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VISION STATEMENT

TIP, an internationally recognized educational institution, providing open, free and challenging environment for research-based learning, to develop stakeholders-preferred human resources, with creative and well rounded personalities, for the management and enhancement of Socio-Economic Value Addition.
Core Values

Delivery of the Vision on the basis of its missionary thrusts must be housed in appropriate values. These, as identified and approved by the Board and adopted, are:

1. Constant pursuit of excellence in all we think, do and teach.
2. Gender equality and sensitivity to respective needs.
3. Equal opportunities to all regardless of origin, caste, creed, race, faith or gender.
4. No one who otherwise qualifies to be educated at TIP is denied such education on grounds of financial insufficiency.
5. An open and transparent academic environment based on unqualified merit for all policies and activities at TIP ensuring no compromise on the abilities, performance and development of the Faculty.
6. Respect, tolerance and leveraging of culture, custom, diversity and debate.
7. Highest level of intellectual, operational and financial integrity and compliance with the law of the land.
8. Highest standards of integrity, discipline, tolerance and work/business ethics and respect for rule of law amongst students.
9. Courtesy, grace and mutual respect, at all levels, in all interpersonal relationships and choice of words. Informality does not replace courtesy.
Foreword

It gives me great pleasure to welcome you to be a part of Textile Institute of Pakistan’s (TIP) student body. We at the Textile Institute of Pakistan promise you an education of high quality with assured jobs in the best Textile/Chemicals/Banks/Fast Moving Consumer goods units of the country along with a socio-cultural experience which will develop and round off your personality.

In keeping with our philosophy of education, ‘Think, Innovate and Progress’ we strive to provide our students with an academic environment which stimulates and encourages critical thinking and an innovative approach in all areas of their educational experience at TIP. The objective is to develop our students into good human beings and strong professionals and who will not only excel in their chosen fields but will also serve their communities admirably. As part of our commitment to provide equal opportunity to all students TIP offers generous merit scholarships and need-based financial aid to deserving students.

TIP’s campus, set in a landscaped 50 acre tract of land on the outskirts of Karachi, provides a blend of state of the art academic buildings and hostels and wide open spaces with lush green lawns and tree plantations which serve to provide an aesthetically pleasing and stimulating setting for serious academic work as well as for personal development. At TIP we encourage and sponsor student activity in extracurricular fields and allow students to manage themselves and these events through elected student bodies in the shape of the Textile Institute’s Student Forum and subject-specific societies. These student managed activities and events which run consistently throughout the academic year challenge and satisfy students, and contribute to the dynamic environment of TIP. Fully equipped sports facilities allow students to keep themselves physically fit for their academic schedules and challenges. TIP’s modern and comfortable hostel facilities provide a unique flavor to the ambience of student life in TIP.

By joining TIP and acquiring a professional specialization in one of the five areas of textile technology, management & marketing, apparel, fashion design, and textile design which we offer you would be on your way to becoming a highly qualified member of the largest and most rapidly developing industry of Pakistan – Textiles, Chemicals and allied firms. Globally and in Pakistan the textile industry is rapidly evolving from the traditional cotton textiles limited to apparel and home textiles, into an industry which provides advanced materials for all facets of human living through the blending and
fusion of advanced chemicals, new materials and natural fibers. Today newly developed textiles are being used in space exploration, building materials, defense equipment, medical devices, transportation, advanced apparels and a range of other fields providing unparalleled opportunities for accelerated growth and development. By graduating from TIP you will join an elite band of professionals who are transforming the traditional textile industry in Pakistan into an exciting and fast growing industry which thrives on innovation, developing new materials and providing solutions to the challenges of the 21st century.

Over its 20 year existence, TIP’s graduates have become much sought after professionals by the textile industry of Pakistan. It is for this reason that all TIP graduates who step into professional life find good jobs in the leading units in Pakistan. To date TIP has produced over 1,100 graduates who today form the backbone of professional management of the largest and most progressive of the textile, chemicals, and allied units in Pakistan. Graduating from TIP you will be in the powerful position of being quickly employed at a premium salary and will have a career path which provides for fast growth and development.

Mr. Zarrar Zubair
President
Textiles being Pakistan’s largest industrial sector generate the country’s highest export earnings of about 54%, providing the bulk of employment (38%) to a largely under-utilized workforce. The high levels of unemployment and underemployment are mainly on account of the low skill levels, low literacy and poor managerial efficiencies of the job market. Recognizing this gap, TIP was founded in 1994 under the aegis of APTMA, to fill the much growing vacuum. The key objective was to provide professional education and training to a new class of young professionals by honing their practical skills in addition to providing the necessary theoretical knowledge.

In order to run TIP independently, APTMA created a trust under the name of National Textile Foundation (NTF). This foundation is the caretaker of TIP and looks after its financial and capital needs. The institute was purpose built (200,000 sq.ft. covered area) along with a state-of-the-art architectural design by a leading architect on 50 acres of land located on the National Highway, about 40 km from the Karachi city centre. The architectural features of interior and exterior design are in consonance with the climatic and topographical need to soften the harshness of Karachi’s physical and social environment. While not being ostentatious, the premises are air-conditioned and fitted with pleasant fixtures, wood work and finishing. The exterior is adorned with beautifully sprawling lawns and an artificial lake complete with related fauna in its natural habitat.

Realizing the importance of this segment to Pakistan’s export potential, the Export Promotion Bureau (now Trade Development Authority of Pakistan) has played a significant role in the development of TIP in the shape of generous financial assistance through the EDF (Export Development Fund). The campus houses all requisite facilities as per internationally acceptable standards, such as, an extensive
At TIP, a student is exposed to an environment where he/she is given the opportunity to actively participate in activities such as public speaking, stage appearances, social and cultural activities, art, music, etc. to help foster well-rounded personalities besides serving as a form of recreation.

In this modern era of rapidly evolving technology, it is imperative for any nation to stay in touch with the latest technological trends. Bearing this in mind, TIP has established Textile Research and Innovation Centre (TRIC) under its wings. This would help Pakistan’s textile sector innovate new products and become competitive in the global race. The Vision of TRIC is to foster genuine leading-edge research linking the industry and other institutions within Pakistan and abroad and provide a new dimension to textile education in Pakistan. The initial focus of TRIC is to promote Advanced Materials Research such as technical textiles and nano-technology and to incorporate such research within the existing technology available in the Pakistan’s textile sector.

It must be stated in the end, that Pakistan’s effort in the industrial sector in the past 60 years had been, at best, haphazard and sporadic. Individual mills may or may not have adopted universal standards and operating practices. Today, with the setting up of a formally structured learning centre at TIP, APTMA has demonstrated its ability to piece together an effort in a concerted way preparing us for the impending global challenges that are anticipated by all of Asia as well as the textile world.
Board of Governors

Patron
Dr Ishrat Ul Ebad Khan
Governor of Sindh

Chancellor
Mr. Abdul Majeed

President
Mr. Zarrar R. Zubair

Secretary to the Board
Mr G. M. Lodhi
Secretary to the Board

Members
Mr Nadeem Maqbool
Chairman, National Textile Foundation

Mr Shahid Anwar Tata
Vice Chairman, National Textile Foundation

Mr Mohammad Nissar Dossa
Treasurer, National Textile Foundation

Mr Nadeem Abdullah
Member, National Textile Foundation

Mr Mohammad Farooq Sumar
Member, National Textile Foundation

Mr. Arif Hassan
Member, ???

Mr Muhammad Sohail Tabba
Member, Director, Lucky Cement Ltd.

Chairman / Nominee
All Pakistan Textile Mills Association (APTMA)

Chairman/Nominee,
Higher Education Commission

Secretary Education / Nominee
Government of Sindh
Board of Governors - National Textile Foundation

**Chairman**

Mr Nadeem Maqbool  
Chief Executive Officer,  
Suraj Cotton Mills Ltd.

**Vice Chairman**

Mr Shahid Anwar Tata  
Director,  
Tata Group

**Treasurer**

Mr Mohammed Nissar Dossa  
Chief Executive Officer,  
Haji Dossa Ltd.

**Secretary to the Board**

Mr G. M. Lodhi

**Members**

Mr Muhammad Farooq Sumar  
Chief Executive Officer,  
Mohammad Farooq Textile Mills Ltd.

Mr Nadeem Abdullah  
Chief Executive Officer,  
Sapphire Textile Mills Ltd.

Mr Pervez Ahmed  
Chief Executive Officer,  
Feroze Textile Mills Ltd.

Mr Inam-ur-Rehman  
Chief Executive Officer,  
N. P. Cotton Mills (Pvt.) Ltd.

Mr Tariq Sayeed Saigol  
Chief Executive Officer,  
Suraj Cotton Mills Ltd.

Mr M. Sohail Tabba  
Chief Executive Officer,  
Gadoon Textile Mills Ltd.

Mr Deewan Abdul Baqi Farooqui  
Chief Executive Officer,  
Dewan Salman Fibre Ltd.

Mr Abdul Majeed  
Chairman,  
Associated Textile Consultants Ltd.

Mr Umer Mansha  
Nishat Mills Ltd.

Mr Jehangir A. Monoo  
Chief Executive Officer,  
Monnoo Industries Ltd.

Mr Mohammad Saleem  
Chief Executive Officer,  
Bhanero Textile Mills Ltd.

Mr Nadeem Abdullah  
Chairman – APTMA

Mr Inam-ur-Rehman  
Chairman – APTMA

Mr Mohammad Saleem  
Chairman – APTMA

Mr Mohammad Maqbool  
Chairman, Sindh/Balochistan Zone

Mr Nadeem Maqbool  
Chairman, Punjab Zone

Mr Nadeem Maqbool  
Chairman, Khyber Pakhtoonkhwa Zone
Academic Council

**Chairman**

Mr. Abdul Majeed  
Chancellor TIP

**Secretary**

Mr. Fariq Mukhtar  
Academic Coordinator

**Members**

Mr. Zarrar R. Zubair  
President, TIP

Dr Hafizur Rehman Sheikh  
Professor Emeritus, TIP

Mr. Danish Ahmed  
Programme Coordinator,  
Textile Design Technology, TIP

Mr. Asif Imran  
Programme Coordinator,  
Textile Science, TIP

Ms Duriya Kazi  
Head, Department of Visual Studies  
University of Karachi

Dr. Zaheer ul Haq Qasmi  
Professor, Dept. of Chemistry  
University of Karachi

Dr. Khalid Pasha  
Head, Dept. of Textiles  
NED University, Karachi

Mr. Aamir Niazi  
COO  
International Textiles Ltd.

Dr. Irfan Hyder  
Dean  
Institute of Business Management (IoBM)

Mr. Nadeem Mazhar  
Publisher,  
Pakistan Textile Journal

Mr. Syed Mehfuz Qutub  
Textile Consultant, Lahore

Mr. Adil Moosajee  
CEO, EGO

Dr. Nausheen Zakaria  
TIP Alumni &  
CEO, The Codeit, Karachi

Ms. Ambreen Khan  
Principal  
Fashion & Apparel Design Institute

Director Academics / Nominee  
Higher Education Commission

Secretary Education / Nominee  
Government of Sindh
Facilities
Library Resource Centre

A modern and spacious air-conditioned two-storey library is housed in the academic complex. It has been designed to carry more than 20,000 volumes. The library holds over 9,000 books on technical subjects and adds appropriate new titles to update its collection regularly to make available the latest resource material for the students and faculty. Its comprehensive collection underpins the teaching and learning programmes for faculty and students.

The first floor houses the multimedia and audio-visual facilities apart from the cubicles for individual study, and rooms for group study sessions.

The library regularly subscribes to journals in textile science, textile design, apparel, computers, communications, marketing, management and fashion. Books and articles can be searched through library information software according to author, title or subject.

TIP has recently launched its e-library. The purpose of e-library is to make available, to the students and faculty, books and various reading material through intranet. Presently, more than 500 books and numerous electronic articles are available belonging to various genres.

