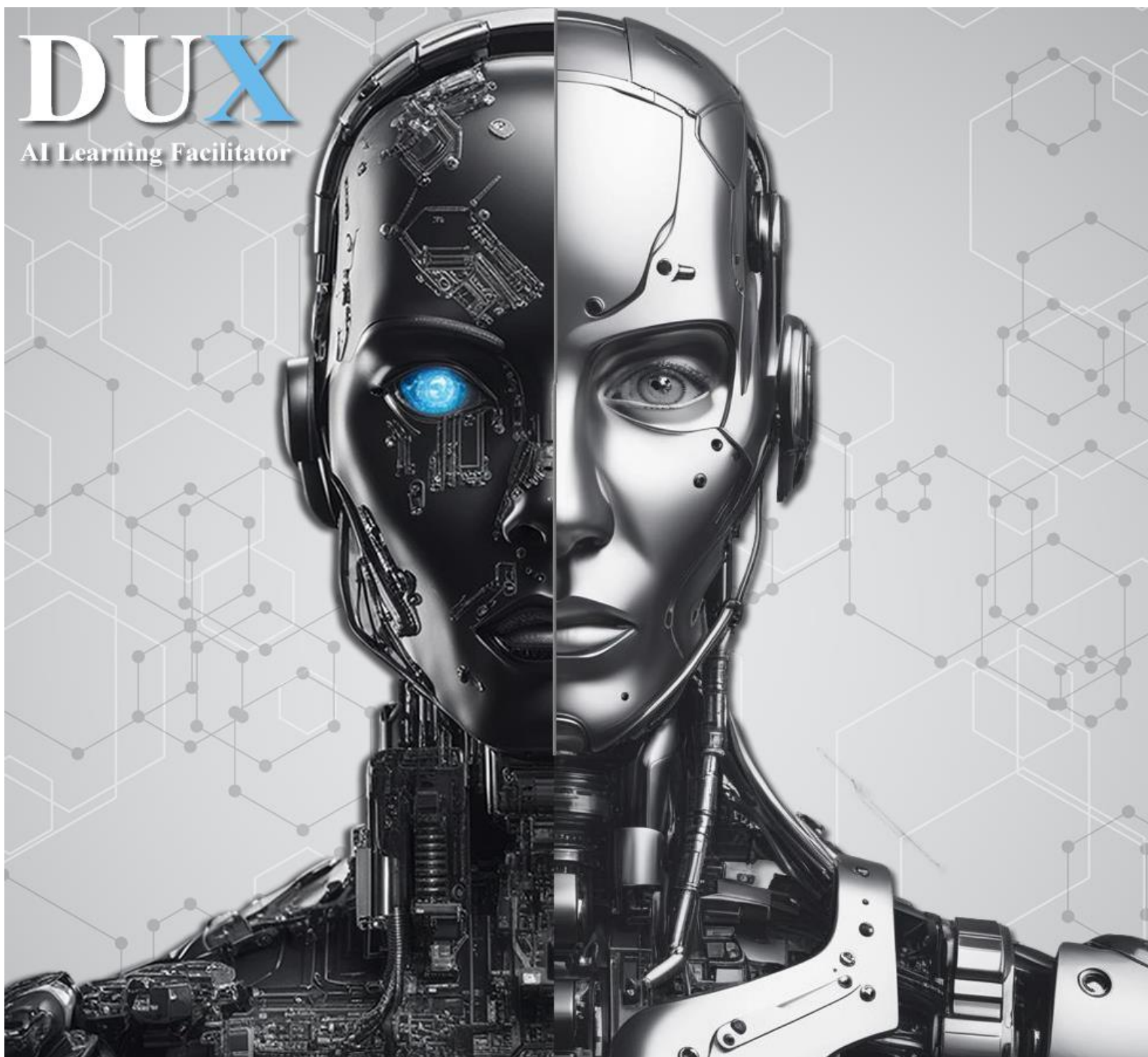


AI Prof. DUX



INSTRUCTOR'S MANUAL

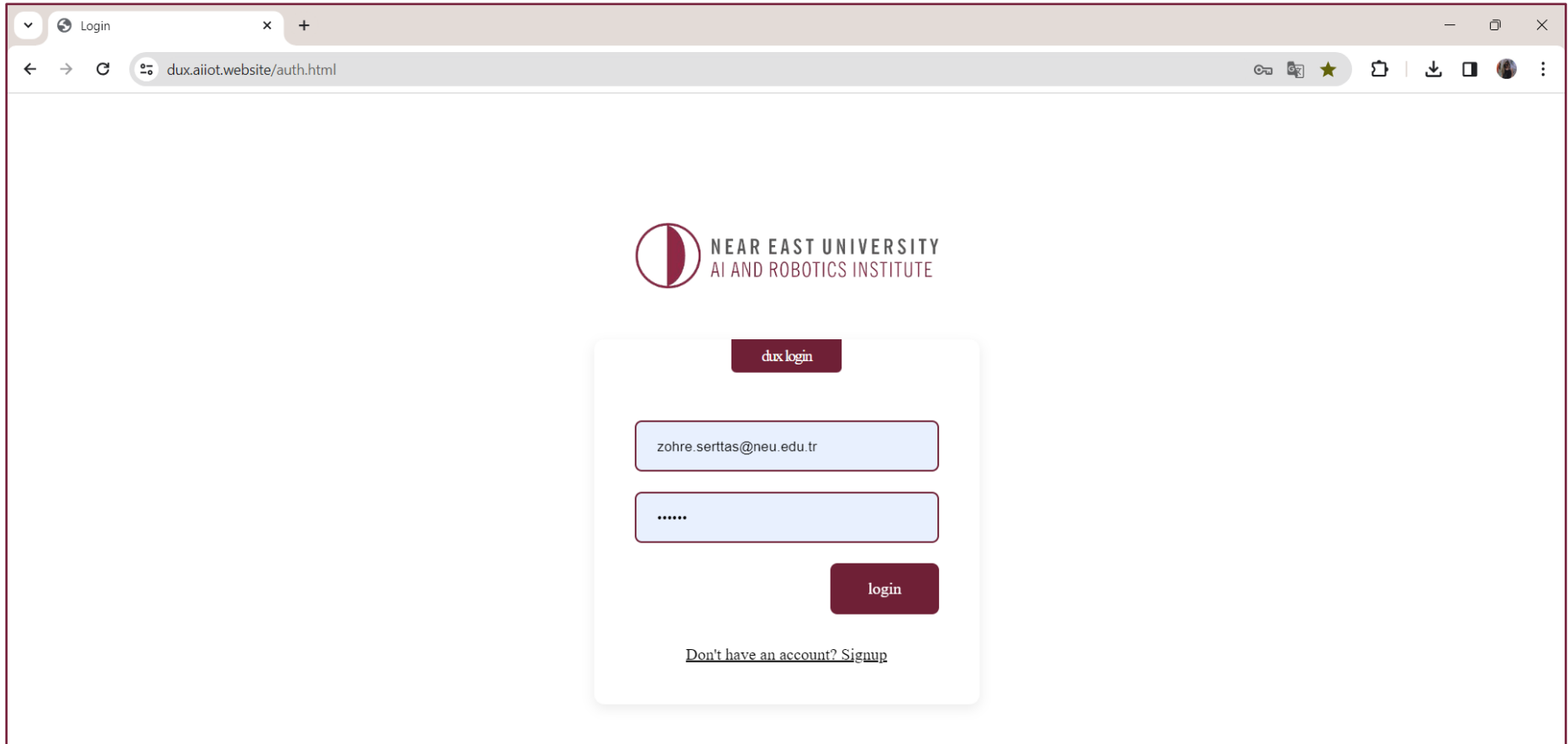
1. INTRODUCTION

Welcome to the DUX learning management system

This training will guide you through the process of setting up your course to be delivered by DUX.

- DUX will automatically generate each of the quizzes when the deadline arrives. It will propose multiple-choice questions (MCQs) and free-response questions to provide a reliable assessment of students' understanding of the subject matter. Grading is also instant and automatic.
- Students can access course materials as often as they wish, and can take the same course multiple times, but only the first attempt is valid.
- You can provide DUX with links to textbooks and websites and constrain it to base its presentation of course content on these sources. By doing just that, every time it uses information from a textbook, it cites the page number that is the source of the information.
- DUX's engine runs in the background, tracking student behavior and identifying learning styles such as visual, reading/writing, logical and social. It gradually adapts itself to the learning styles of individual students. As a result, no two students are given the same test, even though the same concepts are assessed.
- DUX is available in two versions: online (fast, up-to-date) and a desktop version that does not require internet access and can be installed on a Personal Computer (PC). From a flash memory device.
- With a simple click you can change the language of DUX and use it in your preferred language.
- You are invited to provide feedback when you use DUX. The social connectivity feature allows you to interact with it via WhatsApp, Facebook, LinkedIn and X (formerly Twitter). To join the discussion about DUX with people from all over the world, please visit <https://dux.aiiot.website/forum.html>.

2. COURSE MANAGEMENT



