iTextiles™
Version 2.0

Instructor Manual

For assistance please contact:
admin@iTextiles.com

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Introduction

The goal of iTextiles™ is to provide a state-of-the-art, interactive tool to teach textile basics to the tech-savvy students of today. It leverages the internet and technological advances in digital graphics, image capture and video and audio capabilities, to make the subject come alive for students. iTextiles™ is the result of a team effort of:

- Experienced faculty
- Information technology professionals
- Instructors and students who provided input and feedback

This new and enhanced version of iTextiles™, version 2.0, builds upon the interactive learning tools that you have come to enjoy. It is based upon the feedback we have received from you and your students and we are confident that it will further enhance the teaching/learning experience for your course.

How iTextiles™ is structured:

iTextiles™ Ver. 2.0 has three major components that work together to ensure you have the tools you need to use iTextiles effectively. All three components are available on the internet for instructors to facilitate ease of use. All you have to do is to complete the "Instructor and Course Setup" online by going to www.itextiles.com/instructor.

e-Textbook

The e-Textbook is the backbone of the iTextiles™ system. It introduces basic concepts, textile fundamentals, and their applications in the real world. The text is supported by several thousand high-resolution and/or magnified images to help you capture the imagination of today's visual learners. The subject matter is presented in a crisp, direct style in a bulleted format, when possible, for quick and easy understanding.

The e-textbook is also provided to you and your students on a CD for ready access at all times. Upon completion of the course, students can utilize it as a reference document.

Instructor Tools

Instructor Tools is an exclusive secured area for instructors only. The tools available to instructors in this area are designed to assist and facilitate in the preparation of teaching materials, generation of online quizzes and tests, and setup of assignments. It also includes a downloadable Grade Book.

myCourse

myCourse is an online component of iTextiles where students can access the customized Lectures* and Interactive Self Study section. The quizzes, tests, and assignments (experiments & exercises) you setup for the course are also accessible by students here. myCourse is a powerful tool that gives you the incremental capability to augment the material presented in the e-textbook.

Key Features

iTextiles™ has a wide array of features that enhance the teaching/learning of textiles that are easy to use for the instructor.

Intuitive Navigation

iTextiles™ has a rich content base that is structured to allow you and your students to access information easily and quickly.

Top Menu Bar The top menu bar is available on every page of the electronic textbook, myCourse, and instructor tools. You can go to the topic of your choosing with just one click no matter where you are in iTextiles™.

Left Menu Bar The left bar displays a table of contents of the topic selected from the top bar in the electronic textbook and myCourse. You can click on any chapter or section to access the content.

(E-Textbook)   (myCourse)

Icons and Buttons   Special icons and buttons guide you to content such as additional images ( ), trade names ( ), generic names, comparison of fiber properties, dye properties etc.

FAQs, User Manual and Help!

iTextiles™ has FAQs and this Instructor Manual available online. However, if you cannot find an answer to your question in these two documents you can submit your question by using the "Help!" option.

Provide us with as much information as possible on the Help! form and we will get back to you as soon as possible.

Extensive Image Library

iTextiles™ has a rich and extensive library of several thousand high resolution and/or magnified images that augment the text and facilitate the understanding of key textiles concepts and features.

Note: All images are copyrighted, and permission MUST be obtained before they can be copied and used outside iTextiles™. Thank you for your cooperation in this matter.

All Images are "Expandable"

All images in iTextiles™ are click-able and "expand" to display a high resolution and/or magnified image in a popup window.

e-Textbook

You can click on an image on the page or on the "Additional Images" page for an expanded view.

MyCourse

If a student is taking a quiz or test that has "Identify Images" questions he/she can simply mouseover the image for an expanded view to see the image in greater detail before answering the question.

Videos to Highlight Key Manufacturing Processes

There are over 30 video clips that highlight fundamental manufacturing processes in the textile industry. Each of these videos is close captioned and has a voice-over that explains what you are seeing on the video.

Customization Capabilities

Depending on the focus of your course, you can choose from one of three options to customize iTextiles. Based upon your selection the iTextiles components available online on the internet are automatically customized. The Lectures, Interactive Self Study section and questions available for quizzes and tests are all selected accordingly and match the content of the lectures of the respective options.

A team of experienced faculty has led the effort to create the following three options:

<u>Option A</u>   For courses that contain a strong, basic overview of textiles (this is the "default" option).