Computer Laboratories

The Institute has three up-to-date computer laboratories including the end-user lab, teaching lab and specialised CAD lab. The CAD lab is equipped with 25 high performance PCs installed with industrial CAD software related to the field of textile design, weaving and apparel.

Students have access to the latest multimedia and interactive software and are encouraged to enhance and upgrade their computer skills. A well-stocked library of computer software in various fields and an encyclopaedia is also maintained.

Internet Connection

TIP’s internet bandwidth of 4 Mbps provides a high speed internet connection enabling our students to be online 24x7 and use a fast connection for research work. The link is asymmetric, which means that not only are we able to send data at a faster speed but also receive at the maximum speed available. The latest hardware change allows for further increase in the bandwidth in future, without purchasing any new equipment. The entire TIP campus is also WiFi enabled.

CAD Laboratory

The CAD Lab is equipped with the latest state-of-the-art software ‘NedGraphics’ which has all the solutions for Print, Woven and Fashion industry. The package is totally integrated and manages production process from start to finish. All types of fashion and technical fabrics can be
Facilities

The CAD Lab also has the latest Accumark apparel software from Gerber Garment Technology (GGT). This software covers all aspects of apparel including pattern digitizing, pattern making, marker making and marker cutting.

Installation of these software enable students to keep themselves abreast with new trends in the textile, apparel and fashion industry and make them aware of the rapidly changing industry standards.

Textile and Science Laboratories

A major investment has been made in the functionally designed buildings for housing different laboratories. The laboratories are situated adjacent to the academic complex and are easily accessible. The layout is spacious and centred around two beautiful courtyards.

Science Laboratories

There are two functionally designed Chemistry and Physics laboratories. The Chemistry Lab is fully equipped to carry out experiments based on chemical processes, chemical kinetics and properties of chemical and bench-scale reactor studies. The Analytical lab has sophisticated diagnostic instruments. These include Abbe Refractometer, UV Visible Spectrometer, Thin Layer Chromatography, BOD Analysis System and Wastewater Analysis Equipment.

A number of experiments go in hand with Physics courses. These courses introduce students to the methods of data analysis and the experiments help to develop a better understanding of ideas discussed in the classroom. The experiments cover a wide variety of topics including mechanics, thermodynamics, electricity, electronics and optics.

Textile Laboratories

There are six textile laboratories i.e. Spinning, Fabric Formation, Fabric Analyzing, Wet Processing, Fibre & Yarn Testing and Apparel lab.

Spinning Lab

The Spinning Lab has a covered area of 10,000 sq.ft. and is centrally air-conditioned with a state-of-the-art LUWA A/C plant.

Yarn formation, spinning mechanism, quality assurance of textiles and advanced fibre processing courses are supported by laboratory exercises.

The Lab has advanced staple fibre processing units:

- The Trutzschler Cleanomat system blow-room with chute feed
- DK-803 carding machine
- HSR 1000 high performance draw frame
- EJM-128 Chinese ring spinning frame
- Murata Mach Coner
- Automatic winder No. 7-V
- Murata two for one twister

Students are taught the importance and functions of different parts of machines, operating mechanisms, calculation of draft, twist, output rate, etc., as required for various practical assignments. Practical knowledge gained in the laboratory gives students hands-on experience in their professional work.
Fibre and Yarn Testing Lab

The Lab consists of sophisticated equipment to enable various tests to be conducted to determine the quality, grade and standard of conversion from fibre to yarn. Some of the available equipment is as under:

- Uster Fibrograph - 730
- Uster Micronair - 775
- Uster Stelo Meter - 754
- Uster Uniformity Tester UT4-SX
- Uster Colorimeter - 750
- Uster Autosorter - UAS - 4

Additional equipment includes ring wrapping reel, lea tester, TPI testing machine and electronic balance (Count Testing).

Fabric Formation Lab

The Fabric Formation Lab includes following machines for demonstration and practical purposes:

- 1 Shuttle power loom
- 1 Shuttle-less rapier loom
- 1 Shuttle-less airjet loom
- 1 single knit circular knitting machine
- 1 double knit circular knitting machine
- 6 manual “V” flatbed-knitting machines
- 2 socks knitting machines

In addition, the following looms are available for the design students to produce their assigned projects:

- 60 sample handlooms
- 2 production dobby handlooms
- 3 production jacquard handlooms

Fabric Analysing Lab

Fabric Analysis Lab allows determination of quality and fabric behaviour required for particular end-use through tests on such equipment as:

- NU Martindale (J.H.H., U.K.)
- Morapex-A (M. Helbotex)
- Crease Recovery Tester
- Polarizing Microscope
- Strength Tester (Titan, J.H.H.), for yarn and fabric Tensile strength, tare strength, etc.
**Wet Processing & Colour Lab**

The Wet Processing lab is well-equipped and has the following modern equipment:

- Gretag Macbeth with 7000-A Spectraflash colour matching system
- UV spectrophotometer (Shimadzu)
- Steamer & Dryer (Mathis)
- Printing Machine (Zimmer)
- HT Dyeing Machine
- Rota Vapour (Buchi)
- Tumble Dryer (James H. Real’s, U.K.)
- Gyrowash, Wash Fastness Tester (J.H.H.)
- Wascator (J.H.H.)

Additional equipment available includes washing machine, colour assessment light box (G. MacBeth), padders, drying ovens, conductivity meter, pH meter, viscometer, etc.

Students are given intensive practical training on pre-treatment, dyeing, printing, finishing and textile testing, which reinforces classroom lectures. Students are also assigned different projects.

**Apparel Lab**

A fully air-conditioned Apparel Lab is equipped with state-of-the-art equipment. Programmable sewing machines are installed for an exposure to new technology. Straight Cutting machine and mini-cutting table is available to cut layers of fabric.

- ETON computerized feeding system and Switch Track railing systems are also installed. In addition, the lab has a number of attachments, folders and machines for hands-on training such as:
  - Single needle flat bed machines
  - Single needle programmable machines
  - Double needle machine
  - Safety stitch machines
  - Programmable button hole and bar tack machines
  - Feed off the arm machine
  - Multi-needle chain stitch or waist band machine
  - Snap button machine
  - Button sewer and
  - Steam presses

**Career Guidance and Placement Office**

The Institute assists the graduating students in seeking suitable employment or planning to study further. A Yearbook giving the curriculum vitae and photographs of graduating classes is published and sent to
prospective employers and other professional bodies, such as APTMA, to ensure widest possible exposure of our graduates in the job market.

The Institute has close links with the local textile industry through its summer internship programme and local textile firms sponsor many students. Career counselling workshops are also held, where final year students go through the process of completing application forms and mock interviews in order to prepare them for employment. It is a matter of great pride and satisfaction that all 993 graduates to date have been successfully placed in leading textile mills, garment factories and buying houses.

**Student Activities**

Students are required to participate as much as possible with Faculty and Staff in academic matters and extracurricular activities. Student are encouraged to become a member of a number of societies functioning at TIP including, Sports, Art, Religious, Music, Drama, Literary, Marketing and Entrepreneurship societies.

Textile Institute Students Forum (TISF) organizes student activities that are concerned with sports, arts and culture, and publications. Student members are elected annually. A member of faculty/staff is appointed by the President to each of these societies in order to provide guidance and to facilitate implementation of decisions, which require interaction with the Institute. The societies conduct their business according to established policies and procedures.
Sports & Recreation

Facilities for popular sports including squash, cricket, football, table tennis, basketball, volleyball, throwball and fully functional gymnasium are provided at the campus.

Beside sports, the open-air theatre, auditorium and cafeteria at the student centre boast hosting numerous events, such as plays, movies, debates, poetry reading, exhibitions, seminars, etc. Student activities in the field of public speaking, stage appearances, art, music and culture help foster well-rounded personalities besides serving as a form of recreation.

Student Committees organize picnics and other cultural activities. Basant with kite flying is held annually either at TIP campus or at the Arabian Sea Country Club. This diversion in an otherwise demanding academic routine helps to provide some relief.

Hostels - for a lively and worthy experience

TIP has two separate hostels for male and female students. On a twin sharing basis, boys’ hostel can accommodate 150 students and girls’ hostel has 30 rooms for 60 students.

The hostels serve as a home for students. The rooms are equipped with two single beds, a writing table and a table lamp. There is adequate wardrobe space for clothes. All students residing in the hostel are expected to conform to hostel rules and regulations. Residence in the hostel is conditional upon proper use and care of the property and considerate
behaviour towards others. Hostelites may not leave premises without prior permission of the wardens. Girls are required to be indoors except meal times or during classes and may not leave campus unless authorized by parent/guardian after filling an authorization form.

All necessary basic medicines and first aid facilities are provided on campus for all students and staff. A full time vehicle has also been set aside for emergency visits to the nearby hospitals for the students residing on campus. It is expected that residents will treat the facilities with respect and honesty as they would in their own homes.

Hostel Wardens

 Resident Wardens for both boys’ and girls’ hostels are available on campus full time. TIP is very conscious of its responsibility for the welfare and safety of students living in the residences.

daily for classes. A nominal bus fee is charged for the entire semester at the time of registration. TIP has its exclusive fleet of air-conditioned coasters/buses plying from all major points across Karachi. These vehicles are available for use for student activities, excursion trips and on weekends for picnics or study tours.

Insurance

All students and staff travelling on TIP coaches to and from TIP campus are insured against accidental risk. In addition, staff is also provided Group Insurance Coverage.

Transportation

The Institute reserves the right to make any changes in the hostel rules anytime during the course of the academic year.
BSc in Textile Science

This programme concentrates on advanced level courses in textile chemistry, polymer and fibre science, fibre processing, fabric development, textile wet processing, apparel manufacturing, mathematics, physics and chemistry. Students also undertake basic management and marketing courses.

Students graduating in Textile Science have a firm base and are able to apply their knowledge in solving problems related to textile materials involving both chemical and physical principles. The students concentrate on conception, design, construction and management of complete systems of labour, machinery and processes for the most efficient production of textiles or related chemicals.

1st Semester

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>Course Titles</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>COMP-101</td>
<td>Computer Concepts</td>
<td>3</td>
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<tr>
<td>ENGL-101</td>
<td>English Language Basics</td>
<td>3</td>
</tr>
<tr>
<td>TXCH-101</td>
<td>Organic Chemistry for Textiles</td>
<td>4</td>
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<tr>
<td>MATH-102</td>
<td>Calculus &amp; Analytical Geometry</td>
<td>3</td>
</tr>
<tr>
<td>TEXT-175</td>
<td>Intro to Textile Manufacturing</td>
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2nd Semester

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<tr>
<th>Course Codes</th>
<th>Course Titles</th>
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<tr>
<td>PHYS-101</td>
<td>Textile Physics I</td>
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<tr>
<td>COMP-102</td>
<td>Computer Applications</td>
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<tr>
<td>ENGL-102</td>
<td>English Composition</td>
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<tr>
<td>MATH-106</td>
<td>Differential Equations</td>
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<tr>
<td>TEXT-176</td>
<td>Natural &amp; Manmade Fibres</td>
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3rd Semester

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<tr>
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<tr>
<td>PKST-200</td>
<td>Pakistan Studies</td>
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<td>ECON-201</td>
<td>Business Economics</td>
<td>3</td>
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<tr>
<td>ENGL-201</td>
<td>Oral Communication</td>
<td>2</td>
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<tr>
<td>PHYS-201</td>
<td>Textile Physics II</td>
<td>3</td>
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<tr>
<td>MGMT-201</td>
<td>Principles of Management</td>
<td>3</td>
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<tr>
<td>TEXT-201</td>
<td>Yarn Formation</td>
<td>3</td>
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<tr>
<td>TXCH-202</td>
<td>Physical Chemistry for Textiles</td>
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4th Semester

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<tr>
<td>RELG-200</td>
<td>Religion</td>
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<tr>
<td>MATH-202</td>
<td>Business Maths &amp; Statistics</td>
<td>3</td>
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<tr>
<td>TEXT-202</td>
<td>Fabric Technology</td>
<td>3</td>
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<tr>
<td>TEXT-220</td>
<td>Textile Testing</td>
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<td>BUSS-250</td>
<td>Business Communication</td>
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<tr>
<td>TXCH-250</td>
<td>Textile Auxiliaries &amp; Pretreatment</td>
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16
Students have to undertake a research project in their final year as part of their degree requirement. This is a written report which evaluates the student’s capacity and maturity in the field of textile science. The area of study, chosen under faculty guidance, can be in any textile-related area of interest. A faculty member assigned to oversee the research project reviews the written document periodically.
BSc in Textile Design Technology

B.Sc. in Textile Design Technology explores all possibilities of value addition through various processes and techniques applied to textiles and its products. The aim of this programme is to view the whole process of textiles through an aesthetic perspective. Awareness and appreciation of textiles and crafts traditions is also a significant aspect of this course.