The screenshot shows a web browser window with the address bar displaying "dux.aiiot.website/auth.html". The page content includes the logo of Near East University AI and Robotics Institute, which consists of a circular emblem with a vertical line and the text "NEAR EAST UNIVERSITY AI AND ROBOTICS INSTITUTE". Below the logo is a white login form with a dark red "dux login" button at the top. The form contains two input fields: the first is a text field with the email address "zohre.serttas@neu.edu.tr", and the second is a password field with masked characters ".....". A dark red "login" button is positioned below the password field. At the bottom of the form, there is a link that reads "Don't have an account? Signup".

<https://dux.aiiot.website/auth.html> Please log in to the system from the address.

2. COURSE MANAGEMENT (Creating a new course)

The screenshot shows the Admin Panel interface for Course Management. The browser address bar displays 'dux.aiiot.website/adminPanel/home.php'. The user is logged in as 'ZÖHRE SERTTAŞ YIRTICI (Teacher)'. The 'Admin Panel' sidebar on the left contains various navigation options, with 'Course Management' highlighted and numbered '1'. The 'Course Management' section has several tabs: 'Create Course' (numbered '2'), 'Edit course', 'Course Textbooks', 'Course Web Resources', and 'Create Presentation'. The 'Create Course' tab is active, showing a form with the following fields: 'Course Code' (numbered '3'), 'Course Name' (numbered '4'), and 'Semester' (a dropdown menu). A 'Generate Lecture Titles' button (numbered '5') is located below the form. To the right of the form is a 'Lecture Topics' section with six red bars labeled 'Week 1 Topic' through 'Week 6 Topic'. A red informational box at the top of the 'Create Course' section states: 'A course is taught for 14 weeks in a semester. After specifying the course code and course title, click on create. Dux will generate a 14 week course outline for you. Week 9 is possibly 'Mid Term Exam' and week 14 is 'Final Exam'. If need be, edit the outline and save.'