<u>Option B</u>   For courses that include fiber chemistry and detailed discussions of fibers and dyeing

<u>Option C</u>   For courses that are taught primarily to Interior Design students. For example: the majority of the images in the Lectures are of fabrics used for interiors. There is a lecture exclusively dedicated to specifications.

NOTE: The CD-based electronic textbook, by its very nature, is not customizable because it is a stand alone reference document. It has the complete text on it and supports all the three options.

In order to use iTextiles effectively we highly recommend that you select one of the above options when you complete the "Instructor and Course Setup" online. Upon successful completion of the setup you will receive an email with:

- Your UserID/Password - to access iTextiles™ Instructor Tools
- iTextiles™ Registration Code – which you will need to give to your students so they can register online. This code is required by students at the time of registration to:
    o Enable them to access the customized material online
    o Access the tests, quizzes, and assignments you set up for them through Instructor Tools.

NOTE: If the course is not registered online, the students can still register online using the iTextiles™ CD key provided with every CD. However, they will only have access to the default option (Option A) content online.

e-Textbook

The e-Textbook is a multimedia based tool that provides an interactive learning experience to the tech savvy student of today. The textbook is structured into the conventional study units for basic textiles and each of them is accessible from any point in the textbook by clicking on the top menu bar:
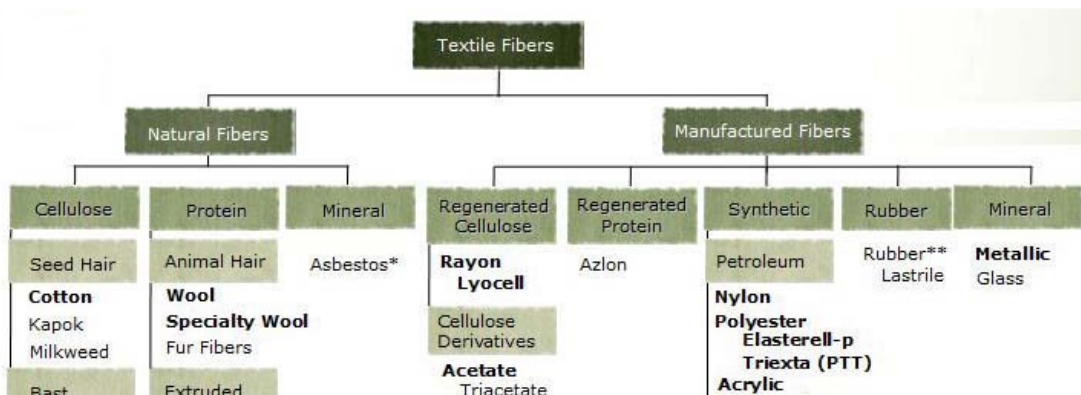
Introduction	Fibers	Yarns	Fabrics	Dyeing	Printing	Finishing	Specifications	Laws/Regulations

The e-Textbook makes extensive use of images, audio, and video components across all the material to empower students to learn in a digital environment that they are most comfortable in:

- Each image in the textbook is clickable and displays a magnified and/or high resolution image for greater detail
- Pronunciation of key textile terms is available by clicking on an audio (🔊) icon
- Video clips from actual factories showing key manufacturing processes are available by clicking on "Manufacturing Videos".

The material is organized to facilitate understanding as the course progresses from fibers, through all the various stages of the manufacturing process, to finishing. In addition each study unit has the following section to structure the information:

Classification

Fibers - Classification

	Natural Fibers			Manufactured Fibers				
Cellulose	Protein	Mineral	Regenerated Cellulose	Regenerated Protein	Synthetic	Rubber	Mineral
Seed Hair	Animal Hair	Asbestos*	**Rayon** **Lyocell**	Azlon	Petroleum	Rubber** Lastrile	**Metallic** Glass
Cotton	**Wool**				**Nylon**		
Kapok	**Specialty Wool**		Cellulose Derivatives		**Polyester** **Elasterell-p**		
Milkweed	Fur Fibers				**Triexta (PTT)**		
			Acetate Triacetate		**Acrylic**		
Bast	Extruded						

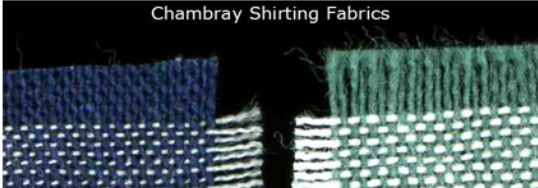## *Terminology*

Fabrics - Terminology

The definitions included in this section are taken from the Dictionary of Fiber and Textile Technology (7th edition) published by KoSa. KoSa, which is now called INVISTA, owns the rights to the dictionary and the definitions used in this software. Permission has been granted by INVISTA for the use of definitions owned by the company. We extend our gratitude for permission to use the definitions. To the extent possible, we have included images to assist students and enhance the learning process.