Textiles are the mainstay of our economy and survival is now based on quality not just quantity. Design, therefore, plays a major role. TIP aims to produce designers who are equipped with the necessary technical skills and aesthetic understanding required to function effectively in highly competitive conditions while catering to the local as well as international market needs.

### 1st Semester

<table>
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<tr>
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<tr>
<td>COMP-100</td>
<td>Computer for Designers</td>
<td>3</td>
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<td>ENGL-101</td>
<td>English Language Basics</td>
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<tr>
<td>TXDG-110</td>
<td>Drawing I</td>
<td>4</td>
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<td>TXDG-150</td>
<td>Basic Design I</td>
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<tr>
<td>TEXT-175</td>
<td>Intro to Textile Manufacturing</td>
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### 2nd Semester

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<tr>
<td>TXDG-101</td>
<td>Art Appreciation</td>
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<tr>
<td>ENGL-102</td>
<td>English Composition</td>
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### 3rd Semester

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### 5th Semester

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**Total Credit Hours:** 18

### 6th Semester

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**Total Credit Hours:** 16

### 7th Semester

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**Total Credit Hours:** 15

### 8th Semester

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**Total Credit Hours:** 15
BBA in Textile Management and Marketing

The feedback from TIP graduates and the Textile Industry indicates that there is an acute shortage of professionals at the middle management level in the industry. In order to meet this need, the Institute has launched a BBA programme with specialization in Textile Management and Marketing.

This programme has a unique blend of courses in business management and textile processes, material and equipment and is therefore more relevant to textiles than other BBA programmes offered by different institutions. TIP graduates will be ideally placed to fill middle management positions to enable the industry to exploit the opportunities and face the challenges of globalization and the post quota abolition scenario.

The 4-year BBA (Hons) programme is customized to meet the growing requirements and concerns of the textile industry.

### 1st Semester

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<td>Introduction to Mathematics</td>
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<td>TEXT-175</td>
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### 2nd Semester

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<tr>
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**15**

### 3rd Semester

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<td>MGMT-201</td>
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<td>TEXT-201</td>
<td>Yarn Formation</td>
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<td>ACCT-207</td>
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### 4th Semester

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<td>Introduction to Weave Designs</td>
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<td>Supply Chain Management</td>
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<td>MGMT-428</td>
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BBA in Apparel Manufacturing & Merchandizing

As a result of post WTO challenges, the country is moving towards exporting value added textiles with quick response and higher efficiencies to compete effectively. Moving along these lines, supply chain which includes product development; branding; international wholesale and retail, promises to be a very profitable function in coming years.

The Fashion and Apparel industry needs qualified executives to guide the technological revolution rapidly taking place with this billion-dollar industry. Skilled managers are required to deal with increasingly complex textile products and manufacturing techniques; tasks such as planning product lines months before they appear in the stores, are the order of the day.

The BBA in Apparel Management and Merchandizing is a combination of business and apparel courses. This programme has been created to encompass all important elements of a successful apparel manager: procurement, quality, production, product development, marketing, management, merchandizing, finance, human resource management and sales.

The programme ends with a thesis project in a specialized apparel topic, giving the student an in-depth understanding of research, analysis, decision-making and problem-solving.

### 1st Semester

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<th>Course Codes</th>
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**Total Credits for 3rd Semester:** 18

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**Total Credits for 4th Semester:** 17

### 5th Semester

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<td>Knitting Technology</td>
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**Total Credits for 5th Semester:** 16

### 6th Semester

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**Total Credits for 6th Semester:** 18

### 7th Semester

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**Total Credits for 7th Semester:** 15

### 8th Semester

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**Total Credits for 8th Semester:** 15
BBA in Fashion Design Management

Attracting western buyers by displaying own designs becomes a more value added business in current textile and garment export industry. Business research, understanding the customer and effective marketing of own range of designs and follow up with buyers, is vital to survive in global garment manufacturing competition.

This four year programme develops human resource requirement in fashion marketing, visual merchandizing and fashion centre management as well as managing one’s own fashion house for local industry.

Students will practice fashion design techniques, develop modern fashion garments manually and digitally. Fashion and stage management will also be taught in addition to liberal art courses to provide well-rounded personalities.

In the final year, students may participate in a fashion show by displaying their own creativity.

1st Semester

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2nd Semester

<table>
<thead>
<tr>
<th>Course Codes</th>
<th>Course Titles</th>
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<tbody>
<tr>
<td>FASH-101</td>
<td>Introduction to Fashion Design</td>
<td>3</td>
</tr>
<tr>
<td>ACCT-102</td>
<td>Principles of Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL-102</td>
<td>English Composition</td>
<td>3</td>
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<tr>
<td>MATH-102</td>
<td>Maths &amp; Statistics for Business</td>
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<tr>
<td>FASH-120</td>
<td>Drawing II</td>
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3rd Semester

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<th>Course Codes</th>
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<tr>
<td>PKST-200</td>
<td>Pakistan Studies</td>
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<tr>
<td>COMP-200</td>
<td>Computer for Designers</td>
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<tr>
<td>FASH-201</td>
<td>Pattern Construction</td>
<td>3</td>
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<tr>
<td>ECON-201</td>
<td>Business Economics</td>
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<tr>
<td>MGMT-201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>FASH-203</td>
<td>Fashion Illustration I</td>
<td>3</td>
</tr>
<tr>
<td>TEXT-275</td>
<td>Intro to Textile Manufacturing</td>
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4th Semester

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<tr>
<td>RELG-200</td>
<td>Religion</td>
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<tr>
<td>FASH-202</td>
<td>Garment Technology I</td>
<td>3</td>
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<tr>
<td>FASH-204</td>
<td>Fashion Illustration II</td>
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<tr>
<td>MGMT-204</td>
<td>Business Law</td>
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<tr>
<td>FASH-205</td>
<td>History of Art</td>
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<td>TEXT-230</td>
<td>Textile Technology</td>
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<tr>
<td>BUSS-250</td>
<td>Business Communication</td>
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17 19 18
### 5th Semester

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<tr>
<th>Course Codes</th>
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<tbody>
<tr>
<td>FASH-300</td>
<td>Textile Design</td>
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</tr>
<tr>
<td>FASH-301</td>
<td>Design Realization I</td>
<td>3</td>
</tr>
<tr>
<td>MRKT-301</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FASH-302</td>
<td>Draping</td>
<td>3</td>
</tr>
<tr>
<td>FASH-303</td>
<td>History of Fashion &amp; Costume</td>
<td>3</td>
</tr>
<tr>
<td>FASH-321</td>
<td>Fashion Photography</td>
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**Total Credits: 16**

### 6th Semester

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<th>Course Codes</th>
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<tr>
<td>MGMT-302</td>
<td>Organizational Behaviour</td>
<td>3</td>
</tr>
<tr>
<td>MRKT-302</td>
<td>Fashion Marketing</td>
<td>3</td>
</tr>
<tr>
<td>COMP-304</td>
<td>CAD for Fashion</td>
<td>3</td>
</tr>
<tr>
<td>FASH-304</td>
<td>Design Realization II</td>
<td>3</td>
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<tr>
<td>FASH-308</td>
<td>Apparel Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>FASH-309</td>
<td>Product Development</td>
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**Total Credits: 18**

### 7th Semester

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<tr>
<th>Course Codes</th>
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<tr>
<td>FASH-401</td>
<td>Embellishment</td>
<td>3</td>
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<tr>
<td>TXDG-403</td>
<td>Introduction to Interior Design</td>
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<tr>
<td>MGMT-407</td>
<td>Human Resource Management</td>
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<tr>
<td>MRKT-402</td>
<td>Visual Merchandizing</td>
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<tr>
<td>FASH-428</td>
<td>Fashion Research Project</td>
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**Total Credits: 14**

### 8th Semester

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<tr>
<th>Course Codes</th>
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<tbody>
<tr>
<td>MRKT-401</td>
<td>Export Marketing</td>
<td>3</td>
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<tr>
<td>FASH-403</td>
<td>Fashion Journalism</td>
<td>3</td>
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<tr>
<td>MRKT-411</td>
<td>Personal Selling</td>
<td>3</td>
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<tr>
<td>ENV-419</td>
<td>Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>FASH-428</td>
<td>Fashion Research Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credits: 15**
Degree Requirements

In order to qualify for the award of a Degree, following requirements must be fulfilled:

- Minimum passed credit hours of 132
- Minimum CGPA of 2.00
- Minimum ‘C’ grade in Design Research Project (for design students only)
- Minimum ‘C’ grade in Final Year Project (for students of all other disciplines)

N.B: To be eligible for the award of a degree, all unsettled matters, both financial and others, must be cleared in advance.

Academic Year and Calendar

The regular academic year will have the following schedule:

- Fall Semester: September - December
- Spring Semester: February - June
- Summer Session: June - August (will be notified in advance, if and when offered)

Public Holidays

- Kashmir Day
- Independence Day
- Ashura Muharram *
- Eid Millad-un-Nabi *
- Eid-ul Fitr *
- Quaid-e-Azam’s Birthday and Christmas
- Pakistan Day
- Iqbal Day
- Labour Day
- Eid-ul-Azha *

Note 1: * Subject to appearance of moon.
Note 2: Holidays for Non-Muslims will be observed as per Federal Government gazette notification.
Afzal Adamjee
ACMA, UK
32 years industrial experience in Finance and other Business disciplines.
8 years teaching experience

Asif Imran
MSc - Organic Chemistry, University of Baluchistan.
Certificate in advanced research techniques, National Institute of Materials and Chemical Research, Tsukuba, Japan
2 years industry experience
20 years research experience in PCSIR and Coral Research Labs.
6 years teaching experience.

Danish Ahmed
Master of Fine Arts, UNSW, Australia.
Practicing artist, exhibiting since 1994.
Solo Exhibition in Cross Art Project, Sydney.
18 years teaching experience in Art and Design at various institutes including College of Fine Arts, UNSW, Australia.

Fariq Mukhtar
MBA (Finance), Institute of Business Administration – 1978
26 years corporate experience in Finance, Marketing, General Management, and Entrepreneurship.
16 year teaching experience at TIP and numerous business schools

Dr. Hafiz ur Rehman Shaikh
PhD - Spinning, Manchester University, UK.
22 years industry experience.
17 years research experience at Pakistan Institute of Cotton Research and Technology.
17 years teaching experience.

Javed Mahmood
MBA, IBA, Karachi.
Overall 24 years industry experience in Administration, Sales & Trade Marketing
12 years teaching experience at TIP and IBA.

Mazhar Jamil
M.Sc - Applied Maths, University of Karachi.
MCS - University of Karachi.
13 years teaching experience at TIP, SZABIST, DHA and COMMECS.

Saifuddin Kamran
BE in Civil Engineering, NED University.
MBA (Marketing), IBA; MS in Management Science, SZABIST.
Architecture Studies from Indus Valley School of Arts and Architecture.
20 years experience in Construction Industry as Designer and Contractor.
11 years university teaching experience.

