

MINISTRY OF EDUCATION AND TRAINING
HANOI INDUSTRIAL TEXTILE GARMENT UNIVERSITY



For the generation of students with professionalism, creativeness, integration

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1. GENERAL INTRODUCTION

1.1. General introduction

Hanoi Industrial Textile Garment University was initially founded as Professional Garment Techniques School on January 19th, 1967, under the supervision of Ministry of Domestic Trade. After many upgrades and changes of its names, on April 4th 2015, the National Prime Minister issued Decision No 769/QĐ-TTg on establishing Hanoi Industrial Textile Garment University.

1.2. Vision, mission of Hanoi Industrial Textile Garment University

■ **Vision:** Striving to become the high qualified human resource training unit of multi-sector, developing and co-operating with enterprises through application-oriented training programs of international standards.

■ **Mission:** Training high quality application-oriented human resources for the textile branch in particular and the industries in general with the ability of working independently and creatively for domestic and international enterprises.

■ **Core values:** **quality - dynamic - meeting the demands of the society**

■ **Objective:** Training ethical, good health managers, technicians with steady professional knowledge, intensive professional practical skills, passion for professions, industrial manners and labour discipline, able to adapt to the environment of international intergration.

Over 50 years of development, Hanoi Industrial Textile Garment University has been awarded many Labor Medals and Independence Medals ... by the Vietnam Communist Party and Government. Many lecturers and students have numerous significant achievements in national competitions and ASEAN skills competitions.



Ceremony of receiving 2nd class Independence medal.



Student Dinh Thi Anh, won the first prize in Fashion Technology at the National Skills Competition 2018.



Student Tuong Thi Hong Ngoc received the title of National Typical Youth.



2. TRAINING SCALE AND LECTURERS

- **Training scale:** 5,000- 6,000 students
- **Teaching staff:** Approximately 300 people, of which, more than 76% have a master's degree or higher and have 2-5 years of working experience in the enterprises. This is the outstanding point of University's lecturers compared to other universities', helping to improve the quality of application-oriented training, consistent with the production practices in enterprises.



Students at HTU career and businesses connection Fair 2019.



Lecturers and Representatives of students took photos after Opening New School Year Ceremony 2018.

3. FACILITIES AND TEACHING EQUIPMENTS

Hanoi Industrial Textile Garment University has total land area of 6 hectares. Facilities are invested synchronously and modernly to meet training requirements including:

- **Zone A** has 95 practical rooms specializing in garment, fashion, mechanics, electricity, fiber and textile; the area of each room is from 49 to 90 square metres. Student dormitories have 114 rooms with self-contain; industrial water treatment area.



Practical buildings in zone A.



University's Dormitory in zone A.

- **Zone B** is the Service and Production Center with over 6.000 square metres. The Production Practice Center has two functions of creating international-standard learning environment for students to practice, to do an internship. Besides, the Center also has production function as a medium-sized enterprise, with modern technologies to generate revenue for upgrading facilities for training, scientific research, and creating opportunities for students to do part-time works to cover their lives.



Internship time of Garment Technology students at Service and Production Center.



- **Zone C** is designed and invested synchronously, modernly and harmoniously with transport infrastructure, internal roads, trees and lakes in harmony with the landscape of pedagogical environment. This area consists of two blocks of 11- floor lecture halls, a 5-storey Library Information Center, a 5-storey Research and Experiment Center, a 3-storey Board Building, a multi purposes Gymnasium. This area includes Lecture Halls, Electronic Library Centers, Research Centers with Chemical and Physical Laboratories, Textile Fiber Laboratories, Fashion Model Development and Research Center, Fashion Show Practice Center, theory classrooms, computer labs, Multimedia rooms for teaching and studying English, Fashion Design Classrooms...

Modern training equipment is suitable to enterprise practices including 3.000 sewing devices of all kinds; specilized machine-tools; specialized softwares such as automatic pattern making software, English teaching and learning software, woven fabric design software....



Zone C- Hanoi Industrial Textile Garment University.