Antique Satin
Bengaline
Brocade
Canvas
Chambray
China Silk
Clip Mark
Course
Crocheting
Dimity
Double Knit

iTextiles 2.0 - Terminology: Chambray - Windows Internet Explorer

Chambray

Chambray is a plain weave fabric woven with colored warp yarns and white filling yarns. Chambray is a top weight fabric used for shirts, blouses, and dresses.

Chambray Shirting Fabrics

Performance, Use, and Care

Help | Home

Introduction   Fibers   Yarns   Fabrics   Dyeing   Printing   Finishing   Specifications   Laws/Regulations

INTRODUCTION

1. Overview
2. Performance
   2.1 Aesthetics
   2.2 Comfort
   2.3 Durability
3. Uses
4. Care
5. Environmental Considerations

Environmental Considerations

Environmental and health considerations in the textile and apparel industry have become increasingly important. Companies are addressing these concerns either voluntarily or as a result of government regulations and consumer demands.

- In the last few years, the demand for eco-friendly products has increased. Several retailers are marketing products that are environmentally friendly or use recycled materials.
- Caveat Emptor! (or buyer beware!). Unfortunately, in some cases, there are poorly worded advertisements promoting eco-friendly textiles; for example, items made of rayon, a manufactured fiber created from bamboo cellulose, were sold as bamboo, and promoted by some companies as a natural, eco-friendly fiber. The bamboo cellulose is a renewable resource, but the FTC requires that the fiber be labeled as rayon because it is made by a rayon process.
- Certification of a fiber or fabric as "Organic" is made by various organizations and is considered to be one way for companies to communicate with their customers and the public in general that they are using materials and processes that are environmentally friendly. (This certification can be very costly and difficult to obtain.)
- The FTC publishes a *Green Guide* that includes guidance on marketers' use of product certifications and seals of approval, "environmentally friendly" claims, "eco-friendly" claims, "renewable energy" claims, "renewable materials" claims, and "carbon offset" claims.

Regulations

- Government regulations often dictate the types of chemicals and processes that can be used for producing textile products. These regulations vary considerably around the world.
- In the last few decades there has been a more concerted effort in several countries to regulate chemicals and

The content is presented in a direct, bulleted format that enables students to understand concepts and applications easily.

All materials are accessible from the table of contents on the left bar for each study unit.

Instructor Tools

Online Test Administration

This is a brand new feature in iTextiles 2.0, which enables instructors to generate and administer quizzes and tests online. There is also a Grade Book that can be downloaded in Excel® format. The iTextiles™ online test bank has over 1,000 questions. These questions are:

- Used in generating quick quizzes for students in the Interactive Self Study section of myCourse
- Accessed by Instructors in Instructor Tools to generate tests and quizzes

NOTE: For Fall 2011 approximately 25% of the questions will be reserved for tests and quizzes generated by instructors and will not be used in the Interactive Self Study section.

There are four different types of questions in the test bank:

1.	Terminology	Tests understanding of textile terms
2.	Identify Images	Assesses ability to apply knowledge to identify fibers, yarns, fabrics and dyeing, printing, finishing processes
3.	Multiple Choice	Tests understanding of textile concepts and fundamentals
4.	True / False	Tests understanding of textile concepts and fundamentals

Online Quizzes and Tests

You can setup quizzes and tests online by clicking on "Online Test Administration" on the top menu bar after you login to iTextiles™ Instructor tools (www.itextiles.com/instructor):

You will be presented with the Online Test Administration home page:

Setup a new online quiz or test

Quiz – Click on the "quiz" button to generate a new quiz. A quiz is designed to assess the students' understanding of material within one study unit (fibers, yarns etc.) and can be used while the study unit is being taught or upon completion of the study unit. When you start a new quiz iTextiles™ will require you to select a study unit before moving forward. A quiz can:

- include questions from only one study unit
- have a maximum of 20 questions
- include all four question types
- be modified (delete/add questions) as long as the test has not been taken by a student (Note: Once a student has submitted a test the questions cannot be changed).