Naved Jahangir
Master of Science [MSc], Analytical Chemistry, Karachi University, 1987
PhD Scholar, Tampere University of Technology [TTY], Finland
15 years teaching experience

Tauqeer Hussain Aaser
Professional Training in CAD/CAM (NedGraphics) Texitech, Karachi
Diploma in Textile Designing, Ziarat School of Arts, Karachi
19 years industry experience; 6 years teaching experience

Hamza Khalil
MS Management Sciences, PhD (In progress) MBA, MA Economics, LLB, ACIS, PGD Islamic Banking
11 years corporate and 9 years teaching experience in business schools

Ms Syeda Faiza Jamil
B.E in Textile Engineering, NEDUET.
Member of Textile Institute UK; and International Geosynthetic Society.
2 years teaching experience

Ms. Faiza Habib
Bachelor of Design - Indus Valley School of Art & Architecture
Numerous textile design projects
5 years teaching experience

Jawwad Hamid Mahmud
BA (Hons) in Textile Designing, University of Karachi
3 years industrial and 4 years teaching experience

Dr. Nausheen Zakaria
PhD in Strategic HRM, University of Leeds-U.K (2013)
7 years industry experience
4 years teaching experience

Shahzad Dadabhoy
B.Sc. in Textile Technology, Philadelphia University, USA.
11 years industry, and 7 years teaching experience.

Syed Mohammad Usman
Masters in Islamite, University of Karachi
PhD Scholar, University of Karachi
12 years teaching experience

A. Q. Arif
4 Year Diploma in Fine Arts, Karachi School of Arts
11 years teaching experience
Numerous solo and group exhibitions locally and abroad
Ms Rehana Mirza  
Bachelor of Fashion Design, Asian Institute of Fashion Design, 2004  
1 year industry experience, and 9 years of teaching

Syed Wajahat Zaidi  
5 years Graduate Diploma in Architecture, National College of Arts, Lahore  
18 years teaching experience

Ms Sadaf Javed Vastani Fadin  
Bachelor of Fashion Design, Asian Institute of Fashion Design, 2007  
2 years industry, and 6 years teaching experience

Abdul Rafey Qadri  
CIA® Certified Internal Auditor® (2002)  
Institute of Internal Auditors, USA  
MBA-MIS (1990) - IBA

Ali Javed Vastani  
Masters of Business Administration  
Institute of Business Management - 2012  
9 years industry experience; 3 years teaching experience

Ms Abeer Anwar  
MBA-Marketing(Iqra University)  
2 years industry experience in Merchandizing;  
2 years teaching experience

Ms Imrana Tanveer  
M.A (Honors) Art (in progress)  
BSC (Honors) TDT (TIP)  
3 years industry,  
2 years teaching experience

Hassan uz Zafar  
Masters in Design  
University of New South Wales  
3 years industry, and 6 years teaching experience

Ms Iram Iqbal  
Masters in Interior design  
14 years teaching experience, including  
3 years as Head of Fine Arts Department, Kinnaird College for Women, Lahore

Minhas Bandukda  
MSC Textile technology-The University of Manchester, UK – 2005,  
MBA –IBA 2012  
8 years industry  
1 year teaching experience

Muhammad Arsalan Mazhar  
MBA (supply Chain)  
Iqra university - 2010  
4 years industry  
2 years teaching experience

Muhammad Kashan Qureshi  
BSC (Honors)in App Manufacturing  
6 years industry  
1 year teaching experience

Muhammad Siddique  
M.Phil in Business Management - IOBM (process)  
MBA(Marketing) Indus Institute of Higher Education  
BE in Textile-NED University of Engineering & Technology( 2001)  
8 years teaching experience

Ms Rizwana Mazhar  
2012 - Masters in Linguistics, University of Karachi.  
2009 - Masters in English Literature, Jinnah University.  
2007 – ICIELT, University of Cambridge, UK  
2000 - Bachelors of Education - Al-Khair University, Karachi.  
13 years teaching experience

Syed Ammad Tahir  
Bachelor of Fine Arts – 2008  
Numerous exhibitions in Pakistan & abroad  
5 years teaching experience

Zain ul Abedin Valika  
Bachelors in Law 2005- 2007: Dadabhoy Institute of Law  
Masters in Finance  
1995-1997: South Eastern University, Washington DC. Campus -Karachi  
14 years industry, and 16 years teaching experience

Ms Nasrah Durrani  
2 years Diploma – Fashion Design, 1994  
23 years industry experience  
1 year teaching experience
**TEXTILES**

**TXCH-101  Credit Hours: 4**  
*Organic Chemistry for Textiles*  
This course introduces the fundamental principles of organic chemistry necessary to understand the properties of various fibres (natural & synthetic), auxiliaries & dyestuff used in textile processing.

**TEXT-175  Credit Hours: 3**  
*Introduction to Textile Manufacturing*  
The main objective of this course is to provide a basic understanding of all processes involved in the manufacturing of textile products from basic raw materials. Emphasis will be on the use of terminology, fundamental understanding of the composition of the textile industry and the application of the scientific, technical and business principles utilised in the production and usage of fibres, yarns, fabrics, dyes, finishes and resultant textile products. Visits to textile mills and other allied units are arranged during the course to give students a better insight into the textile industry.

**TEXT-176  Credit Hours: 3**  
*Natural and Man-made Fibres*  
This course introduces the concept of natural and synthetic polymers as fibrous raw materials. An important part of the course is the sources, properties and processing behaviour of fibres and filament yarns for manufacture of textiles. The formation of textile fibres by means of polymer science and engineering principles is also included. Laboratory work associated with this course involves training students in the operation of modern, sophisticated and automatic fibre testing equipment by means of actual hands-on-operation.

**TEXT-201  Credit Hours: 3**  
*Yarn Formation*  
This course involves the study of fibre processing systems required to transform various fibrous materials into a yarn. Yarns are the intermediate products of textile industry and the basic material for producing fabrics by weaving and knitting methods. The course includes the understanding of fibre properties to form a suitable yarn, study of different types of yarn and methods of producing yarns using conventional as well as latest techniques of spinning. Emphasis is placed on processes and machinery used more frequently in the spinning plant.

**TEXT-202  Credit Hours: 3**  
*Fabric Technology*  
The course is designed to teach students the different methods of fabric formation. Basic principles and mechanisms of weaving, knitting and non-wovens are covered. Elementary calculations involved in each of the fabric forming techniques are also taught. Laboratory work and visits to textile mills are arranged to consolidate theoretical class work.

**TXCH-202  Credit Hours: 4**  
*Physical Chemistry for Textiles*  
An overview of basic principles of chemistry covering thermodynamics, properties of solutions, acid /base, electrolytic chemistry, reaction kinetics, gases, phase equilibrium, surface chemistry & colloids, applications and behaviour of common classes of chemicals/auxiliaries with emphasis on those used in textile industry.

**TEXT-220  Credit Hours: 2**  
*Textile Testing*  
The objective of this course is to impart in students the knowledge of off-line testing techniques for fibrous materials, yarns and fabrics. The student will not only

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**Employers’ Corner**

Aurangzeb Ahmed Khan  
Group Head HR  
Siddique Sons

It is the only institute in Pakistan where industry is very specific about textiles. Secondly it’s not about bigger names coming with bigger ideas it’s about how creative a person is, luckily the students of Tip as employees are very creative they think out of the box and that is the reason we hire them.
develop understanding and interpretation of test results but also learn the relationship between product characteristics and performance criteria of the end user.

**TXCH-250  Credit Hours: 4**

**Textile Auxiliaries & Pretreatment**

Textile auxiliaries covering enzymes like alpha amylase, surfactants types, properties and application, sequestering agents & peroxide stabilizers, anti-foaming agents. Pre-treatment application covering desizing, scouring, bleaching and mercerization process.

**TEXT-301  Credit Hours: 3**

**Spinning Mechanisms**

This course involves study of fibrous materials and their relationship to the fibre processing system. The mechanisms of the machines used for spinning of fibres into yarns are also taught. The settings and speeds of functional parts of the machines and their adoption to the type of fibres processed are included. The relationship of draft, twist and other gearing of machines with their output rate and maintenance of production balance at each stage form an important part of the course.

**TEXT-302  Credit Hours: 3**

**Knitting Technology**

This course is designed to provide basic understanding of knitting technology including the principles of the knit structures and the production processes involved. The course will cover the basic fabric structures and knitting elements of weft knitting.

**TEXT-303  Credit Hours: 3**

**High Performance Textiles**

New technology and cutting edge processes are combining with traditional textiles to create a New Generation of smarter and more technical products than ever before. This course is initiated to provide up to date knowledge on the recent developments and ongoing research in field of Textiles. The course discusses many fascinating areas both in terms of new materials and technology that are found in niche applications in almost every sector.

**TXCH-304  Credit Hours: 4**

**Dyeing Auxiliaries & Textile Dyeing**

This course introduces students to dyeing auxiliaries covering dispersing & solubilizing agents, levelling & retarding agents and migration inhibitors, textile dyes & their application covering structure & properties of direct, reactive, disperse, vat, sulphur, acid and cationic dyes.

**TEXT-312  Credit Hours: 3**

**Weaving Mechanism**

This course deals in detail with the processes and mechanism of weaving on the loom and includes primary, secondary and ancillary motions. The scope of tappet, dobby and jacquard shedding in fabric designing is also taught. Both shuttle and shuttle-less weft insertion systems are covered in detail.

**TEXT-313  Credit Hours: 3**

**Introduction to Weave Design**

The objective of this course is to introduce students to various woven fabric structures. Construction of different weave designs, including basic weaves (plain, twill, satin & sateen) and their derivatives, is covered in this course. Elements of weave design i.e. drawing-in draft, lifting plan and reed plan are also introduced.
The application of CAD for the implementation of dobby and jacquard woven structures is also taught on specialized Nedgraphics CAD software.

**TXCH-316  Credit Hours: 4**  
**Physio-Chemical Principles of Wet Processing**  
This course introduces the concepts of physio-chemical principles involved in textile wet processing like dye fibre bond, thermodynamics of pre-treatment & dye sorption, diffusion & rate of dyeing and heterogeneous kinetics of pre-treatment and dyeing.

**TXCH-350/TXCH-450  Credit Hours: 4**  
**Introduction to Wet Processing**  
This specially designed course for the design/management students covers various aspects of dyeing and printing in detail. Classifications of dyes, properties of dyes and their application for various different fibres are also covered.

Similarly, different printing techniques, types of pigments used for printing, their classification and their application is also discussed in detail during this course. The entire course is also complemented with comprehensive lab work.

**TEXT-403  Credit Hours: 3**  
**Advanced Fibre Processing**  
Concept of current fibre processing machines, techniques, practices and their validity are investigated. Problems are assigned that require use of acquired knowledge of textile testing equipment and processing machines. The relation of fibrous material properties and processing dynamics of the fibre assemblies produced is also studied.

**TEXT-405 Credit Hours: 3**  
**Textile Merchandizing**  
This skill set is in high demand throughout the textile industry. It focuses on the coordination of marketing, sales, product development, production, and quality and customer service. The students will learn to follow orders from product development, fabric development, sampling, testing, inspection and shipment. This course will cover both apparel and home-textiles.

**TXCH-415  Credit Hours: 4**  
**Polymer Science**  
The comprehensive knowledge of chemistry of macromolecules is fundamental to the plastic and textile industries. Keeping in view the importance of the subject, this course is designed to cover the basic and applied aspects of the polymer chemistry. More emphasis has been given to polymers, which are directly or indirectly related to the textile and fibre industry.
**TEXT-428  Credit Hours: 6**

**Textile Research Project**

All students in the final year have to undertake a research project. The area of study, chosen under faculty guidance can be in any textile-related area of their interest. A faculty member assigned to oversee the research project reviews the written document periodically. The project is extended over a period of two semesters. The findings of the research are submitted to the faculty supervisor in the form of a written project report.

The project evaluation is done both by the faculty supervisor and by an external examiner of the concerned field. The students also have to defend their paper in an extensive interview session by the external examiner.

**TXCH-457  Credit Hours: 4**

**Textile Finishing**

Textile finishing covering mechanical & chemical finishing, chemical finishing including easy care finish, waterproof, water repellent, & soil-release finish, softeners, flame-retardant finish, aroma-wellness finish & nanotechnology.