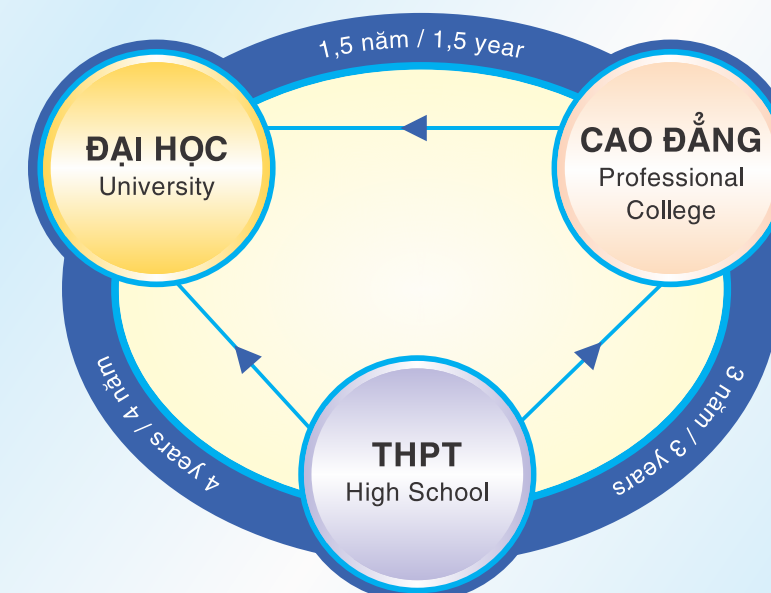
Programmable Embroidery Machine.



Milling machine and CNC lathe.

4. INTRODUCTION OF QUALIFICATIONS AND PROFESSIONAL, VOCATIONAL TRAINING

4.1. Learning path at HTU



4.2. Qualification and training professions

4.2.1. University

University training level with the following forms: Full-time University System; From college to university training system and On-the-job University System. Training specializations included:

Garment Technology Specializations:

- Industrial Pattern Making
- Technology Design
- Quality Management
- Production Management

Textile, Fiber Technology Specializations:

- Fiber Technology
- Weaving Technology
- Knitting Technology

Marketing Specialization: Fashion Marketing

Mechanical Engineering Technology Specializations:

- Management and Maintenance of Sewing Equipment
- Mechanical Engineering Technology

Electrical and Electronic Technology Specializations:

- Mechatronics in Garment and Textile
- Electronic and Electrical Technology

Industrial Management Specializations:

- Garment and Textile industrial Management
- Garment and Textile Merchandisers

Fashion Design Specializations:

- Image Design
- Technical Design

4.2.2. College

Garment Technology

Sewing equipment repairing

Fashion Design

4.2.3. Training according to the needs of businesses

The University trains basing on orders from textile businesses including managers, technicians and mechanical workers. Training programs are often ordered by businesses.

Training program for Directors of textile and garment factories

Training program for team leaders, production line leaders

Training program for quality controllers (QC)

Training program for technicians: Pattern maker, production line designer, line technician, improvement (IE), sample sewing

Training program for English for Garment

Training program for sewing equipment repairing

Training program for fashion design

4.3. LEARNING OUTCOMES AND JOB POSITION

4.3.1. GARMENT TECHNOLOGY MAJOR

a) Learning outcomes

■ About knowledge

- Analyzing the sewing process of all kinds of products from simplicity to complexity, production preparation process, quality control process in departments, processes of organizing, deploying and operating industrial textile and garment production; describing Lean production process (Lean);
- Applying the knowledge of anthropometry, costume art, technical drawing, costume design, sewing techniques, informatics, foreign languages to design patterns and technologies; Applying knowledge about garment and textile to deal with complex situations commonly happened in the process of designing, cutting, sewing, finishing products, organizing, production operating, technology controlling, industrial textile and garment product quality managing;
- Explaining: structures, characteristics and specifications of using materials and accessories in industrial sewing, methods to ensure safety in industrial garment factories.

■ About Skills

- Carrying out the tasks: making patterns, size grading, making production patterns, sewing support pattern; pattern marking; making the material and accessory charts; production line design, designing workshop technologies in accordance with the



Class time for Costume Design 3.

conditions of facilities and equipment of the enterprises; quality controlling in industrial sewing lines; organizing, deploying and operating production; product quality management; participating in implementing effectively Lean production in manufacturing plants;

- Sewing all kinds of products from simplicity to complexity according to technical standards, ensuring time norm, writing reports to assess the impact of sewing process on bulk production;
- Handling a number of complex situations that often occur in production preparation process, deploying, operating production and product quality managing in industrial sewing processes;

- Satisfying basic information technology skill standard under Circulars 03/2014/TT-BTTTT issued on March 11th, 2014 by Minister of Information and Communication, using computers to make specialized documents, using specialized software to design pattern, size grading, pattern marking;

- Meeting the level 3 learning outcome of the 6 level foreign language competency framework of Vietnam in accordance with the regulations of the Ministry of Education and Training, using English for Garment in the process of performing professional tasks and management work, production operating.



Lesson time on Gerber software.



Doing internship on computerized sewing machine.

■ Abilities of Autonomy and responsibility

- Have consciousness of self- learning to improve professional qualifications, update new and innovative technology in researching productivity improvement, product quality;
- Be confident with the role of garment technician in ensuring productivity, quality in garment enterprises;
- Have consciousness of organizing discipline, industrial working style, cooperative spirit, working independently and in teams; enduring high pressure at work.