Test – Click on the "test" button to generate a new test. An online test can be setup in the same way as a quiz. A test can:

- include questions from one or more study units
- has no limit on the number of questions
- include all four question types
- be modified (delete/add questions) as long as the test has not been taken by a student (Note: Once a student has submitted a test the questions cannot be changed).

Online Test Administration - New Test Setup

* Title:	
* Duration: *(Number of minutes allowed to students to take the test)*	(minutes)
* Points assigned:	
* Open period for students to take the test online:	From:
	To:
* Status:	● Active ○ Inactive
* Required	

After you enter the basic information about the quiz or test the system will ask you to add questions to it from the test bank. Click on the "Select" box to add the question to the test.

Online Test Administration

Select questions for Test

Study Unit *   Fibers
Type of question *   Identify Images

Note: Click on question text to view answer options.

Select	Question / Lead Text
1. ☐	Raw material for
2. ☐	Raw material for
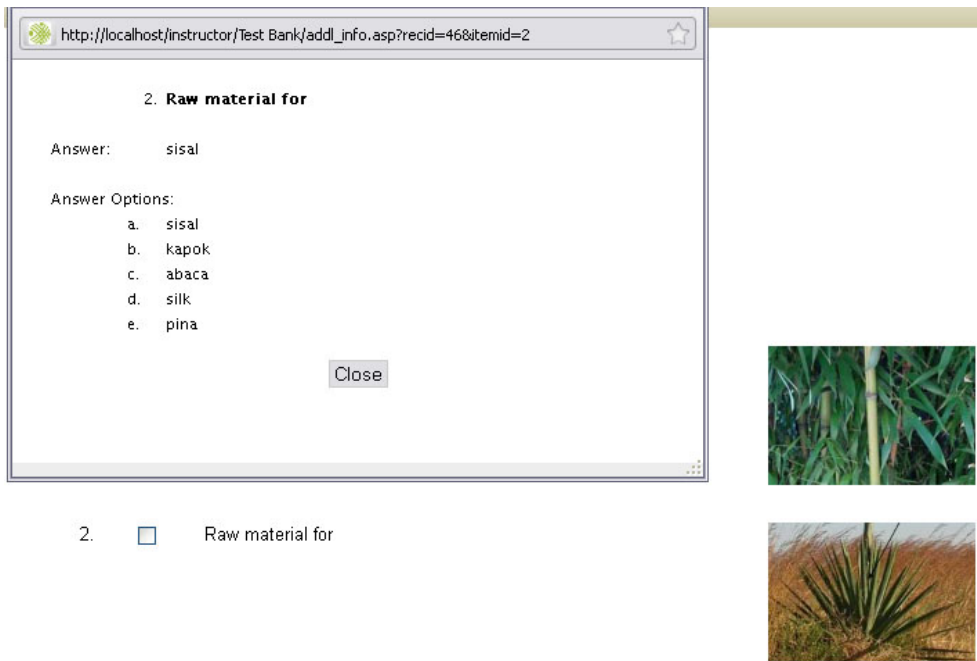
You can click on the question to view the correct answer and answer options:

View/change existing quiz or test

Select the test or quiz that you want to view/change from the dropdown list on the Online Test Administration home page:
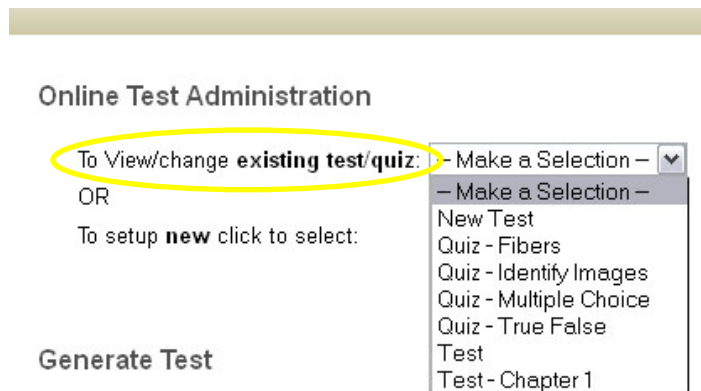
The view/change online screen will be displayed from where you can click on the "view/change questions" button.