**TEXT-471  Credit Hours: 3**

**Plant Layout and Design**

Students in this course are taught how to design a plant facility. Factors, which should be considered in selection of site, plant, machinery and equipment, preparation of market profile and finally the economic justification for setting up a textile manufacturing unit, are dealt with in detail.

This course also includes methods of calculating total project cost, preparation of financial plan, arrangements for finance, method for working out working capital requirements, fixed cost & product cost. Method of working out manpower requirements for production, quality control, technical, human resource development, marketing, finance, management departments etc. are included in the course.

**TXCH-458  Credit Hours: 4**

**Textile Printing & Coating**

This course introduces students to printing equipment, materials, processes and process control used in printing of natural and synthetic fabric using pigment and/or dyestuff, colour separation, printing screens and coating.
**MATH-101 Credit Hours: 3**  
**Introduction to Mathematics**  
This undergraduate course of Business Mathematics is intended for freshmen in their first semester and is essentially free of all pre-requisite knowledge other than basic arithmetic and algebra. It aims at providing students an insight into the mathematical aspect of business problems. This is accomplished by familiarizing them with the mathematical techniques involved in different problems related to cost effectiveness, interest computation and mathematical feasibility. A large portion of the course is devoted to linear programming and inference.

**PHYS-101 Credit Hours: 4**  
**Textile Physics I**  
The major objective of this course is to provide the students an insight of natural phenomena involving physics that governs the dynamics of a system. Special emphasis shall be on searching links for possible analogy between concepts in conventional physics and the field of textile technology.

**MATH-102 Credit Hours: 3**  
**Calculus and Analytical Geometry**  
This course aims at providing a thorough understanding of the principles of coordinate geometry and calculus. Students are taught to analyze geometrical problems using the coordinate system. The basic objective is to build the concepts from the fundamental understanding of a straight line, slopes and inclinations right up to the standard forms of the equation of a straight line. Calculus covers the basic concepts of a function, evaluation of limits and techniques of differentiation.

On completion of this course students will be familiar with fundamentals of non-Euclidean Geometry and Calculus, and be able to pursue an advanced course of geometry incorporating calculus of a higher degree.

**MATH-106 Credit Hours: 3**  
**Differential Equations**  
This is an elementary course in Differential equations intended for freshmen. The pre-requisite is a thorough grounding in elementary calculus, which includes ordinary and partial derivatives and the theory of Integrals.

Differential-equation is a subject that surfaced centuries back and research continues in it to this day. It caters to a vast variety of problems, related to science, engineering, physics and textiles; rendering problem-analysis easy and manageable in a mathematical way. The diversity of the subject ranges from problems related to neural networks to problems related to livestock husbandry.
MATH-120  Credit Hours: 3  
Mathematics and Statistics for Business
This course provides students a thorough awareness of business that can be tackled using quantitative techniques available for objective decision making. The course covers both statistical and mathematical topics that would be of assistance in research and analysis related to marketing, operations and similar business activities.

PHYS-201  Credit Hours: 3  
Textile Physics II
This course is a continuation of PHYS-101. Further concepts of physics applied in the field of textiles is explored which includes movement, vector analysis, the laws of motion, forces in textiles, optics and textiles, fluids in textiles and Textronics.

MATH-202  Credit Hours: 3  
Business Mathematics and Statistics
This course provides students a thorough awareness of business that can be tackled using quantitative techniques available for objective decision making. The course covers both statistical as well as mathematical topics that would be of assistance in research and analysis related to marketing, operations and similar business activities.

ENVT-319/419  Credit Hours: 3  
Environmental Management
The course aims to provide some basic understanding to examine the integrated nature of ecology, industry and pollution and the forces, which tend to disturb the natural environment. The course is designed to create awareness about various environmental and health hazards resulting from non-environment friendly industrial practices. Information is also covered on remedial actions and interventions based on Best Available Technologies. This course also aims to bring in focus the importance of Statutory Regulations, Environmental Quality Standards and Procedures of Environmental Protection.

Employers’ Corner

Tariq Haroon Dada  
General Manager  
Tata Textile Mills

I need people with positive minds and those who are eager and enthusiastic to do work and that is the only reason our management is being in favour of tips students. They are excellent in their analytical approach. It has always been great to work with them and we always welcome more students from tip.
TXDG-101  Credit Hours: 1
Art Appreciation
This course is aimed at providing exposure about art and its mediums. The objective of this course is to introduce among the students the basic perception and knowledge in the diverse fields of visual and performing arts. This is the course which will deal with an integrated study of art, media and culture, the curriculum deepens the students’ understanding of artistic and visual traditions, encourages his/her creativity and expands the professional perspective. Studying ‘Art Appreciation’ helps students understand and identify the context of art and design in society and cultures.

TXDG-102  Credit Hours: 2
Drafting
This course is an introduction to the basic principles and techniques of drafting skills. Students will learn the conceptual and technical aspects of drafting through carefully designed practical assignments and projects. Emphasis is placed on students’ safety, tools and procedures, geometric construction, sketching, dimensioning practices, visualization, and projection concepts.

TXDG - 110  Credit Hours: 4
Drawing I
An introduction to a variety of approaches to drawing, this course provides students with the tools for both structured and experimental exploration in the studio. Distance and form are examined along with the exploration of gesture, contour and the modelling of forms. Emphasis is on the development of observation and the understanding of range of mediums and techniques.
TXDG - 120    Credit Hours: 4
Drawing II
This course serves as a transition between foundation courses and advanced courses. While it continues to build upon the technical abilities students bring to the class, it will entail the students to expand their understanding about what they are doing.

The course allows students to explore image making, using mediums and different possibilities of representation. The emphasis is on the usage of mediums along with the experimentation and synthesis of the elements of visual arts.

TXDG-150    Credit Hours: 4
Basic Design I
This course introduce students to the basics of the principles and elements of design, be it in textiles, architecture or graphics etc. It will be an introduction to problem solving skills and terminology used in visual arts. An understanding of the principles and elements of design is developed through exercises and students learn the visual language, required to express their original ideas. They also use this visual language in the analysis of design, in relation to the context, expression, information and interpretation.

TXDG-160    Credit Hours: 4
Basic Design II
Basic Design-II explores the possibilities of basic elements or building blocks selected to convey the message through visual language. This course helps in determining how items on the page/space are placed to establish the structure of designs and its effects on the general understanding. It also enables students to experiment with the elements and principles of design, systematically explored in Basic Design-I, to communicate the desired message by making informed choices. By the end of the first year, students are expected to have understood the role of design principles and use of the design elements in creating aesthetically appealing designs.

TXDG-200    Credit Hours: 4
Print Design Project
Project based learning starts with two major courses in the 3rd semester i.e. TXDG 200 and TXDG 220. Students work on one particular theme for both projects, which is decided after a brainstorming session with the students at the start of the Drawing Project (TXDG-220). The imagery developed in the drawing project is used to create a print design. Students produce these designs, applying all the design principles learnt in the first year and within the specifications of printing technology.

TXDG-201    Credit Hours: 3
Art History I
Art History encompasses the progress of humankind, from the prehistoric times (30,000 BC-3000 BC), through to the Renaissance (1400-1800 AD). This course gives a fascinating and seemingly endless tour through the world of art revealing a classical collection of thousands of years of human practice and progress; inspiring the student to brave his/her creative side and to appreciate a variety of aesthetics. This course gleans the earliest art from the beginnings in prehistory to the Roman Empire, from the Medieval Art of the West through to the Renaissance and the Baroque and Rococo. In short, it will cover the Art of the Western Civilizations till 1750 AD and of the Eastern Civilizations only up till the period Mesopotamian Art and the Islamic Art of the Middle Ages.

TXDG-203    Credit Hours: 3
History of Textiles
This course is conducted chronologically, starting with the historical survey of the development of textiles from prehistoric to modern times, emphasizing the influence of various geographical and cultural factors. It locates the significance of costumes in the traditions and customs of different peoples, treating textiles as artefacts of times and places. The methods of production are discussed within the context of their greater anthropological framework.
TXDG-210  Credit Hours: 3
Handloom Weaving I
This course is a basic introduction to handlooms and the processes involved in handloom weaving. Basic weave structures like Plain, Twill, Satin, Sateen, Basket, etc are introduced. Based on this knowledge, students also develop fabric samples designed by them.

TXDG-211  Credit Hours: 3
Handloom Weaving II
The basic course objective is to explore woven fabric designs used traditionally in the South East Asian region. They also learn off loom weaving methods using various materials, and create samples using both, off loom and on loom techniques.

TXDG-220  Credit Hours: 4
Drawing Project
In this project students explore the visual content of the theme and produce a number of drawings using a variety of mediums. The artwork created is used for the developing designs in the Print Design Project (TXDG-200).

TXDG-221/TXDG-321  Credit Hours: 1
Photography
Photography is a very essential medium to produce images in a short span of time. In this course students learn the basic operations of a digital and/or a 35mm SLR camera with manual settings. Composition and exposure tools are taught through practical assignments. Students and encouraged to expose with manual settings. This course is designed on project based learning. Students are given indoor and outdoor photography assignments and group critique is organised after every project.

TXDG-240  Credit Hours: 3
Intermediate Painting
This course provides students with an opportunity to explore the advanced techniques and processes of painting through studio practice. Students will undertake a series of projects that will enable them to address and experience variety of visual concepts through painting. Instruction includes the preparation of painting surfaces, exploration of materials and methods, and the development of imagery in relation to historical precedents, contemporary issues and personal expression.

TXDG-260  Credit Hours: 3
Print Design I
Apparel Prints are created for the local market in this course. Students also learn about the various printing methods used in textile mills with all its possibilities and limitations.

TXDG-300  Credit Hours: 3
Print Design II
In the 5th semester, students design and produce printed textiles, according to a brief given to them by a buyer and/or according to trends predicted for that year, with specific end use and well defined target market e.g. Home textiles for the European market.

COMP-301  Credit Hours: 3
Computer Aided Designing I
This course is designed to develop an understanding of the digital medium used in textile design. This gives them an opportunity to develop and manipulate their ideas on software like Photoshop, and NedGraphics printing studio which are an essential tool for digital designing worldwide. They

Employers’ Corner

Wayne Jansz
GM Marketing & Merchandizing
Artistic Garment Ltd.

We have a fantastic team of tip students some of them have been working with us for 8-9 years. Tip students are very good in their approach they can interact very well with the clients and also they are very focused on reaching their own personal goals at the same time; professionally and personally. Our company greets the students of tip with open hearts and we provide them with opportunity to work with our chain. We look forward to work with more tip students.
convert their designs as per the specification of the production technology. In this course the emphasis is on print designs and their mapping on the specific products.

**TXDG-301 Credit Hours: 3**

**Art History II**
This course examines the art pre-modern (1800-1880 AD). The study progresses to an exploration of art of the modern and post-modern art of the 21st century with an in depth understanding of avant-garde art. Students also explore the works of Pakistani artists who have contributed to the field of art in the past and the present.

The study of Art History requires a student to gain knowledge and understanding of what they see in terms of elements and principles of art and design. Comparisons are drawn with the mind’s eye of the different artists/movements and the works produced. The aim of this course is to enable students to understand the objectivity and subjectivity in the works of art, the value of diverse experiences & shared knowledge as a way of continuing art & traditions and combining the exposure to art history with the desire to foster art appreciation.

**COMP-302 Credit Hours: 3**

**Computer Aided Designing II**
The aim of this course is to make students familiar with the different and advanced techniques of weave design creation on CAD System for Simple/Complex weaves, Dobby & Jacquard and their application in the Textile Industry. It will equip the students with the understanding of the CAD – Computer Aided Designing to CAM – Computer Aided Manufacturing (from design creation to production).

**TXDG-302 Credit Hours: 3**

**Design Techniques**
This course is to introduce the students to different traditional design techniques. They shall be exposed to the realm of fabric coloration through paints, dyes, resist pastes, bounds & bleach. Students will also learn the techniques of surface embellishment and value addition on textiles using block printing, screen printing and embroidery. Skill in the application of design through the above mentioned media will be sharpened, and emphasis will be given to composition & colors.

