**Diploma In Electrical Engineering**

**It is often said that "Electrical Technology is the cornerstone of all Industries." This statement underscores the pivotal role of Electrical Technology in the functioning of industrial facilities. In our nation, the significance of Electrical Technology extends beyond the power sector, encompassing various electricity-driven industries. Consequently, the demand for Electrical Engineering professionals is on a constant upswing. A fertile ground has been laid for the younger generation who have graduated in Electrical Engineering to meet this increasing demand for skilled engineers.**

**Program Objective**

**Diploma in Electrical Engineering program can be a good choice for your career. At Diploma in Electrical Engineering Sector students have huge potential to build a career. An Electrical Engineer has the opportunity to work in a government / autonomous / non-governmental organization. Employment Opportunities in Electrical Power Generation and Distribution Company, Telecommunication Industry, IT, RMG, BREB, PWD, DESA, DESCO, R&H, BPDB, MES, DPDC, PGCB, and various service sectors. Also, an diploma electrical engineer can establish himself as an entrepreneur by setting up small or medium scale industrial factories.**

**Features :**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success :**

An innumerous number of students passed from SIPI are living standard lives for service & study in Europe, America, Australia, South African countries worldwide. Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

(Admission, Registration, Examination, Certificate issue etc. all procedure controlled by Technical Education Board)

**Class Schedule:**Except weekend holidays & public holidays, pursuant to rules of Technical Education Board classes taken as per routine of Institute.

**Admission Requirement :**

At least 2.00 GPA in SSC or Equivalent Examination any group since 2012 or after & also passed/failed students of HSC examination.

H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Admission Requirement**

* At least 2.00 GPA in SSC or Equivalent Examination any group since 2013 or later & also passed/failed students of HSC examination.
* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

### **Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Machine Lab
* Plc Lab
* Majorant Lab

**Course Outline:**

* **SEMESTER-1**
* Basic Electricity
* Basic Electronics
* Engineering Drawing
* Mathematics-1
* Physics-1
* Bangla
* Physical & Life Skill Education
* **SEMESTER-2**
* Electrical Circuits-1
* Advanced Electricity
* Electrical Engineering
* Materials
* Computer Application-I
* Mathematics-2
* Physics-2
* Applied English
* **SEMESTER-3**
* Electrical Circuits-2
* Electrical Appliances
* Electrical Engineering
* Drawing
* Computer Application-2
* Mathematics-3
* Chemistry
* Social Science
* **SEMESTER-4**
* Electrical Installation
* Planning & Estimating
* DC Machines
* Windings of Electrical
* Machines
* Industrial Electronics
* Applied Mechanics
* Environmental Management
* Book Keeping and Accounting
* **SEMESTER-5**
* Electrical and Electronic Measurements-1
* Generation of Electrical Energy
* Renewable Energy
* Digital Electronics
* Communication
* Engineering
* Graphics Design
* Industrial Management
* **SEMESTER-6**
* Alternating Current Machines-1
* Electrical & Electronic Measurement-2
* Transmission & Distribution of Electrical Energy-1
* Microprocessors, Micro Controller & PLC
* Programming in C
* Entrepreneurship
* **SEMESTER-7**
* Alternating Current Machines-2
* Transmission & Distribution of Electrical
* Engineering Drawing
* Energy-2
* Switch gear & Protection
* Instrumentation & process control
* Testing & Maintenance of Electrical Equipment
* Electrical Engineering Project

**Diploma In Computer Engineering**

**In the contemporary world, a nation's prowess in computer and information technology is directly proportional to its advancement in art, literature, culture, and its economic prosperity. Over the past decade, our nation has witnessed a revolutionary surge in computerization across all sectors. The ubiquitous presence of computers is evident in every facet of our society, be it within organizations, industries, or even fields as diverse as art, literature, banking, insurance, and education. This technology permeates every corner of our lives.**

**Consequently, a burgeoning population of young minds has embraced information technology, paving the way for prestigious careers both within our country's borders and on the global stage. The infusion of IT knowledge has not only reduced unemployment within our nation but has also generated a positive ripple effect on our economic landscape. A considerable number of our country's youth, who have harnessed this IT expertise, now lead successful lives through education and employment opportunities in various regions across Europe, America, Australia, and South Africa.**

**Even those who have chosen to remain within our country's borders have made remarkable strides. They are pursuing B.Sc. Engineering degrees in esteemed universities and contributing their skills and expertise to renowned domestic and multinational corporations. The synergy between technology and education has been instrumental in propelling our country forward in an era where technological prowess stands as the cornerstone of progress.**

**Program Objective**

* **Provides the highest quality education so that students can cope with both undergraduate and graduate program.**
* **Provides state-of-the-art education.**
* **Establish a productive Computer Science and Engineering career in industry, academia, or government sector.**
* **Ensure career development in the field of computer systems engineering or software systems engineering.**
* **Students will be trained in such a way that they can work as a team member or be able to lead a team effectively.**
* **Students will learn the development of innovative systems and solutions using hardware and software integration.**

**Features:**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success:**

An innumerous number of students passed from SIPI are living standard lives for service & study in Europe, America, Australia, South African countries worldwide. Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

(Admission, Registration, Examination, Certificate issue etc. all procedure controlled by Technical Education Board)

**Class Schedule:**Except weekend holidays & public holidays, pursuant to rules of Technical Education Board classes taken as per routine of Institute.

