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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.

Mission Statement

To provide state of the art academic facilities, infrastructure for both education and training of students, to facilitate them in competing internationally and to inculcate the habit of preserving the environment by supplementing their efforts and energies in areas of social responsibility and by becoming law abiding citizens.

Furthermore, the institute undertakes the responsibility of instilling the sense of ownership, respect of superiors, helping the downtrodden and less privileged members of the society with a clear focus on work ethics and character building by producing valuable human capital to deliver assignments and create value in textile sector through honing their entrepreneurial skills and effective decision making capabilities.

Chancellor's Message



The only thing constant in life is change. The advancement in technology is mind boggling. However the objective of our efforts at TIP is to build certainty in a time of change. This institution is non-profit and is not a business model seeking profit.

My message to the students, faculty and parents is to have faith. We will certainly try to equip our students with the best of knowledge. You all must probably be aware that Textile Industry is no more a traditional clothing manufacturing industry; it has penetrated in multidiscipline technology subjects.

Segments Of Technical Textiles

Technical textiles are used individually or as a part / components of other products. Based on the end-use applications, these textiles are classified into 12 segments such as:

- Agrotech- agriculture, horticulture and forestry
- Buildtech - building and construction
- Clothtech - technical components of clothing and shoes
- Geotech - geo-textiles, civil engineering
- Homotech - household textiles and floor coverings
- Industech - filtration, cleaning, other industrial usage
- Meditech - hygiene and medical
- Mobitech - automobiles, aerospace
- Oekotech - environmental protection
- Packtech - packaging
- Protech - personal and property protection; and
- Sport-tech - sports and leisure

These textiles of the future are certainly not frivolous and will improve people's everyday lives and benefit industry especially the healthcare sector and the environment.

I wish all the students and their parents best of luck in choosing TIP.

Abdul Majeed

President's Message

It is indeed a great pleasure to welcome you to be a Part of Textile Institute of Pakistan's (TIP) student body. We, at Textile Institute of Pakistan are striving for a higher education quality with assured jobs in the best Textile/Textile Composite/Chemical units of the country along with an enhanced socio-cultural experience which will develop, polish and round off your personality in order to be competitive with other graduates of reputed institutions.

In keeping our philosophy of education, "Think, Innovate and progress". We yearn to provide our students with an academic environment that stimulates and encourages critical thinking, problem solving 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 who will not only excel in their chosen field but will also serve their communities admirably. As part of our commitment to provide equal opportunity to all students, TIP offers need cum merit scholarship to deserving students.

TIP's campus is set in a landscaped, purpose-built 50 acre land on the outskirts of Karachi. It provides a blend of the state of the art academic buildings, hostel and wide open spaces with lush green lawns and tree plantations which serve to provide an aesthetically pleasing and stimulating setting for serious academic



environment as well as for personal development.

In order to accommodate the growing number of students we have embarked upon constructing two state of the art classrooms as well as two design studios in a new building adjacent to our main block.

This building would have solar panels to cater to the energy requirements.

At TIP, we encourage and sponsor student's co-curricular activities and allow them to manage themselves and their events through elected student bodies in the shape of Textile Institute's Student forum

(TISF) and subject-specific societies. These student managed activities and events which run consistently throughout the academic year challenge and satisfy students, while contributing to the dynamic environment of TIP.

However the recent pandemic of COVID-19 has disrupted all the co-curricular activities to a greater extent, and this is not the case with us alone.

The year 2020 posed lot of challenges for us in term of imparting physical classes, but we are happy to report that TIP was amongst the few academic institutes that embraced the "new normal" within the shortest possible time and did manage to conduct online courses, which were of theoretical nature.

For the remainder part of the year 2020 we managed to run a hybrid form of academic activity offline as well as on campus.

By joining TIP and acquiring a professional specialization in one of the six disciplines i.e. Textile Design Technology, Textile Science, Textile Management and Marketing, Apparel Manufacturing and Merchandising, Fashion Design Management and Industrial Manufacturing & Management, Students would be on their way to becoming a highly qualified member of one of the largest and most rapidly developing industries of Pakistan which constitutes textile, chemicals and allied industries.

Globally and in Pakistan, the textile industry is rapidly

evolving from the traditional cotton textiles that are 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, compact cotton and natural fibers.

Internationally, the norms of doing business have become very complicated specially in the field of textiles as almost all textile firms have adopted sustainable business practices which include, using less amount of water, hazardous chemicals, pesticides and fertilizers adopting eco-friendly production processes using less energy and implementing the 3 R's i.e. Reduce, Reuse and Recycle.

Today, newly developed textiles are being used in space exploration, building materials, defense equipment, medical instruments, transportation, advanced apparel 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 and a fast growing industry that thrive on innovation, developing new materials and providing solutions to the challenges of the 21st century.

Furthermore, a degree from TIP would not only enable to foster growth, but will also harness your academic capabilities with the future leadership challenges that lie ahead.

Over its 26 years of existence, TIP 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 lucrative jobs in the leading textile companies.

At TIP we have already sensed that no educational Institute can survive in the long run if it is unable to enhance their existing I.T Infrastructure, it's not only about increasing the band width that we are concerned but we have made substantial improvements in our

Cad/Cam laboratories with state of the art computers which are capable of running specialized fashion and apparel softwares in order to keep our students with the latest development that are taking place in the fashion industry.

Upgradation of I.T is an ongoing investment & an integral part of academic excellence how our lives will change in future entirely depends how we embrace I.T today.

To date, TIP has produced over 1400 graduates who form the backbone of professional management in one of the largest and most progressive textile sectors of Pakistan. Graduating from TIP will place you in the powerful position of being quickly employed at a premium salary with an accelerated career path for faster growth and development.

Humayun Zafar



Dean's Message

I feel honored to welcome you to one of the most prominent institutions imparting textile education and professional training. I am fortunate to have a dedicated and efficient team of faculty and staff. They are the main players who continuously work with a passion of learning, imparting knowledge and skills, problem solving, confidence building and dedication. The ongoing support of our Alumni body and industry strengthens us to achieve our goals and stay at par with the modern world.

In the past few years, we have improved our curricula, relationship with the industry and academia, higher education commission, and community. As a result, we have noticed a significant growth in uptake of students and placement of our graduates for internships and jobs in a diverse range of fields in textile and associated industry. The graduates from our new program, Industrial Manufacturing and Management (IMM), have been very well placed in the industry. That has attracted more students to this program in new admissions.

The efforts are on to establish relationship with national and international institutions of good reputes. Our research collaboration with the International Center for Chemical and Biological Sciences (ICCBS), University of Karachi and prominent textile groups has resulted in several research publications in the reputed international journals. Strength of the institute is a diverse background of students that helps them to learn from each other and will enable them to serve in all parts of Pakistan.

The importance of textile and related education in Pakistan can be judged from



recent surveys, official data and reports. All the national and international reports indicate a significant increase in the export of almost all textile related products from Pakistan. Future is even brighter as well as challenging. Since most of the fabrics is exported to Bangladesh, Turkey, Sri Lanka and Vietnam and they earn more by value addition. Efforts are underway to use our indigenous fabrics for our own garment industry. Continuous brand development and marketing as well as investments in lean and efficient manufacturing are the need of the day in facing intense global competition. Energy saving, environmental and compliance issues need a trained manpower to address the challenges. On the other hand, the government of Pakistan is giving incentives to textile exporters that has shown an initial positive impact on exports. However, a decrease in the export of cotton yarn, and cloth with an increase in knitwear, bed wear and readymade garments exports is evidence of more emphasis on value addition. This is heartening to notice that Pakistan is also attracting international investors. Moreover, we have witnessed a significant growth in Pakistan's knitwear industry.

Based on all these facts, we can anticipate a high demand of technical work force in the textile and related industry especially in value added sectors like fashion, design, garment manufacturing, management and marketing etc.

The TIP is ready to rise to the occasion by providing technical workforce for the future growth of textile and related industry and eventually of Pakistan.

Dr. Abdul Jabbar



A large, stylized arrow pointing to the right, composed of two parallel lines. The inner line is light gray and the outer line is a darker purple. The arrow starts from the left edge of the page and ends at the right edge, with a slight curve at the tip.

Introduction

Textiles being Pakistan's largest industrial sector generate the country's highest export earnings of around 58%, 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 is situated on a 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 Karachi city. 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 is 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 library with individual and group study facilities together with an audio-visual room. The entire campus is WiFi enabled based on dedicated 40 Mbps fibre optic internet connectivity. The computer lab also has a separate CAD lab equipped with specialized software related to the field of textile design, weaving and apparel. The science and textile laboratories, including chemistry, physics, spinning, weaving, knitting, wet-processing, apparel and testing labs, have all been equipped with the specialized machinery for imparting hands-on training to the students.

Computers have also been installed in the hostels to enable hostelites to avail this facility for homework and other assignments. The entire faculty, management, staff and students are transported to and from the campus on TIP's air-conditioned vehicles covering all major parts of Karachi city.

Since its establishment, TIP has served the needs of industry to a large extent and is gearing up its resources to meet its further requirements. So far, all TIP graduates have been taken up by the domestic textile industry with the exception of those who have



gone abroad in pursuit of higher education. With an independent charter granted by the Government of Sindh, TIP is authorized to award its own degrees under the recognition of the Higher Education Commission (HEC). TIP's course content and syllabi were developed by faculty at the Clemson University, USA. TIP also has had various higher education links supported by the British Council and with the University of Manchester. This has helped TIP to adopt and upgrade its educational standards according to the changing global industry and market.

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 technological parameters 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.

New Extension Block

The construction team was given a go ahead to start work on site a few weeks before the Covid Pandemic outburst. A little before that, a mishap had occurred in one of the local universities where a student had fallen from the university's rooftop due to faulty construction on the campus.

The structure present on site was planned as vertical housing for the staff originally, thus was meant to house a few people per floor. In the new design for the structure it proposed two Classrooms on Ground Floor and two Studios, with a capacity of 25 students each, on the First Floor. Even when the load bearing capacity of the structure was tested by the Structure Consultant to be adequate, there was an issue highlighted by the HEC report which stated structure requirements for making the structures, meant for public occupancy, earthquake resistant.

Covid Lockdown was implemented just when digging was completed on site. Work on site resumed a year later.

A few months into the project, Structure and Civil Work was completed along with Plaster Work.

Currently, electrical wiring has been laid out as well as plumbing pipes. Finishing work has started which includes start of paint job; Tiling Work has started as well as fitting of Bathroom accessories.

We are set to finish the job as planned and hope that this will be a good precedence which has been set for future.