**TXDG-309 Credit Hours: 2**

**Product Development**
The focus of this course is to understand the capabilities of mainstream technology used in the textile industry for weaving, dyeing, printing and finishing- both for limitations and for better utilization of this technology and to bridge the communication gap between technologists and designers for efficient production. This course also emphasizes the supply-chain process from marketing and production to retail for an effective business input into the design process.

**TXDG-310 Credit Hours: 2**

**Creative Drawing**
In this course, students build upon and reinforce the creative process of engaging imagination; the process of image making advances to a complex and particularized level. Students will learn to work in various styles and with unconventional techniques to acquire unexpected results through exploration of the aforementioned. Use of appropriate visual language, processes, style and medium will be the prime concern for the class while working on different subject matters.

**TXDG-311 Credit Hours: 3**

**Handloom Weaving III**
Students in their third year apply the concepts, knowledge and techniques learnt in their previous courses of handloom weaving to produce woven samples and fabrics for market oriented products e.g. men’s shirt fabric, furnishing fabrics etc. The possibilities and limitations of a handloom and power loom are further explored in this course.
TXDG-312  Credit Hours: 3
Weaving Project
In this advanced handloom weaving course, students explore and learn complex traditional weaves involving painstaking labour and exciting technical challenges. This develops an appreciation of traditional textile crafts produced by our indigenous craftsmen, with specialized skills and highly sophisticated methods on these looms. At the next level, students introduce their creativity and suggest innovation, where possible, to adapt these crafts to the contemporary consumers.

TXDG-330  Credit Hours: 3
Design Project
This course is project based. Students develop 3 print designs which are product and market oriented with complete specification for production adaptability. They explore the market for trends, study the target clientele and execute ideas keeping the limitations and possibilities of the suggested production method.

TXDG-400  Credit Hours: 16
Design Research Project
The design students are required to undertake a major project in their final year. This project is expanded over two semesters i.e. 7th and 8th. Students develop their own brief and create a range of products for a target market, taking inspiration from a particular theme. All these elements are integrated into their products, which is developed, created and finished by them during the two semesters. They also have to present these products to the audience in the form of a degree show at the end of the semester and devise a marketing plan for them.

TXDG-402  Credit Hours: 2
Introduction to Interior Design
The use of textiles is broad and significant in decorating interior. In this course, they learn to express their product ideas through perspective drawing using special CAD software as well as architectural drawings. This gives textile designers an opportunity to visually explain the application of their designs in the environment they are created for etc. Emphasis of this course is on developing a personal style of execution and presentation.

TXDG-403  Credit Hours: 2
Fashion Illustration
In this course students learn how to display their apparel designs as finished products in 2D drawing form. They learn various methods of creating illustrations for men’s apparel, women’s apparel and children’s wear.

TXDG-428  Credit Hours: 3
Dissertation
Dissertation is the written component of the Design Research Project (TXDG 400). It is a commentary about any subject that relates to, informs and support the concept developed for the project.
MANAGEMENT & MARKETING

ACCT-101  Credit Hours: 3
Principles of Accounting I
This course enables the students to understand the structure of accounting, accounting framework and recording events and financial statements. Basic accounting concepts, accounting records and systems, ledger and journal, double entry bookkeeping, balance sheet, profit and loss statements and cash flow statements are also discussed.

ACCT-102  Credit Hours: 3
Principles of Accounting II
The course is a continuation of ACCT-101. This course will cover the equities side of the balance sheet together with an appreciation of the Cash Flow Statement and simple analysis of the balance sheet.

COMP-201  Credit Hours: 3
Internet and E-Commerce
This is an introductory course in which size, scope and impact of e-commerce is explored. This course includes discussions about ethical issues such as privacy and the global digital divide, and introduces concepts that transcend functional business areas and disciplines. Additional topics include market valuation of the e-commerce firm, and government policies and issues concerning e-commerce, such as regulations, taxation, subsidies, infrastructure, and a public good component.

ECON-201  Credit Hours: 3
Business Economics
This course is built upon the basic concepts in economics. The student will learn to see the market through the eyes of an individual or a firm and combine these concepts with the aggregate forces affecting the economy as a whole. The course covers the topics on consumer behaviour, economic theory of the firm, resource allocation and price determination, the free market supply and demand mechanism, pure and imperfect competition models, factors determining aggregate economic performance, employment, inflation, price level and output, economic growth, monetary and fiscal policy.

FNCE-201  Credit Hours: 3
Business Finance
This course provides students with the understanding of the various methods of financing a company and the application of its funds. The salient features of the course include working capital, its management, capital budgeting, short and long term financing and profit planning.

MGMT-201  Credit Hours: 3
Principles of Management
Effective management and work of employees within organizations is the backbone of modern societies. It is the manager who makes decisions on the use of human resources, materials, technology and capital.

The course attempts to show a realistic picture of what the manager’s job involves and how it has changed over the years. The course emphasises the skill that managers must provide the solutions to all-managerial situations and issues, that managing within organisations is a mixture of an artful and scientifically based decision-making process.

MGMT-204  Credit Hours: 2
Business Law
The course is designed to be an introduction to business law that covers the fundamentals, including contracts, liability, regulation, employment, and corporations. This class provides an in-depth treatment of the law of contracts and partnerships.

ACCT-207  Credit Hours: 3
Cost Accounting
The course covers an introduction to nature, objectives and procedure of cost accounting control, job order or process costing, joint product costing,
standard costs and cost allocations methods. The use of cost accounting data for managerial activities and taking business decisions is also emphasized.

**ECON-211  Credit Hours: 3**  
**Microeconomics**  
Provides basic knowledge of economic concepts and phenomena, relative importance of microeconomics and how it relates to the real world. The course topics include consumer behaviour, cost, production, revenue, profit, different types of markets, game theory and mechanism of price determination under different markets.

**ECON-212  Credit Hours: 3**  
**Macroeconomics**  
This course deals with the basic knowledge of macroeconomic concepts and various economic models in providing explanation on the working of the economy. The topic includes national income accounts, macroeconomic equilibrium, aggregate economic performance, inflation, unemployment, business cycle, money market, IS-LM curves, general equilibrium, monetary policy and fiscal policy.

**BUSS-250  Credit Hours: 3**  
**Business Communication**  
This course seeks to develop communication skills needed
for those preparing for a business and management position. The course outline has been designed to develop interpersonal communication skills, such as dealing with business problems, organising effective speeches, letters and memos. For this purpose, along with the exposure to relevant business examples, students are made to think critically and draft letters and memos on as many situations as possible.

MGMT-301  Credit Hours: 3
Research Methodology
This course deals with the tools and techniques of scientific research methods and their application to graduate studies. Topics include formulation of the problem and related hypothesis, development of research design, sampling techniques, construction of questionnaires, interviewing techniques, data analysis and solution of models.

MRKT-301  Credit Hours: 3
Principles of Marketing
This course introduces the concepts of marketing and their application in Textiles. Focus is on identifying consumer needs and satisfying them by implementing and appropriate marketing program comprising suitable product(s), pricing, distribution channels and promotion. The use of market research, strategic planning and development of marketing plans will also be explored.

MRKT-302  Credit Hours: 3
Fashion Marketing
This course introduces and facilitates students to critically evaluate the concepts of fashion marketing, applying marketing principles to fashion products, fashion promotion policies, method of promotion and fashion communication strategies. Participants are required to develop and present marketing mix strategies based on fashion research, analysis of fashion consumer behaviour and trend forecasting. The importance of visual merchandising is demonstrated through field trips and students are required to showcase visual merchandising of their chosen product from haute-couture, designer label, mass market and street fashion segments.

MGMT-302  Credit Hours: 3
Organizational Behaviour
This course will emphasise the behaviour of people in organizations and how managers can become more effective through better understanding of the human dimension of management. The course will offer a multidimensional approach by bringing together the student’s previous understanding of both management and psychology. A lot of emphasis will be placed on the importance of appropriately trained, motivated employees, which can provide the modern organization with strategic competitive advantages.

STAT-306  Credit Hours: 3
Statistical Inference
This course aims at introducing the methods and techniques of statistical estimation, hypothesis testing and inference making. It is expected that the students; after successful completion of this course would be able to employ statistics in managerial decision making and testing of statistics hypothesis.
**ECON-312 Credit Hours: 3**

**International Trade & Finance**

The aim of this course is to familiarize students with international trade and finance and its effect on the economy. It will equip the student with the understanding of the economy and how the business is directly or indirectly affected by local and international economic activities. On completion of the course the student will have the knowledge of economic and political institutions and their effect on trade patterns.

The course discusses problems and advantages due to a change in Government policies or the effect of any international event on domestic economy. The course also covers different financial markets and international financial environment.

**MGMT-314 Credit Hours: 3**

**Marketing Management**

Marketing management is the practical application of marketing techniques. It is the analysis, planning, implementation, and control of programs designed to create, build, and maintain mutually beneficial exchanges with target markets. The course is specially designed for textile students.

**MGMT-390 Credit Hours: 3**

**Production and Operations Management**

This course examines the role of operations management in both manufacturing and service organizations. Concepts, tools and techniques for managing the operations function will be discussed. Topics include operation strategy, design, planning and control.

**MRKT-401 Credit Hours: 3**

**Export Marketing**

This course provides a conceptual and practical framework for exporting. The students are challenged to think globally, research and develop a business plan for cracking a new market for exporting Textiles and Apparel products. The quality, do-ability and marketability of the proposal determine the application of marketing principles, significance, appreciation and management of cultural differences and country profiling for customization of marketing mix.

**MGMT-403 Credit Hours: 3**

**Retail Management**

Retail Management is a critical function of marketing, especially for textile products, and of the business in the broader term. This course will enable the students to appreciate the importance and significance of retailing in achieving the firm’s targets. The basic concepts and strategies in retailing will be explored. The role of retailing in the society and conversely, society’s impact on retailing will be thoroughly investigated. The strategic importance of store location, merchandizing, pricing and customer service and relationships, will be analyzed.

**MGMT-407 Credit Hours: 3**

**Human Resource Management**

This course is about both the design and execution of human resource management strategies. It adopts the perspective of a general manager and addresses human resource topics (including reward systems, performance management, high-performance human resource systems, training and development, recruitment, retention, equal employment opportunity laws, work-force diversity, and union-management relationships) from a strategic perspective.
MRKT-411 Credit Hours: 3
**Personal Selling**
This course introduces the concepts and practices of selling. The significance and importance of selling in all human interactions will be clearly established. Executives and corporate managers are continually applying the tools of selling in their social and working environment for best results.

The course is thus designed to equip students with an improved preparedness to succeed in their personal and professional lives.

MGMT-412 Credit Hours: 3
**Supply Chain Management**
This course focuses on the movement of textile products from fibre to the sale of the finished product in terms of production, quality, wholesale and retail. It covers logistics, costing, quick response, EDI systems, and inventory control.

MGMT-413 Credit Hours: 3
**Strategic Management**
The course will enable students to understand the big picture of business studies, which encompasses Accounting, Finance, Marketing, Production, Human Resources and information systems. The students will be exposed to the total operation of an enterprise, its long term direction and strategy, resources and its prospects for success.

MGMT-428 Credit Hours: 6
**Management Research Project**
All Management and Marketing students in the final year are required to undertake a management research project. The area of study is chosen with the consent of the concerned faculty. A faculty member is assigned to oversee the research project and provides guidance for collecting type and quality of data, both primary and secondary, data analysis and strategy formulation. The project is spread over a period of two semesters and findings of the research are submitted to the faculty supervisor and external examiner in the form of a written report.

The report at different stages of preparation is evaluated by the faculty supervisor and/or a panel comprising cross-functional faculty from TIP and external. The final report is examined by the faculty supervisor and an external examiner of the concerned field. The students have to defend their report in an interview session with the external examiner.
APRL-101/APRL-301 Credit Hours: 3
Introduction to Apparel & Fashion
This course is an introduction to fashion design conducted as workshops. Students will learn the fashion design techniques; develop illustrations and their own designs. It also covers apparel market.

