

Short Courses:

Certificate in Apparel Merchandising

The objective of the course is to provide the students technical knowledge on woven fabric, knitted fabric and sweater yarn to manufacture the different apparel product and merchandise that product. This course is more suitable for especially experienced person who learned through observation in RMG sector.

After completion of the course, the fresh graduate will get a token of access in the job market of RMG sector and experienced people will be benefited by developing their professionalism and knowing about extensive area of the RMG sector.

Admission Eligibility:

Minimum HSC pass + experience in Garment Sector is preferable or Graduate from any discipline.

Fees :

1. Admission Fees : Tk.10,000

2. Tuition Fees : Tk. 25000

Total Fees Tk. : 35,000 Payment System with two equal installments.

Syllabus & Evaluation Method :

Fiber : Introduction to textile fibers, fiber classification, fiber properties, fiber identification,
2.2. Yarns: Introduction to yarns, Types of yarns, Yarn manufacturing process, Cotton fiber processing, Carded yarns processing, Combed yarns processing , Man made fiber spinning process, Yarn twists -S and Z, Yarn numbering system, Direct system (Tex and denier), Indirect system (Metric count and cotton count), Related yarn calculation such as count ,weight, and length.

Fabrics: Introduction to fabric, Different types , fabric, Fabric manufacturing process.

Woven fabrics: Introduction to woven fabric, Flow chart of woven fabric production, Basic structures of woven fabric, Derivates of plain and twill fabric, Woven fabric related calculation such asGSM, OZ/ YD

Knitted fabrics, Introduction to knitting, Warp knitting, Weft knitting and sweater, Terminology related to knitting and Knitted fabrics, Basic elements of knitting, Knitting principles, Knitting

machines, Basic weft / Warp knitted fabrics, Knitted fabric related calculation , such as GSM, Shaping calculation for sweater Commercial names of woven and knitted fabrics.

Topic: Dyeing , Printing and Finishing

• Dyeing: Printing : Types of Printing, Color fastness , Intermediate Processes:, Mechanical Finishing: Raising, Shearing, Calendaring, Embossing, Sanding or cherishing, pleating, shrinking, diarizing, Chemical Finishing , Coating & Lamination

• Testing Standard :

ISO Standard, B.S. Standard, AACC Trims & Accessories:, Care labeling, Size specification

Sample Room activities & buyer Approval :

Garments manufacturing – An overview,

- Stores,
- Basic function of stores ,
- Material Received report (MRR),
- Goods issuing – requisitions and checking consumption , Sample section,
- Making counter/ approval sample as per buyer sketch/ Original sample
- Making pre production sample based on the comments on faced sample

Fabric Defects & Control, Fabric defects, Reasons of fabric defects, Identification of fabric defects, Woven & Knit fabric defects, Dyeing & Finishing Defects, Quality Control :Job requirement of Quality Inspector, Buyer QC Inspection , AQL & Final Inspection.

Production System & Line Balancing :

- Brief discussion on production systems,
- Operation breakdown – Garment tree,
- Line balancing,
- Standard minute- Meaning and basic equation Production planning and control,
- Production capacity calculation,
- Monthly capacity reports,
- Master order file maintenance, Pre- production activities,
- Order negotiating,
- Order confirmation,

- Preparation of production docs,
- Product development,
- Organizing pre-production meetings,
- Fabric ordering procedure,
- Accessories ordering, Cutting Room Technology, Markers, Preparation of swatch board , Spreading, Cutting,
- Preparation of daily cutting plans and table plans,
- Production record keeping and monitoring ,Garment Washing Techniques, Normal Wash, Pigment wash, Bleach wash, Stone wash with or with out bleach, Acid wash, Enzyme wash, Social Compliance & standard, CTPAT, Labor law, safety , OSH, Environment Calculating Consumption: Fabric, Thread, Accessories ,Packing Materials & Others & Costing, Material consumption.
- Sourcing,
- Fabric consumption,
- Thread consumption,
- Accessories consumption ,
- Packing materials, Garment costing and pricing,
- Pricing policies ,
- C & F and FOB, CIF,
- Costing system, Direct costing , Absorption costing, Activity based costing , Costing practices :
- T-shirt, - Polo shirt, - Skirt , Knit trouser

Evaluation Method:

Internal Assessment: Practical -200 Marks and Theoretical -50 Marks

Final Assessment: Practical -200 Marks and theoretical -50 Marks

Admission Time: Yearly two intakes – Month of January and - Month of July

Application Procedure :

Application forms are available for Tk. 500 at IUS, F/15, Progati Sarani, Middle Badda, Dhaka-1212

A complete application includes: i) Application form; ii) Three copy passport size photographs; iii) Clean photocopies of SSC & HSC Mark-sheets;

Final Exam & Certificate:

Final Exam will be conducted by IUS. Participant need to attend the board final exam in every year last Friday of the month of June and December. Certificate will be issued by IUS.