**Admission Requirement:**

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**Admission Requirement**

* At least 2.00 GPA in SSC or Equivalent Examination any group since 2013 or later & also passed/failed students of HSC examination.
* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

### **Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Machine Lab
* Plc Lab
* PLC Lab
* Computer Lab
* Software lab
* Hardware Lab
* Networking lab

**Course Outline:**

* **SEMESTER-1**
* Engineering Drawing
* Computer Fundamental
* Computer Application-1
* Basic Electricity
* Applied English
* Mathematics-1
* Chemistry
* **SEMESTER-2**
* Computer Application-2
* Basic Electronics
* Computer Workshop Practice
* Physics-1
* Mathematics-2
* Bangla
* Physical & Life Skill Education
* **SEMESTER-3**
* Programming in C
* Web Design
* Digital Electronics-1
* Electrical Device & Circuits
* Mathematics-3
* Physics-2
* Social Science
* **SEMESTER-4**
* Object Oriented Programming in C++
* Graphic Design
* Data Structure & Algorithm
* Web Development
* Digital Electronics-2
* Electrical Machines
* Discrete Mathematics
* **SEMESTER-5**
* Programming in C#
* Computer System Software
* Database Management System
* E-commerce & CMS
* Web Development Project
* Book Keeping & Accounting
* Environmental Management
* **SEMESTER-6**
* Programming in JAVA
* Microprocessor & Microcomputer
* Data Communication & Computer Network
* Computer Architecture & Peripherals
* Database Management System Project
* Computer Servicing & Maintenance
* Industrial Management
* **SEMESTER-7**
* Embedded System & PLC
* Mobile Apps Development
* Network Administration & Management
* Digital Marketing Technology
* Computer Engineering Project
* Information Management and Security
* Entrepreneurship
* Electrical Engineering Project
* **SEMESTER-8**
* Industrial Training
* **SEMESTER-8**
* Industrial Training

**Diploma In Civil Engineering**

**Civil engineers play a pivotal role in shaping and advancing our society, contributing significantly to the nation's development through their specialized skills and expertise. Their responsibilities have expanded to include critical areas such as fire safety, where they are now tasked with implementing fire control systems and designing quick and efficient fire exit points within the buildings they create. These measures not only enhance the safety of occupants but also minimize the potential loss of life in the event of fire accidents.**

**Another crucial facet of civil engineering is environmental engineering. Here, civil engineers focus on the application of various methods to purify contaminated air, water, and soil. They are instrumental in rectifying polluted systems, extracting waste, and restoring purified elements to the natural environment, thus preserving the ecological balance.**

**In addition to these vital roles, civil engineers are also responsible for the construction of high-quality transportation systems, including highways, airports, rail lines, and seaports. They take on the critical task of designing these structures and overseeing their construction, ensuring their long-term durability and functionality. Moreover, they strive to make these transportation facilities comfortable and convenient for the public, further enhancing the overall quality of life in society.**

**Program Objective**

**Considering a Diploma in** **Civil Engineering can be a promising step for your future career. This field represents a pivotal branch of contemporary engineering and technology, focusing on the planning, design, and practical execution of various infrastructure projects. This encompasses a wide array of complex undertakings, such as the supervision and construction of public works like roads, bridges, tunnels, buildings, airports, dams, sewerage systems, ports, and more.**

**Civil Engineers play a critical role in the inception, execution, and maintenance of these projects. They are individuals who have obtained a Diploma in Civil Engineering, equipping themselves with a blend of engineering expertise and essential administrative skills. This multifaceted education opens doors to a spectrum of career opportunities, including positions as site engineers, project managers, and roles related to design, research, and education across diverse construction projects, both in the public and private sectors.**

**Furthermore, Diploma in Civil Engineering graduates also find opportunities as Deputy Assistant Engineers in a variety of government, semi-government, and autonomous organizations. These may include institutions such as LGED, PWD, R&H, BR, BBA, MES, EED, WASA, DESCO, DPDC, WDB, BADC, and even within entities like Bangladesh Airlines, the Telecom Industry, as well as various public and private housing and development projects. A Diploma in Civil Engineering can be the gateway to a dynamic and rewarding career path.**

**Features :**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success :**

The success of a civil engineer can be measured and evaluated in various ways, and it depends on individual goals, achievements, and contributions to the field of civil engineering. Here are some factors that can be considered indicators of success for civil engineers.

**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

(Admission, Registration, Examination, Certificate issue etc. all procedure controlled by Technical Education Board)

**Class Schedule:**Except weekend holidays & public holidays, pursuant to rules of Technical Education Board classes taken as per routine of Institute.