View/change questions

Click on the "View/change questions" button and a popup window will display the list of questions on the quiz or test
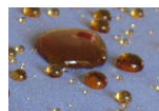
Change questions

IMPORTANT: You can only change questions as long as no student has taken the quiz or test online. This ensures that all students get the same questions although they are scrambled uniquely for each student.

Delete questions

Click in the "Delete" box next to the question
When you have selected all the questions you want to delete, click on the
"DELETE SELECTED QUESTION(S)" button.

Add questions

To add new questions to the exam/test, or quiz click on "Add new question(s)"
from the view/change screen. A screen will be displayed where you can select
the study unit and then the questions you want to add by clicking in the Add box
next to the question.

View Status

To view the status of a quiz or test, click on the "view status" button. The status
page will display a list of students (who have registered online with iTextiles™).

If the student has taken the test the "Date Completed" column will have the date/time the quiz or test was taken and the test score on the right. You can click on the name of the student to view the test or quiz submitted by the student.

Instructors have the ability to "take the test" if they would like to double check it before they open it up to students. The instructor's name also appears on the status screen. A "Delete" button appears next to the instructor's test to enable them to delete and retake it if they decide to change the questions on the test after the initial setup. (Note: The delete feature is not available for students.)
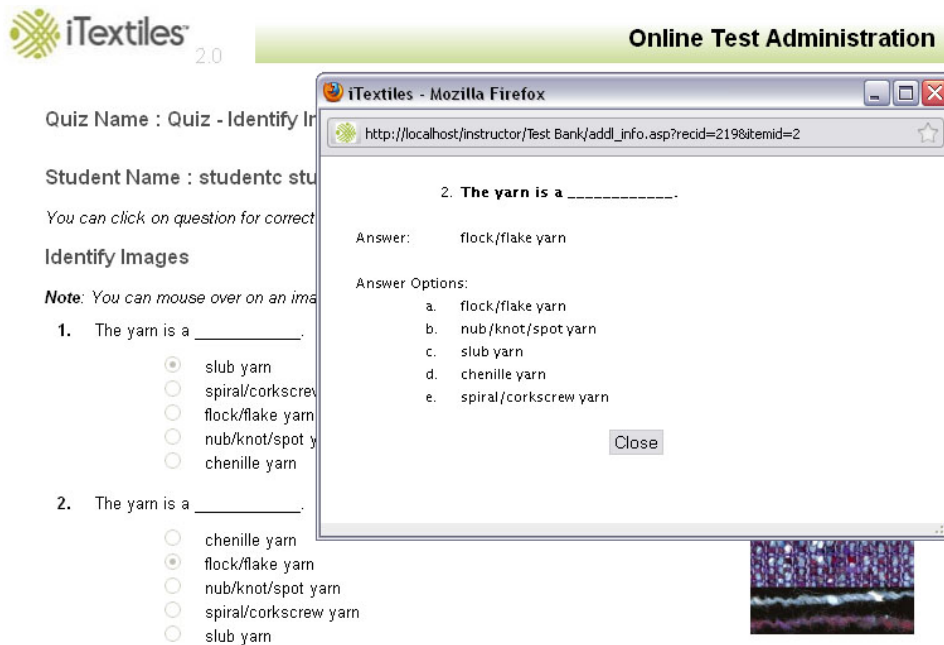
You can click on the question text to view the correct answer

Grade Book

You can go to the grade book to view the grades for students for online quizzes and tests for the course. Go to the Online Test Administration home page and click on quiz or test under Grade Book:

The system will generate the grade book for the course with all the students in the course in Excel® format and you will have the option to view it online or save/download it to your computer:

Online Test Administration

Generate Test

This feature has been continued unchanged from the earlier version.

"Generate Test" is designed for instructors who would like to access the iTextiles test bank but want to administer the tests in hard copy format or choose to use

their institution's systems (example: Blackboard, Moodle etc.). They can start by selecting a study unit from the drop down list:

The system will then display all the questions for that type of test and you can select the ones you want to include on the test by clicking on the select box next to each question.
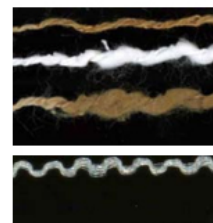
After you have selected all the questions you want on the test you can click on the "Generate Test" button and you will receive an email with the test as an attachment in WORD® format.