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■ **President**
Mr. Humayun Zafar

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Member, National Textile Foundation

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Member, National Textile Foundation

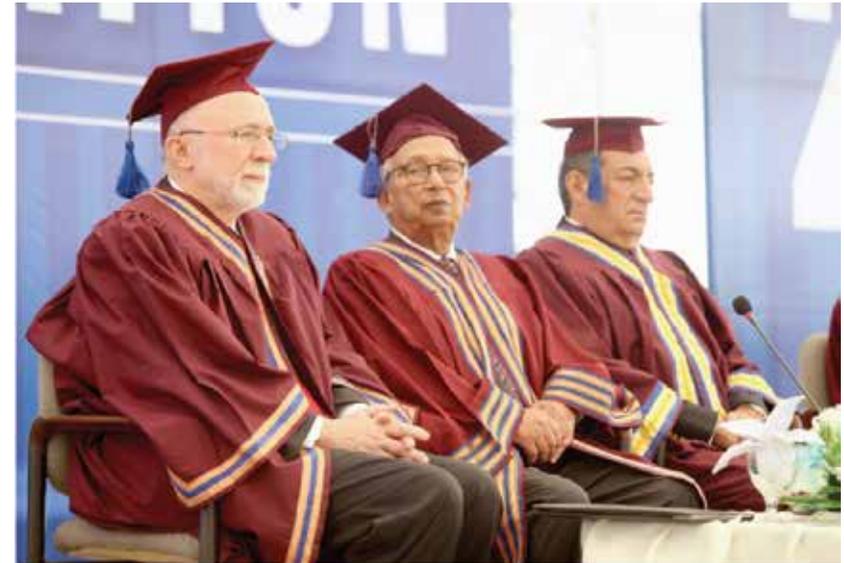
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(APTMA)

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Board of Governors - National Textile Foundation

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Textile Institute of Pakistan

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Dean Academics
PAF-KIET

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Dean Architecture & Management Science
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Mr. Mohammad Nissar Dossa
Chief Executive Officer
Haji Dossa Ltd.

Mr. Asif Inam
Chief Executive Officer,
Diamond International Corporation Ltd.

Mr. M. Sohail Tabba
Chief Executive Officer,
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Mr. Abdul Majeed
Chairman,
National Foods Limited

Chairman – APTMA

Vice Chairman – APTMA
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Vice Chairman – APTMA
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Vice Chairman – APTMA
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Dr. Abdul Jabbar
Dean, TIP

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CEO, Amna Industries

Mr. Imran Ahmed Cheema
Chief Operation Officer (Home Division),
Younus Textile Mills Limited, Industry Representative

Professor Shahana Urooj Kazmi
Vice Chancellor, Women University, Swabi

Dr. Sheraz Hussain
Associate Professor
Department of Textile Engineering
NED-UET, Karachi

Dr. Khalid Pasha
Campus Director
National Textile University, (Karachi Campus)

Dr. Munir Hussain
Assistant Professor, Institute of Business Management

Mr. Umair Saeed
Registrar
Indus Valley School of Art & Architecture, Karachi

Mr. Shamoone Haider
Assistant Professor, Department of Visual Arts
University of Karachi

Dr. Bilal Haleem
Director, Texchemie (Pvt) Ltd

Mr. Nadeem Mazhar
Publisher, Pakistan Textile Journal

Mr. Shujaat Hussain Alavi
TIP- Alumni Representative

Ms. Shaheen Khan
Program Coordinator, Textile Design Technology, TIP

Mr. Gauhar Ajmal
Program Coordinator, Fashion Design Management &
Apparel Manufacturing & Merchandising, TIP

Ms. Amar Ekram
Program Coordinator
Textile Management & Marketing, TIP





Facilities

Campus 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 10,000 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.

The library also has fully-featured library management software KOHA. Which provides a simple and clear interface for library users to perform tasks such as searching for and reserving items and suggesting new items. Books and articles can be searched according to author, title or subject.

TIP has an 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 40 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 designed and sampled digitally. The software also helps to create digital storyboards and interactive presentations for particular products with real time revision abilities. In addition, the CAD lab. also houses the latest Accumark apparel software from Gerber Garment Technology (GGT). This software covers all aspects of apparel including pattern digitizing, pattern and marker making. 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.

Laboratories Complex

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. The Analytical lab. has sophisticated diagnostic instruments such as Abbe Refractometer, UV Visible Spectrophotometer, 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 seven textile laboratories housed in a



purpose built building i.e. Spinning, Fabric Formation, Fabric Analyzing, Wet-Processing, embroidery, Fibre & Yarn Testing and Apparel.

Spinning Laboratory

Short staple spinning lab, has covered area of 10,000 sq.ft and equipped with centrally air-conditioned unit and state-of-the-art LUWA A/C cum humidity control plant.

This laboratory supports the courses of introduction to textile manufacturing, yarn formation, spinning mechanism, quality assurance of Textile and advanced fiber processing courses.

The lab comprises of following advanced staple fiber processing machines.

- The trutzschler blow room with cleanomat system and chute feed
- DK-803 carding machine
- HSR 1000 high performance draw frame
- Chinese roving frame
- EJM-128 Chinese ring spinning frame
- Murata Mach Coner
- Automatic Winder No. 7-V
- Murata two for one twister.0
- Embroidery machine

Students gain the knowledge of important functions of different parts of machines, flow of material, operating mechanisms, calculation of draft, twist, production etc. as required for various practical assignments. Practical knowledge gained in the laboratory gives students hands-on experience required for their professional career.





Fibre and Yarn Testing Laboratory

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

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

Fabric Formation Laboratory

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

- One Shuttle power loom
- One Shuttle-less rapier loom

- One Shuttle-less airjet loom
- One single knit circular knitting machine
- One double knit circular knitting machine
- Six manual "V" flatbed-knitting machines
- Two socks knitting machines

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

- Sixty sample handlooms
- Two production dobby handlooms
- Three production jacquard handlooms





Fabric Analysis Laboratory

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
- Universal Strength Tester (Titan, J.H.H., U.K.), for yarn and fabric Tensile strength, tear strength, etc.

Wet-Processing & Colour Laboratory

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 Table Machine (Zimmer)
- HT Dyeing Machine
- Rotary evaporator (Buchi)
- Tumble Dryer (James H. Real's, U.K.)
- Gyrowash, Wash Fastness Tester (J.H.H., U.K.)
- Wascator (J.H.H.,U.K.)
- Sample Winch Machine

Additional equipment available includes washing machine, colour assessment light box (G. MacBeth), padder, 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 Laboratory

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
- Steam presses
- Marker cutting arrangement



4 Heads Computerized Embroidery Machine

TIP has a state of the art 4 head computerized embroidery machine RENAISSANCE donated by the Rajby Industries for educational purposes. This embroidery machine is computer controlled and specifically engineered for embroidery. This is a combination of industrial and commercial embroidery and sewing-embroidery machine having a hooping or framing system that holds the framed area of fabric taut under the sewing needle and moves it automatically to create a design from a pre-programmed digital embroidery pattern using Wilcom software.



Sewing-embroidery machines generally have only one needle and require the user to change thread colors during the embroidery process, but this multi-needle industrial machine is generally threaded prior to running the design and does not require re-threading. This machine requires the user to input the correct color change sequence before beginning to embroider. Some can trim and change colors automatically. The sampling machine used at TIP is 4 heads, each of which can sew the same design onto a separate garment concurrently. Such a machine commercially used

might have 20 or more heads, each consisting of 15 or more needles. A head is usually capable of producing many special fabric effects, including satin stitch embroidery, chain stitch embroidery, sequins, appliqué, and cutwork.

CAD Laboratory

TIP has highly well-furnished CAD laboratory. It has very updated PC stations with the Latest CAD software. Gerber software is most commonly used in the industry due to its very powerful features in CAD software and has Captured 85% of Pakistan Garment industry. TIP trains the students on latest Gerber software V13 by which digital pattern is designed, modified and graded.

2D Digital Pattern and Grading

Marker making is like an electronic workbench which is used to place and save the fabric for half a century, Gerber Technology has been helping companies around the world to develop, manufacture and take their products to market smarter, faster and more efficiently. Today, the company provides integrated software and hardware solutions to customers in the aerospace, construction, furniture, fashion & apparel, transportation, technical textiles, packaging, wind energy sign & graphics industries, including over 100 Fortune 500 companies in 134 countries.

Drawing on a rich history of innovation, Gerber Technology's leading-edge systems help customers reach their optimum by maximizing productivity and minimizing errors and waste.

Gerber Plotter

It is an output device which is used to plot designs and spread on the layers of fabric so that the fabric is cut accordingly.



Career Guidance, Internship and Placement Office

Textile Institute of Pakistan has a strong record of job placement. An Internship and Placement Office works closely with students to help them prepare for each stage of internship process and offers its services to students, graduates, alumni and the corporate sector with an aim to connect them to a diversified result-oriented talented pipeline.

Close linkages are maintained with CEOs and HRM Departments in organizations so as to provide the best career prospects for graduates. The Institute assists the graduating students in seeking suitable employment or planning to study further.

The Institute has close ties with the local textile industry through its summer internship programme. Career counselling workshops are also organised, 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 over 1200 graduates to date have been successfully placed in leading textile mills, garment factories and buying houses some are pursuing higher studies or engaged in entrepreneurial activities.

A "Graduate Directory" giving the curriculum vitae and photographs of graduating classes is published annually and sent to prospective employers and other professional bodies, such as APTMA, PHMA, TMA, PREGMEA, to ensure widest possible exposure of our graduates in the job market.

On Campus Recruitment Drives

In order to streamline the placement procedure and provide equal opportunities to all students, the internship and placement department develops strong liaison with the corporate sector by signing MoU for internship and job placement, orientation/recruitment sessions and co sponsoring guest lectures, from the industry.



Afshan Khan
Admissions & Job Placement Manager



Job Fairs

The Internship and Placement Department of Textile Institute of Pakistan regularly arranges Job Fairs. The event is a great opportunity for students to network and meet employers from various organizations. In this event, TIP gets positive feedback and cooperation from employers to secure best jobs for its graduating classes, discuss the industrial needs and job requirements and assign counseling desk to the employers where they can advise graduating students.

TIP's close ties with the local textile industry also enable relevant internships for second and third year students.

Many Textile Industries such as Gul Ahmed Textile, Al Karam Textile Mills, J., Almira, Kassim Denim (Pvt) Ltd., Feroze 1888 Mills Ltd., Soorty Enterprises, H&M, Lucky Tex, Sapphire, Artistic Garment Industries, Artistic Milliners, Yunus Textile Mills, Tata Textile Mills, Rajby Industries, Euro Centra, Lucky Knits, Lucky Textiles, Artistic Apparel, Afroze Textile, Nizam Din & Sons, Artistic Apparels, SM Denim Mills, Cambridge Garments, Naveena Export Ltd. and other industries participate in TIP Job Fair every year.

It is also an opportunity for TIP students to establish direct contacts with the employers by submitting their resumes to prospective employers and discussing on a one-to-one basis, the details of their final year projects with experts from the industries.

Since its establishment, TIP has served the needs of industry to a large extent and is gearing up its resources to meet its future requirements. So far, all TIP graduates have been absorbed by the domestic textile industry with the exception of those who have gone abroad in pursuit of higher education.



