

TEng3162: KNITTING TECHNOLOGY II

Department of Textile Engineering Wollo University				
Course Number	TEng3162			
Course Title	Knitting Technology II			
Degree Program	B. Sc. in Textile Engineering			
Module	16: Knitting Technology			
Module Coordinator	N.N.			
Lecturer	N.N.			
ECTS Credits	5			
Contact Hours (per week)	Lecture	Tutorial	Laboratory or Practice	Home study
	3	0	3	4
Course Objectives & Competences to be Acquired	<p>To study the differences between weaving and knitting processes</p> <p>To get thorough knowledge of the concepts involved in Weft and warp knitting</p> <p>To get exposure to the latest developments in knitted fabric production</p>			
	<p>Stitches Produced by Varying the Timing of the Needle Loop</p> <p>Intermeshing:</p> <p style="padding-left: 40px;">Knit, Tuck, Miss; weft Knitting Calculation; Defects in Knitting; Jacquard knitting – Pattern wheel, Pattern drum, Tape patterning devices, Electronic devices.</p> <p>Warp knitting fundamentals:</p> <p style="padding-left: 40px;">Basic Warp knitted structures, closed lap and Open lap stitches. Classification of Warp Knitting Machines – Knitting elements of Rachel and Tricot knitting machine, Points of difference between Rachel and Tricot knitting machine. Representation of Warp – Knit structure. Basic yarn properties for weft and warp knitting Test for weft knit quality- knitting calculation</p>			

Pre-requisites	TEng 3161: Knitting Technology I
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Semester	2 nd Semester, 3 rd year																
Status of Course	Compulsory																
Teaching & Learning Methods	Lectures and Laboratory/Practical exercises supported by assignments																
Assessment/ Evaluation & Grading System	<p>The Lecture and Lab/Practical parts of the course will each be evaluated separately for 100 % and the final marks will be arrived at by giving weights according to the hours allocated to the Lecture and Lab/Practical parts. The details are given below :</p> <p><u>Lecture Part (Weight 60%) Lab/Practical Part (Weight 40%)</u></p> <table> <tr> <td>Mid-Term Examination:</td> <td>40 %</td> <td>Lab/Practical Records:</td> <td>30 %</td> </tr> <tr> <td>Final Examination:</td> <td>60 %</td> <td>Lab/Practical Written Examination:</td> <td>40 %</td> </tr> <tr> <td>Total</td> <td>100 %</td> <td>Demonstration/ Defense:</td> <td>30 %</td> </tr> <tr> <td></td> <td></td> <td>Total</td> <td>100%</td> </tr> </table>	Mid-Term Examination:	40 %	Lab/Practical Records:	30 %	Final Examination:	60 %	Lab/Practical Written Examination:	40 %	Total	100 %	Demonstration/ Defense:	30 %			Total	100%
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Total	100 %	Demonstration/ Defense:	30 %														
		Total	100%														
Attendance Requirements	100% attendance during lab/practical class sessions																
Literature	<ol style="list-style-type: none"> 1. Spencer D.J., “Knitting Technology”, Peramon press Oxford, 1982. 2. D. B Ajgaonkar., “Knitting Technology”, Universal Publication Corporation, Mumbai, 1998. 3. Chandrasekhar Iyer, Bernd Mammal and Wolfgang Schach., “Circular Knitting”, Meisenbach GmbH, Bamberg, 1995 																