GENERATE TEST (It will take a minute or so to generate the test)

Instructor Tools

Assignments

The experiments and exercises provided in the section are to assist you in setting up assignments that students can do independently to get hands-on exposure to the concepts presented in iTextiles™.

To view the experiments and exercises and setup assignments log-in to iTextiles™ Instructor tools (www.itextiles.com/instructor) click on "Assignments" on the top menu bar:
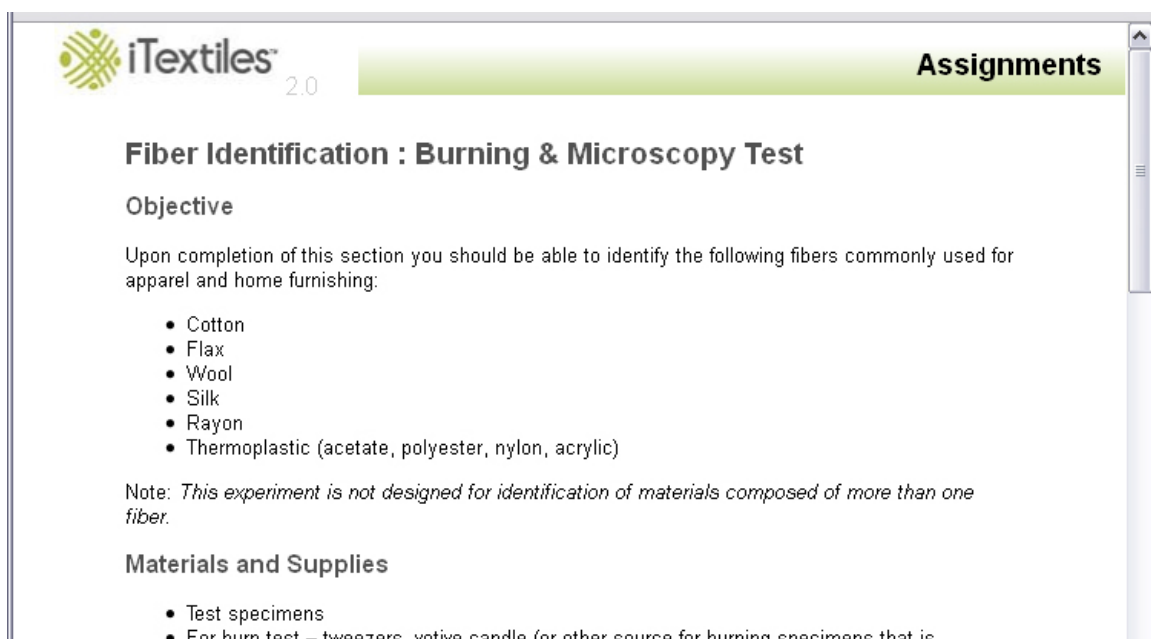
On the screen displayed select the study unit and iTextiles™ will display a list of experiments and exercises for that unit.

Select an experiment

To include an experiment as an assignment for your course simply click in the "Select" box next to it. You can click on the Title if you want to see it in greater detail. The experiment will be displayed in a popup window and includes detailed information about materials needed, procedure etc. At the bottom of the page is a "Results" section where a formatted answer sheet is provided. Students can print it, fill it in, and turn it in to the instructor.

If you want to see a list of the assignments you have already setup for your course you can click on the "myCourse Assignment List" button and iTextiles™ will display the list as follows: To remove the assignment for the list simply click in the Delete Box.

Select an online exercise

Online exercises are different from experiments in that they can be completed and graded online. There are two different types of exercises that can be completed online:

- Identify images
- Identify swatch samples (from the swatch kit being used for the course)

NOTE: You will need to select the images or enter the swatch number to complete the setup for these exercises.

To include an online exercise as an assignment for your course simply click in the "Select" box next to it.

Setup "Identify Image" exercises

When you click in the "Select Box" you will be presented with a screen where you will be asked to select images that you want the students to use for the exercise. You can select as many images as you want but the system will limit the exercise to 10 images by randomly selecting 10 images from the set you have selected for the exercise. It is recommended that you select at least 15 images to enable the system to scramble images uniquely for each student. If you select less than 10 images then every student will use the same set of images for the exercise although they will be scrambled differently for each student.