**Admission Requirement :**

At least 2.00 GPA in SSC or Equivalent Examination any group since 2012 or after & also passed/failed students of HSC examination.

H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Admission Requirement**

* At least 2.00 GPA in SSC or Equivalent Examination any group since 2013 or later & also passed/failed students of HSC examination.
* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

### **Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Machine Lab
* Plc Lab
* Majorant Lab

**Course Outline:**

* **SEMESTER-1**
* Engineering Drawing
* Bangla-1
* English-1
* Mathematics-1
* Physics-1
* Basic Electricity
* Basic Workshop practice
* **SEMESTER-2**
* Engineering Materials
* English-2
* Social Science-I
* Mathematics-2
* Physics-2
* Computer Application-I
* Basic Electronics
* **SEMESTER-3**
* Civil Engineering Drawing (CAD)-1
* Surveying-1
* Structural Mechanics
* Mathematics-3
* Chemistry
* Social Science-2
* Physical Education & Life Skill Development
* **SEMESTER-4**
* Surveying-2
* Estimating & Costing-1
* Geotechnical Engineering
* Construction Process-1
* Hydraulic
* Computer Application-2
* Business Organization & Communication
* **SEMESTER-5**
* Foundation Engineering
* Surveying-3
* Environmental Engineering-1
* Theory of Structure
* Construction Process-2
* Environmental Management
* Book Keeping and Accounting
* **SEMESTER-6**
* Advance Surveying
* Transportation Engg-1
* Design of Structure-1
* Civil Engineering Drawing (CAD)-2
* Construction Management
* Programming in C
* Industrial Management
* **SEMESTER-7**
* Estimating & Costing-2
* Environmental Engg-2
* Transportation Engg-2
* Design of Structure-2
* Hydrology & Water Resources Engg
* Civil Engineering Project
* Entrepreneurship
* **SEMESTER-8**
* Industrial Training

### **Lab Facilities**

* Construction Lab
* Surveying Lab
* Computer Lab
* Hydraulics Lab
* Geotechnical Lab

**Diploma In Architecture**

**Architecture and interior design represent some of the most ancient fields within the realm of engineering education. The fundamental objective of this discipline is to craft and enhance the aesthetic and functional aspects of a structure's interior. Upon completing a course of study in this field, a plethora of exciting career prospects become available.**

**One can easily find their footing in this sector, as an architectural engineer can dive into the realm of building construction, taking on roles such as a site engineer, overseeing construction projects from the ground up. Alternatively, one can establish themselves as an independent consultant, providing invaluable insights and expertise to various companies seeking design and architectural guidance.**

**Moreover, extensive opportunities await architectural engineers within the public and semi-public sectors, offering a wide range of roles that contribute to the planning and development of the built environment. Whether in private practice or within governmental institutions, the world of architecture and interior design opens doors to a diverse and fulfilling career journey.**

**Program Objective**

**Architecture engineers are professionals who focus on the art and science of constructing buildings. They are dedicated to the meticulous planning and execution of architectural projects. In parallel, interior designers collaborate closely with architects to devise interior layouts that optimize space utilization, combining functionality and utility to create harmonious and practical living or working spaces.**

**On the other hand, interior decorators have a distinct role, concentrating on elements such as color schemes, furniture selection, furnishings, decorations, and arrangements to enhance the aesthetic appeal and ambiance of interiors.**

**Architecture, as an overarching discipline, embodies the art of constructing structures that seamlessly blend human needs with available construction materials, culminating in practical and aesthetically pleasing solutions. It is a field that marries passion, scientific principles, and business acumen. Architects undertake the intricate process of designing not only individual buildings but also entire cities and spaces. Their work reflects a profound understanding of culture, history, and innovation, resulting in new architectural creations that stand as a testament to the evolution of our society.**

**Features :**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success :**

The success of a civil engineer can be measured and evaluated in various ways, and it depends on individual goals, achievements, and contributions to the field of civil engineering. Here are some factors that can be considered indicators of success for civil engineers.

**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

(Admission, Registration, Examination, Certificate issue etc. all procedure controlled by Technical Education Board)

**Class Schedule:**Except weekend holidays & public holidays, pursuant to rules of Technical Education Board classes taken as per routine of Institute.

**Admission Requirement:**

At least 2.00 GPA in SSC or Equivalent Examination any group since 2012 or after & also passed/failed students of HSC examination.