Students majored in Garment Technology doing practice in enterprises.

b) Students' job positions after graduation

■ Job positions:

- Pattern design, pattern marking, technical document making, materials and accessories consumption list making, trim card making, production line designing, sample sewing, line delivering, line balancing, designing industrial garment factories, improving manipulation, technology improving, designing and making sewing support pattern;
- Checking the quality of materials and accessories, cutting, sewing, finishing products in industrial sewing production;
- Line leaders, shift leaders at domestic garment enterprises and foreign sewing firms.

- *Able to take the positions:* Lean technicians, QC, factory managers, merchandisers.



Students with line production of veston at Service and Production Center.

4.3.2. FASHION DESIGN MAJOR



Students' fashion show in the sample design project.

a) Learning outcomes

■ About knowledge

- Be able to analyze: Characteristics, structure, features of garment raw materials, fine art elements, principles in costume art design, fashion trends, characteristics of human body morphology in fashion design, the psycho-physiological effects of color on people, general requirements of Ergonomics in costume design, methods of sewing products from simplicity to complexity, the process of creating fashion models, model design, designing fashion models on mannequin, the process of producing fashion products;
- Be able to apply: Basic knowledge of anthropology, costume art, fashion history, art drawing, graphics, Ergonomics, textile materials, techniques for material treatment, techniques for changing products' surfaces, costume design, techniques for sewing products, informatics, foreign languages to create and tailor fashion collections in accordance with fashion trends and customers' tastes.

■ About skills

- Be able to create and design samples, tailor fashion collections according to ideas, themes in accordance with fashion trends and market needs;

- Be able to design all kinds of paper pattern by different methods such as 2D (plane), 3D (mannequin);
- Be able to manage production and deal in fashion products; organize the launch and display of collections at fashion stores;
- Be able to make up and take photos of fashionable collections;
- Be able to check the quality of fashion products;
- Be able to handle a number of complex situations that often occur in the process of creating and designing samples, tailoring fashion collections, managing production of fashion goods;
- Satisfying basic information technology skill standard under Circulars 03/2014/TT-BTTTT issued on March 11th, 2014 by Minister of Information and Communication, be able to use application graphic software, fashion design software;
- Satisfy the 3 - level learning outcome of the 6-level foreign language competency framework of Vietnam according to the regulations of the Ministry of Education and Training, be able to use English in fashion design to research fashion trends, fashion management and trading.



Designing models on mannequin.

■ Abilities of Autonomy and responsibility

- Be aware of the roles and responsibilities of fashion designers for the sustainable development of Vietnam's fashion industry;
- Be innovative and honest in fashion design;
- Have a sense of discipline, industrial working style, a spirit of cooperation, the ability to work independently and in groups; be able to work under high pressure, self-study to improve qualifications, update new technology.



Students defend the subject projects on Creating fashion models.

b) The positions of the students after graduation

■ Undertake the work as follows:

- Design ideas;
- Design samples;
- Sew samples;
- Manage fashion stores;
- Manage production of fashion goods;
- Give professional advice on how to sell fashion goods;
- Give professional advice on fashion style;
- Check the quality of fashion products;
- Arrange fashion stores.

■ Be able to undertake the works as follows:

- Cooperate with the departments to organize fashion shows;
- Make photo galleries (fashion catalog);
- Trade in fashion;
- Establish fashion companies;
- Research fashion trends



Model creation class.

4.3.3. FIBER AND TEXTILE TECHNOLOGY MAJOR



A Lesson of doing experiments of Textile students.

a) Learning outcomes

■ About knowledge

- Be able to map out the process of product design, technology design, and production line design of fiber and textile products;
- Be able to analyze factors affecting consumption, labor productivity, product quality, factors affecting the environment and ecological environment in fiber and textile factories in order to apply into the reality of organizing, deploying and managing production in fiber and textile factories;
- Be able to explain the composition, operating principles of equipment, technological processes and analyze technological factors affecting the production process in the fiber and textile production line;
- Be able to synthesize core knowledge of spinning and weaving technology to solve technological and equipment issues, production management, quality management, product design, and production line design in fiber and weaving factories.

■ About skills

- Operate, maintain and manage the equipment in the production line of yarn, weaving, air conditioning systems; perform tasks such as testing, controlling specifications, quality, identifying and adjusting the

factors that affect product quality in the process of yarn and fabric weaving;

- Design technological documents, production lines, calculate economic and technical norms on each device and production line of yarns and weaving; research and apply new technologies, production management systems and information technology in the production process;
- Develop product - technical standards and criteria for the quality of fiber, woven fabric and knitted fabric;
- Organize, manage and run the production in spinning line, weaving and knitting line;
- Satisfying basic information technology skill standard under Circulars 03/2014/TT-BTTTT issued on March 11th, 2014 by Minister of Information and Communication;
- Achieve the 3-level learning outcome of the 6-level foreign language competence framework of Vietnam according to the regulations of the Ministry of Education and Training, using English for fiber and weaving to read and translate technical documents, write reports and exchange technical issues, the quality of products.