Textile Design Technology (Degree Show)

A showcase of exhibition of the projects by graduating students of Textile Design Technology Program. The exhibits were the outcome of their final year research assignments which is a requirement for awarding a degree. The projects covered diversified area of local and international apparel trends, fashion accessories and home textiles using various textile techniques such as weave, print, Knit and design interventions.



The First International Conference The Textile Colloquium

The Textile Colloquium was organized by Textile Institute of Pakistan (TIP) on 13th



and 14th May 2018 at Pearl Continental Hotel Karachi. In this two day international conference, a number of textile-related industries from all over Pakistan participated with an even greater number of students from different textile universities and also professionals from the textile mills. Some foreign delegations also visited for this international event.

The conference attracted professionals from the textile industry and other related trades, academia and businessmen from the relevant sector, were the main attendees.

The two-day event was inaugurated by Mr. Abdul Majeed, Chancellor Textile Institute of Pakistan. In his address, he expressed his appreciation to the team of TIP and also lauded the efforts of the students.

He also appreciated the cooperation of sponsors. While talking about the history

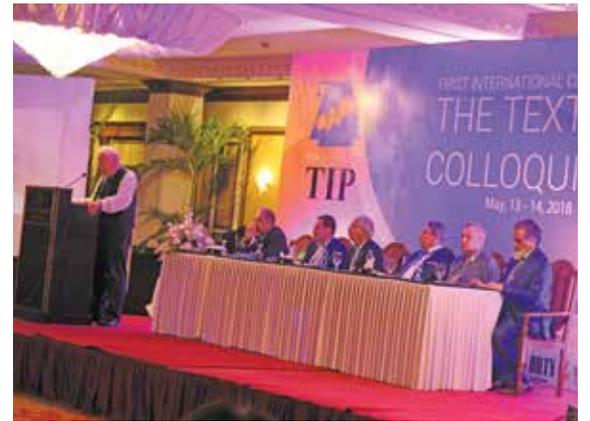


of TIP, Mr. Majeed said that the need for establishing TIP was keeping in mind the requirements of the textile industry, which is the largest industrial sector of Pakistan. The country's textile sector not only generates the country's highest export earnings of about 45% it also provides the bulk of employment (39%). The President of Textile Institute of Pakistan, Mr. Hu-

mayun Zafar gave the welcome address. He first introduced TIP with its aims and objectives and then highlighted the importance of conferences and exhibitions for the economic progress of any country. He said that TIP, an internationally recognized educational institute is providing an open, free and challenging environment for research based learning, in order to develop right kind of skill set and human

resources, with creative and well rounded personalities. Michael Hann, Chair of Design Theory University of Leeds and Director of ULITA addressed the gathering. He first thanked the management of TIP for organizing such fruitful event for the textile industry of Pakistan in general and for the students of textile universities in particular. He further said that it is the best learning opportunity, where all the professionals, industrialist, researchers, people belonging to academia and students had the opportunity to share one platform. He also shared his past experiences of visiting Pakistan in early 1980s and compared the industrial technologies and innovations of that time with the present era.

Dr. Abdul Jabbar, Dean of TIP gave the vote of thanks. He also greeted all the guests, participants, friends from press and media and other exhibitors who attended the inaugural session. He also appreciated the students and faculty members of TIP for their presence at the conference.



Artist Talks And Workshops

A Workshop And Talk By Michael Hann

Introduction:

Professor Michael Hann holds the chair of Design Theory at the university of Leeds and is Director of ULITA—An archive of International Textile. He is widely regarded an authority on the geometry of two dimensional design (especially regularly repeating patterns) and has advanced expertise in textile processing. He has delivered numerous keynote addresses at conferences worldwide, and has held honorary professorships at institutions in Belgium, Hong Kong, Korea, China and Taiwan.

Workshop and Talk:

Structure and Form in Design - A workshop presented by Professor M. A. Hann, which consisted of:

Lecture 1 (Introduction): Universal Principles Governing Structure, Form and Performance in the Visual Arts and Design.

Lecture 2: Fundamental Issues and Constructions.

Lecture 3: Tilings and Tessellations.

Lecture 4: Symmetry in Patterns.

The workshop ended in a discussion with design faculty and students. This was based on assignment responses based on recent workshops presented at Asia University (Taichung, Taiwan) and Donghua University (Shanghai, China).

An Artist's Talk And Workshop With Sumaira Tazeen

Sumaira Tazeen is a Canadian visual artist, educator and curator of Pakistani origin. She received her BFA in Miniature painting and Sculpture from the National College of Arts, Lahore in 1996. Since then, her work has been exhibited in established group and solo exhibitions across South Asia, the United States, Canada, Europe and the Middle East, and has been presented to such influential figures as Queen Elizabeth II and Princess Rania of Jordan. Tazeen is the recipient of a number of awards including the Haji Muhammad Sharif Award for Miniature Painting (1996), the Charles Wallace Trust Fellowship (2004), the Department for International Development Scholarship Award (2003- 2004) and Ontario Arts Council's grant for Emerging Artists (2014 and 2016).

Sumaira is always remembered as the founding faculty member of department of Textile design technology at TIP. She was a lecturer (2000 - 2005) and Program Coordinator (2001-2002) for Department of TDT at Textile institute of Pakistan. Later she served as Associated Professor at the Department of Miniature Painting, Faculty of Fine Art at Indus Valley School of Art and Architecture Karachi (2005 - 2012).

Sumaira is continuing her practice in Canada and showing in prestigious public art galleries like Art Gallery of Mississauga. She has curated a show at Royal Ontario Museum on South Asian heritage day (2013) and conducted gilding workshop at Agha Khan Museum, Toronto (2015). Her work is part of International public and private art collections. She has been selected by the City of Kitchener, Ontario as an Artist in resident for the year 2018.



Visitor Gallery



Mr. Brian Heath, the Consul General of USA paid a visit to TIP Main Campus, along with Sean Robinson, Economic Officer and Mark Kendrick, Public Affairs Officer

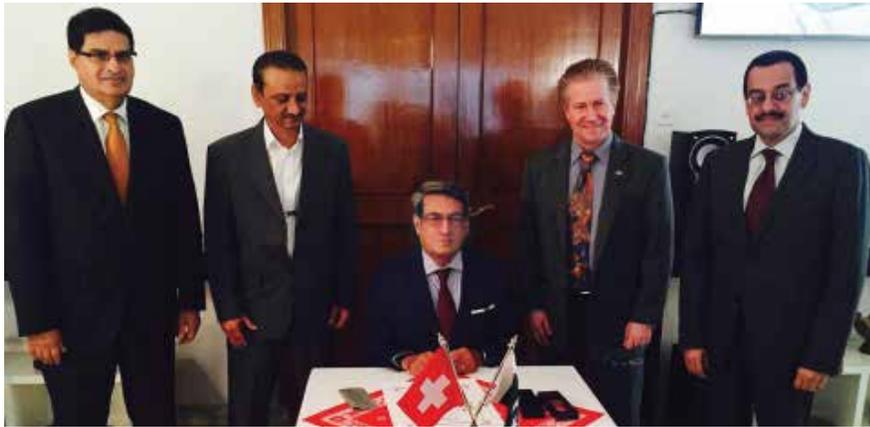


Ms. Raffaella Carabelli, President, Association of Italian Textile Machinery Manufacturers (ACIMIT) paid a visit to Textile Institute of Pakistan and affirmed the management that she will earnestly endeavor to further improve the Institute's educational requirements such as textile machinery and laboratory equipment in particular.



Mr. Franz Nienhaus, paid a visit to TIP to discuss the Machinery Seminar for German Manufacturers, he is an advisor to the Board of Governors for German Pakistan Chamber of Commerce and Industry. Mr. Humayun Zafar, President and the Dean, Dr. Abdul Jabbar showed Mr. Nienhaus, the campus and other facilities at the Institute.

Global Linkages



Textile Institute of Pakistan (TIP) and Swiss Textile School (STF) - Zürich, signed a Memorandum of Understanding (MoU) at a ceremony organized at the Consulate General of Switzerland in Karachi.



Mr. Humayun Zafar, President TIP and Mr. Nissar Dossa, Treasurer National Textile Foundation met with Ms. Anna Ruffino, Council General of Italy and discussed the possibilities of undertaking joint educational projects and textile training with its local stakeholder for the mutual benefit of students, employers and the textile industry.



Facilitation by TDAP and the Pakistan Mission in France eventually resulted in the signing of a Memorandum of Understanding between a French fashion school, Albert de Mun, Paris and Textile Institute of Pakistan. A formal ceremony to mark this important accord was held at the premises of Albert de Mun in Paris. Which was attended by the Pakistani Ambassador & high ranking Pakistani diplomats.



Mr. Humayun Zafar, President TIP had a meeting with Ms. JoAnne Wegnar, The American Consul General to explore the possibilities of TIP students applying for scholarships either partly or fully funded in various universities across USA.

MOU signed between TIP & SM Denim Mills



A high level team consisting of Mr. Asif Merchant, CEO Denim Division & Syed A. Kazmi, G.M. Marketing visited TIP main campus 29th of March 2021 to discuss the following:

- To Sign an MOU with TIP, to promote the best practices of S.M. Denim amongst the students & Alumni body of Textile Institute of Pakistan.
- To use facilities of the Institute for product development and research of S.M. Denim.
- To train quality human resources at TIP as per the requirement of the Textile Industry.
- To upgrade current understanding, skills and knowledge of aspiring professionals with the experience of senior practitioners from S.M. Denim.
- To bridge the gap between the seasoned professionals and young aspiring students/Graduates.



International Study Trips

Europe Trip

One of the many benefits of providing the students with the international exposure is that it helps to enhance and broaden the vision of students. Learning from international visits and attending international workshops/ seminars enables students to experience and understand global scenario from a different cultural perspective.

TIP faculty and 32 students visited Heimtextil in 2017 & 2019, which is the largest Home Textile exhibition, held every year in Frankfurt, Germany. It was a good experience as the students got international exposure which is good for career development. Some of them were offered internships and jobs and appreciation from exhibitors. It is important for educational institutions to provide their students with ample opportunities to learn and understand the global techniques with respect to their field and equip them with the traits required for working in a global environment. Cross-Cultural references and global perspective allows students to have a pragmatic view of the business setting and practices in various countries. The exposure gained from these study trips will benefit the students in their personal as well as professional life.

The importance of educational tour for university students can be better understood by the fact that it helps break the monotony of academic life. In addition to this, it also helps teachers meet certain objectives of the curriculum by designing tours suitable with specific requirements, and finally it gives an international exposure to the graduating students.

Swiss Textile And Fashion School (Stf) Zurich

The STF is an internationally recognised training institution in the disciplines of textiles, fashion, and management. Within Switzerland, it is a one-of-kind center of competence and represents trusted training facility in all matters concerning the life-cycle of textiles, fashion, and lifestyle products – Since 1881. They are a responsible partner and a dynamic centre of the textile network.