Certificate in Work Study & Production Planning

Productivity is one of the significant factors for our RMG sector of Bangladesh to face competitive challenge in the world apparel market. The objective of the course is to provide the process of production of a garment and to know the productivity improvement techniques. This course will play the vital role in garment factory to earn maximum profit with limited resources. After completion of the course, the fresh graduate will get a token of access in the job market of RMG sector in work study or IE department and experienced people will be benefited by developing their professionalism and knowing about extensive area of productivity & production planning for a garment factory.

Admission Eligibility:

Minimum HSC pass + experience in Garment Sector is preferable or Graduate from any discipline.

Fees :

1. Admission Fees : Tk.10,000

2. Tuition Fees : Tk. 25000

Total Fees Tk. : 35,000 Payment System with two equal installments.

Syllabus & Evaluation Method:

- Introduction to textiles
- Definitions and classifications of textile fabrics, Yarns, Definitions, Sewing thread, yarn numbering system, Fabric, Types of fabrics, definition of woven fabric, basic structure of woven fabrics , Knitted fabric, Definitions and types of knitted fabric, basic knitted fabric structure, Commercial fabrics both woven and knitted, basics of sewing machines,
- Basic components of sewing machines, Basics of sewing needles
- Sewing Machine attachment,
- Stitch types

Garments Manufacturing Process

- Cutting : Maker efficiency, Lay planning, Shade and role segregation, Fabric consumption
- Quality controlling in garments, Quality assurance, Quality control / inspection, Quality auditing statistical recording, Finishing, Buyers requirement / packing rations, Finishing accessories
- Finishing- quality, General compliance,
- Work measurement, Time study, performance rating, Reasons for Performance rating, Factors for performance rating, Speed, Effort, Concentration, Rating video exercises-practical, Timing methods, timing-

Fly-Back and cumulative, Difference between two methods, Element break down Reasons for elements break down, General rules for element break down, Types of work elements, timing exercise-Practical, Exercises with the help of video, Timing errors calculation, Work content, concepts and how to measure, Basic time, Equation and elimination erroneous data,

- time allowances, Basic fatigue and personal need , Standard time,
- Method of calculation
- Use of past data
- Synthetic data
- Element break down

• Preparation of synthetic data

• Interpolation method

• Extrapolation method

• Activity sampling

Decision making on sample size

• Planning for activity sampling

• Carrying out activity sampling practical

• Result documentation and likely ranges

• Interpretation of results (data)

Method study

• Select Basic consideration, Financial, Technical, human reaction, How to construct the matrix table, Setting of criteria for rating, how to make final conclusion based on matrix table, Pareto principle (80/20 principle), Example how to create Pareto graph, Arranging data descend order Calculate cumulative total, Calculate cumulative value, Arrange the x / y axis for graph.

Application of Work Study in Garment Manufacturing

• Plot the graph, Outline process chart, Standard symbol used in carging

• Describe the purpose of preparing outline process chart, Method of numbering / naming outline process chart,

Practical work based on video

• Flow process chart

• Calculation of Standard Production

• Efficiency Calculation

• Capacity Calculation

Production Planning & Control

• SMV Calculation

- Line Lay out
- Line set up
- Balancing Production Scheduling
- Standard symbols used in flow process charts
- Types of flow process charts (Man / Machine / Material)
- Describe the purpose of preparing low process charts
- Method of numbering / naming outline process charts
- Practical work abased on video
- Two handed process charts
- Standard symbol used to construct Two
- Multiple activity charts
- Application of motion economy Incentive Plan
- Application of layout improvements based on ergonomics
- Obtaining consent from management, supervisory staff and workers

Evaluation Method:

Internal Assessment: Practical -200 Marks and Theoretical -50 Marks

Final Assessment: Practical -200 Marks and theoretical -50 Marks

Admission Time: Yearly two intakes – Month of January and - Month of July

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