APRL-201 Credit Hours: 3
Pattern Construction
This course introduces scientific pattern making techniques and covers basic garments such as skirts, jeans, shirts, blouses and dresses. Pattern modifications to selected designs and to development of production patterns are also taught. This course also covers manual grading of skirts and trousers.

APRL-202 Credit Hours: 3
Garment Technology I
The course is conducted as lectures and workshops. Student will learn sewing technology, prepare cut plans, and will be trained to operate industrial machines to produce garments according to required quality standards.

APRL-206 Credit Hours: 3
Apparel Pre-Production
This course is developed to impart understanding about value added processes in apparel manufacturing technology. Starting form fabric finishing, garment printing and washing techniques will be covered. Water treatments for chemical processes are also included in this course.

APRL-302 Credit Hours: 3
Garment Technology II
The course is an extension to Garment Technology I. Student will understand to solve problems encountered in sewing lines due to machines, needles, operators and patterns. Also covers production systems, garment operation breakdowns and fusing technology while producing a number of sample garments to the required quality standards from their own patterns.

COMP-303 Credit Hours: 3
CAD/CAM for Apparel
This course covers computerized pattern making, grading, 3D shaping, marker making using GERBER technology and computerized weave design for fabrics. Also covers CAM such as ETON systems, auto spreading and laser cutting etc.
APRL-308  Credit Hours: 3  
**Apparel Quality Control**
This course covers quality control techniques such as statistical quality control, acceptance sampling, TQM and Japanese techniques. It also covers certification and other standards, how to conduct garment inspections and how to manage a QA department.

APRL-309  Credit Hours: 3  
**Product Development**
Product development requires merging information and skills from marketing, design and technology. The student taking this course will study how successful brands are able to execute their product lines. This course includes hands-on projects of fashion design, market research, fashion merchandising, and branding. Students taking this course will understand the job of a fashion designer, textile designers, textile technologists, and apparel manufacturers, in order to manage them and to be able to integrate their skills into the product development and manufacturing side to apparel.

APRL-401  Credit Hours: 3  
**Apparel Manufacturing**
This course provides an overview of supply chain in garment manufacturing for non apparel students. The course also includes field visits to factories. At the end of the course, students are able to identify the basic process and equipment needed for apparel manufacturing.

MGMT-402  Credit Hours: 3  
**Ergonomics**
This management course is offered exclusively for apparel students to understand occupational diseases, design of work place, develop work environment and manage health and safety at work.

APRL-419  Credit Hours: 3  
**Apparel Production Management**
This course deals with optimum utilization of resources in apparel manufacturing. It covers management aspects of industrial engineering, plant layouts, scheduling and controlling production lines, cost control, lean process and equipment acquisition.

APRL-428  Credit Hours: 6  
**Apparel Project**
All Students in the final year have to undertake a research project focused on a particular area of the apparel industry. The project is extended over a period of two semesters. The findings of the research are submitted to the faculty supervisor in the form of a written thesis report.
FASH-101  Credit Hours: 3
Introduction to Fashion Design
This is an introduction to fashion design conducted as workshops. Students will learn fundamentals of design, concepts and terms. On successful completion of this course, the students will understand fashion design and factors affecting fashion, would be able to illustrate own designs and learn basic draping techniques.

FASH-110  Credit Hours: 4
Drawing I
An introduction to a variety of approaches to drawing, this course provides students with the tools for both structured and experimental exploration in the studio. Distance and form are examined along with the exploration of gesture, contour and the modelling of forms. Emphasis is on the development of observation and the understanding of range of mediums and techniques.

FASH-120  Credit Hours: 4
Drawing II
This course serves as a transition between foundation courses and advanced courses. While it continues to build upon the technical abilities students bring to the class, it will entail the students to expand their understanding about what they are doing. This course allows students to explore image making, using mediums and different possibilities of representation. The emphasis is on the usage of mediums along with the experimentation and synthesis of the elements of visual arts.

FASH-150  Credit Hours: 4
Basic Design
This course introduce students to the basics of the principles and elements of design, be it in textiles, architecture or graphics etc. It will be an introduction to problem solving skills and terminology in visual perception. An understanding of the principles and elements of design is developed through exercises and students learn the visual language, required to express their original ideas. They also use this visual language in the analysis of design, in relation to the context, expression, information and interpretation.

FASH-201  Credit Hours: 3
Pattern Construction
This course introduces scientific pattern making techniques and covers blocks for basic garments.
Also covers advance topics such as pattern modifications to selected styles and manual grading of garments. On successful completion of the course, the students would be able to interpret the terminology used in pattern making, explore manual pattern drafting techniques for basic garments and understand the principles of marker making for couture and Grading for mass production.

FASH-202 Credit Hours: 3
Garment Technology
The course is conducted as lectures and workshops. Student will learn sewing technology, prepare cut plans and acquire skills to operate industrial machines to produce basic garments to the required quality standards. This course will enable the students to understand the techniques in garment production, operate machines safely for sample garment production and explore the process of garment production.

FASH-203 & FASH-204 Credit Hours: 3
Fashion Illustration I / Fashion Illustration II
Both these courses cover elements of fashion illustrations. These courses are designed to build students fashion drawing and illustration skills, using a variety of us mediums. Students will learn how to find stimulation and develop their design ideas. These courses also covers illustration of design details to improve fashion illustration skills. Students learn how to draw the fashion figure, create 3D effect with shading and rendering the garments in colour.

FASH-205 Credit Hours: 3
History of Art
Art History encompasses the progress of humankind, from the prehistoric times (30,000 BC-3000 BC), through to the Renaissance (1400-1800 AD). The study progresses to an exploration of art of the modern and post-modern art of the 21st century with an in depth understanding of avant-garde art. This course gives a fascinating and seemingly endless tour through the world of art revealing a classical collection of thousands of years of human practice and progress; inspiring the student to brave his/her creative side and to appreciate a variety of aesthetics.

FASH-300 Credit Hours: 3
Textile Design
This course covers basics of textile design process required for fashion design managers. Includes colour theory, textile finishes, development of texture, floral, motif, mosaic repeats, printing methods such as digital, screen printing, hands on experience in screen print on selected design.

FASH-301 Credit Hours: 3
Design Realization I
This course will focus upon the understanding, development and realisation of the fashion product. The course will allow the students to develop their essential understanding of the fashion process through the principles of design research and analysis, development of design ideas through 2D and 3D exploration. The students will learn the realisation and production of the fashion product with industry and commercial ideals.

The course will also enhance and equip students with the wider professional, communication and business skills needed to succeed in today’s competitive creative industries.

FASH-302 Credit Hours: 3
Draping
This covers fabric modelling in order to develop patterns utilizing a 3D approach by draping fabric onto a body form or workroom stand to interpret ideas. The shape is then transferred onto paper to obtain a pattern. The students will learn further understanding on draping materials, develop various fashions through drape and produce 2D patterns.

MRKT-302 Credit Hours: 3
Fashion Marketing
This course introduces and facilitates students to critically evaluate the concepts of fashion marketing, applying marketing principles to fashion products, fashion promotion policies, method of promotion and fashion communication strategies. Participants are required to develop and present marketing mix strategies based on fashion research, analysis of fashion consumer behaviour and trend forecasting. The importance of visual merchandising is demonstrated through field trips and students
are required to showcase visual merchandising of their chosen product from haute-couture, designer label, mass market and street fashion segments.

FASH-303 Credit Hours: 3
History of Fashion and Costumes
Designed to provide an understanding of major periods in Western clothing history, and a working ability to research clothing of any culture or era, this course allows students to explore historical styles of the Western world, from the garments of the ancient Egyptians and Greeks to the runway looks of fashion in its modern day. The objective of this course is to endow the students with the ability and skills requisite to identify and analyze costumes of various time periods.

COMP-304 Credit Hours: 3
CAD for Fashion
This course covers computerized fashion illustrations, grading, marker making, printing & embroidery required for fashion designers in the industry. It ensures the creating of patterns that will fit specifications and grades to multiple standard sizes in limited time which is crucial to the fashion industry. Students will learn to develop various 2D patterns for own designs.

FASH-304 Credit Hours: 3
Design Realization II
This course will be a continuation of Design Realisation I (FASH-301). The students will learn the realisation and production of a range of fashion products for a selected buyer on commercial basis. The course will also enhance and equip students with the professional, communication and production skills needed to manage a fashion house and production line.

FASH-308 Credit Hours: 3
Apparel Quality Control
This course imparts the knowledge of quality control and technology. It aims to teach students the basis of quality with focus on prevention methods and techniques through modules specially designed to educate students’ quality control and cost effectiveness. It covers quality control techniques such as statistical quality control, acceptance sampling, TQM and Japanese techniques. It also covers certification and other standards, how to conduct garment inspections and how to manage a QA department.

FASH-309 Credit Hours: 3
Product Development
Product development requires merging information and skills from marketing, design and technology. The student taking this course will study how successful brands are able to execute their product lines. This course includes hands-on projects of fashion design, market research, fashion merchandising, and branding. Students taking this course will understand the job of a fashion designer, textile designers, textile technologists, and apparel manufacturers, in order to manage them and to be able to integrate their skills into the product development and manufacturing side to apparel.

FASH-321 Credit Hours: 1
Fashion Photography
Photography is a very essential medium to produce images in a short span of time. In this course students learn the basic operations of a digital and/or a 35mm SLR camera with manual settings. Composition and exposure tools are taught through practical assignments. Students are encouraged to expose with manual settings. This course is designed on project based learning. Students are given indoor and outdoor photography assignments and group critique is organised after every project.

FASH-401 Credit Hours: 3
Embellishment
This course enables students to gain skills of hand stitches, embroidery and patch work to add value for the design, manipulate fabric
with a creative and investigational approach to create new textures and ideas, as well as practice traditional and non-traditional techniques.

**MRKT-402**  Credit Hours: 3  
**Visual Merchandizing**
One of the core competences in fashion marketing is visual merchandizing. The course not only covers the theory but also develop skills on setting up merchandize for visual display in stores, fashion houses, exhibitions and other display areas. This course is linked with photography and interior design.

**FASH-403**  Credit Hours: 3  
**Fashion Journalism**
It is not enough to know fashion but to communicate fashion through making leaflets, brochures, fashion booklets and news articles. Objective of this course is to develop skills in journalism to express models and dresses to the customers effectively.

**FASH-428**  Credit Hours: 6  
**Fashion Research Project**
Student will either develop their own collection of fashion garments which will be displayed as a collection at the end of the year as a thesis or develop a project on strategic and entrepreneurial vision on how to effectively respond to constant changes in consumer demand and personal development appropriate to careers in the fashion and luxury business.
COMP-101  Credit Hours: 3  
**Computer Concepts**
This course provides the basic computer concepts to students who have had no previous exposure to computers. The course initially familiarises the students with the fundamentals that include basic knowledge. This course encompasses the fundamental computer concepts, terminologies, introduction to PC hardware, the Windows environment and various computer application software. In the lab, students will learn word processing, spread sheet and presentation packages. Introduction to CAD/CAM Technologies and Graphics Application in Textiles at very basic level is another objective of this course.

ENGL-101  Credit Hours: 3  
**English Language Basics**
This course involves training in correct, simple but effective expression in writing; review and reinforcement of the fundamentals of grammar and punctuation. Students are taught the rudiments of sentence mechanics, sentence editing and peer correction.

COMP-102  Credit Hours: 3  
**Computer Applications**
This course is aimed at providing some advanced computer techniques to students who are pursuing a career in textiles. The course lays emphasis on developing practical expertise and implementing computer aided designing - CAD, managing real world databases in Access, and using the Internet through advanced search techniques.
ENGL-102  Credit Hours: 3
English Composition
This course focuses on skills and techniques used for effective writing. Class activities are focused on practical use of writing tools. Students learn how to analyse and write well organised and coherent texts. Students also learn to apply strategies of editing their work and how to use skills of referencing and bibliography. Emphasis is placed upon using appropriate rhetorical modes of writing.