TIP faculty and students had a chance to visit this renowned Institute which broadened the vision of students and showed them a chance to study abroad being the ambassadors of Pakistan. TIP has developed an academic collaboration with STF to facilitate faculty and student exchange programs.



Turkey Trip

TIP faculty and 17 students visited Turkey. The objectives of the Study Tour were two fold. The first and foremost was to give our students an insight of the work and research being conducted there. It supplemented the various theories acquired in the classroom for a simultaneous understanding and application. The second was to appreciate the historical and cultural development of the Ottoman Empire and eventual transformation into a republic and democracy. The trip lasted for 11 days and included destinations such as Cappadocia, Pamukalle, Bursa, Izmir, Qusadasi, Esphesus and Istanbul.

The tour involved three distinct components:

Meetings (15 & 18 Jan, 19) with the Dean and Faculty Members at University of Economics, Izmir and Istanbul Technical University, Istanbul, to discuss collaborative research opportunities, students/faculty exchange programs, workshops and trainings. The students were also given a detailed tour of the campus and interactive sessions were conducted at the end of each visit.

Attendance at the Turkey Lifestyle 2019 Exhibition at Istanbul Congress Centre, a three day event on "Modest Fashion". This included keynote contributions from speakers with international reputations.

Apart from the educational visits, the students were also given a tour of the historical landmarks including the awe inspiring Fairy Chimnies, Hierapolis, Thermal Pools, Blue Mosque, Hagia Sophia Museum, Topkapi Palace, Hippodrome, Grand Bazaar, Pierre Loti Hill and many more historical places in each city. These visits familiarized the students with the rich Ottoman history and diverse culture and proved to be an eye opener of breathtaking architecture.

The Study Tour contributed to and enhanced our understanding of Turkey, a nation at the crossroads of Europe and Asia.

This trip was a once in a lifetime opportunity for all the members of the group and would always be cherished. It will surely play a vital role in having an edge in all of TIP's future endeavours



Student Activities

Students are required to participate as much as possible with faculty and staff in academic matters and co-curricular activities. Students are encouraged to become members of societies functioning at TIP including, Sports, Art, Religious, Music, Drama, Literary, Marketing and Entrepreneurship, TIP Speaks, Paintoos society.

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 the forum 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 a 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, guest speaker sessions 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 relief in the form of meaningful outdoor activities.



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 do in their own homes. A medical/retiring room is also available at the campus.

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

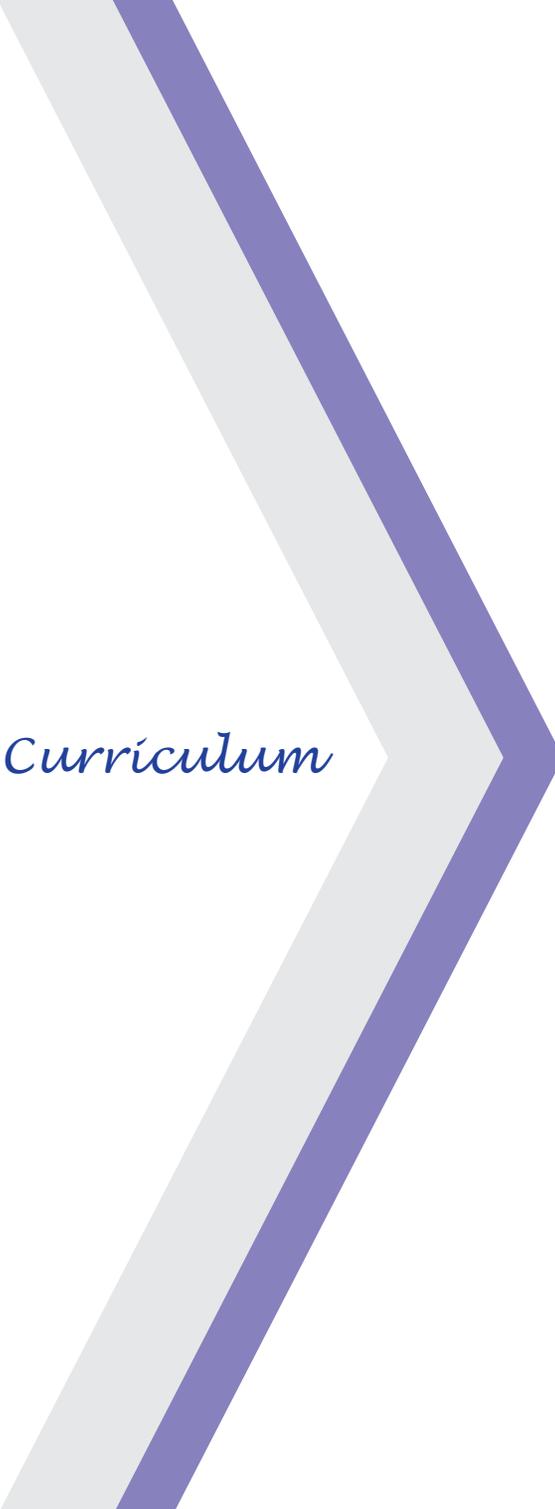
Transport

The Institute arranges transportation for all its students who wish to reside at home and travel daily for classes. Transportation fee is charged for the entire semester at the time of registration. TIP has its exclusive fleet of contracted 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.





Programs and Curriculum

BS in Textile Science (TS)

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		
Course Code	Course Title	Credit Hour
COMP-101	Computer Concepts	3
ENGL-101	English Language Basics	3
TXCH-102	General Chemistry	4
MATH-101	Mathematics I	3
TEXT-175	Introduction to Textile Manufacturing	3
		16

2nd Semester		
Course Code	Course Title	Credit Hour
RELG-100/200	Religion	2
TXCH-104	Organic Chemistry	4
COMP-102	Computer Applications	3
ENGL-102	English Composition	3
MATH-102	Mathematics II	3
TEXT-176	Natural & Manmade Fibres	3
		18

3rd Semester		
Course Code	Course Title	Credit Hour
ENGL-201	Oral Communication	2
MGMT-201	Principles of Management	3
PHYS-201	Conceptual Physics	4
TEXT-201	Yarn Formation	3
MTSC-215	Polymer Science	4
PKST-100/200	Pakistan Studies	2
		18

4th Semester		
Course Code	Course Title	Credit Hour
ECON-201	Business Economics	3
MATH-202	Business Maths & Statistics	3
TEXT-202	Fabric Technology	3
TEXT-220	Textile Testing	2
MGMT-250	Business Communication	3
TXCH-250	Textile Pre-treatment & Machinery	4
		18

5th Semester		
Course Code	Course Title	Credit Hour
MRKT-301	Principles of Marketing	3
TEXT-301	Spinning Mechanisms	3
TXCH-304	Dyeing I	4
TEXT-312	Weaving Mechanisms	3
MGMT-390	Production & Operations Management	3
		16

6th Semester		
Course Code	Course Title	Credit Hour
MGMT-301	Research Methodology	3
TEXT-302	Knitting Technology	3
TXCH-303	High Performance & Smart Textiles	3
TEXT-312	Introduction to Weave Design	3
TXCH-316	Dyeing II	4
		16

7th Semester		
Course Code	Course Title	Credit Hour
ENVT-401	Environmental Management	3
TXCH-457	Textile Printing & Coating	4
TEXT-428	Textile Research Project	3
	Elective I	3
	Elective II	3
		16

8th Semester		
Course Code	Course Title	Credit Hour
TEXT-422	Fiber Science	4
TXCH-458	Textile Finishing	4
TEXT-428	Textile Research Project	3
	Elective III	3
	Elective IV	3
		17

Elective Course in 7th Semester		
Course Code	Course Title	Credit Hour
APRL-401	Apparel Manufacturing	3
TEXT-403	Advanced Fibre Processing	3
TEXT-411	Advanced Woven Fabric Structure & Design	3

Elective Course in 8th Semester		
Course Code	Course Title	Credit Hour
MRKT-401	Export Marketing	3
TEXT-405	Textile Merchandizing	3
TEXT-471	Plant Layout & Design	3

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 is assigned to oversee the research project who reviews the written document periodically. The final report is evaluated by some external examiner who is an expert in the relevant area.

BS in Textile Design Technology (TDT)

BS 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 program. 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		
Course Code	Course Title	Credit Hour
PKST-100/200	Pakistan Studies	2
ENGL-103	English Language & Composition	2
TEXT-175	Intro to Textiles Manufacturing	3
TXDG-101	Art Appreciation	1
TXDG-102	Basic Drafting	3
TXDG-110	Basic Drawing I	3
TXDG-150	Basic Design-I	3
Total Credit Hours		17

3rd Semester		
Course Code	Course Title	Credit Hour
TXDG-201	Art History-I	1
TXDG-204	Interior Design & Decoration	3
TXDG-205	Fashion History & Theory	3
CADN-201	Computer Aided Design-I	2
TXDG-210	Weave Design-I	3
TXDG-200	Print Design-I	3
TXDG-220	Drawing Project	2
Total Credit Hours		17

2nd Semester		
Course Code	Course Title	Credit Hour
RELG-100/200	Religion	2
ENGL-104	Oral Communication	2
TEXT-130	Textile Technology	3
TXDG-103	Design History & Theory	1
TXDG-104	Digital Communication	3
TXDG-120	Basic Drawing II	3
TXDG-160	Basic Design II	3
Total Credit Hours		17

4th Semester		
Course Code	Course Title	Credit Hour
TXDG-202	Art History-II	2
MGMT-250	Business Communication	3
TXDG-209	Product Development	3
CADN-202	Computer Aided Design II	2
TXDG-211	Weave Design-II	3
TXDG-260	Print Design-II	3
	Elective	2
Total Credit Hours		18

Studio Elective Course in 4th Semester		
Course Code	Course Title	Credit Hour
TXDG-230	Creative Drawing	2
TXDG-240	Painting	2
TXDG-250	Fashion Illustration	2



The program, Textile Design Technology, essentially explores the three main textile design practices – print, weave and knit– alongside digital and non-traditional approaches to textile design, Heimtextil trend project and presentation. It also offers courses in alternative surface treatments, craft and industrial practices with a necessary tinge of technology. The basic knowledge of yarn and fabric manufacturing plus the well equipped laboratory. procedures gives an edge to the design students over their competitors in the industry.