Fiber and textile students are practising testing yarn quality on Uster Tester 3.

■ About abilities of autonomy and responsibility

- Always have a sense of compliance with laws, and social responsibility for consumers and society; be responsible for the issues that they are assigned;
- Actively learn and practice industrial manners, work independently and in groups, strive for self-study to improve professional skills, research to improve productivity and product quality;
- Have the ability to work under high pressure;
- Have the ability to research and solve potential problems in production, love jobs, always have innovative thinking, update new technology;
- Be willing to accept tasks; be proactive about solving problems with specific plans.

b) The work positions of the students after graduation

- Guide and control operations on production lines, yarns, weaving;
- Manage air conditioning systems, laboratories specialized in yarns and textile;
- Be in charge of the textile machine room, the group leader, the shift leader;
- Be researchers at specific research institutes;
- Work at commercial companies dealing in yarn and fabric products; Technicians of testing materials at garment enterprises.



The students of Fiber Technology, Textile Technology are practicing at Hanoi Textile and Garment Joint Stock Corporation (Hanosimex).

4.3.4. INDUSTRIAL MANAGEMENT MAJOR



Students are discussing during the lesson of Strategy management subject.

a) Learning outcomes

■ About knowledge

- Be able to summarize the issues of economics, finance, accounting principles, business statistics, basic marketing, international economics, management accounting, industrial sewing technology and economic laws;
- Be able to analyze the basic knowledge of the textile and garment market, textile and garment materials, import and export operations, electrical systems as the basis for intensive knowledge such as managing and maintaining textile and garment equipment, managing supply chains, managing and deploying orders, managing production according to Lean and JIT;
- Be able to explain knowledge of the fields of business administration such as managing human resource, finance, technology, production....

■ About skills

- Make plans according to the management fields such as plans of production, finance, quality, materials, recruitment, training, using labor according to the needs of the enterprises;
- Organize the implementation of plans, and apply the knowledge of psychology; organizing scientific labor to give professional advice, make decisions on investment, capital raising, profit distribution, managing capital and finance of enterprises, and managing human resource in the context of the textile industry;
- Satisfying basic information technology skill standard under Circulars 03/2014/TT-BTTTT issued on March 11th, 2014 by Minister of Information and Communication, be proficient in using computers in database management; drafting documents for management and operational activities;
- Achieve the level 3 learning outcomes of the 6-level foreign language competence framework of Vietnam according to the regulations of the Ministry of Education and Training, using English for economics and textiles in industrial management, especially in textile field.



English class.



Students majoring in merchandising for Textile and Garment at enterprises.

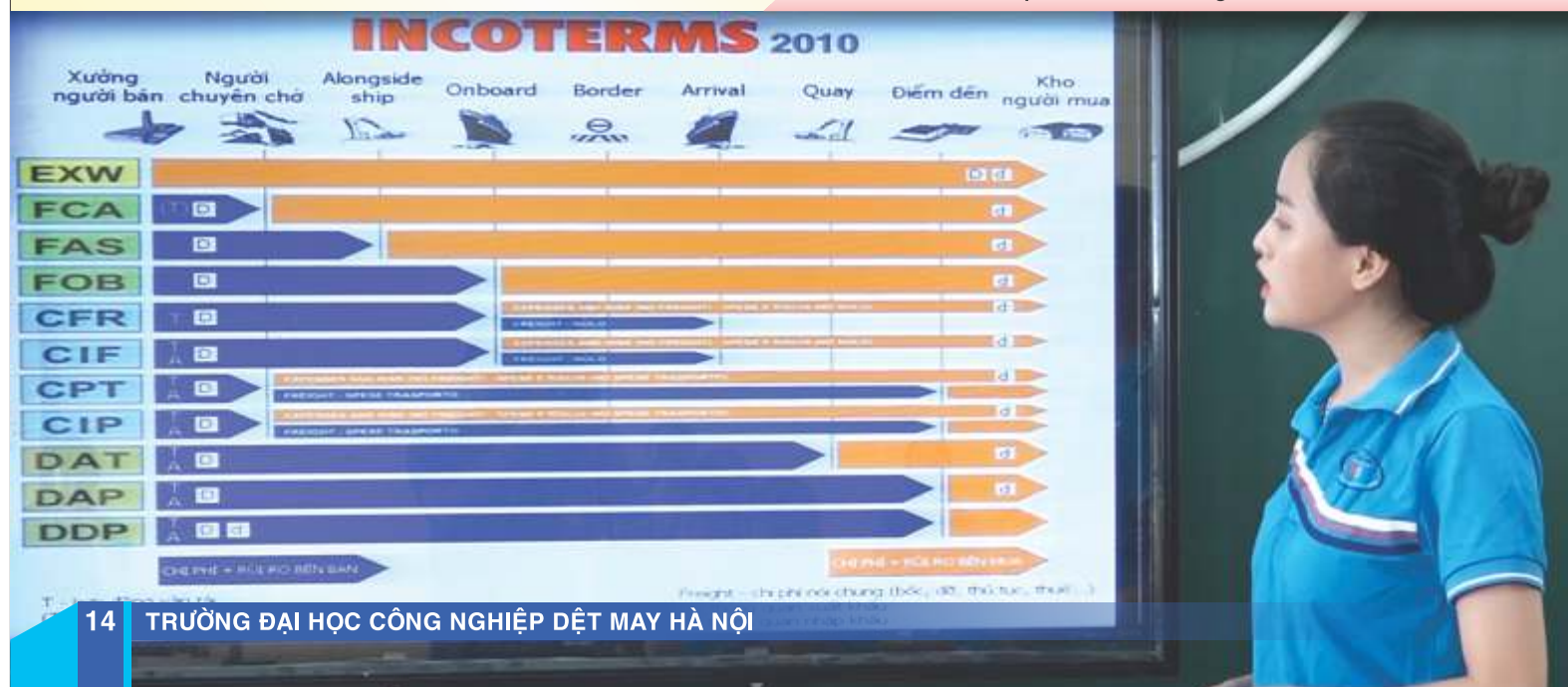
■ Abilities of autonomy and responsibility