H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Admission Requirement**

* At least 2.00 GPA in SSC or Equivalent Examination any group since 2013 or later & also passed/failed students of HSC examination.
* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

### **Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Machine Lab
* Plc Lab
* Majorant Lab

**Course Outline:**

* **SEMESTER-1**
* Mathematics‐1
* Chemistry
* Social Science
* Physical Education and Life Skills Development
* Architectural Materials and Product
* Architectural Design and Drawing‐1
* **SEMESTER-2**
* Bangla
* English
* Mathematics-2
* Physics-1
* Architectural Design and Drawing‐2
* Electrical Engineering Fundamental
* **SEMESTER-3**
* Mathmetics‐3
* Physics ‐2
* Communicative English
* Fundamental Surveying
* Interior Design ‐1
* Interior Graphics
* Computer Application
* **SEMESTER-4**
* Interior Design‐2
* CAD‐1
* History of Architecture and Interior Design
* Fundamental Construction Process
* Perspective Drawing and Rendering
* Basic Estimating & Costing
* Business Organization & Communication
* **SEMESTER-5**
* Interior Design ‐3
* Interior Working Drawing‐1
* Interior Construction ‐2
* Digital Presentation and Visual Technic
* Structural Mechanics
* Accounting Theory and Practice
* Environmental Studies
* **SEMESTER-6**
* Interior Design ‐4
* Interior Working Drawing ‐2
* Landscape Design
* Architecture Rendering and Animation ‐1
* Theory of Structure
* Air Conducting and Acoustics
* Industrial Management
* **SEMESTER-7**
* Interior Project
* Architecture Rendering and Animation ‐2
* Furniture Design and Drawing
* Design of Structure ‐1
* Model Making
* AIDT Professional Practice
* Innovation and
* Entrepreneurship
* **SEMESTER-8**
* Industrial Training

### **Lab Facilities**

* Construction Lab
* Lab Facilities
* Drawing Lab
* Survey Lab
* Computer Lab
* Drafting Lab
* Model Making Lab
* Physics & Chemistry Lab

**Diploma In Mechanical Engineering**

**The Diploma in Mechanical Engineering encapsulates the convergence of engineering, mathematics, physics, and the foundational principles of materials science. This comprehensive field is dedicated to the conceptualization, examination, fabrication, and upkeep of mechanical structures and systems. Mechanical Engineering stands as a prominent pillar within the realm of engineering, playing a pivotal role in crafting the world around us.**

**Mechanical engineers are the architects of motion; they conceive, evolve, construct, and scrutinize a diverse array of objects in motion, spanning from intricate components to complex machinery, and even encompassing the intricacies of the human body itself. In essence, they are the maestros who breathe life into power-generating marvels, including electric generators, internal combustion engines, and steam and gas turbines. Additionally, they channel their expertise into the ingenuity of power-consuming apparatus, such as the design of cutting-edge refrigeration and air-conditioning systems.**

**However, the scope of mechanical engineering doesn't cease there. It extends into the very infrastructure of our daily lives. Mechanical engineers are the masterminds behind the seamless transportation of people within buildings, as they craft the designs of elevators and escalators, ensuring the fluidity of movement in modern structures.**

**Program Objective**

**Enrolling in a Diploma in Mechanical Engineering program is a promising choice for shaping your career. This sector offers students an extensive platform for potential career growth. As a graduate in Mechanical Engineering, you open doors to a diverse range of career opportunities. Mechanical engineers find themselves in high demand within various sectors, spanning government, autonomous organizations, and non-governmental entities.**

**The prospects are abundant, with opportunities to work as Sub Assistant Engineers in esteemed institutions like the Atomic Energy Commission, Water Development Board (WDB), Power Development Board (PDB), DESCO, BRTC, PGCB, WASA, Bangladesh Science and Technology Research Center, Bangladesh Jute Development Board, Bangladesh Shipping Corporation, and numerous gas fields, to name a few.**

**Moreover, a diploma holder in mechanical engineering isn't limited to employment alone. They possess the potential to establish themselves as entrepreneurs, venturing into the creation and management of small to medium-scale industrial enterprises. The diploma program in Mechanical Engineering equips you not only with skills for employment but also with the capabilities to chart your own entrepreneurial path in the dynamic world of engineering.**

**Features:**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success:**

The success of a civil engineer can be measured and evaluated in various ways, and it depends on individual goals, achievements, and contributions to the field of civil engineering. Here are some factors that can be considered indicators of success for civil engineers.

**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

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**Class Schedule:**Except weekend holidays & public holidays, pursuant to rules of Technical Education Board classes taken as per routine of Institute.

**Admission Requirement:**

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**Admission Requirement**

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* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Course Outline:**

* **SEMESTER-1**
* Engineering Drawing Bangla
* Physical Education & Life Skill Development
* Mathematics -I Chemistry
* Electrical Engineering Fundamentals
* Mechanical Engineering Materials
* **SEMESTER-2**
* Advanced Mechanical Engineering Drawing
* Machine Shop Practice -1
* Mechanical Workshop Practice
* English
* Mathematics -2
* Physics -1 Social Science
* **SEMESTER-3**
* Machine Shop Practice-2
* Electronic Engineering Fundamentals
* Communicative English
* Mathematics-3
* Physics -2
* Computer Application Foundry & Pattern Making
* **SEMESTER-4**
* Engineering Mechanics
* Metallurgy
* Machine Shop Practice -3
* Programming Essentials
* Electrical Circuits & Machines
* Environmental Studies
* Business Organization & Communication
* **SEMESTER-5**
* Hydraulics & Hydraulic Machineries
* Mechanical Estimating & Costing
* Accounting Theory & Practice
* Advance Welding -1
* CAD & CAM
* Manufacturing Process
* **SEMESTER-6**
* Thermodynamics & Heat Engine
* Mechanical Measurement & Metrology
* Plant Engineering
* Strength of Materials
* Advance Welding -2
* Industrial Management
* **SEMESTER-7**
* Design of Machine Elements
* Tool Design
* Heat Treatment of Metal
* Mechanical Engineering Project
* Production Planning & Control
* Mechatronics & PLC
* Innovation & Entrepreneurship
* **SEMESTER-8**
* Industrial Training

