system.

Lab Infrastructure

Access integrated engineering labs combining mechanical, electrical, and software tools. Automation systems, manufacturing equipment simulators, and multi-disciplinary engineering platforms.

Hands-on Experience

Work on cross-disciplinary engineering projects, operate automation systems, solve practical engineering problems, and integrate multiple engineering domains. Apply engineering principles using hands-on laboratory experiences.



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Tools & Technologies You Will Learn



Campus Immersion Programmes



Learners have the opportunity to visit BITS Pilani campuses for specially curated immersion modules. These sessions offer face-to-face interactions with faculty, hands-on lab experiences, peer networking, and a glimpse into the vibrant campus life.



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Earn a Prestigious Degree and Alumni Status of BITS Pilani



Upon successful completion of the programme, learners are awarded a formal degree during the convocation ceremony, just like on-campus students. This degree comes with the prestigious BITS Pilani alumni status, unlocking lifelong recognition and connection to a global network.

About BITS Alumni Association



Graduates can join BITSAA (BITS Alumni Association), a thriving global community of BITSians. Membership offers access to alumni events, mentorship opportunities, and a range of career and networking benefits. The registration process is simple and can be completed online post-graduation.



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Programme Curriculum

Participants need to take at least 24 courses & Project work. The coursework requirement for the programme would consist of a set of core courses and electives. Core courses are compulsory for all participants, while electives can be chosen based on individual learning preferences.

First Semester

- Electrical & Electronics Technology
 - Engineering Materials
 - Calculus
 - Computer Programming
-

Third Semester

- Maintenance & Safety
 - Manufacturing Processes
 - Engineering Design
 - Production Planning & Control
-

Fifth Semester

- Quality Control Assurance & Reliability
 - Elective 1
 - Elective 2
 - Elective 3
-

Seventh Semester

- Project Work

Second Semester

- Probability & Statistics
 - Engineering Measurements
 - Linear Algebra & Optimisation
 - Mechanical Technology
-

Fourth Semester

- Instrumentation & Control
 - Materials Management
 - Essentials of Project Management
 - IoT In Manufacturing
-

Sixth Semester

- Elective 4
- Elective 5
- Elective 6
- Elective 7



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General Pool of Electives

- Energy Management
- Environmental Pollution Control
- Flexible Manufacturing Systems
- Management Information System
- Manufacturing Excellence
- Mechatronics & Automation
- Microprocessors & Microcontrollers
- Additive Manufacturing
- Advanced Driver Assistance Systems
- Connected Cars
- Plant Layout & Design
- Electric & Hybrid Vehicles
- Principles of Management
- Technical Report Writing
- Fundamentals of AI/ML
- Vehicle Testing and Standards
- Machine Learning for Edge
- Mechanical Vibrations & Acoustics
- Pharmaceutical Management and Quality Control
- Process Engineering
- Introduction to Pharmaceutical Administration & Management

Note: Choice of Electives is made available to enrolled students at the beginning of each semester. A limited selection of Electives will be offered at the discretion of the Institute.



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Assessment Methodology



Continuous Assessment

Quizzes, assignments, mid-semester and comprehensive exam



Case studies & Assignments

Real-world cases used as in-class problem-solving exercises



Dissertation/ Project Work

- Apply learnings to a complex, real-world project
- Demonstrate understanding of learnt concepts

Mode of Examination

- Applicable for students admitted from January 2026 batch onward.
- Semesters 1–3 include mid-semester and comprehensive exams for each course.
- In-person exams mostly held on Friday, Saturday or Sunday at designated centers.
- Quizzes/assignments conducted online via Learning Management System (LMS).
- Semester 4 includes Dissertation/Project Work as per guidelines.



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Exam Centre for Indian Students

Students can take exams at any of our **36 designated centres**, including:



Bangalore, Chennai, Hyderabad, Vijayawada, Visakhapatnam, Kochi, Thiruvananthapuram, Coimbatore, Madurai and Mysore.



Delhi NCR - Delhi, Delhi NCR - Faridabad, Delhi NCR - Greater Noida, Delhi NCR - Gurugram, Jaipur, Chandigarh, Lucknow, Pilani and Udaipur.



Ahilya Nagar (Ahmednagar), Ahmedabad, Goa, Indore, Bhopal, Mumbai, Mumbai - Navi, Mumbai - Thane, Nagpur, Pune, Raipur, Surat and Vadodara.



Kolkata, Guwahati, Bhubaneswar and Jamshedpur.

Exam Centre for International Students

- A designated international exam centre is available in Dubai.
- Students outside India and Dubai can opt for online exams by submitting:
 - a) Scanned copy of valid visa for the country in which you are currently residing.
 - b) Scanned copy of government-issued ID from the residing country.
 - c) HR recommendation or endorsement letter from the employer, stating the location of your work.
- Indian students temporarily based out of India can also avail online exams on request with the above-mentioned documents.



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Fee Structure

The following fees schedule is applicable for candidates seeking new admission during the academic year 2025-26.



Easy Monthly Payment Option with 0% Interest and 0 Down Payment

Instant EMI option with 0% interest and 0 Down Payment is now available that allows you to pay programme fee in an easy and convenient way.

- Instant online approval in seconds
- No Credit Cards/ CIBIL score required
- Easy & Secure online process using Aadhaar and PAN number
- Anyone with a Salary Account with Netbanking can apply Option to submit fee using easy - EMI with 0% interest and 0 down payment

Admissions Open for January 2026 Batch

All the above fees are non-refundable.

Important: For every course in the programme, institute will recommend textbooks, students would need to procure these textbooks on their own.

[Click here](#) to learn more



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How to Apply

Login to our Application Centre to apply for the programme. [Click Here](#).

1



Fill the Application Form

2



Review & Pay the Application Fee

Verify your details and pay the application fee

3



Submit Mentor & Employer Info

4



Upload relevant documents

5



Selection & admission offer

Admissions cell will review your application to be offered the admission over email or application portal within 2-3 weeks.



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Students Speak



I was looking for a programme that would help me excel in my career without a career break. My search led me to BITS Pilani Work Integrated Learning Programme. The best thing about this programme is that it can be pursued online and meets the current industry requirements well. Also, this programme has to offer one of the best faculties. Highly recommended!

C. Chidananda

Project Engineer, Toyota Kirloskar Pvt Ltd.



Being an engineer, I was looking for a programme to upskill myself and expand my horizons. B.Tech. Engineering Technology from BITS Pilani WILP turned out to be exactly what I was looking for. Also, so far, I've learned around 11+ tools, which is the most to be learned in a single course. Virtual labs and remote labs turned out to be useful and equally timesaving.

Shridhara N

Verification Engineer, Baxter Healthcare



I realised while working that there is a need to upgrade myself and sharpen my skills and competencies. This programme from BITS Pilani WILP really helped me to achieve all the goals I had set for myself. The best part is that I could pursue this degree programme without taking any career break and attend classes online. My experience with the programme has been truly enriching.

Anand Karapurkar

Assistant Chief Manager, Godrej & Boyce



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Workforce Transformation Since 1979

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