Shaheen Khan
Program Coordinator
BS Textile Design Technology

5th Semester		
Course Code	Course Title	Credit Hour
TXDG-303	Textile History	2
TXCH-350/450	Wet Processing & Washing	4
CADN-313	Knit Design Technology	3
TXDG-300	Design Project I	6
TXDG-304	Textile Embellishment	3
Total Credit Hours		18

6th Semester		
Course Code	Course Title	Credit Hour
TXDG-328	Research Methodology	3
TXCH-356	Textile Printing & Coating	3
CADN-312	Advance Weave	2
TXDG-330	Design Project II	6
TXDG-302	Design Techniques(Workshops)	3
Total Credit Hours		17

7th Semester		
Course Code	Course Title	Credit Hour
TXDG-400	Design Research Project	6
TXDG-428	Dissertation(Eng-IV)	3
MGMT-414	Marketing Management	3
MATH-401	Textile Calculations	3
Total Credit Hours		15

8th Semester		
Course Code	Course Title	Credit Hour
TXDG-400	Design Research Project	10
TXDG-428	Dissertation	2
MGMT-415	Entrepreneurship	3
Total Credit Hours		15

Total Credit Hours		134
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BBA in Textile Management and Marketing (TMM)

The ability to fully comprehend global marketing challenges, and develop and implement plans and strategies for capturing local and international markets, are essential for keeping abreast with regional and international competition. Thorough knowledge of international markets, customer needs, developing timely products with cost efficiently forms the basis for continued growth and progress of an organization.

The purpose of the programme is to meet the growing requirements of increasing market share in existing markets and capturing new markets in a highly competitive environment. Providing professionally trained and groomed managers with the capability to research new markets, identify new clients in current markets, make inroads in new markets, and develop customer need based products for achieving organization's growth and profit objectives, are the major focus of the programme.

This programme has a unique blend of courses in business management, textile processes, material and equipment therefore more relevant to textiles and related organizations.

1st Semester		
Course Code	Course Title	Credit Hour
ACCT-101	Principles of Accounting - I	3
COMP-101	Computer Concepts	3
ENGL-101	English Language Basics	3
MATH-101	Mathematics I	3
TEXT-175	Introduction to Textile Manufacturing	3
PKST-100/200	Pakistan Studies	2
		17

2nd Semester		
Course Code	Course Title	Credit Hour
ACCT-102	Principles of Accounting II	3
COMP-102	Computer Applications	3
ENGL-102	English Composition	3
MATH-120	Maths & Statistics for Business	3
TEXT-176	Natural & Manmade Fibres	3
RELG-100/200	Religion	2
		17

3rd Semester		
Course Code	Course Title	Credit Hour
COMP-201	Internet & eCommerce	3
ENGL-201	Oral Communication	2
MGMT-201	Principles of Management	3
TEXT-201	Yarn Formation	3
ACCT-207	Cost Accounting	3
ECON-211	Micro Economics	3
		17

4th Semester		
Course Code	Course Title	Credit Hour
FNCE-201	Business Finance	3
TEXT-202	Fabric Technology	3
LAWS-204	Business Law	2
ECON-212	Macro Economics	3
TEXT-220	Textile Testing	2
MGMT-250	Business Communication	3
		16



Functioning under the Faculty of Textile, the Textile Management and Marketing (TMM) Program is focused on preparing creative, result-orientated professionals who are equipped with in-depth knowledge to cater the needs of the global economy at all times. The program is designed in a way that it provides fundamental knowledge and skills required in the field of management as well as provides comprehensive learning about textile processes, material and equipments and is therefore more relevant to textiles and related opportunities.

Unlike a general BBA Program, BBA in Textile Management and Marketing with its unique blend of courses produces multi-dimensional and qualified professionals.

Our success is evident from our high points such as highly professional, foreign qualified and experienced faculty, research oriented and successful alumni serving the leading organizations nation and world wide.

The close ties of the program with the textile business community, the opportunities for internships and international trips enhance graduates' competitive advantage in the local job market.

Amar Ekram
Program Coordinator

5th Semester		
Course Code	Course Title	Credit Hour
ENVT-301	Environmental Management	3
MRKT-301	Principles of Marketing	3
STAT-306	Statistical Inference	3
ECON-312	International Trade & Finance	3
TXCH-350	Introduction to Wet Processing & Washing	4
MGMT-390	Production & Operations Management	3
		19

6th Semester		
Course Code	Course Title	Credit Hour
MGMT-301	Research Methodology	3
MGMT-302	Organizational Behaviour	3
TEXT-303	High Performance & Smart Textiles	3
MGMT-309	Product Development	3
TEXT-313	Introduction to Weave Designs	3
MGMT-314	Marketing Management	3
		18

7th Semester		
Course Code	Course Title	Credit Hour
APRL-401	Apparel Manufacturing	3
MGMT-407	Human Resource Management	3
MRKT-411	Personal Selling	3
MGMT-412	Supply Chain Management	3
MGMT-428	Management Research Project	3
		15

8th Semester		
Course Code	Course Title	Credit Hour
MRKT-401	Export Marketing	3
MGMT-403	Retail Management	3
TEXT-405	Textile Merchandizing	3
MGMT-413	Strategic Management	3
MGMT-428	Management Research Project	3
		15

BBA in Apparel Manufacturing & Merchandizing (AMM)

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 multi 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		
Course Code	Course Title	Credit Hour
ACCT-101	Principles of Accounting - I	3
COMP-101	Computer Concepts	3
ENGL-101	English Language Basics	3
MATH-101	Mathematics I	3
TEXT-175	Introduction to Textile Manufacturing	3
		15

2nd Semester		
Course Code	Course Title	Credit Hour
APRL-101	Introduction to Fashion Design	3
ACCT-101	Principles of Accounting II	3
COMP-102	Computer Applications	3
ENGL-102	English Composition	3
MATH-120	Maths & Statistics for Business	3
TEXT-176	Natural & Manmade Fibres	3
		18

3rd Semester		
Course Code	Course Title	Credit Hour
APRL-201	Pattern Construction	3
ECON-201	Business Economics	3
ENGL-201	Oral Communication	2
MGMT-201	Principles of Management	3
TEXT-201	Yarn Formation	3
ACCT-207	Cost Accounting	3
		17

4th Semester		
Course Code	Course Title	Credit Hour
APRL-202	Garment Technology I	3
TEXT-202	Fabric Technology	3
LAWS-204	Business Law	2
APRL-206	Apparel Pre-Production	3
TEXT-220	Textile Testing	3
MGMT-250	Business Communication	3
		17



Apparel Manufacturing & Merchandising is a methodical approach to evaluating customer demands in highly competitive markets. This program equips the students with the skills required to manage business in the fashion industry along with the knowledge of technical skills to evaluate and ensure the good quality in the clothing industry, developing an excellent business acumen to run a company successfully, with sustainable results.

Gohar Ajmal
Program Coordinator
BBA Apparel Manufacturing & Merchandizing

5th Semester		
Course Code	Course Title	Credit Hour
ENVT-301	Environmental Management	3
MRKT-301	Principles of Marketing	3
APRL-302	Garment Technology II	3
TXCH-350	Introduction to Wet Processing & Washing	4
MGMT-390	Production & Operations Management	3
		16

6th Semester		
Course Code	Course Title	Credit Hour
MGMT-301	Research Methodology	3
MGMT-302	Organizational Behaviour	3
CADN-303	CAD/CAM for Textile & Apparel	3
TEXT-303	High Performance & Smart Textiles	3
APRL-308	Apparel Quality Control	3
APRL-309	Product Development	3
		18

7th Semester		
Course Code	Course Title	Credit Hour
MGMT-407	Human Resource Management	3
MRKT-411	Personal Selling	3
MGMT-412	Supply Chain Management	3
APRL-419	Apparel Production Management	3
APRL-428	Apparel Research Project	3
PKST-100/200	Pakistan Studies	2
		17

8th Semester		
Course Code	Course Title	Credit Hour
MRKT-401	Export Marketing	3
MGMT-413	Strategic Management	3
MGMT-403	Retail Management	3
TEXT-405	Textile Merchandising	3
APRL-428	Apparel Research Project	3
RELG-100/200	Religion	2
		17

BBA in Fashion Design Management (FDM)

BBA in Fashion Design Management at Textiles Institute of Pakistan is a well rounded program to achieve a comprehensive degree in both fashion and business together; it's a smart way to understand the business side of fashion industry. This degree encompasses the skills required to get an in depth study of fashion, enabling student to start their own business or work for a big brand.

Fashion industry relies on the creative people but for managing and flourishing the business side administrative skills are taught in this degree. The key areas of focus are Trend forecasting, Design Management, Garment construction, Draping, Marketing, Supply Chain, Costing, Textiles technology, and Sustainability.

Attracting global buyers by displaying a complete design solution and value added garments are the need of current fashion and apparel industry.

1st Semester		
Course Code	Course Title	Credit Hour
ACCT-101	Principles of Accounting - I	3
ENGL-101	English Language Basics	3
MATH-101	Mathematics I	3
FASH-110	Drawing I	4
FASH-150	Basic Design	4
		17

2nd Semester		
Course Code	Course Title	Credit Hour
FASH-101	Introduction to Fashion Design	3
ACCT-101	Principles of Accounting II	3
ENGL-102	English Composition	3
FASH-120	Drawing II	4
MATH-120	Maths & Statistics for Business	3
		16

3rd Semester		
Course Code	Course Title	Credit Hour
COMP-200	Computer for Designers	3
FASH-201	Pattern Construction	3
ECON-201	Business Economics	3
MGMT-201	Principles of Management	3
FASH-203	Fashion Illustration I	3
TEXT-175/275	Introduction to Textile Manufacturing	3
		18

4th Semester		
Course Code	Course Title	Credit Hour
FASH-202	Garment Technology I	3
FASH-204	Fashion Illustration II	3
LAWS-204	Business Law	2
FASH-205	History of Arts	3
TEXT-230	Textile Technology	3
MGMT-250	Business Communication	3
		17



Fashion design management program develops the skills for achieving a good eye for fashion related products especially the construction of a garment both technically and aesthetically. Innovation is a key to creativity, this course is designed to balance the creative and management skills, enabling an innovative mind to analyze situations through critical thinking and clear management decision.

Gohar Ajmal
Program Coordinator
BBA Fashion Design Management

5th Semester		
Course Code	Course Title	Credit Hour
FASH-301	Design Realization I	3
MRKT-301	Principles of Marketing	3
FASH-302	Draping	3
FASH-303	History of Fashion & Costumes	3
CADN-304	CAD for Fashion	3
FASH-321	Fashion Photography	1
		16

6th Semester		
Course Code	Course Title	Credit Hour
MGMT-301	Research Methodology	3
MGMT-302	Organizational Behaviour	3
MRKT-302	Fashion Marketing	3
FASH-304	Design Realization II	3
FASH-308	Apparel Quality Control	3
FASH-309	Product Development	3
		18

7th Semester		
Course Code	Course Title	Credit Hour
FASH-401	Embellishment	3
CADN-407	CAD for Designer (Gerber)	2
FASH-402	Visual Merchandising	3
MGMT-407	Human Resource Management	3
FASH-428	Fashion Research Project	3
PKST-100/200	Pakistan Studies	2
		16

8th Semester		
Course Code	Course Title	Credit Hour
MRKT-401	Export Marketing	3
MGMT-413	Strategic Management	3
MGMT-403	Retail Management	3
TEXT-405	Textile Merchandising	3
FASH-428	Fashion Research Project	3
RELG-100/200	Religion	2
		17

BS in Industrial Manufacturing & Management (IMM)

This program will enable the graduates to acquire skills, knowledge and hands-on experience with a sound management base. It will improve their technical and managerial capabilities and expand their career opportunities for management positions. The key components of this degree program include, Industrial Manufacturing & Management Concepts, Production & Operations Management, Manufacturing Supervision, Maintenance Management, Product Development, Engineering Drawing, Environmental Sciences, Strategic Supply Chain Management, Plant Layout Design & Material Management, Industrial Chemistry & Introduction to MIS, Human Resource Management and Condition monitoring. This program would prepare the graduate to serve in the manufacturing concern as Compliance Manager, Inspection Manager, Production Planner, Quality Manager, Manufacturing Manager and many more.