Setup "Identify Swatch Sample" exercises

When you click in the "Select Box" you will be presented with a screen where you will be asked to enter swatch numbers from the swatch kit being used for the course. You can enter a maximum of 15 swatch numbers but the system will limit the exercise to 10 swatch numbers for each student. It is recommended that you enter more than 10 swatch numbers to enable the system to scramble the swatch numbers uniquely for each student. If you enter less than 10 swatch numbers then every student will use the same set of swatch numbers for the exercise although they will be scrambled differently for each student.

Grade Book

You can go to the grade book to view the grades for online exercises setup for the course. The system will display a matrix that lists all the assignments on top and the names of students on the left.

Instructor Tools

Lectures

To assist you and facilitate the presentation of content in the classroom, iTextiles™ provides Lectures (in PDF format). Each study unit has several lectures and you will have access to the version based upon the option (A, B, or C) you selected at the time of online Instructor and Course setup.

To view, open, or download the lectures log-in to iTextiles™ Instructor tools (www.itextiles.com/instructor) click on "Lectures" on the top menu bar:
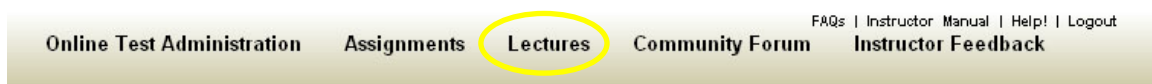
You will be presented with a list of Lectures and can click on any one of them to open the PDF file.

Simply click on the name of the lecture to open, view and/or download the lecture for use in the classroom.

NOTE: If you feel you require additional customization to meet your specific requirements, please contact us at admin@itextiles.com and we will be glad to discuss with you how best to support your needs.

Instructor Tools

Community Forum

Community Forum is a place where iTextiles™ instructors share ideas to enhance and enrich the teaching/learning of textiles. Please feel free to use the material provided as the contributors have very kindly agreed to share it. The iTextiles™ team would appreciate if you acknowledge the source and the name of the contributor when you use the material.

To access the material in the community forum log-in to iTextiles™ Instructor tools (www.itextiles.com/instructor) and click on "Community Forum" on the top menu bar:

You will be presented with a list of the material contributed to the community forum by instructors:
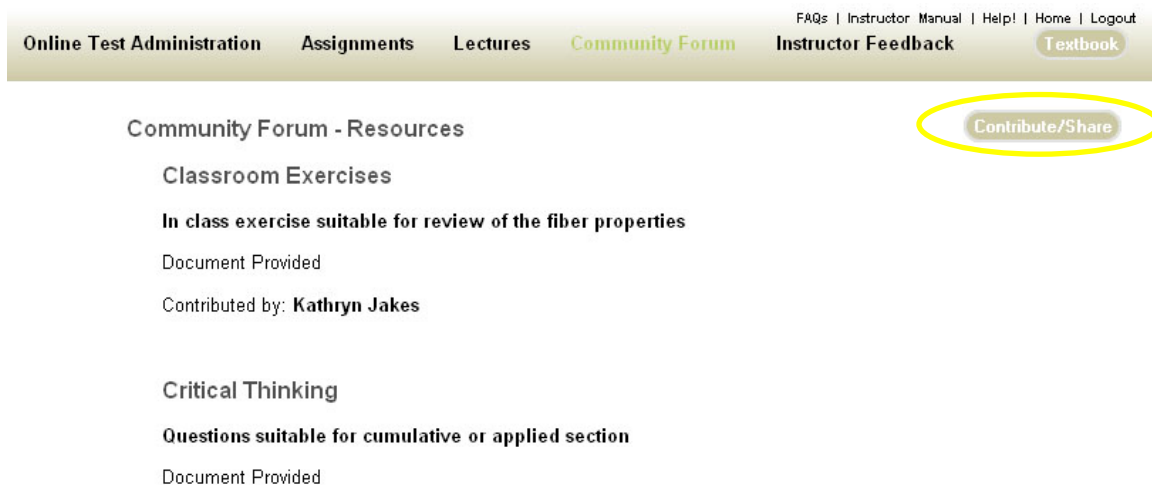
If you would like to contribute or share ideas please click on the "Contribute/Share" button and submit the material for review, approval, and inclusion in the community forum on the following screen:

We would greatly appreciate your support as we build this community forum for the continued improvement of the teaching/learning of textiles.

Instructor Tools

Instructor Feedback

Your feedback is extremely important to us. It helps us to make sure that iTextiles™ continues to be a value adding tool for you.