- 1- To create a course, first go to the **"Course Management"** tab and follow the steps below:
- 2- Go to the **"Create Course"** tab
- 3- Enter the course code
- 4- Enter Course Title
- 5- Click **"Create"** and wait for the draft to be created.

Not: If you are not satisfied with the automatically generated draft, click "Create again" to generate a new draft or manually edit it to suit your purpose.

2. COURSE MANAGEMENT (Create Course Objectives)

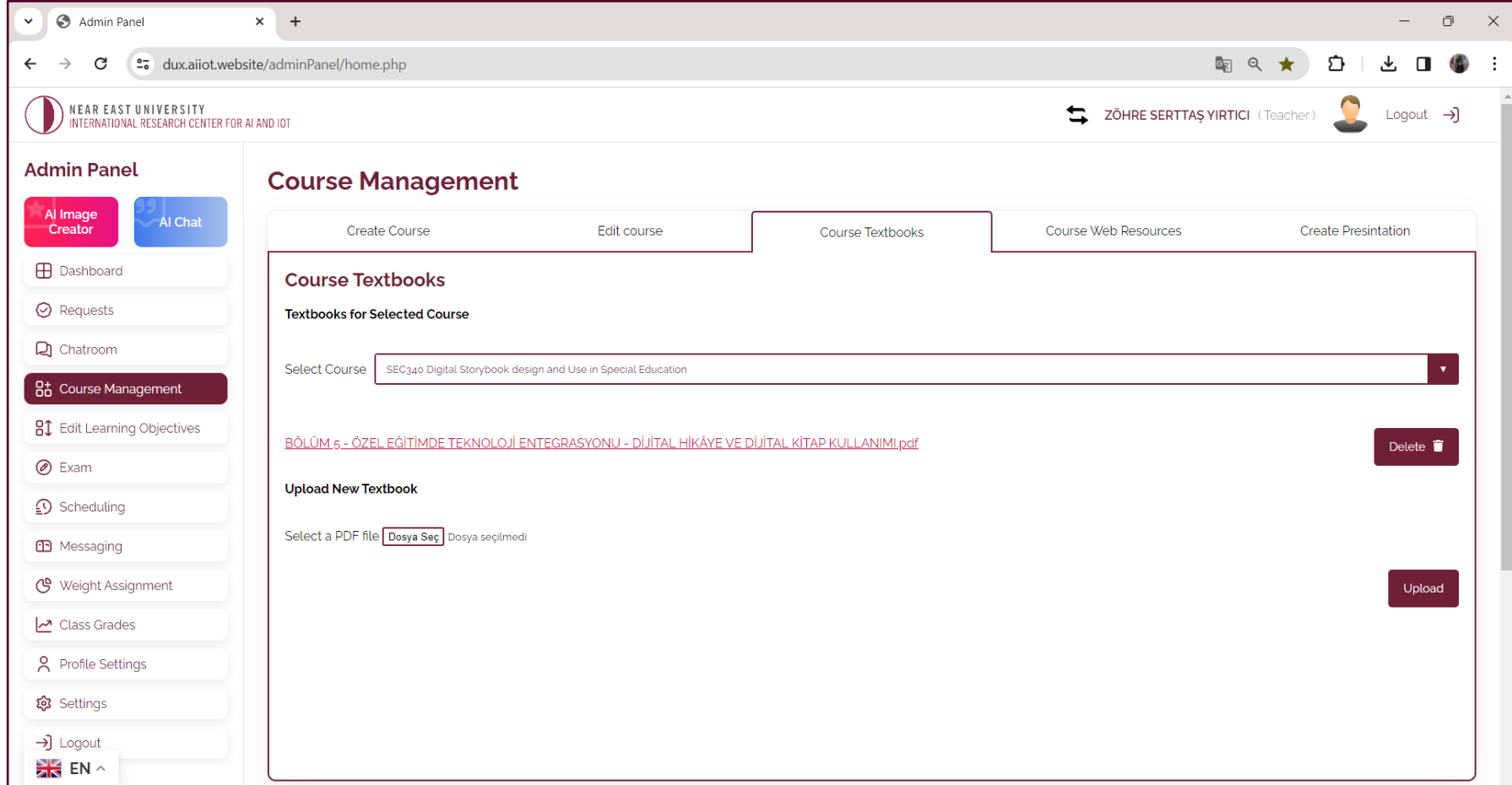
The screenshot displays the 'Admin Panel' interface for 'NEAR EAST UNIVERSITY INTERNATIONAL RESEARCH CENTER FOR AI AND IOT'. The user is logged in as 'ZÖHRE SERTTAŞ YIRTICI (Teacher)'. The 'Course Management' section is active, with the 'Edit Course' tab selected (labeled 1). The 'Edit Course' tab (labeled 2) shows a dropdown menu for 'Select Course' with 'SEC340 Digital Storybook design and Use in Special Educa' selected. Below this are fields for 'Course Code' (SEC340) and 'Course Name' (SEC340 Digital Storybook design and Use in Special). A 'Delete Course' button is present. The 'Lectures' section (labeled 3) lists several topics, each with a checked checkbox: 'Dijital hikaye kitabı tasarımına giriş', 'Benefits of Digital Storybooks in Special Education', 'Principles of Universal Design for Learning', 'Selecting Appropriate Content and Themes', 'Creating Engaging and Interactive Storytelling', 'Incorporating Multimedia Elements', and 'Assessment and Progress Monitoring'.