- Always have a sense of compliance with laws, and social responsibility to consumers about the products of business enterprises; be always conscious of learning, training, cultivating knowledge to improve professional qualifications to meet the changes of job requirements in industrial management; be aware of the importance of industrial management to the stability, efficiency and sustainable development of industrial enterprises;
- Have industrial style, high professionalism at work which are suitable for the requirements of an export industry in accordance with international standards such as the textile and garment industry.

b) The job positions of the students after graduation

- Managing technology, equipment;
- Merchandisers;
- Managing production plans;
- Import and export management;
- Human resource management; recruitment;
- Production management in textile factories;
- Self-organize business and operate businesses, especially in the field of textiles.

Report of discussion results of the Import and Export of textiles and garments module.



4.3.5. MARKETING MAJOR

a) Learning outcomes

■ About knowledge

- Be able to analyze knowledge about administration science, macroeconomics and micro-economics, basic marketing, textile materials, accounting principles, economic laws, fashion history, business culture and consumers' behavior, public relations and market research;
- Be able to explain knowledge in the fields of marketing administration, product management, price management, distribution channel management, sales management, brand management, fashion production management, customer relation management, business administration, supply chain management in the textile and garment industries;
- Be able to summarize the knowledge of strategic planning, build marketing programs, marketing communication, Internet Marketing and English for marketing to support making decision on market strategy, trend research, fashion market, event planning and new product development counselling.

■ About skills

- Survey and assess the market for textiles and garment fashion; select and locate the target market for fashion products; manage fashion products and distribution channels of fashion products; build and develop brand name of fashion products; organize the selling activities in general and online selling and fashion retail management in particular;
- Make, implement and evaluate marketing programs, organize marketing communication programs of fashion manufacturing and trading enterprises; communicate, negotiate and solve problems in fashion marketing activities; write reports and discuss marketing issues in English in the fashion business;
- Apply information technology in surveys, market researches, marketing strategies planning, organizing events, sales and marketing communications.

■ Abilities of autonomy and responsibility

- Work independently or in a teamwork in a changeable business environment, be responsible for the job; self-oriented, organize marketing activities, supervise others to perform tasks, draw professional conclusions in the field of marketing and protect personal views;
- Be always conscious of learning, practicing and accumulating knowledge to improve professional qualifications to meet the changes of the work requirement in fashion marketing activities.



Students defend their project in the Strategic Management module.

b) The working positions of the students after graduating

After graduating, students can work in line of business, especially in fashion in the following jobs:

- Market research;
- Building and developing brands;
- Organizing public relations and events;
- Managing marketing communications activities;
- Managing products and industries;
- Sales, store management;
- Management of distribution channels;
- Marketing-SEO specialist;
- Customer care;
- Owners of fashion companies, owners of marketing companies, etc.

4.3.6. MECHANICAL ENGINEERING TECHNOLOGY MAJOR

a) Learning outcomes

■ About knowledge

- Be able to summarize general knowledge in the field of Mechanical Engineering: Machine principles, machine elements, applied mechanics, strength of materials;
- Analyze: Structural characteristics, working principles of mechanical equipments, process to design machine parts, technological process of manufacturing machine parts, repairing and maintenance process of mechanical equipments, methods of organizing the production management and special mechanical maintenance applied in the field of textiles;
- Assess the level of development and application of new technologies in manufacturing and mechanical maintenance, especially in the field of garment and textiles...