1st Semester		
Course Code	Course Title	Credit Hour
COMP-101	Computer Concepts	3
ENGL-101	English Language Basics	3
CHEM-101	Industrial Chemistry	4
MATH-101	Mathematics I	3
IMMT-101	Intro to Industrial Manufacturing & Management	3
		16

2nd Semester		
Course Code	Course Title	Credit Hour
RELG-100/200	Religion	2
PHYS-103	Physics I	4
COMP-102	Computer Applications	3
ENGL-102	English Composition	3
MATH-106	Differential Equations	3
IMMT- 102	Engineering Drawing	3
		18

3rd Semester		
Course Code	Course Title	Credit Hour
ECON-201	Business Economics	3
ENGL-201	Oral Communication	2
MGMT-201	Principles of Management	3
PHYS-203	Physics II	4
MTSC-201	Industrial Polymers	4
PKST-100/200	Pakistan Studies	2
		18

4th Semester		
Course Code	Course Title	Credit Hour
MATH-202	Business Maths & Statistics	3
IMMT- 202	Total Quality Management (TQM)	3
MGMT-202	Fundamentals of Supply Chain Management	2
MGMT-250	Business Communication	3
COMP-203	Introduction to ERP	3
		15

5th Semester		
Course Code	Course Title	Credit Hour
STAT-306	Statistical Inference	3
MGMT-303	Product Management	3
OHSA-302	Ergonomics	3
IMMT-302	Innovation & Technology	3
MGMT-390	Production & Operations Management	3
COMP-305	CAD/CAM Application	3
		18

6th Semester		
Course Code	Course Title	Credit Hour
MGMT-301	Research Methodology	3
MGMT-302	Organizational Behaviour	3
IMMT-309	Product Development	3
IMMT-303	Maintenance Management	3
IMMT-304	Materials Management	3
ENVT-303	Environmental Science	3
		18

7th Semester		
Course Code	Course Title	Credit Hour
OHSA-401	HSE/OSHAS	3
MGMT-411	Strategic Supply Chain Management	3
MGMT-407	Human Resource Management	3
IMMT-402	Condition Monitoring	3
IMMT-428	Research Project	3
		15

8th Semester		
Course Code	Course Title	Credit Hour
IMMT-403	Plant layout and Design/ Facility Planning	3
IMMT-404	Manufacturing Engineering	3
IMMT-428	Research Project	3
	Elective-I	3
	Elective-II	3
		15

Elective courses of 8th semester		
Course Code	Course Title	Credit Hour
IMMT-405	Operations Research	3
COMP-406	Data mining and Analysis	3
IMMT-407	Stochastic Control	3
IMMT-402	Condition Monitoring	3
IMMT-409	Entrepreneurship	3
		15

Degree Requirements

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

- Minimum passed credit hours of 134
- 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.

Quality Enhancing Cell (QEC)

Quality Enhancement Cell (QEC) implements internal quality assurance (IQA) mechanism of the institute. The QEC attempts to survey all aspects of institutional functioning, with the goal of bringing these at par with set standards. On a broader level, TIP seeks to help Pakistan move towards becoming a more active player in the knowledge-based, global economy in the textile field. The establishment of the QEC has been one of the vital steps taken to ensure that we are moving in the right direction.





Faculty



Permanent Faculty

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Ph.D., Textile Chemistry
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Dr. Hafiz-ur-Rehman

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MS. Applied Linguistics, NED, Pakistan
M.A. English Linguistics, University of Karachi, Pakistan
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M.Sc. Mathematics, Federal Urdu University of Science
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Marshall University, USA

Adnan Mehmood

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MBA, Marketing & Supply Chain Management,
SZABIST, Pakistan

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Syed Muhammad Samnan Qamar

MBA, Marketing, SZABIST, Karachi, Pakistan
BCS, MIDasia Institute of Science and Technology,
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Tahir Hafeez

BSc (Hons), Textile Science,
Textile Institute of Pakistan

Taimur Suri

M.Phil. in International Relations,
University of Karachi, Pakistan,
Masters in International Relations,
University of Karachi, Pakistan



Course Descriptions

Science

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.

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 prerequisite 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.

TXCH-101 Credit Hours: 4 **General Chemistry**

This is an over view of the basic principles of chemistry covering atomic and molecular structures, acids - bases and electrolytes, measurement and calculations, thermodynamics, solutions and phase equilibrium, chemical reactions and reaction kinetics, behavior of common class of chemicals/auxiliaries used in textile.

TXCH-102 Credit Hours: 4 **General Chemistry**

This course introduces the fundamental principles of organic



“ Employer’s Corner

Altaf Gul Muhammad Director, Yunus Textile Mills

Textile Education in various disciplines is still as important for the country as it was earlier. Dependency of the economy on textiles makes it extremely desirable to have smart intelligent human resources who can utilize their education and acumen to benefit the textile industry and make it world class.

TIP, being a leading textile education institution in Karachi, has been playing a very important role in bringing out useful human resources who have, over the years, played vital leadership roles both in technical and management portfolios in various textile manufacturing organizations. I personally believe that TIP has the ability to provide what industry needs .

chemistry necessary to understand the properties of various fibers (natural and man-made), auxiliaries, dye stuff and finishes used in textile processing.

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.

MTSC-215 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.

PHYS-201 Credit Hours: 3
Conceptual Physics

This course provides the students the basic knowledge of fundamental principles of physics applicable to textile manufacturing. It includes the fundamental and derived

units of measurement, precision of measurement, motion, force, work & energy, fluids and fluid dynamics, optics, light, its color composition and measurement, appearance of color on objects, measurement of color composition of textile fabric.

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-301/401 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.



“ Employer’s 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 TIP 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.

Textiles

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.

TEXT-220 Credit Hours: 3 **Textile Testing and Compliance**

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 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 Pretreatment and Machinery

This course encompasses the textile pre-treatment application covering desizing, scouring, bleaching and mercerization processes. Moreover it covers the machinery which is used in textile wet processing.

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



“ Employer’s Corner

Aurangzeb Ahmed Khan Group Head HR - SiddiqSons

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.

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 and Smart Textiles

This course is one of its kind prepared to provide up to date knowledge on the recent developments and ongoing research in the field of material sciences and their application in product development and product innovation in Textiles.

TXCH-304 Credit Hours: 4

Dyeing I

This course introduces textile dyes and their application covering fundamental principles of dyeing process like dye sorption, diffusion, dye-fibre bond, thermodynamics and rate of dyeing in heterogeneous systems. Moreover it covers structure, properties and dyeing process of direct, reactive, vat and sulfur 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

Dyeing II

This course covers the structure, properties and dyeing process of disperse, acid and



cationic dyes. Furthermore it introduces the dyeing of blends of fibers, dynamic completion between dyes and fibers, incompatibility issues and differential dyeing of fiber variants.

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.

TEXT-411 Credit Hours: 3

Advanced Woven Fabric Structure & Design

This course is the continuation of the course TEXT-313 (introduction to weave designs). More advanced woven fabric structures as well as special form of woven fabric like terry, velvets, carpets, velveteens, multi-ply cloths, etc. are covered. This course also emphasises on woven cloth geometry and geometrical calculations of important woven fabric parameters for different weaves.

TEXT-421 Credit Hours: 3
Advanced Fibre Science

The course aims at providing students with objective information regarding physical and chemical structures and properties of fibre-forming polymeric materials. Course content will cover the structure and properties of commonly used textile fibres and their relationship with the structure and properties of yarns and fabrics produced. The course will also encompass the latest developments in fibre science to accommodate the requirement of the end users.

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 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.

TXCH-458 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.



Textile Design

Art Appreciation

In Art appreciation we aim to figure out how to understand workmanship by moving toward it from a wide range of directions, breaking it down from multiple points of views. Subjects and imagery, historic and social setting (the “what” of a work), materials and strategies, principles of designs and elements (the “how” of a work), all become possibly the most important factor. This course aims to deepen the understanding of artistic and visual traditions, encourages creativity and expands professional perspective.

Design History & Theory

Design History and Theory informs student about History of design, its origin, how it emerged as a profession, its process and helps analyze a design, its systems while understanding the demands of a market/target group. This course prepares students for their department and how would they cater various target group(s)/market according to their characteristics while providing them an over view of design tendencies. Students develop a critical eye to look at any work of design solution and analyze it using

their knowledge of design theory and development throughout the history.

Basic 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.

Basic 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. Basic concepts of drawing (line quality, composition, tonal value etc.) will be actively engaged throughout the course.

Basic Drawing II

This course serves as a transition between basic skill



development and advanced techniques and mediums exploration. 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.

Digital Communication

In this course student explores typography specially focusing on the usage of an appropriate typeface. Further exploring



“ Employer’s Corner

Salim Chatoor

Managing Partner - Threads and Motifs

We have been employing graduates from TIP for almost a decade now and have found them to be extremely dedicated, hardworking and creative with strong technical skills. A graduate from TIP will always be preferred by us because of these traits. I congratulate TIP for instilling these qualities in their students and I hope they continue this excellent work which benefits the textile industry and the country.

the possibilities of Digital Communication. Acquiring appropriate skills to use graphic tools as a medium to communicate, express, interpret and present an abstract thought on paper. Students get hold on graphic design systems to produce object- or form-oriented graphics.

Basic Design I

This course introduces 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.

Basic Design II

This course explores the possibilities of basic elements or building blocks selected to convey the message through visual language. It helps in determining how items on a surface 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 design compositions and layouts.

Interior Design & Decoration

This Course aims to teach students the Visual Language of interior design & furnishing. Students learn how to apply the concepts of three-dimensional design to the

reality of a finished space. As a Textile Designer how can they use their knowledge of decorative textiles and fabrics, gain the product knowledge required to select and specify cost-effective finishes suitable for the intended end use to create a professional and enduring interior space. Understand the functional and aesthetic properties required for bed linen, rugs and decorative textiles.

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.

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.