1- Go to the **"Edit Course"** tab.

2- Select your course from the drop-down menu.

3- Click the checkbox next to each lesson title (**click twice**). This will automatically create a set of 18 learning objectives for that lesson. If you uncheck the box, the objectives will be deleted. To see the created objectives, go to the **"Edit Learning Objectives"** tab in the left panel of the page. Note: Click "Save Updates" when you are done.

2. COURSE MANAGEMENT (Upload Textbooks)



The screenshot displays the Admin Panel of the DUX system. The browser address bar shows the URL `dux.aiiot.website/adminPanel/home.php`. The user is logged in as ZÖHRE SERTTAŞ YIRTICI (Teacher). The main navigation menu includes options like AI Image Creator, AI Chat, Dashboard, Requests, Chatroom, Course Management (highlighted), Edit Learning Objectives, Exam, Scheduling, Messaging, Weight Assignment, Class Grades, Profile Settings, Settings, and Logout. The Course Management section is active, showing tabs for Create Course, Edit course, Course Textbooks (selected), Course Web Resources, and Create Presentation. Under the Course Textbooks tab, there is a section for 'Textbooks for Selected Course' with a dropdown menu set to 'SEC340 Digital Storybook design and Use in Special Education'. A list of textbooks is shown, including 'BÖLÜM 5 - ÖZEL EĞİTİMDE TEKNOLOJİ ENTEGRASYONU - DİJİTAL HİKÂYE VE DİJİTAL KİTAP KULLANIMI.pdf' with a Delete button. Below this, there is an 'Upload New Textbook' section with a file selection button labeled 'Dosya Seç' and an Upload button.

- DUX uses the textbooks you provide to deliver content to students.
- When responding to students from the textbook, they can indicate the specific textbook and page number.

2. COURSE MANAGEMENT (Upload Textbooks)

The screenshot shows the Admin Panel interface for Course Management. The top navigation bar includes the user's name 'ZÖHRE SERTTAŞ YIRTICI (Teacher)' and a 'Logout' button. The sidebar on the left contains various administrative options, with 'Course Management' highlighted. The main content area is titled 'Course Management' and has several tabs: 'Create Course', 'Edit course', 'Course Textbooks' (highlighted with a red box and the number 1), 'Course Web Resources', and 'Create Presentation'. Under the 'Course Textbooks' tab, there is a section 'Textbooks for Selected Course' (highlighted with a red box and the number 2) which includes a dropdown menu for selecting a course (currently showing 'SEC340 Digital Storybook design and Use in Special Education') and a list of textbooks with a 'Delete' button. Below this is the 'Upload New Textbook' section (highlighted with a red box and the number 3), which has a file selection area (showing 'Dosya Seç' and 'Dosya seçilmedi') and an 'Upload' button (highlighted with a red box and the number 4).

- 1- Go to the " **Course Books**" tab.
- 2- Select your course from the drop-down menu.
- 3- Select the PDF file of the textbook you want to upload for the lesson.
- 4- Click on Install.

Note: You can delete a textbook using the Delete button. You can upload multiple text books.

2. COURSE MANAGEMENT (Specify useful websites)

The screenshot shows a web browser window with the URL `dux.aiiot.website/adminPanel/home.php`. The page header includes the logo for NEAR EAST UNIVERSITY INTERNATIONAL RESEARCH CENTER FOR AI AND IOT and the user profile for ZÖHRE SERTTAŞ YIRTICI (Teacher) with a Logout button. The main content area is titled "Course Management" and features a navigation bar with tabs: "Create Course", "Edit course", "Course Textbooks", "Course Web Resources" (which is active), and "Create Presentation". Below the tabs, the "Course Web Resources" section is displayed. It includes a "Web resources for Selected Course" section with a "Select Course" dropdown menu. Below that is an "Enter New Web Resource" section with a text input field labeled "Name a web resource" and a "Save" button.

- DUX may use the websites you specify as a source of information to prepare the content presented during the course.
- It will cite the website when it uses it to formulate an answer to a question.

2. COURSE MANAGEMENT (Specify useful websites)

The screenshot shows the Admin Panel interface for Near East University. The main content area is titled "Course Management" and features a tabbed interface with the following tabs: "Create Course", "Edit course", "Course Textbooks", "Course Web Resources", and "Create Presentation". The "Course Web Resources" tab is selected. Below the tabs, there is a section for "Course Web Resources" with a "Web resources for Selected Course" heading. A dropdown menu labeled "Select Course" is present. Below that, there is a section for "Enter New Web Resource" with a text input field labeled "Name a web resource" and a "Save" button.

1- Go to the "Course Web Resources" tab.

2- Select your course from the drop-down menu.

3- Enter links to websites that you think are useful for the lesson. For example, <https://wikipedia.org/pattern-recognition>

4- Click "Save".

Note: You can enter as many web links as you wish. This should be done one at a time.