### **Lab Facilities**

* Construction Lab
* Fluid Mechanics and Machines Lab
* Workshop I (Foundry and Welding) Lab
* Workshop II (Lathe, Drilling & Shaping) Lab
* Workshop III (Special Machines)
* CNC M/C Lab
* Automation & Process Control Lab
* Metrology & Machine Tool Testing Lab
* Applied Thermodynamics Lab
* CAD/CAM Lab
* Refrigeration & Air conditioning Lab

**Diploma In Telecommunication Engineering**

The demand for a Diploma in Telecommunication Engineering is on a steady rise, signaling a burgeoning interest in this thriving sector within the vast realm of information and communication technology. Telecommunications has maintained its position as one of the fastest-growing industries globally for the past decade, and this trajectory is anticipated to persist for many more years to come. Bangladesh, too, is making remarkable strides in this domain.

Upon completion of a Diploma in Telecommunication Engineering, numerous career avenues open up. As a Telecommunication Engineer, you can assume roles such as Sub-Assistant Engineer and Junior Engineer in a variety of government institutions including BTCL, BTRC, Bangladesh Railway, Radar Station, Satellite Earth Station, and the IT Sector (BASIS), among others. Furthermore, the diploma paves the way for opportunities as an instructor in both government and private polytechnic institutes.

Private sector options are equally promising, with prospects in organizations as diverse as IT Engineer, Software Developer, Broadcast Engineer (TV Channel), Network Engineer (ISP company), System Engineer, and Assistant Telecom Engineer. It's worth noting that the telecommunication sector plays a pivotal role in advancing information and communication technology, contributing significantly to the development of a knowledge-based society. Bangladesh's attainment of its own satellite, the "Bangabandhu Satellite," is a testament to the industry's growing significance and influence.

**Program Objective**

Engineering is synonymous with problem-solving, a dedicated design orientation, and the ingenious use of technology for the betterment of society. Within this engineering landscape, Telecommunication Engineering emerges as a comprehensive field within electrical engineering. It encompasses the intricacies of crafting, establishing, and overseeing systems responsible for the transmission, manipulation, and archival of information in the form of electrical signals and data.

The realm of telecommunication is expansive and incorporates a diverse array of technologies, each with its pivotal role in these intricate networks. Satellites, radio frequencies, telephone cables, and optical fibers are all indispensable elements in the intricate tapestry of telecommunication networks. The backbone of this technological symphony lies in the domain of computers, which serve as the orchestrators, processing, transforming, and preserving information while exerting control over the sprawling telecommunication networks.

**Features:**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success:**

An innumerous number of students passed from SIPI are living standard lives for service & study in Europe, America, Australia, South African countries worldwide. Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

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**Admission Requirement**

* At least 2.00 GPA in SSC or Equivalent Examination any group since 2013 or later & also passed/failed students of HSC examination.
* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Microwave Lab
* Software lab
* Hardware Lab
* Networking lab

**Course Outline:**

* **SEMESTER-1**
* Bangla
* English-1
* Physical Education & Life Skill Development
* Mathematics-1
* Physics-1
* Basic Electricity
* Basic Workshop practice
* Telecom System-1
* **SEMESTER-2**
* Engineering Drawing
* English-2
* Mathematics-2
* Physics-2
* Computer Application-I
* Basic Electronics
* Telecom System-2
* **SEMESTER-3**
* Telecom Workshop
* Computer Application-II
* Electrical Circuits
* Engineering Materials
* Mathematics-3
* Chemistry
* Social Science-1
* **SEMESTER-4**
* Network, Filter and Transmission Line
* Radio and TV Engineering
* Programming Language- 1
* Industrial Power Electronics
* Electrical Machines
* Social Science-2
* Business Organization & Communication
* **SEMESTER-5**
* Telecom Measuring & Testing Equipment
* Radio Wave Propagation & Radar
* Digital Communication
* Outside Plant
* Computer Peripherals
* Data Structure & Algorithm
* Book Keeping and Accounting
* **SEMESTER-6**
* Mobile & Wireless Communication-1
* Microwave Engineering
* Data Communication-1
* Optical Fiber Communication-1
* Digital Electronics & Microprocessor
* Environmental Management
* Industrial Management
* **SEMESTER-7**
* Mobile & Wireless Communication-2
* Satellite Communication
* Data Communication-2
* Optical Fiber Communication-2
* Telecom Switching
* Multimedia & Web Page Design
* Entrepreneurship
* **SEMESTER-8**
* Industrial Training

**Diploma In Textile Engineering**

Textile Engineering is experiencing a surge in demand, driven by the rich tapestry of cultures and traditions worldwide, making it one of the most sought-after disciplines in the field of engineering and technology. This dynamic field encompasses a broad spectrum of activities related to the creation of textile fabrics and yarns, making it an integral part of textile manufacturing. Textile Engineering revolves around the intricate processes associated with garments, colors, and fabrics.