Practice lesson for mechanical processing on CNC milling machine.

■ About skills

- Design: technological process of manufacturing typical machine parts, mechanical repairing and adjusting process, especially applied in the field of textile and garment;
- Operate: CNC mechanical processing equipments, advanced sewing technology equipments;
- Detect and handle common and complicated failures during the manufacturing process as well as in the maintenance of textile technology equipments;
- Satisfying basic information technology skill standard under Circulars 03/2014/TT-BTTTT issued on March 11th, 2014 by Minister of Information and Communication, be proficient in using computers in database management; writing documents for professional activities;
- Achieve the 3-level learning outcomes of the 6-level foreign language competence framework of Vietnam according to the regulations of the Ministry of Education and Training. Be able to read and translate technical documents, write reports, and exchange problems about techniques and quality using English for engineering.



Practice lesson on Welding Robot.

■ Abilities of autonomy and responsibility

- Be aware of the importance of technology and equipments for productivity and product quality in enterprises;
- Always have a sense of compliance with the law, take responsibility for the issues in the work they are assigned; work independently and in groups; work under high pressure;
- Strive to self-study to improve professional qualifications, research to improve productivity and work efficiency.



Practice lesson for mechanical processing.

b) The working positions of students after graduation

- Specialized installation, repair and maintenance of mechanical equipments;
- Design processing technology, programming the process on CNC machines, improve mechanical and electrical techniques, make striking bars in garment enterprises;
- Technological consulting for mechanical enterprises and garment enterprises;
- Operate machine - tools to process machine parts;
- Sales of technical services, be representatives of manufacturers of special mechanical equipments on textile and garment;
- Manage and supervise equipment systems in factories;
- Research on mechanical engineering technology especially on textile and garment equipments.

4.3.7. ELECTRICAL ENGINEERING AND ELECTRONIC TECHNOLOGY MAJOR

a) Learning outcomes

■ About knowledge

- Analyze: electronic circuits, control circuits of electrical systems, automatic control systems in small and medium industry, PLC systems, industrial communication systems, operating principles of mechatronics systems in the textile and garment factories;
- Assess: technological capabilities of electrical and mechatronics equipments, plans for designing and installing electrical systems and mechatronics equipments in textile and garment factories;
- Synthesize knowledge in electrical systems, mechatronics systems in industry especially applied in the management and maintenance of electrical and mechatronics equipments in the textile and garment.



PLC test time.

■ About skills

- Operate: industrial automatic control systems, PLC systems, industrial communication systems;
- Design and install: a number of control circuits using microcontrollers, electrical systems, mechatronics with space and layout of the textile factories;
- Maintain and make maintenance plans: electrical equipment, mechatronics equipment, automatic monitoring system in textile production;
- Detect and handle common and complicated failures arising on electrical and mechatronics equipment in textile and garment factories;
- Satisfying basic information technology skill standard under Circulars 03/2014/TT-BTTTT issued on March 11th, 2014 by Minister of Information and Communication, make use proficiently of computers in database management; drafting documents for professional activities on electricity - electronics;
- Achieve the 3-level learning outcomes of the 6-level foreign language competence framework of Vietnam according to the regulations of the Ministry of Education and Training. Be able to read and translate technical documents, write reports, and exchange technical and quality issues of electronics - electronics and mechatronics in textiles and garment in English.



Students are practising with electronic sewing machines.

■ Abilities of autonomy and responsibility

- Work independently or in groups, having consciousness of disciplines, industrial behavior, comply with electrical safety regulations;
- Guide and supervise the work of people in the teamwork on design, maintenance and management in the fields of electricity and mechatronics assigned to them; take responsibility for themselves and their group;
- Take the initiative in planning and implementing activities of maintaining electrical and mechatronics equipments in textile and garment;
- Always be aware of learning, practicing and improving knowledge to upgrade professional qualifications to meet the changes of job requirements in the industry 4.0;

b) The working positions of students after graduation

- Design, operate and maintain the hardware and software systems of controlling machines, automated equipment, automated production systems in factories, especially in the field of Textile and Garment;
- Program and control the automatic production system in factories especially in textile and garment factories;
- Technology consult, design electrical systems, construct and transfer production lines and automatic and semi-automatic systems at factory projects;
- Manage and supervise investment projects, install electrical equipment systems, mechatronic systems in factories especially in Textile factories;
- Research at research, training, manufacturing and trading centers in the fields of electricity, electronics and mechatronics.