PKST-200  Credit Hours: 1
Pakistan Studies
The course in Pakistan Studies includes the social, political, economic, and industrial development of Pakistan. During the course, a number of guest speakers are invited to enrich the programme.

RELG-200  Credit Hours: 1
Religion
The aim of the course is to familiarize students with the history and teachings of Islam. Students will also be provided an exposure to a comparison of Islam with other prominent religions of the world. Subsequent to class discussion on a particular topic guest speakers will be invited to further enrich the students on the subject.

ENGL-201  Credit Hours: 2
Oral Communication
This course enables the students to become fluent in spoken English using appropriate and accurate language. Students are encouraged to present their point of view coherently through class discussions, impromptu speeches, debates and presentations. The importance of developing good voice and interpersonal skills is stressed. Through role-play activities, students learn the art of negotiation employing tact and diplomacy.
Admissions Information
Entry Requirements

The minimum entry requirements for the programmes offered at TIP are as follows:

BSc (Hons) in Textile Science

- Minimum 50% marks in Intermediate (Pre-Engineering.)
  OR
- GCE ‘A’ Levels in three major subjects (Maths, Chemistry, Physics)
  OR
- Equivalent qualification (to be evaluated by the Admissions Committee).

For All Other Disciplines

- Minimum 50% marks in Intermediate in any field
  OR
- GCE ‘A’ Levels in any three major subjects
  OR
- Equivalent qualification (to be evaluated by the Admissions Committee).

Formula weightage for admission test:

- Intermediate / A level results 20%
- TIP Admission Test 50%
- Interview 30%

Admission to the Institute is strictly on merit as determined through an internal aptitude test of TIP and interview. Successful candidates passing the aptitude test will only qualify for the interview. Candidates passing the interview will then be short-listed for admission at TIP.

The admissions test comprises of three (3) components and is written in English. It consists of multiple-choice questions, designed to recall factual information, application of knowledge and deductive and problem-solving ability.

The subject matter used for the admission test is based upon the current syllabi prescribed by the Board of Intermediate Education in Pakistan for Chemistry, Physics and Mathematics. The English Language section tests competency in English, as English is the medium of instruction at TIP.

Applicants must be able to demonstrate competence in English comprehension and expression, both written and verbal.

Applicants for the Textile Design Technology and Fashion Design Management programmes also have to take a drawing test to demonstrate drawing skills.

Copies of all relevant documents must be submitted with the admission form. However, students are also required to show original documents as well.

All academic requirements must be fulfilled and tuition fee paid by the due date in order to complete enrolment.
Fee Structure

One Time Charges

**Admission Pack** (non refundable) Rs. 1,500/-
(Inclusive of Admission Processing Fee)

**Admission Fee** (non refundable) Rs. 15,000/-

**Security Deposit** (refundable) Rs. 10,000/-

A Security Deposit will be required before registering for the first semester of the first year of study. This deposit covers the use of microscopes, laboratory equipment, learning aids and library. The deposit, less the cost of damages, if any, will be refunded at the end of completion of the Bachelors’ Degree programme.

Fees to be paid every semester

**Tuition Fee**
- Rs. 4,800/- per credit hour

**Student Facilities & Activities** Rs. 3,500/-

Upon acceptance of application, the fees must be paid in full by the due date indicated on letter of acceptance.

*15-18 credit hours are offered every semester (refer to programme details)*

Optional Facilities

**Transport (from city)**
**Transport (from Steel Town/Gulshan-e-Hadeed)**
**Hostel Accommodation**

**Students are required to apply for these facilities. Charges for these facilities are revised every semester and will be applied accordingly.**

TIP reserves the right to review its tuition and other fees annually to cover inflation and other costs. All payments can either be made directly into Bank Al Habib (Shahra-e-Faisal Branch) or through pay order at TIP’s city office. A late payment penalty of Rs. 2,000 per month will be applicable past the deadline of fee payment.

Fee Refunds

There is no fee refund policy at TIP. If the student decides to withdraw from the institution after enrolment, he/she will not receive any refunds except the security deposit (Rs. 10,000/-).
Scholarships & Financial Assistance Schemes:

In line with TIP’s core values, no deserving student is denied education on the basis of affordability. Students can avail the following attractive Financial Assistance Schemes offered at TIP:

(1) MERIT SCHOLARSHIPS AT THE TIME OF ADMISSIONS

Scholarships covering 50% tuition fee are available for the first year (2 semesters), subject to obtain a minimum GPA of 2.0 in the first semester.

Eligibility Criteria
• 70% marks in Intermediate or A-level qualifications
• 60% marks in TIP Admission Test
• Clearance of Admission Interview
• Since limited number of merit scholarships are announced each year, only the top candidates will be awarded Merit Scholarships based on the admission test result.

(2) MERIT SCHOLARSHIPS

Top three position holders in each of the 5 programmes offered at TIP are granted Merit Scholarships every semester based on the following criteria:

<table>
<thead>
<tr>
<th>Position</th>
<th>Scholarship</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Position</td>
<td>100% Scholarship at 4.0 GPA</td>
</tr>
<tr>
<td></td>
<td>50% Scholarship between 3.50 to 4.0 GPA</td>
</tr>
<tr>
<td>2nd Position</td>
<td>30% Scholarship at 3.5 and above GPA</td>
</tr>
<tr>
<td>3rd Position</td>
<td>20% Scholarship at 3.5 and above GPA</td>
</tr>
</tbody>
</table>

In case a position is shared by more than one candidate, then the scholarship amounts for the respective positions are added and distributed equally amongst these students.

(3) NEED-CUM-MERIT SCHOLARSHIP & INTEREST FREE LOAN

Up to 100% Need-Cum-Merit Scholarships and Interest Free Loans are available after completing first year (2 semesters) education at TIP based on meeting the following minimum performance criteria:

• Minimum GPA of 3.25 for need-cum-merit scholarship
• Minimum GPA of 2.75 for need-cum-merit interest free loan

In order to assess the need of the student, a duly filled application form must be submitted. The application form can be obtained from TIP Main or City Campuses or can be downloaded from TIP’s website.

Disputed Matters

In all matters pertaining to selection of students, fees, loans, evaluation of scholastic performance, discipline and student affairs, the decision of the appropriate committee of the Institute shall be final.
Credit Hours

Generally, one lecture hour or three laboratory hours per week, for a full semester, constitute one credit hour.

Grading System

The following grading system shall be implemented for Fall 2014 semester.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
<th>Percentage Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
<td>89 &amp; above</td>
</tr>
<tr>
<td>A</td>
<td>3.75</td>
<td>84 - 88</td>
</tr>
<tr>
<td>B+</td>
<td>3.5</td>
<td>79 - 83</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>74 - 78</td>
</tr>
<tr>
<td>C+</td>
<td>2.5</td>
<td>69 - 73</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>64 - 68</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>59 - 63</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>58 &amp; below</td>
</tr>
</tbody>
</table>

Not calculated in the Grade Point Average:

I  Incomplete
W  Withdrawn during first 3 weeks of classes.
IP In progress (for a course, for which a grade is not necessarily due at the end of the semester, e.g. independent study)

Grade Point Average (GPA)

Grade Point Average (GPA) is calculated by multiplying the points obtained in each course by the number of credit hours of the respective course. CGPA is computed by dividing the total number of grade points earned by the total number of credit hours taken.

Academic Warning, Probation & Suspension

A student must maintain a minimum Cumulative Grade point Average (CGPA) of 2.00 throughout his/her stay at TIP. A student with a CGPA of less than 2.0 is placed on Academic Probation.

A student faces dismissal from the Institute, if he/she is unable to bring the CGPA (Cumulative GPA) up to a level of 2.00 in the semester following the one in which he/she was placed on Academic Probation.

In some cases, a student may receive a grade of “I” or “Incomplete” at the sole discretion of the instructor. This may be the result of a student being sick during a test or other mitigating circumstances. In such an eventuality, the student will have one academic semester to complete the course and remove the “I” from his/her academic record. Failing this, the instructor may either award an ‘F’ to the student, or change the grade to a permanent “I”.
Evaluation and Grading

The performance of students is evaluated through a continuous testing procedure spread over the entire period of studies. Besides the final examination at the end of each semester, a number of tests and assignments are given at regular intervals during the semester. Moreover, the performance of students in class discussions, written assignments, research reports, etc. is evaluated and forms a part of their overall grades.

Grade Appeals

In rare cases, a student wishes to have his/her grade reviewed. The student must submit his/her appeal in writing to the academic Coordinator or the Dean, whose findings will be final and irrevocable.

Class Attendance

Regular and punctual attendance of all classes and laboratory sessions is the responsibility of each student. Work during a semester proceeds at such a pace that regular attendance is necessary in order for a student to obtain maximum benefits from the course. As per Institute’s policy:

- 90% attendance is mandatory, which means only 3 absences are allowed, in 75 minutes sessions, during a semester.
- If the student exceeds this limit, 1 mark will be deducted for every extra absence up to 8 absences.
- However with more than 8 absences, the student will get “F” in the course and will not be allowed to sit in the final examination.
- Some course instructors may mark the student arriving late to the class. Such a policy is entirely up to the discretion of the course instructor and is given in the course outline. It is the student’s responsibility to clarify such attendance policies given in the course outline with the instructor.

If a student is absent from a lecture, it is his/her responsibility to find out and cover the material that was missed. The course instructor reserves the right to refuse help to students who miss lectures regularly.

Award of Degrees

Upon successfully passing 132 credit hours, the student would be considered as a candidate for graduation. However, to be eligible for the award of a degree, all unsettled matters, both financial and others, must be cleared in advance.

Graduate Honours List

A student must have the following minimum Cumulative Grade Point Average (CGPA) in order to graduate with honours:

<table>
<thead>
<tr>
<th>Honours</th>
<th>CGPA Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cum Laude</td>
<td>3.40 to 3.69</td>
</tr>
<tr>
<td>Magna Cum Laude</td>
<td>3.70 to 3.89</td>
</tr>
<tr>
<td>Summa Cum Laude</td>
<td>3.90 to 4.00</td>
</tr>
</tbody>
</table>

Honours List

At the end of each academic semester, the following lists are compiled of students who have achieved grade point average (GPA) of 3.5 to 4.0 on a minimum of 15 credit hours, exclusive of Pass/Fail course work.

<table>
<thead>
<tr>
<th>List Type</th>
<th>GPA Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean’s List</td>
<td>3.50 - 3.99</td>
</tr>
<tr>
<td>President’s List</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Discipline

Students are required to abide by the rules and regulations of the Textile Institute of Pakistan. The Institute expects, and will demand honesty from its students. Dishonest behaviour during examinations as well as in other settings will result in irrevocable dismissal from the Institute.

Other causes for dismissal might include: submitting false evidence; stealing; wilful destruction of equipment, furnishings or property; physical violence against other students, faculty or staff; possession and use of drugs and arms; violation of civil rights of others; organisation of civil disturbances; and non payment of tuition and other fees.
Protracted absence without permission from classes, laboratories and other scheduled instruction or practical experience and the inability to cope with the curriculum can also be a cause for dismissal.

Students who, after joining classes are expelled on disciplinary or any other grounds will not be entitled to any refund.

**Academic Dishonesty**

Academic dishonesty may be described as but is not necessarily restricted to:

- Giving, receiving, or using unauthorized aid on any academic work.
- Plagiarism, which includes copying of language, structure, or ideas of another and attributing the work to one’s own efforts.
- Attempts to copy, edit, or delete computer files that belong to another person or use of another person’s files, account or data.
- Any attempt to help or get help from others during an exam.
- OCR scanning of text from books and submission of assignments without references are also considered as academic dishonesty.

Any proof of academic dishonesty is severely dealt with by the Disciplinary Committee for purposes of disciplinary action.

**N.B.**

At the time of enrolment, students as well as their parents/ guardians, will be required to sign a form to the effect that they have read and understood or have been explained the full meaning of the conditionalities outlined above.
Photography contribution:
Ganwa Khaskheli
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Areesha Irshad
Iqra Awan
Sania Jawed
Ali J Vastani &
our very own ‘Paintoos’