Within the realm of Textile Engineering, technology and science converge to encompass the design and control of every facet of fiber, textiles, and apparel production. Textile engineers are the driving force behind a multitude of tasks in the textile manufacturing industry, ranging from process engineering and research and development to production oversight, technical sales, quality control, and the management of the equipment and procedures responsible for the creation of fibers, fabrics, and yarns. This multidimensional field stands at the intersection of creativity, innovation, and technical expertise, shaping the very fabric of our modern world.

**Program Objective**

The Textile Engineering program's core objectives are to:

1. Develop students' technical proficiency in textile engineering, covering fiber, yarn, fabric, and garment production.
2. Foster innovation, research, and sustainability in textile practices.
3. Instill quality control and process optimization skills.
4. Encourage interdisciplinary collaboration and a global perspective.
5. Equip graduates for entrepreneurship, professional growth, and community engagement within the textile industry.

This program seeks to produce graduates who excel in textile engineering program's within an engineering framework, facilitating effective communication and problem-solving in the field.

**Features:**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success:**

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**Admission Qualification:**

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* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Microwave Lab
* Software lab
* Hardware Lab
* Networking lab

**Course Outline:**

* **SEMESTER-1**
* Engineering Drawing
* Computer Laboratory Practice
* Physical Education & Life Skill Development
* Mathematics ‐1
* Chemistry
* Social Science
* Basic Graphics Design
* **SEMESTER-2**
* English
* Mathematics‐2
* Physics‐1
* Computer Application
* Electrical Engineering Fundamental
* Offset Machine operation
* Bangla
* **SEMESTER-3**
* Image Preparation‐I
* Basic Design & Drawing
* Database Application
* Mathematics‐3
* Physics‐2
* Communicative English
* Graphics Materials
* **SEMESTER-4**
* Image Preparation ‐2
* Elementary Graphic Design
* Photography (Digital and conventional)
* Basic Video Editing
* Screen Printing
* Business Organization & Communication
* Environmental Studies
* **SEMESTER-5**
* Advertising Design
* Fabric Design
* Design & Editing
* Packaging Design ‐1
* Computer Graphics Design ‐1
* Video & Sound Editing
* Accounting Theory & Practice
* **SEMESTER-6**
* Printers Costing & Estimating
* Desktop Publishing
* Project work
* Basic Web Design
* Computer Graphic Design ‐2
* Industrial Management
* **SEMESTER-7**
* Packaging Design‐2
* Animation
* Visual Communication
* Advanced Digital Photography
* Computer Graphics Design ‐3
* Graphic Professional Practice
* Innovation and Entrepreneurship
* **SEMESTER-8**
* Industrial Training

**Diploma In Graphic Design**

Graphic design serves as a vital bridge between artistic creativity and practical engineering. It harnesses the power of visual communication and problem-solving through the integration of typography, photography, and illustration. This field, while often categorized as a subset of visual communication and communication design, is interchangeably referred to as "graphic design." Graphic designers, the masterminds behind this discipline, adeptly blend symbols, images, and text to craft compelling visual representations of ideas and messages. To accomplish this, they employ the nuances of typography, visual arts, and page layout techniques, leading to the creation of harmonious visual compositions.

The applications of graphic design span a vast spectrum, covering corporate design, which encompasses logo creation and branding, editorial design (for magazines, newspapers, and books), wayfinding and environmental design, advertising, web design, communication design, product packaging, and signage. These applications are diverse and require a range of specialized skills and knowledge. To navigate this intricate landscape, graphic design has evolved into various subtypes, each with its unique focus and expertise:

**1. Visual Identity Graphic Design:** This type concentrates on shaping the visual identity of brands and organizations, with a primary emphasis on logo design and brand representation.

**2. Marketing & Advertising Graphic Design:** Here, the goal is to craft visually captivating materials for marketing campaigns and advertisements, ensuring they resonate with the target audience.

**3. User Interface Graphic Design:** UI design is pivotal in shaping the user experience for digital platforms, focusing on the layout and visual elements of websites and applications.

**4. Publication Graphic Design:** This specialization caters to the design of print materials such as magazines, newspapers, and books, enhancing readability and visual appeal.

**5. Packaging Graphic Design:** Packaging designers make products stand out on the shelf, merging aesthetics with functionality to captivate consumers.

**6. Motion Graphic Design:** This type infuses motion and animation into graphic design, offering dynamic and engaging visual content for various media.

**7. Environmental Graphic Design:** Focused on creating cohesive and immersive spatial experiences, this area involves signage, wayfinding systems, and visual elements in physical environments.

