



ANJUMAN-I-ISLAM'S M. H. SABOO SIDDIK POLYTECHNIC

Approved by AICTE, DTE & Affiliated to Maharashtra State
Board of Technical Education (MSBTE)

INFORMATION TECHNOLOGY (IT) ENGINEERING

WHAT IS INFORMATION TECHNOLOGY (IT) ENGINEERING?

Information Technology Engineering is the application of engineering principles to the design, development, management, and use of computer-based systems, networks, software, and data infrastructure. IT Engineers bridge the gap between hardware and software, enabling efficient storage, processing, and communication of information across digital systems. The IT programme at MHSSP equips students with hands-on technical skills and a strong conceptual foundation to excel in an ever-evolving digital world.

WHERE IS IT USED?

- Banking, Finance & FinTech
- Healthcare & Hospital Management Systems
- E-Commerce & Retail (Amazon, Flipkart)
- Government & Smart City Infrastructure
- Telecommunication & Media
- Education Technology (EdTech)
- Cybersecurity & Digital Forensics
- Manufacturing & Industrial Automation (Industry 4.0)

SKILLS YOU DEVELOP

- Logical thinking & problem-solving
- Programming in Python, Java, C/C++
- Network configuration & troubleshooting
- Database design & administration
- Web development (HTML, CSS, JavaScript, PHP)
- Cybersecurity awareness & ethical hacking basics
- Cloud platforms (AWS, Azure basics)
- Communication & professional presentation skills

CAREER OPTIONS / PROMISING CAREER ROLES

- Software Developer / Web Developer
- Network Engineer / System Administrator
- Database Administrator
- Cybersecurity Analyst
- Cloud Engineer
- Data Analyst / Business Intelligence Analyst
- IT Support Engineer
- DevOps Engineer
- AI/ML Engineer (after higher studies)
- Digital Marketer & SEO Specialist

SPECIAL CAREER OPTIONS

- Ethical Hacker / Penetration Tester
- Blockchain Developer
- AI Prompt Engineer & LLM Specialist
- Forensic IT Analyst
(with law enforcement agencies)
- Game Developer
- Cybersecurity Consultant for
Government / Defence
- Entrepreneurship & Tech Startups

TOP RECRUITERS OPPORTUNITIES



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