3. EDIT LESSON OBJECTIVES (Add Multimedia Content)

The screenshot shows the 'Update Learning Objectives' page in the Admin Panel. The sidebar on the left contains navigation options: AI Image Creator, AI Chat, Dashboard, Requests, Chatroom, Course Management (highlighted with a red box and the number 1), Edit Learning Objectives (highlighted with a red box and the number 2), Exam, Scheduling, Messaging, Weight Assignment, Class Grades, Profile Settings, Settings, and Logout. The main content area has a red header with the text 'NOTE: A 3-hour lecture is divided into 6 30-minute phases' and a red button labeled 'Fetch the information of the phase to be edited'. Below this is a form with the following fields: Course (dropdown menu with '2' and 'SEC340 Digital Storybook design and Use in Special Education'), Lecture (text input with 'Dijital hikaye kitabı tasarımına giriş'), Phase (dropdown menu with 'PH3389; Phase 1'), Course ID (text input with 'SEC340'), Lecture Title (text input with 'Dijital hikaye kitabı tasarımına giriş'), Phase ID (text input with 'Lecture 1'), Outcome 1 (text input with 'Dijital hikaye kitabı tasarımının kullanım alanlarını keşfeder.'), Outcome 2 (text input with 'Dijital hikaye kitabı tasarımının avantajlarını ve dezavantajlarını analiz eder.'), and Outcome 3 (text input with 'Dijital hikaye kitabı tasarımı ile geleneksel kitap tasarımını karşılaştırır.'). A red 'Add Objective' button is located at the bottom right of the form.

Here you can view and customize the details of the automatically generated learning objectives.

- 1- Go to the **"Edit Learning Objective"** tab.
- 2- Select the course from the drop-down menu.

3. EDIT LESSON OBJECTIVES (Add Multimedia Content)

The screenshot shows a web browser window with the URL `dux.aiiot.website/adminPanel/home.php`. The page header includes the logo of Near East University and the text "NEAR EAST UNIVERSITY INTERNATIONAL RESEARCH CENTER FOR AI AND IOT". The user is logged in as "ZÖHRE SERTTAŞ YIRTICI (Teacher)" and has a "Logout" button.

The main content area is titled "Update Learning Objectives". It features a red banner with the note: "NOTE: A 3-hour lecture is divided into 6 30-minute phases". Below this is a red button labeled "Fetch the information of the phase to be edited".

The form contains the following fields:

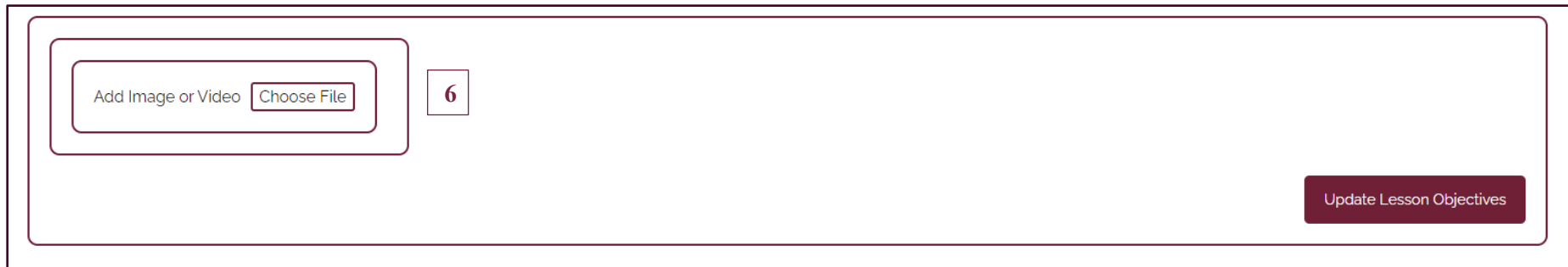
- Course: SEC340 Digital Storybook design and Use in Special Education
- Lecture: Dijital hikaye kitabı tasarımına giriş
- Phase: PH3389: Phase 1
- Course ID: SEC340
- Lecture Title: Dijital hikaye kitabı tasarımına giriş
- Phase ID: Lecture 1
- Outcome 1: Dijital hikaye kitabı tasarımının kullanım alanlarını keşfeder.
- Outcome 2: Dijital hikaye kitabı tasarımının avantajlarını ve dezavantajlarını analiz eder.
- Outcome 3: Dijital hikaye kitabı tasarımı ile geleneksel kitap tasarımını karşılaştırır.

On the right side of the form, there are three numbered boxes: "3" next to the Lecture field, "4" next to the Phase field, and "5" next to the "Add Objective" button.

3- Select the course to organize.

4- Select the phase to organize (Each lesson has six phases and each phase has three objectives.

5- Select "Add Goal" to add more Goals.