Art History II

This course examines the art pre-modern (1800-1880AD). 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 & tradition and combining the exposure to art history with the desire to foster art appreciation.

Drawing Project

This course is a project based studio practice which allows students to engage with the enquiry in art and design where the emphasis is given to 'active learning' and 'self-directed study'. Students understand the

importance of drawing as a fundamental source of visual enquiry in the textile design process. Within the context of a project there may be emphasis on the acquisition of a skill, the learning of a practice, visual analysis, critical analysis, problem solving or expressive interpretation. Students will explore the visual characteristics of a given theme by producing number of drawings. The outcomes from this phase of the project will then be incorporated in the development of textile print in the next phase. These projects will also allow students to have a response and to learn to evaluate the work of contemporary artists, craftsmen, designers and architects as well as those from other than their cultures, countries and times.

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.

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.

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.

Print Design I

In this course students learn the complete design development process from realistic visual study to motif and layout developments. Emphasis is on sketchbook developments till the final finished layouts. They learn the various repeats used in textiles. The imagery developed in the drawing courses 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 silk screen printing technology.

Print Design II

This course aims to focus on various theme based designs, enhance the design development of students for a variety of end products. Textile Prints are created in this course following design process of development, for silk screen printing and its technical limitations. Students select a



“ Alumni Success Story

MAHA NAEEM

CREATIVE HEAD WOMEN'S WEAR - EDENROBE

Summarizing the experience at TIP by focusing only on academics, extracurricular activities and campus life would not do justice. For me it's an institute which not just nourishes a personality or offers technical education but also plays a significant role in providing a professional person to the textile industry. It was a tremendous and remarkable experience I had with the faculty over there. Indeed an exceptional experience throughout. TIP has played a vital role in what I am today. When people recognize me as a TIP's graduate or expert which in reality made me honored.

theme and learn to create main print along with its coordinates and color ways. Furthermore they work in the printing lab to execute these designs with various printing techniques and mediums on variety of fabrics.

Weave Design 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.

Weave Design 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. In this advanced handloom weaving course, students explore and learn complex traditional weaves involving painstaking labor 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 in Design Projects students introduce their creativity and suggest innovation, where possible, to adapt these crafts and techniques to the contemporary consumers

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 which are an essential tool for digital designing worldwide. They 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 various home textile products.

Computer Aided Designing II

This course further reinforces the understanding of the digital medium used in textile design. The students learn and explore digital drawing and various tools and methods practiced in textile industry. The 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 various fashion and apparel products.

Textiles History

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 textiles 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.

Design Project I

This course is project based. Students develop 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.

Design Project II

This course is trend focused. Students start with visual study, develop designs and produce textiles, according to a brief given to them according to trends predicted for that year, with specific end use and well defined target market e.g. Home textiles for the European market.

This is a mini thesis and students learn to do research driven project.

Advance Weave

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)..

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, and embroidery. Skill in the application of design through the above mentioned media will be sharpened, and emphasis will be given to composition, colors and material exploration.

Textile Embellishment

This is a supportive course for textile designers in adding value to their final product. The course will develop skills to apply techniques of embellishment to apparel or home textiles surfaces with creativity linked with value addition and product development through needle craft, patch work, appliqué, bead and sequins work, crochet, machine embroidery etc.

Design Research Project

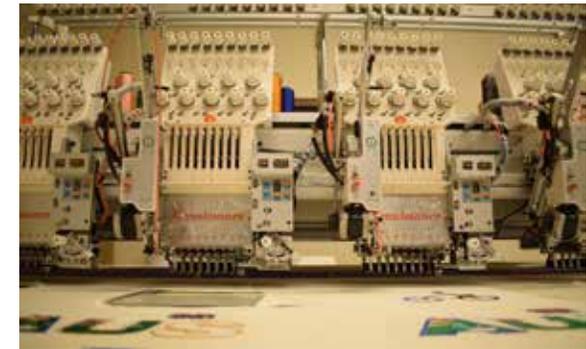
The design students are required to undertake a major project in their final year. This project is expanded over two semesters i.e. 7th and 8th. Students develop their own brief and create a range of products for a target market, taking inspiration from a particular theme. All these elements are integrated 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.

Dissertation

Dissertation is the written component of the Design Research Project. It is a commentary about any subject that relates to, informs and support the concept developed for the project.

Entrepreneurship

This course aims to teach students the most obvious form of entrepreneurship that is of starting new businesses (referred as Startup Company); however, in recent years, the term has been extended to include social and political forms of entrepreneurial activity. Entrepreneurship is the act of being an entrepreneur, which can be defined as “one who undertakes innovations, finance and business acumen in an effort to transform innovations into economic goods”. This may result in new organizations or may be part of revitalizing mature organizations in response to a perceived opportunity.



“ Employer’s Corner

S. Shiraz Abid

Creative Head (Export Department) - ALKaram Textile (Pvt.) Ltd.

Having Tipians in my team have always been a great experience. They are competent individuals. Working for export market when you have to meet international requirements and raise your bars in order to bring business to your country and to stand out with competitors, the individuals who follow the pace could only survive in textile export business.

I look forward to work with more Tipians.

Textile 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 book keeping, 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.

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 micro economics 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 macro-economic concepts and various economic models in providing explanation on the working of the economy. The topic includes national income accounts, macro-economic 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.

MGMT-302 Credit Hours: 3

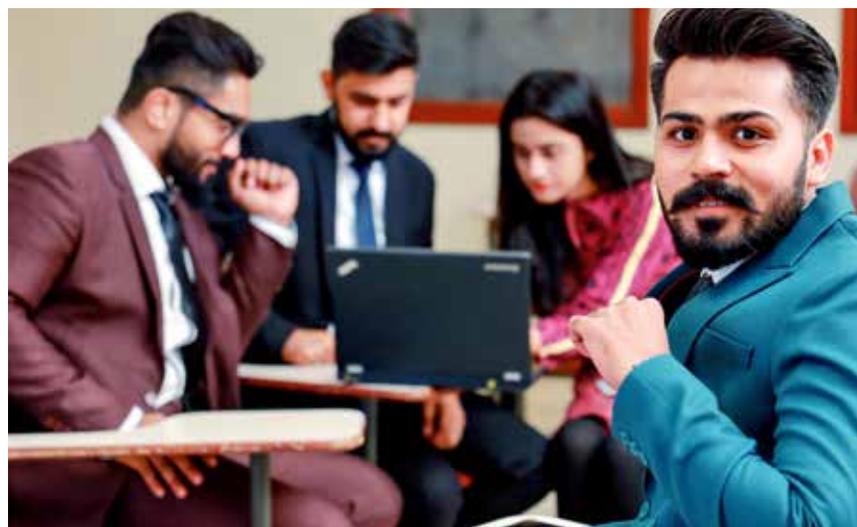
Organizational Behaviour

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.

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. 'The courses are subject to review based on Industry requirements and HEC guidelines'



“ Employer’s Corner

Masood Naqi

Director - Rajby Industries Pvt Ltd

Rajby Industries has a very close relationship with TIP both as employer and academic and technical coordinator. Previously we have hired TIP students but the big lot of 10 students was hired last year and placed in production, merchandising and marketing departments, their performance is satisfactory and we hope that in future they will be useful asset of Rajby. Some of TIP's texpert's hold high positions at Rajby in Product development, marketing and Quality management departments.

TIP has been producing top class graduates that compliment greatly to the needs of the Textile and Apparel Industry. At Rajby we are open to help TIP in giving short and long term internship, help students in their assignments during the semesters and any other training program required.

Apparel

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 from 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.

CADN-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.



“ Employer’s 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

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.



Fashion Design



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 Egyptian 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.

“ Employer's Corner

Kaschif R. Israr

Country General Manager, Euro Centra Pakistan
(Wuensche Group, Germany) Class of 2003

Textile institute of Pakistan has imparted great values in the education as well as the reports sector of Textile & Fashion industry of Pakistan. Since its inception, graduates of this institute have served the industry in a leadership roles who are managing the most sensitive portfolios of international fashion and textile brands. With its diversification and expansion into various sectors of the industrial education, TIP has become an integral part of the textile and fashion conglomerates locally and internationally. In my opinion, institute has serious and focused faculty and coaching systems that enable young students to become more responsible on their field and career. Combined with the in-house modern technical laboratories and external industrial internships arranged by the institute, TIP has very promising features to offer. I wish the management, faculty and the new comers a great success ahead.

CADN-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.

CADN-406 Credit Hours: 2

Gerber Technology

The latest version of Gerber software only offered at the Textile Institute of Pakistan, providing complete manufacturing solutions, helping students integrate the industry at an advanced level. Gerber is an integrated software and hardware solution for fashion & apparel, technical textiles, graphics industries.

The software enables the following components:

- Plan • Design • Development & Pre-Production
- Sourcing & Production • Tracking • Reporting

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.

Industrial Manufacturing and Management

IMMT-101 Credit Hours: 3

Introduction to Industrial Manufacturing and Management

This course introduces all generic concepts and practices required in any industrial and manufacturing concern. Some initial concepts of organizational structure and human resource management are discussed. It addresses the material requirements, plant layout scheduling techniques and inventory control. Topics like PERT/CPM, Time motion study is also touched upon. Initial concepts of quality control, introduction to ISO standards, total quality management are also briefly covered.

IMMT-102 Credit Hours: 3

Engineering Drawing

The course introduces conventional aspects of engineering drawing and use of various instruments aiding drawings is adapted in class room. Ability to construct simple geometric and engineering curves is imparted. Concepts of simple orthographic and isometric projections are taken up as exercises.

IMMT-202 Credit Hours: 3

Total Quality Management

The course introduces the concept of total quality management (TQM); this course focuses on the use of statistics for implementation of TQM which includes hypothesis testing, regression, control charts, Analysis of variance (ANOVA) and Design of Experiments (DOE) and the QC tools. The course will also cover introduction to Process Failure Mode and Effect Analysis (PFMEA), Six-sigma process improvement, ISO 9001 and QS 9000. Methods to improve quality will also be covered.

COMP-203 Credit Hours: 3

Enterprise Resource Planning (ERP)

This course will introduce enterprise systems and show how organizations use enterprise systems to run their operations more efficiently and effectively. The critical success factors and implementation strategies that lead to enterprise system success, and about the informational, knowledge, and decision-making opportunities afforded by enterprise systems are also covered. It will examine typical Enterprise Systems modules: materials management (MM), supply chain management (SCM), customer relationship management (CRM), financials, projects and human resource management (HRM).

OHSA-302 Credit Hours: 3

Ergonomics

The course introduces human factor fundamentals addressing the physiological aspects of human body and covering aspects of anthropometry in various static and

dynamic positions. Ergonomic design factors are introduced related to various tasks performed. Cognitive and perception issues are also covered. Design of workstations is introduced covering functionality, compatibility and comfort. Environmental factors influencing human performances are also addressed.