**8. Art and Illustration for Graphic Design:** Illustrators contribute their artistic talent to graphic design, breathing life into ideas and messages with their visual storytelling skills.

In essence, graphic design is not only a creative endeavor but a valuable tool for engineers seeking to effectively convey information, ideas, and solutions in an increasingly visual world. Its multifaceted nature and diverse applications make it an integral part of modern engineering, blending artistry and engineering prowess.

**Program Objective**

The Graphic Design in Engineering program in Bangladesh aims to educate students in the art and science of graphic design, focusing on its application within engineering contexts. The primary objectives of this program are to:

1. Develop expertise in graphic design principles, enabling students to create visually effective engineering-related materials.
2. Integrate engineering concepts and data into designs for clear communication.
3. Instill proficiency in industry-standard design software.
4. Foster problem-solving skills in conveying technical information.
5. Promote interdisciplinary collaboration, ethical awareness, and cultural sensitivity.
6. Equip students for careers in graphic design for engineering or entrepreneurship in this field.
7. Encourage research, innovation, and community engagement for real-world impact.

This program seeks to produce graduates who excel in graphic design within an engineering framework, facilitating effective communication and problem-solving in the field.

**Features:**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success:**

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**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

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* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Lab Facilities**

* Circuit Lab
* Computer Lab
* Electronics Lab
* Drawing Lab
* Communication Lab
* Microwave Lab
* Software lab
* Hardware Lab
* Networking lab

**Course Outline:**

* **SEMESTER-1**
* Textile Raw Material-I
* General Textile Process-I
* Engineering Drawing
* Mathematics-I
* Chemistry
* Bangla
* Basic Workshop practice
* Physical Education
* **SEMESTER-2**
* Textile Raw Materials-II
* General Textile Process-II
* Basic Electricity
* Mathematics-II
* Physics-I
* English-I
* Social Science- I
* **SEMESTER-3**
* Yarn Manufacturing-I
* Fabric Manufacturing-I
* Computer Application-I
* Mathematics-III
* Physics-II
* Social Science-II
* English-II
* **SEMESTER-4**
* Yarn Manufacturing-II
* Fabric Manufacturing-II
* Wet Processing-I
* Textile Testing & Quality
* Control-I
* Statistic
* Computer Application-II
* Environmental Management
* **SEMESTER-5**
* Yarn Manufacturing- III
* Fabric Manufacturing- III
* Wet Processing- II
* Clothing-I
* Textile Testing & Quality Control- II
* Fabric Structure & Analysis- I
* Book Keeping & Accounting
* **SEMESTER-6**
* Wet Processing-III
* Clothing-II
* Textile Testing & Quality
* Control-III
* Textile Calculation-I
* Fabric Structure &
* Analysis-II
* Business Organization &
* Communication
* Industrial Management
* **SEMESTER-7**
* Testing & Quality Control-IV
* Ad. Dyeing/Woven
* Ad. Knitting
* Textile Design
* Maintenance Of Yarn Manufacturing
* Entrepreneurship
* Industrial Management-II
* Production Planning & Control
* Business Communication
* **SEMESTER-8**
* Industrial Training

**Diploma In Textile Engineering**

Textile Engineering is experiencing a surge in demand, driven by the rich tapestry of cultures and traditions worldwide, making it one of the most sought-after disciplines in the field of engineering and technology. This dynamic field encompasses a broad spectrum of activities related to the creation of textile fabrics and yarns, making it an integral part of textile manufacturing. Textile Engineering revolves around the intricate processes associated with garments, colors, and fabrics.

Within the realm of Textile Engineering, technology and science converge to encompass the design and control of every facet of fiber, textiles, and apparel production. Textile engineers are the driving force behind a multitude of tasks in the textile manufacturing industry, ranging from process engineering and research and development to production oversight, technical sales, quality control, and the management of the equipment and procedures responsible for the creation of fibers, fabrics, and yarns. This multidimensional field stands at the intersection of creativity, innovation, and technical expertise, shaping the very fabric of our modern world.

**Program Objective**

The Textile Engineering program's core objectives are to:

1. Develop students' technical proficiency in textile engineering, covering fiber, yarn, fabric, and garment production.
2. Foster innovation, research, and sustainability in textile practices.
3. Instill quality control and process optimization skills.
4. Encourage interdisciplinary collaboration and a global perspective.
5. Equip graduates for entrepreneurship, professional growth, and community engagement within the textile industry.

This program seeks to produce graduates who excel in textile engineering programs within an engineering framework, facilitating effective communication and problem-solving in the field.

**Features:**

Students remain in this country also serving with local & multinational companies with reputation besides study in B.Sc. Engineering in various universities.

**Success:**

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**Admission Qualification:**

**Course Duration:** 4 years divided in 8 semesters.

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* H.S.C (Science) students can take admission in the 3rd semester directly and H.S.C [Vocational (Science)] students can take admission in the 4th semester directly.