We want to provide you the tools you need to facilitate the process of preparing materials for the class, "teaching" the material, and evaluating students' understanding of the material presented. We appreciate your continued support and hope that you will provide us your feedback.

Log-in to Instructor Tools (www.itextiles.com\instructor) and click on "Instructor Feedback" on the top menu bar:

Provide your comments, criticisms, and compliments as often as you can.

Thank you!

myCourse

myCourse is a password protected area on the internet where students can access customized content based upon the option you selected at the time of completing the Instructor and Class Setup online. You will need to provide students with the iTextiles Registration Code that you received on the email after you completed the online setup. This code links the student to the customization option you selected and will be required by them when they register online.

NOTE: If you choose not to setup your class online students will still be able to register online but will have access to resources available under Option A (the default option).

Students have access to the following enhanced learning tools in myCourse.

Interactive Self Study

Interactive Self Study (ISS) allows students to review the material in the form of short, quick quizzes that they can take online on their own. No record is maintained of how they scored and students can take them as many times as they want. ISS provides them instant feedback and allows students to determine how well they have understood the material. All the ISS quizzes use the multiple choice format and draw from the iTextiles™ Test Bank which as over 1,000 questions. ISS randomly picks 10 questions and shuffles them, as well as the answers, so students cannot "memorize" answers.

Lectures

The material in the electronic textbook is also available in a lecture format. These "lectures" are available to students as PDF documents and have a large number of annotated images to explain key points. They can print them out, bring them to the classroom, and take notes on them during lectures.
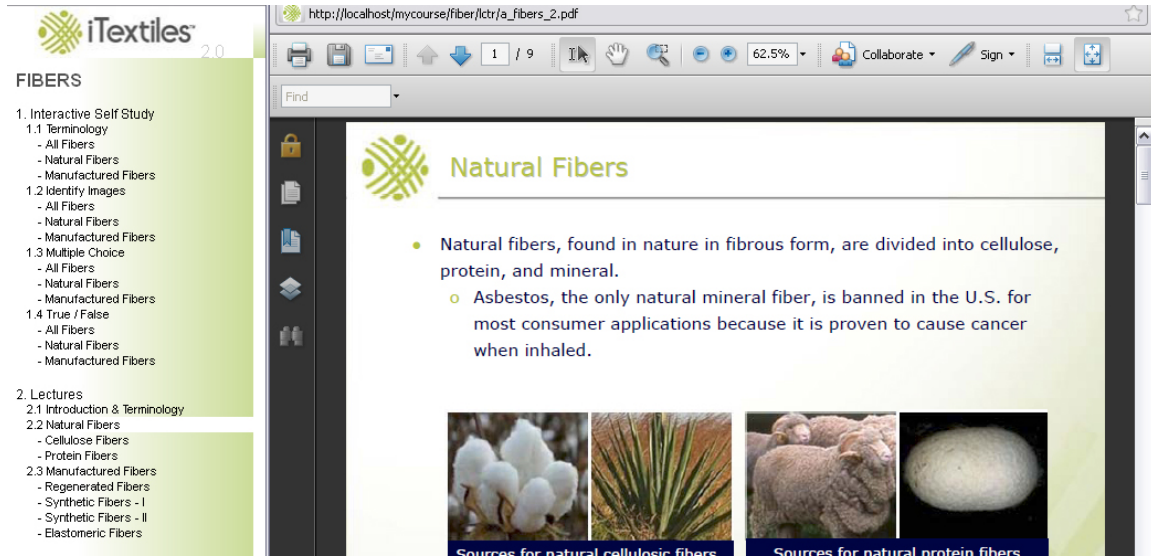
NOTE: iTextiles provides instructors the option to restrict access to the lectures (in PDF format) for students for their class by submitting a request to the iTextiles administrator (admin@itextiles.com).

Quizzes & Tests

The quizzes and tests you setup for the students in Instructor Tools are accessible to the students in myCourse. When they login to myCourse the first thing they see is a list of any "pending" quizzes, tests, and assignments. They have the option to take the quiz, or test by clicking on the "Go to .." highlighted text.

Assignments

The assignments (experiments and exercises) you setup for the students in Instructor Tools are accessible to the students in myCourse. When they login to myCourse the first thing they see is a list of any "pending" quizzes, tests, and online exercises They have the option to complete the online exercise by clicking on the "Go to .." highlighted text. For experiments and exercise that are not online they can go the Assignments page from the home page of "myCourse" and obtain information on how to complete them.