4.4. TRAINING COURSES ACCORDING TO BUSINESS NEEDS

4.4.1. Training program for directors of textile and garment factories

The content of the program includes basic knowledge of human resource management, production management and cost control, business management, strategic management, supply chain management, corporate culture, and soft skills in management, quality management. The program also introduces some advanced production models and technical management models in the fiber, textile, sewing factories, and provides knowledge of business law.

The program includes the following courses:

- Director of a garment factory (1 month, 2 months);
- Director of a yarn factory (1 month, 2 months);
- Director of a textile factory (1 month, 2 months);



Defending action plans of learners of textile factory directors training course number 6.

4.4.2. Training program for team leaders and line leaders



Opening ceremony of course for leaders of production lines at Song Hong Garment Joint Stock Company

Give knowledge of management, operating production lines, soft skills, handling situations, giving improvement solutions, increasing productivity and product quality at the production line for the team leaders, line leaders, skilled workers who had experiences in production.

Including programs:

- Knowledge fostering program of manufacturing management in the garment industry (02 weeks).
- Operating skills program of an industrial sewing line (01 month).

4.4.3. Quality management training program (QC)

The program is to give knowledge about methods of developing quality indicators; processes and methods of quality control; skills of checking and controlling product quality and quality criteria; applying a number of statistical tools in industrial sewing quality management and evaluating product quality according to quality criteria.



Opening ceremony of the course in quality controlling on industrial garments at TCE VINA DEMIN joint stock company.

4.4.4. Quality management software

Applying statistical tools to quality management that makes it easy for managers to identify and handle quality issues that exist per hour, day, week, and month through the system's warning system. The system allows entering data into the check sheet in-line or end-line, through which the system will automatically count, calculate and produce reports by numbers, statistics and visual images, combining with and on lights alerts in statistics tables.

4.4.5. Training programs for technical workers in garment enterprises

The content includes in-depth knowledge about technical skills in industrial sewing enterprises: from designing samples, pattern grading, pattern marking, line designing, sewing sample and the way to put new styles into production line; research methods to improve operations, calculate standard time and balance lines; control product quality, quality targets and apply some statistical tools in quality management of industrial sewing ...

- 3-month technician training program;
- 6-month technician training program;
- Specialized training program for technical staff:
 - Pattern marking by Gerber software;
 - Designing and pattern grading by Gerber software;
 - Designing industrial sewing lines;
 - Sewing sample and the way to put new styles into production line
 - Industrial pattern design method.
- Training program for garment IE officers (02 weeks);
- Training program on quality management of industrial sewing products (01 month).



4.4.6. Training program for English for Garment

The program includes knowledge and skills in using sentence structures in communication, reading comprehension, translation of English for Garment document, discuss with customers about products, reading technical documents in pants, shirts, jackets and suits. The program uses updates documents from companies to teach.

4.4.7. Training program for repairing sewing equipments

These training courses include knowledge and skills on repairing sewing equipments according to each type of equipment or individual requirement of the enterprises, which ensure that learners can work effectively after finishing the courses.

Including programs:

- Sewing equipment repair training program (3 months);
- Sewing equipment repair training program (6 months);
- Specialized sewing equipment repair training program:
 - Training program to fix bartacking machine;
 - Training program to repair overlock machine;
 - Training program to repair buttonhole machine;
 - Training program to repair keyhole buttonhole machine;
 - Training program of operating, troubleshooting and programming stitches for 1 needle electronic sewing machine, 2 needle electronic sewing machine, electronic buttonhole machine, electronic keyhole buttonhole machine, electronic bartacking machine;
 - Training program of manufacturing attachments.



Closing ceremony of Repairing sewing equipment course at X20 Joint Stock Company.



4.4.8. Fashion design training program

- **Product design on mannaquin (3D model design)**

Draping is a method of modeling directly on the human body through a model made of foam, foam that makes it possible to pin, attach, create costumes on it. Draping design reduces the dependence on the mold design system, which is the environment for designers to show their ability to handle creativity, minimize errors in calculations and minimize the arise problems. With Draping technique, the model maker can overcome it when adjusting the model right on the mannequin commensurate with the complete model or complex design. From the basic model, designers can develop application models of box blocks, flower blocks, fish bone blocks ... in accordance with the modern design trends.

- **Creating fashion**

The program includes knowledge and skills of process, idea research methodology, trend research, creating fashion clothes or set of fashion clothes; Colors in fashion design; Sketch the human body, styles of fashion clothes by pencil, crayons, water lead; skills for expressing ideas throughout the fashion collections from sketching to sewing and finishing the model.

- **Fashion graphics**

The content of the program includes: Process and tasks of designing fashion collections on Adobe Illustrator software such as pattern design, texture method; how to edit hand sketches, color and show on real materials; present on how to turn sketch ideas into a professional and complete design.



