


Coarse guide book

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|  Department of Leather Engineering Wollo University <div style="float: right; border: 1px solid black; padding: 5px; margin-top: 10px;">KIoT</div> | | | | |
| Course Code | LENG3172 | Course Manager: <i>Mr. Wendwosen f.</i> | | |
| Course Title | Stitching Technology-I | Email: wendwosenebabu@gmail.com | | |
| Degree Program | BSc in Leather Engineering | Phone No | | |
| Module | Principles of Footwear and Leather Goods Technology | | | |
| Cr. Hrs. | 5 | | | |
| Contact Hours | Lecture | Tutorial | Practice or Laboratory | Home study |
| | 2 | -- | 6 | 3 |
| Lecture days and Hours | | | | |
| | Lecture | Tutorial | Laboratory | |
| Day | Wednesday | ----- | Monday | |
| Hour | 9:40 – 11:30 | ----- | 2:10-5:00 | |
| Room | CR1334 | ----- | Lab 55(leather product lab) | |
| Course Objectives & Competences to be Acquired | After Completion of the course, the students will be able to: <ul style="list-style-type: none"> • Know about the safety points, good working habits, bench layout and adjustment of sewing machines • Operate the flat bed, post bed, cylinder arm machines and their parts & functions | | | |

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| | <ul style="list-style-type: none"> • Explain and have practiced the needle changing exercise • Stitch different paper exercises according the standards • Explain and practice threading in different machines • Know about the different types of needles used in different types of machines. • Know about the relationship between machine, material and needle • Know about the types of threads, thread consumption, thread properties, thread identification and system of thread used in the footwear and leather goods industry • Know about the different types of water based, solvent based and heat activated adhesives used in the stitching department. • Know about the different types of reinforcements used in the upper and method of attachment. • Stitch different types of Synthetic exercises with standards and quality check points. |
| <p>Course Description:</p> | <p>This course attempts to introduce the fundamental concepts of sewing machine control and adjustment process. Under this course we give the training to the students for operating the different types of sewing machines, top threading, bottom threading & bobbin binding and needle changing. The students will also be taught about the different types of the needle points and needle sizes used according to different seams and material, relationship between machine, seam, needle and material. The students will know about the different types of threads, consumption of thread, different types of adhesives and different types of reinforcements used in upper.</p> |

| Weeks | Lecture Topics | Laboratory Session |
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| 1,2,3 | 1. Introduction to closing 1.1 Definition 1.2 Safety points 1.3 Good working habits 1.4 Bench Layout | ✓ Safety points, good working habits, bench layout and adjustment of sewing machines |
| 4,5,6 | 2. Machine classification 2.1 Different types of m/c used 2.2 Parts & functions 2.3 Set up & adjustment of sewing machines 2.4 Needle changing | ✓ The parts and function of sewing machine. ✓ Needle changing and threading of sewing machine. LAB REPORT ONE INDIVIDUALLY |
| 7 | Mid-term examination | |
| 8,9 | 3. Needle Classification: 3.1 Parts & Functions 3.2 Needle size 3.3 Needle System 3.4 Needle Points | ✓ Exercise for speed control Assignment one (individually) Types of needle with function and application? |
| 10,11,12 | 4. Sewing operations 4.1 Paper exercises 4.2 Threading: Top threading, Bottom threading & Bobbin binding 4.3 Synthetic exercises | ✓ Paper exercise ✓ Synthetic exercise ✓ Seam type |
| 13,14 | 5. Upper materials 1.1 Thread 1.2 Adhesive 1.3 Reinforcement Eyelets | • Title: stitch all types of seams by synthetic material (project work individually) ✓ lab exam |
| 15 | Project presentation | Present individually |

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| Lab Exercises: | Applicable |
| Pre-requisites: | LENG 3152 |
| Semester: | 6 th (second semester) |
| Status of Course: | Compulsory |
| Teaching and Learning methods | <ul style="list-style-type: none"> • Lectures and class work • Assignments • Demonstrations |
| Assessment/ evaluation & Grading Systems | <ul style="list-style-type: none"> • Continuous assessment 50 - 60% • Final Examination 40 – 50 % |
| Attendance Requirement: | <ul style="list-style-type: none"> • Minimum of 85% attendance during lecture hours • 100% attendance during practical hours is mandatory |
| Course Policy | All students are expected to abide by the code of conduct of students of the senate legislation of the respective university throughout this course. Academic dishonesty including cheating, fabrication and plagiarism will not be tolerated and will be reported to the concerned bodies for action. |
| Mode of Delivery | Semester |
| Teaching Material: | Materials: <ul style="list-style-type: none"> • Different types of paper stitching exercises(CPE) • Different types of stitching vinyl exercises (SVE) • Thread Trimmers • Small screw driver • L-keys • Needles • Scale • Different sizes and colors of thread • Maintenance kit |

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| | <ul style="list-style-type: none"> • Scissors • Marking patterns |
| Literature: | References: <ul style="list-style-type: none"> • Manuals, Written by FDDI, India • Swayam Siddha, Written by FDDI, India: <ul style="list-style-type: none"> • Essentials of Sewing • Skill of Single/Twin Needle Flat Bed Sewing Machine • Skill of Single Needle Post Bed Sewing Machine • Skill of Twin Needle Post Bed Sewing Machine • Skill of Cylinder Arm Slipper Binding Machine • Skill of Hole and Manual Eyeletter • Manual of Shoe Making by Clark |

Approved by

Mr. Wendwosen F.

Coarse manager

Signature

Date

Mr. Bedru A.

Head of Leather Engineering Department

Signature

Date