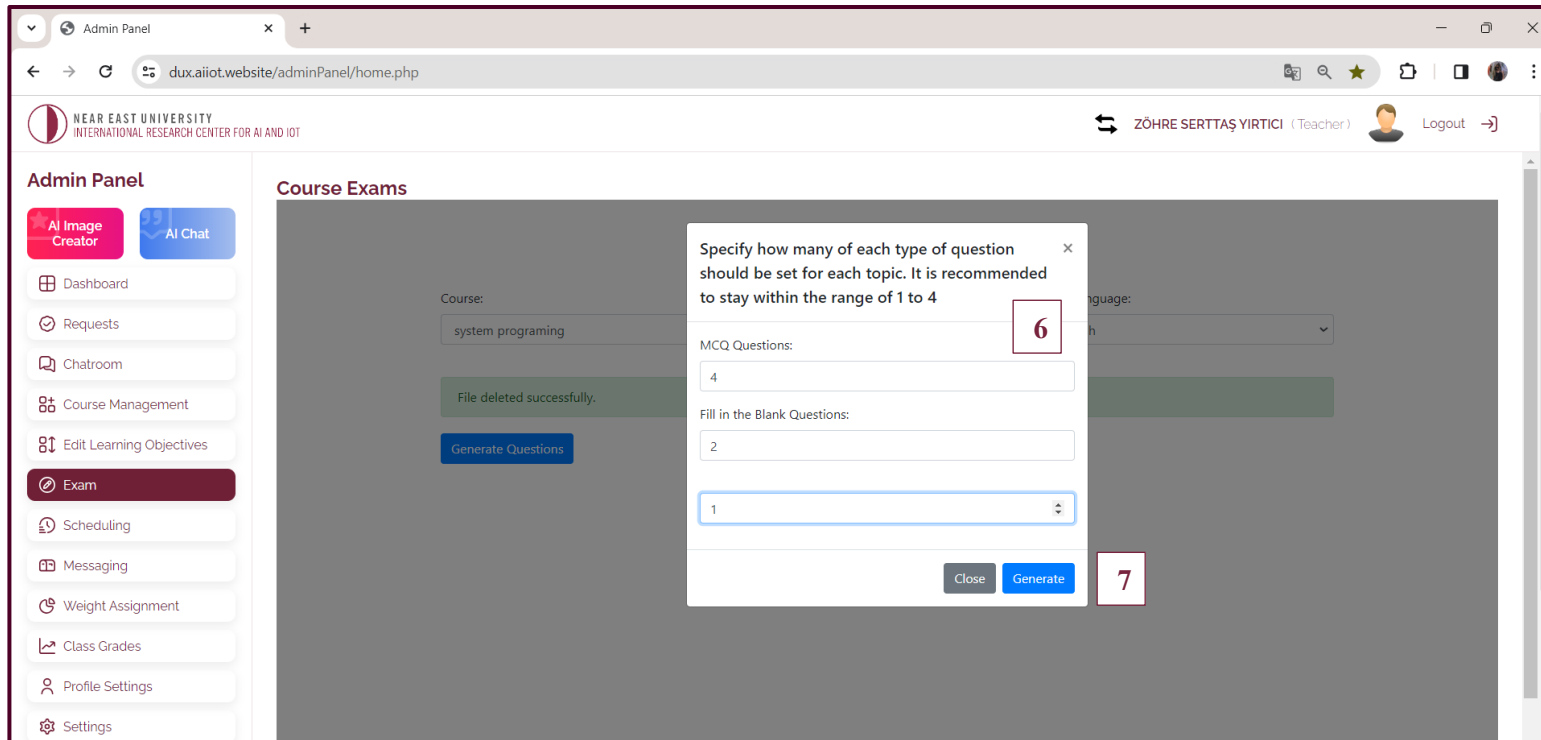
6- Select the video or graphic to upload and then click "**Update Lesson**"

Note: One video can be uploaded for each of the six stages of a lesson.

4. CREATE EXAMS (Create exams for your course)

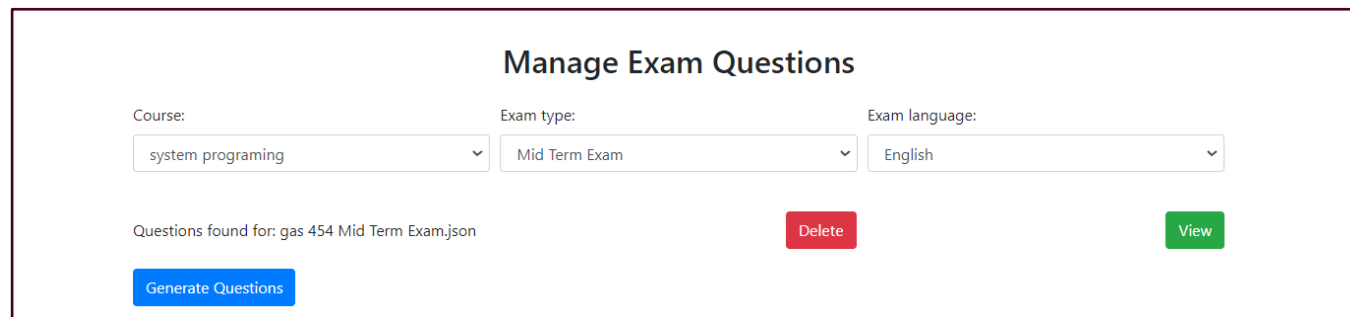
The screenshot shows a web browser window with the URL `dux.aiot.website/adminPanel/home.php`. The page header includes the logo for NEAR EAST UNIVERSITY and the user profile for ZÖHRE SERTTAŞ YIRTICI (Teacher). The left sidebar, titled 'Admin Panel', contains several menu items: AI Image Creator, AI Chat, Dashboard, Requests, Chatroom, Course Management, Edit Learning Objectives, Exam (highlighted with a red box and labeled '1'), Scheduling, Messaging, Weight Assignment, Class Grades, Profile Settings, and Settings. The main content area is titled 'Course Exams' and 'Manage Exam Questions'. It features three dropdown menus: 'Course:' (labeled '2') with 'system programing' selected, 'Exam type:' (labeled '3') with 'Mid Term Exam' selected, and 'Exam language:' (labeled '4') with 'English' selected. Below these menus is a blue button labeled 'Generate Questions' (labeled '5').

- 1- Go to the **"Exam"** tab.
- 2- Select your course from the drop-down menu.
- 3- Select the exam type (Midterm / Final Exam).
- 4- Select the exam language.
- 5- Select **"Create an exam"**.