5. SCIENTIFIC RESEARCH, INTERNATIONAL COOPERATION AND JOB INTRODUCTION

5.1. Scientific research and technology transfer

Hanoi Industrial Textile Garment University considers scientific research not only as an important factor to improve the quality of training, but also activities to create new knowledge, new products, improve technological processes, improve productivity and product quality in the textile and garment industry.

Scientific research activities of the University aim to build a modern textile industry and sustainable development. State-level scientific research projects, which are presided over by the University, are mainly involved in applying the achievements of Industry 4.0 into the textile and garment industry such as Lean and industrial production technology applications 4.0 at industrial sewing enterprises; assess the impact of industry 4.0 on Vietnam's textile and apparel industry.

The project defence of Ministry of Industry and Trade level 2017.



In addition to intensive studies of industry 4.0, the Ministry level research projects also focus on developing technology and human resources that helps Vietnam's textile and garment industry move to the Original Design Manufacturing Method (ODM) and the mode of Own Brand Manufacturing (OBM). The typical studies based on this orientation are: Developing human resource criteria for ODM production methods in garment enterprises, establishing learning outcomes for fashion design industry, establishing model banks used in FOB production method.



Research directions of ministerial-level projects and projects that ordered directly by enterprises also focus on improving productivity and quality of textile and garment enterprises according to their orders. Typically, the JIT model research applications in garment business management, deployment of Lean production models, designing and manufacturing sewing jackets, standardizing the operation of sewing jackets to meet Lean model at the sewing line, applying the statistical tools to improve the efficiency of quality management in the garment business, improve the efficiency of yarn quality control by Uster machine.

The university's scientific researches have been applied directly to textile enterprises, training and research institutions in the field of textiles. These studies have contributed significantly to raising the added value and improving the competitiveness of Vietnam's textile products.

From the perspective of comprehensive development for university students, scientific research activities of students are also paid much attention. Students of the University are facilitated to participate in topics, creative startups competitions inside and outside the university.

5.2. International cooperation

In the current context of extensive international integration, international cooperation activities play an extremely important role in the development strategy of Hanoi University of Textile Industry. In training activities, the school has cooperated with the International Youth Union (IYF) to organize many spiritual training courses, orient soft skills for staff, lecturers, students, and other English communicative activities; Collaborated with the Dutch organization PUM to train courses on sewing technology and fashion. The university is constantly expanding relationships with equipment suppliers in the textile sector such as Brother, Uster, Groz Beckert ... to help lecturers and students have many opportunities to exchange and learn in terms of expertise, access to advanced technology in the world. The University also has cooperated with many foreign institutes to provide students with the opportunities to study, practice and work in developed countries such as China, Japan, Korea, Germany and Russia.



Working with the National Institute of Fashion Technology, India (NIFT).



Welcoming delegation from Politeknik University STT Bandung Indonesia.



Signing ceremony of cooperation agreement with the Swiss Industrial and Training School (BZZ IDM).

5.3. Business connection and Job fair

"Job Fair" is an annual event organized by HTU in order to create opportunities for students to interact directly with businesses and find suitable jobs; build an image of the responsibility of HTU to families and students. The "Job Fair" creates multi-dimensional connections between the employers - the training institution - the employees. Enterprises have the chance to introduce their image, brand, approach and welcome nearly 2,000 students at HTU. The University has received extremely good feedbacks on the quality of training, the abilities of graduates from the business.... In the job fair, students have access to technology, management models at practical work positions, find suitable jobs.... Most of the HTU's students are recruited by businesses on the Job Fair. This is a proof, HTU's outcome commitment to the students and the society.

At this event, the signing ceremony of cooperation agreement between HTU and textile enterprises usually takes place. The cooperation with enterprises in joint training, scientific research and technology transfer is a policy that has been promoted by HTU in recent years. The association helps mutual make benefits for both the university and the enterprises when it is possible to share resources, promote the strengths of each party and connect training with production and business practices.



Signing cooperation agreement with enterprises at the Job Fair in 2018.



Students are introduced to work at the annual Job Fair.

6. RIGHTS AND ACTIVITIES FOR STUDENTS

6.1. Student's rights

- Have access to a professional learning environment, have the opportunity to participate in activities at specialized clubs, mass organizations and associations;
- Training under credit system and always associated with the practical environment;
- Paying school fees according to the state regulations for public schools;
- Being exempted or reduced tuition, borrowed money from banks according to the State's regulations;
- To be granted scholarships to encourage learning, study support and business scholarships;
- Be lived in a closed dormitory for students;
- Being recommended for jobs by the university after graduation.



Students are receiving business scholarships.

6.2. Some students' activities



Students with volunteering works.



Students with blood donation activities.



Students are participating in Vietnamese goods identification contest.



The 2019 talented and elegant HTU students in the final round.



Musical performance of students in the opening ceremony of the school year 2019-2020.



Students are demonstrating products of fashion design projects.