IMMT-301 Credit Hours: 3

Statistical Inference

Statistical Inference is a key to decision making. The course builds on the basic course of statistics and extends its application through techniques like confidence interval, hypothesis testing, regression and analysis of variance, nonparametric statistics tests are introduced as an additional tool.

IMMT-302 Credit Hours: 3

Innovation and Technology

The course introduces the main challenges in technological innovations and related strategies adopted. The diffusion aspects of innovation are also covered. Intellectual property rights and patents are introduced and their gravity emphasized. Managing a research and development organization along with collaboration network is examined through illustrative examples. Commercialization of an innovative product is also examined.

CADN-305 Credit Hours: 3

CAD/CAM

The course covers the principles of CAD/CAM, including engineering drawing, geometric and surface modelling, and feature based design using engineering mathematics. Students learn to apply CAD/CAM concepts to product design and manufacturing and use computer aided manufacturing to perform numerically controlled programming. Extensive use of CAD/CAM software to realize product design is part of the course. Virtual and prototyping is also covered.



IMMT-401 Credit Hours: 3

Occupational Safety and Health (HSE-OSHAS)

This course introduces the study of workplace occupational health and safety, safe work practices in offices, industry and construction. It will also explain, how to identify and prevent or correct problems associated with occupational safety and health in these locations as well as in the home. The course is designed to assist with the implementation of safe healthy practices at work and at home. Also to control unsafe or unhealthy hazards and propose methods to eliminate the hazard, a potential safety or health hazard, Health and Safety Regulations as well as supported legislation. It will also discuss the role of health and safety in the workplace pertaining to the responsibilities of workers, managers, supervisors.

IMMT-403 Credit Hours: 3

Plant Layout and Design

Plant layout and design is an essential feature of any manufacturing facility. The course covers the principles of plant layout and operational analysis covering both the new plants and existing layouts. Flow and activity analysis is studied keeping in view the space requirement and availability. Computerized layout planning is also covered.

IMMT-405 Credit Hours: 3

Operations Research

Operations research covers the following five areas: Linear programming; non-linear programming; dynamic programming, stochastic modelling and simulation and dynamical systems. The course has been designed to address the essential components of these areas inclusive of network programming, computer simulation, and queuing theory. Applications will cover areas related to real problems engineering, science, economics and management.

COMP-406 Credit Hours: 3

Data Mining and Analysis

This course would introduce many of the important ideas in data mining with focus of analysing big data, explain them as statistical framework, and describe some of their applications in Business, Finance, Marketing, and Management. Hence, this course covers data mining techniques and their use in managerial business decision making. Several case studies of well-known data mining methods will be used. An understanding of business analytics and data mining concepts and techniques will offer a valuable advantage in the competition for jobs and placements.

IMMT-303 Credit Hours: 3

Maintenance Management

This course would make the students understand Maintenance & Facility Maintenance Management Systems, their philosophies, trends and prospective and be familiarized with Asset Management. The concept of Total Productive Maintenance TPM, different generations of TPM, implementation of TPM and Failure Causes are covered. It will discuss in details the theory of Reliability Centered Maintenance RCM, Performance Standards and Failure Mode. Different type of Maintenance Programmes, their Policies, and Performance Indicators and Development will be addressed.

Course Objectives

IMMT-304 Credit Hours: 3

Materials Management

The course addresses all key aspects covering the material management. Initially taking up basics, like value analysis, supply chain concepts. The course takes up issues like economic order quantity, purchasing cycle, lead time analysis and tendering processes. Stores and inventory control management is covered in details. Use of Computers and internet is a part of the course.

MGMT-303 Credit Hours: 3

Product Management

The course covers aspects of product management, treating product as a commercial factor and covering classification, branding positioning and range analysis. Product life cycle covering the launch, growth, maturity and decline are examined. Various strategic like product development looking at competitors are introduced.

General Courses



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:

BS in Textile Science / BS in Industrial Manufacturing Management

- 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 Boards of Intermediate Secondary 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 spoken.

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 the verification of certificate from concerned BISE is the responsibility of the candidate.

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)
(Inclusive of Admission Processing Fee) Rs. 1,500/-

Admission Fee (non refundable) Rs. 20,000/-
Security Deposit (refundable) Rs. 15,000/-

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. 6,000/- per credit hour
Student Facilities & Activities Rs. 4,500/-

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)**
- * **Subject to revision according to the rate of inflation.**

Optional Facilities

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

TIP reserves the right to review its tuition and other fees as and when required in order to cover inflationary impact. All payments can either be made directly into Bank Al Habib (Shahra-e-Faisal Branch) or through pay order at TIP's admission office. A late payment penalty of Rs. 3,000 will be applicable past the deadline of fee payment.

**** Students are required to apply for these facilities. Charges for these facilities are subject to review anytime during academic year.**

Fee Refunds

As per HEC, withdrawals from university are entitled to refund of fee according to the following schedule

Full (100%) Fee Refund	Up to 7th day of commencement of classes
Half (50%) Fee Refund	From 8th – 15th day of commencement of classes
No (0%) Fee Refund	From 16th day of commencement of classes

Scholarships & Financial Assistance Schemes Offered At TIP



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

Need-Cum-Merit Scholarships (New Students)

Up to 100% need-cum-merit scholarships are available to new students for 1st year (2 semesters) subject to the following eligibility criteria:

Eligibility Criteria

- 60% marks in TIP Admission Test
- Clearance of Admission Interview by Admission Committee
- Need for scholarship to be established by the Financial Assistance Committee (FAC)
- Minimum GPA of 2.0 to be maintained

Academic Honors

Top three position holders in all of the programmes offered at TIP are given academic honors every semester based on the GPA obtained.

In case a position is shared by more than one candidate, then the amount of award for the respective positions are added and distributed equally amongst those students.

The Chancellor in consultation with President determines the amount for cash award from time to time.

Need-Cum-Merit Scholarship & Interest Free Loan (Current Students)

Up to 100% need-cum-merit scholarships and interest free loans are available to current students for 2nd year and onwards subject to the following eligibility criteria:

- Need for scholarship / Loan to be established by the Financial Assistance Committee (FAC)
- Minimum GPA of 3.0 for scholarship
- Minimum GPA of 2.75 for loan

In order to assess the need of the student, a duly filled application form must be submitted in all cases. The application form can be obtained from TIP Main Campus or City Office or can be downloaded from TIP's website.

In addition to TIP financial assistance schemes, TIP continuously explores the possibility of negotiating with financial institutions for educational loans and Qarz-e-Hasna.

Scholarship scheme may be changed / modified / withdrawn wholly or partially at any time at the sole discretion of TIP without any prior notice.

Industry Scholarships

Full scholarships from Industry, alumni and philanthropists are also available for needy and hard-working students meeting the prescribed criteria.

Quaid-e-Azam Scholarships

Full scholarships from philanthropists are also available for high achievers meeting the prescribed criteria.

Zakat Fund (Certified)

TIP believes in the life - changing value of an excellent higher education. In order to tap the talented students from Interior Sindh and Baluchistan and facilitate their residential accommodation, a zakat fund has been established.

Other needy students are also eligible to apply in order to fulfill their dreams of higher education.

Quaid-E-Azam Scholarship

This is a fully funded scholarship (tuition fee covered) decided to award the deserving candidates in honor of Quaid's untiring efforts to become independent in all terms. Our youth, particularly the students, are the nation builders of tomorrow. This scholarship will help in equipping the right candidate with the relevant discipline, humbleness, education, right set of skills and training. TIP is striving to support the right talent by providing a platform while ensuring the dignity and self-respect at the same time.

Eligibility Criteria:

The candidate must have:

- Earned at least 70 or above percentage in Intermediate and equivalent in A-Levels. For A-Levels, equivalence certificate would be required from BISE.
- Earned minimum 55 and above percentage in TIP's admission test.

Terms & Conditions:

The selected candidate, once after taken on board, is expected to:

- Maintain minimum 3.0 CGPA in all 8 semesters, 4 years degree program.
- Participate in all kinds of educational as well as entertainment activities to excel in academic and social life. This is to serve the purpose of character building of our students, in order to create a well-rounded personality, being good at a lot of different skills, academic subjects, and sports.



- Not to demand any transfer of credits to other institutions.
- Not being involved in any kind of disciplinary case, ranging from minor to severe.



Academic Rules & Regulations

Credit Hours

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

A minimum of 134 passed credit hours are necessary for a student to graduate.

Grading System

The following grading system was implemented in Fall 2014 semester.

Grade	Grade Point	Percentage Mark
A ⁺	4.0	89 & above
A	3.75	84 - 88
B ⁺	3.5	79 - 83
B	3.0	74 - 78
C ⁺	2.5	69 - 73
C	2.0	64 - 68
D	1.0	59 - 63
F	0	Below 58

Not calculated in the Grade Point Average:

- I Incomplete not included in GPA calculation.
- W Withdrawn during first 4 weeks of classes.
- IP In progress (for a course, for which a grade is due in the semester)
- R Repeat Course (see explanation below)

Cumulative Grade Point Average (CGPA)

Cumulative Grade Point Average (CGPA) is computed by dividing the total number of grade points earned by the total number of credit hours taken.

$$\text{CGPA} = \frac{\text{Sum of (Credit Hours x Grade Points)}}{\text{Sum of Credit Hours}}$$

- The CGPA will range from 0.00 to 4.00
- A minimum CGPA of 2.00 is mandatory to graduate.

Repeat Courses (R)

It is mandatory for students to repeat and clear failed course(s). Upon repeating a course, both the previously obtained grade as well as the repeated course grade is shown on the student's transcript. However, only the better grade is counted towards the GPA calculations. All repeated courses are marked (R) on the transcript. A student may also repeat any course for grade improvement.

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 GPA of less than 2.0 is placed on Academic Probation (if pass in all subjects) and 1.7 or less if fail in at least one subject.

A student faces dismissal from the Institute, if he/she is placed on probation for two consecutive semesters. There will be maximum two probations in four years degree. Both probations can not be granted in first four semesters. (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".

A student can withdraw from a course after mid term results with no fee refund. Transcript would show "W" grade and it will not be considered for grade calculation.

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:

Attendance policy

There is no concept of leave at TIP. However extreme emergency and unavoidable circumstances are given due consideration upon providing necessary documentation and approval of the dean. These cases would be decided strictly on case to case basis.

- A maximum of five (5) absences are allowed for a twenty eight (28) session course.
- A maximum of three (3) absences are allowed for a fourteen (14) session course.
- Any student failing to meet the above mentioned criteria will be given "F" grade.
- Students arriving more than five minutes late in the class are marked absent.

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.

Academic Honours

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

Cum Laude	3.40 to 3.69 CGPA
Magna Cum Laude	3.70 to 3.89 CGPA
Summa Cum Laude	3.90 to 4.00 CGPA

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.

Dean's List	3.50 - 3.99 GPA
President's List	4.0 GPA

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 classrooms 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 presentations 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 enrollment, 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 conditions outlined above.