6- Specify the number of question types (For Example: 4 multiple choice, 2 fill-in-the-blank and 1 open-ended question, etc.)

7- Click on Create. And your exam is ready!



You have the possibility to choose a date when each of the 12 courses of the semester will be active. To reschedule a lesson, simply select a new date and all interested students will receive a notification about the change.

5. SCHEDULE (Set Lesson Dates)

The screenshot displays the 'Admin Panel' interface for scheduling lessons. The browser address bar shows 'dux.aiiot.website/adminPanel/home.php'. The sidebar on the left contains various navigation options, with 'Exam' highlighted by a red box and labeled '1'. The main content area is titled 'Choose a date of week when each lesson will be active.' and features a course selection dropdown set to '2' (SEC340 Digital Storybook design and Use in Special Education). Below this, there is a grid of 14 lesson cards, each with a 'Select Date and Time' button. A red box highlights the date selection button for Week 1 (labeled '3').

Week	Lecture	Topic	Action
Week 1	Lecture 1	Dijital hikaye kitabı tasarımına giriş	Select Date and Time
Week 2	Lecture 2	Benefits of Digital Storybooks in Special Education	Select Date and Time
Week 3	Lecture 3	Principles of Universal Design for Learning	Select Date and Time
Week 4	Lecture 4	Selecting Appropriate Content and Themes	Select Date and Time
Week 5	Lecture 5	Creating Engaging and Interactive Storytelling	Select Date and Time
Week 6	Lecture 6	Incorporating Multimedia Elements	Select Date and Time
Week 7	Lecture 7	Assessment and Progress Monitoring	Select Date and Time
Week 8	Lecture 8	Adapting Storybooks for Individual Needs	Select Date and Time
Week 9	Lecture 9	Mid Term Exam	Select Date and Time
Week 10	Lecture 10	Differentiating Instruction with Digital Storybooks	Select Date and Time
Week 11	Lecture 11	Collaborative Storytelling and Peer Interaction	Select Date and Time
Week 12	Lecture 12	Promoting Language and Literacy Skills	Select Date and Time
Week 13	Lecture 13	Using Storybooks to Address Social and Emotional Learning	Select Date and Time
Week 14	Lecture 14	Final Exam	Select Date and Time

1- Go to the "Schedule" tab.

2- Select the course from the drop-down menu.

3- Click on the date bar and a date/time calendar will open. Select the date and time of the lesson in question.

4- When the date of the first week is selected, the other weeks are automatically calculated and filled in by the system and these programs automatically calculate and fill in appear in the program of courses.

Note: Click "Save Updates" when you are done

6. ASSIGN AVERAGES (Assign averages to different assessment types)

Quizzes are given at the end of each course. The average grade of the quizzes is announced at the end of the semester. Enter a percentage and include it as part of the final grade. or you can decide to delete it by entering 0.

The screenshot displays the 'Assign Weights' interface in the Admin Panel. The left sidebar contains a menu with 'Weight Assignment' highlighted by a red box labeled '1'. The main content area is titled 'Assign Weights' (labeled '2') and includes a course selection dropdown set to 'SEC340 Digital Storybook design and Use in Special Education'. Below this are three rows of input fields and total percentage bars: Weekly Evaluation (2%) with a total of 24%, Midterm Exam (36%) with a total of 36%, and Final Exam (40%) with a total of 40%. A 'Weights Total (%)' bar shows 100%. A 'Save Weights' button is located at the bottom right.

Assessment Type	Assigned Percentage (%)	Total Percentage (%)
Weekly Evaluation	2	24
Midterm Exam	36	36
Final Exam	40	40
Weights Total	-	100

1- Go to the "Assign averages" tab.

2- Select the course to which you want to assign exam averages.

The screenshot shows the 'Assign Weights' interface for the course 'SEC340 Digital Storybook design and Use in Special Education'. The 'Weekly Evaluation (%)' is set to 2, 'Midterm Exam (%)' is 36, and 'Final Exam (%)' is 40. The resulting totals are 24% for 12 weeks, 36% for the midterm, 40% for the final exam, and a total of 100% for all weights. A 'Save Weights' button is located at the bottom right. Numbered callouts 3, 4, 5, and 6 highlight the input fields and the 'Save Weights' button.

Evaluation Type	Percentage (%)	Total (%)
Weekly Evaluation	2	24
Midterm Exam	36	36
Final Exam	40	40
Weights Total		100

3- Enter the percentage of the average of the weekly assessments.

4- Enter the midterm percentage.