**Lab Facilities**

* Fabric manufacturing Lab
* Yarn Manufacturing Lab
* Weight Processing Lab
* Testing Lab
* Finishing Lab
* Garment Manufacturing Lab

**Course Outline:**

* **SEMESTER-1**
* Textile Raw Material-I
* General Textile Process-I
* Engineering Drawing
* Mathematics-I
* Chemistry
* Bangla
* Basic Workshop practice
* Physical Education
* **SEMESTER-2**
* Textile Raw Materials-II
* General Textile Process-II
* Basic Electricity
* Mathematics-II
* Physics-I
* English-I
* Social Science- I
* **SEMESTER-3**
* Yarn Manufacturing-I
* Fabric Manufacturing-I
* Computer Application-I
* Mathematics-III
* Physics-II
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* English-II
* **SEMESTER-4**
* Yarn Manufacturing-II
* Fabric Manufacturing-II
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* Textile Testing & Quality
* Control-I
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* Control-III
* Textile Calculation-I
* Fabric Structure &
* Analysis-II
* Business Organization &
* Communication
* Industrial Management
* **SEMESTER-7**
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* Ad. Dyeing/Woven
* Ad. Knitting
* Textile Design
* Maintenance Of Yarn Manufacturing
* Entrepreneurship
* Industrial Management-II
* Production Planning & Control
* Business Communication
* **SEMESTER-8**
* Industrial Training

**Diploma In Automobile Engineering**

**The Diploma in Automobile Engineering program is dedicated to preparing students for the design, development, manufacturing, and maintenance of automobiles. Our department boasts a team of seasoned professionals with extensive academic and industrial expertise.**

**Automobile Engineering is a specialized branch of engineering that encompasses the creation, production, and operation of vehicles. It not only deals with cars but also extends to motorcycles, buses, trucks, and more. This field covers a wide spectrum of components, including mechanical, electrical, electronic, software, and safety aspects, making it a comprehensive discipline in the realm of automotive engineering.**

**Program Objective**

The Diploma in Automobile Engineering program aims to:

1. Develop students' technical expertise in vehicle design, manufacturing, and maintenance.
2. Cultivate hands-on skills and promote innovation in automotive technology.
3. Instill safety and sustainability practices in the automotive industry.
4. Facilitate industry integration and interdisciplinary learning.
5. Foster problem-solving abilities, professional development, and entrepreneurship.
6. Encourage community engagement for real-world impact.

**Features:**

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### **Lab Facilities**

* Auto Engine Lab
* Chassis & Transmission Lab
* Autotronics Lab
* Diesel Engine Lab
* 2&3 Wheeler Workshop
* Auto Workshop
* Industrial Automation Lab

**Course Outline:**

**1st Semester**

* Technical English – I
* Mathematics – I
* Engineering Physics – I
* Engineering Chemistry – I
* Engineering Graphics
* Fundamentals of Computing and Programming

**2nd Semester**

* Technical English – II
* Mathematics – II
* Engineering Physics – II
* Engineering Chemistry – II
* Basic Electrical
* Engineering Mechanics

**3rd Semester**

* Transforms And Partial Differential Equations
* Engineering Thermodynamics
* Fluid Mechanics and Machinery
* Automotive Engines
* Mechanics of Machines
* Production Technology

**4th Semester**

* Statistics And Numerical Methods
* Applied Thermodynamics and Heat Transfer
* Engineering Materials and Metallurgy
* Strength of Materials
* Electronics and Microprocessors
* Automotive Chassis

**5th Semester**

* Environmental Science and Engineering
* Design of Machine Elements
* Automotive Transmission
* Automotive Electrical and Electronics
* Vehicle Design and Data Characteristics
* Automotive Fuels and Lubricants

**6th Semester**

* Principles of Management
* Automotive Engine Components Design
* Automotive Chassis Components Design
* Two and Three Wheelers
* Finite Element Analysis
* Composite Materials

**7th Semester**

* Engine and Vehicle Management System
* Vehicle Dynamics
* Vehicle Maintenance
* Automotive Pollution and Control
* Robotics
* Automotive Aero-dynamics

**8th Semester (Final)**

* Vehicle Body Engineering
* Marketing Management
* Automotive Safety
* Internship

**Tuition And Other Fee Structure (in BDT)**

**Principal M A Sattar Trust Education Scholarship (Based on SSC Result)**

|  |  |
| --- | --- |
| GPA | Amount |
| 2.01 – 3.00 | 16,000 |
| 3.01 – 4.00 | 24,000 |
| 4.01 – 4.50 | 32,000 |
| 4.51 – 5.00 | 40,000 |

**BTEB Government Scholarship**

We are delighted to announce the BTEB Government Scholarship program for all eligible students. This scholarship offers financial support of 4000 taka each semester to every student pursuing technical and vocational education. It's a great opportunity to ease the financial burden of your studies.

To apply and learn more about the application process and eligibility criteria, please visit the official BTEB website or contact your institution's scholarship office.

Don't miss out on this fantastic opportunity to support your education. Apply now and invest in your future.