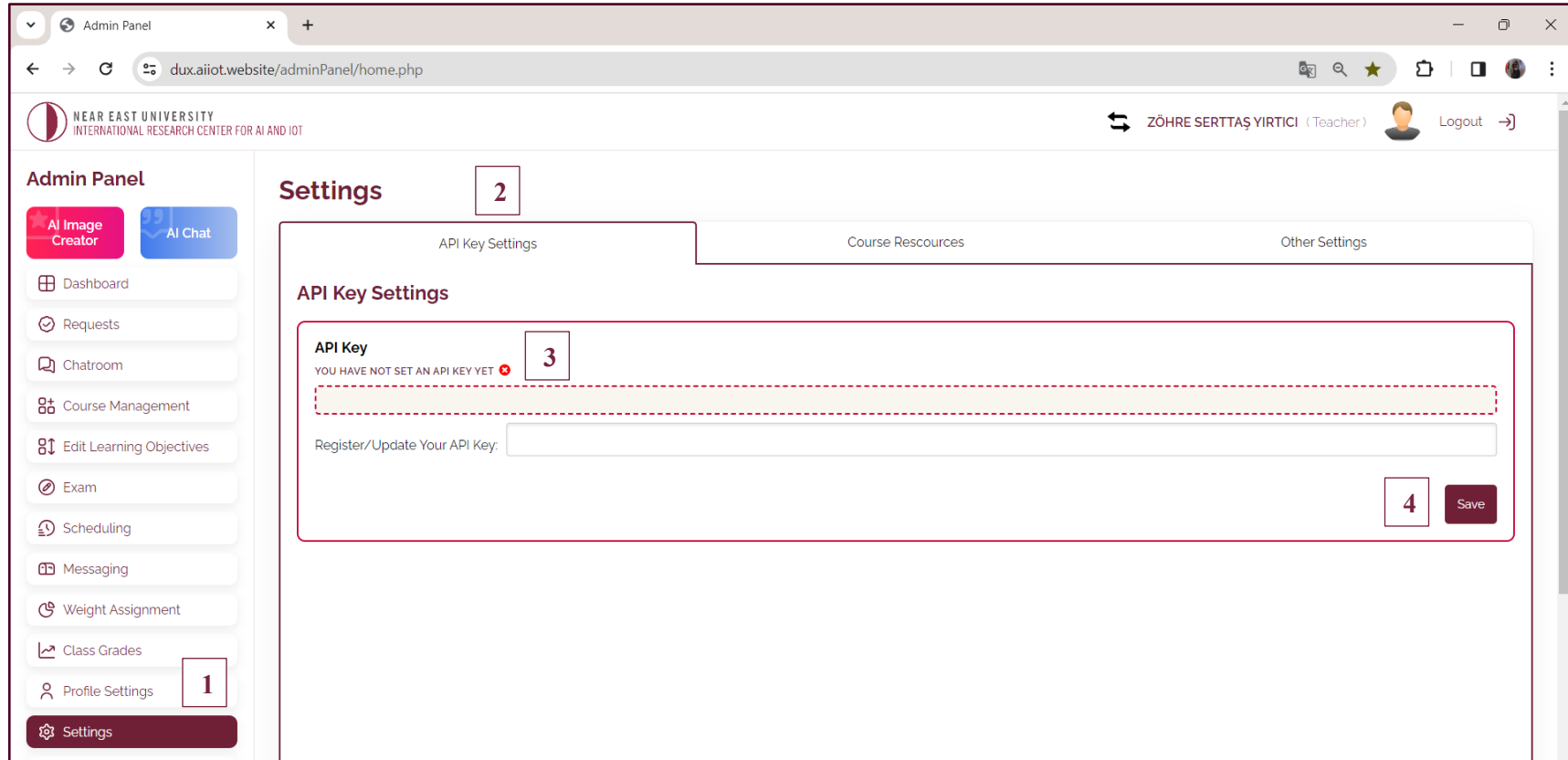
5- Enter the percentage of the final exam.

6- Weekly evaluation, midterm, final, etc. As a result of all the values entered, the remaining points that remain and need to be calculated are shown in the specified panels.

Note: The sum of the averages must add up to 100% Click "Save Averages" when you are done.

7. SETTINGS (set the API key)

A paid chatGPT account gives you access to GPT4.0, which is more up-to-date and more accurate. To grant DUX access to GPT4 if you have a paid account You can enter your API key.



The screenshot shows a web browser window with the URL `dux.aiiot.website/adminPanel/home.php`. The page is titled "Admin Panel" and features a sidebar with various navigation options. The "Settings" tab is selected, and the "API Key Settings" sub-tab is active. The "API Key Settings" section contains a message: "API Key YOU HAVE NOT SET AN API KEY YET" with a red error icon. Below this is a dashed red box indicating where the API key should be entered. A text input field labeled "Register/Update Your API Key:" is present, and a "Save" button is located to its right. Red boxes with numbers 1, 2, 3, and 4 highlight the "Settings" tab, the "API Key Settings" sub-tab, the error message, and the "Save" button, respectively.

- 1- Go to the "Settings" tab.
- 2- Go to "API Key Settings".
- 3- Enter your API key in the text box.
- 4- Save your transaction by clicking "Save".

7. SETTINGS (specify DUX's knowledge base)

The screenshot shows the Admin Panel interface for NEAR EAST UNIVERSITY. The page is titled "Settings" and has three tabs: "API Key Settings", "Course Resources", and "Other Settings". The "Course Resources" tab is active. Below the tabs, there is a section titled "Course Resources" with the instruction "Select a course, then choose the resources you want Dux to use in this course." A dropdown menu labeled "Select a Course" is present. Below this, there is a section titled "Select Resources" with four categories: "ChatGPT only", "Textbooks", "Web Resources", and "All". Each category has a checkbox next to it, all of which are checked. A "Save" button is located at the bottom right of the "Select Resources" section. The "Settings" tab in the left sidebar is highlighted with a red box and labeled "1". The "Course Resources" tab is labeled "2". The "Save" button is labeled "4". The "Select Resources" section is labeled "3".

- 1- Go to the **"Settings"** tab.
- 2- Select your lesson from the course resources.
- 3- Click the check box next to each resource type. This will enable DUX to use that resource to deliver course content.
- 4- Save your transaction by clicking **"Save"**.



Voila!

Your course is ready to run for the semester!



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