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# Master Degree in Industry 4.0

Ind4.0 (610455-EPP-1-MY-EPPKA2-CBHE-JP)

**AGRICULTURE**

**AUTOMOTIVE**

**MANUFACTURING**

**HEALTH**

**DELIVERABLE OF ERASMUS+IND4.0 WP2  
D2.4 Ind4.0 Online Course**



## D2.4 Ind4.0 Online Course

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### Projection Information

<b>Project Acronym</b>	InD4.0
<b>Project Full Title</b>	Master Degree in Industry 4.0
<b>Project No</b>	601455-EPP-1-2019-1-MY-EPPKA2-CBHE-JP
<b>Funding Scheme</b>	ERASMUS+ KA2 Capacity Building in the field of Higher Education
<b>Coordinator</b>	Universiti Teknologi MARA (UiTM)
<b>Project Website</b>	<a href="https://www.ind4-0-eu.my/">https://www.ind4-0-eu.my/</a>

<b>Work Package</b>	2 Development of the Ind4.0 MSc Curriculum & VLE
<b>Deliverable:</b>	2.4 Ind4.0 Online Course
<b>Type:</b>	Service/Product
<b>Dissemination level:</b>	Public
<b>Version:</b>	Final
<b>Delivery date:</b>	22/7/2022
<b>Keywords:</b>	Learning Management System, Academic Space, MOOCs
<b>Abstract:</b>	The Ind4.0 Online Course service is both a Content and a Learning Management System, based on the open courseware development platform Open edX ( <a href="https://openedx.org">openedx.org</a> ), delivered in the context of the European-Commission-funded project Ind4.0 (Project N°: 610455-EPP-1-2019-1-MY-EPPKA2-CBHE-JP, Grant Agreement no. 610455, <a href="https://www.ind4-0-eu.my/index.php">https://www.ind4-0-eu.my/index.php</a> ). It offers free web-based courses for the Industry 4.0 MSc programme.

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## 1.0 Privacy Policy

Name of the service	Ind4.0 Online Course
Description of the service	The Ind4.0 Online Course service is both a Content and a Learning Management System, based on the open courseware development platform Open edX (openedx.org), delivered in the context of the European-Commission-funded project Ind4.0 (Project N°: 610455-EPP-1-2019-1-MY-EPPKA2-CBHE-JP, Grant Agreement no. 610455, <a href="https://www.ind4-0-eu.my/index.php">https://www.ind4-0-eu.my/index.php</a> ). It offers free web-based courses for the Industry 4.0 MSc programme.
Data controller	Ind4.0 consortium
Personal data processed	<ul style="list-style-type: none"> <li>-Full name</li> <li>-Email address</li> <li>-Country or region of residence</li> <li>-Year of birth</li> <li>-Level of education completed</li> <li>-Public username</li> <li>-User password</li> </ul>
How your information is used	<p>Ind4.0 Partners use information, including <u>Personal Information</u>, to carry out the following purposes:</p> <p><b>Operate and improve the Ind4.0 VLE</b> – This includes creating and improving features that support the Ind4.0 community and enable Ind4.0 VLE usage at scale. This also includes personalizing the Ind4.0 VLE, so the learning experience is tailored to the interests and needs.</p> <p><b>Create, administer, provide, and teach courses</b> – This includes creating and improving the delivery of massive open online courses and programs on Ind4.0 VLE. This also includes personalizing courses, so the learning experience is tailored to the interests and needs and assessing the performance and awarding certificates.</p> <p><b>Offer and improve products and services</b> – This includes enabling to navigate the Ind4.0 VLE, to enroll and participate in courses and programs on the Ind4.0 VLE and to learn effectively in such courses and programs.</p> <p><b>Develop and maintain the security and performance of the Ind4.0 VLE</b> – This includes tracking Ind4.0 VLE outages and creating software solutions, detecting violations of the Honor Code and</p>

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	<p>Terms of Service, and monitoring uses, misuses, and potential misuses of the Ind4.0 VLE.</p> <p><b>Communicate with you</b> – This includes answering your course and platform questions, notifying you of course and Ind4.0 VLE maintenance and updates, marketing to you about course offerings, programs, news, and related products and services of Ind4.0 project, and as permitted under applicable law, sending your communications about news and events of the Ind4.0 project that may be of interest to you.</p> <p><b>Support scientific research including, for example, in the areas of cognitive science and education</b> – This includes collaborating to enable and conduct research about how learners access and master course materials online, with the goal of improving course outcomes.</p> <p><b>Track Ind4.0 VLE usage against goals and mission</b> – This includes performing analytics to evaluate access to and performance in courses and course-related products and services and to report aggregate usage information (not Personal Information) to Partners and the European Commission.</p> <p><b>Exercise, enforce, and comply with legal rights and obligations</b> – This includes responding to subpoenas, court orders, or other legal process; and investigating, preventing, or taking action regarding illegal activities, suspected fraud, security or technical issues, or to protect the rights, property, or safety of Ind4.0 VLE, or others, and as otherwise required by applicable law.</p>
Third parties to whom personal data is disclosed	None
How to access, rectify and delete the personal data	Contact the support at <a href="mailto:euskybridge@groupinternational.org">euskybridge@groupinternational.org</a> To rectify the data released by your Home Organisation, contact your Home Organisation's IT helpdesk
Data retention	Personal data is deleted on request of the user
Data Protection Code of Conduct	The processing of personal data shall always be in line with the General Data Protection Regulation (GDPR).

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### 2.1 Use of the VLE

In order to participate in Ind4.0 Online Courses or access any online resources offered by the VLE you must first carefully read and agree to these Terms of Service, Honour Code and Privacy Policy (collectively 'Terms'). BY ACCESSING AND PARTICIPATING IN THE VLE, YOU HAVE INDICATED THAT YOU HAVE READ THESE TERMS AND AGREE TO BE BOUND BY AND COMPLY WITH THEM. If you do not agree to be bound by these Terms, please promptly exit the VLE. THE PARTNERS RESERVE THE RIGHT TO MODIFY THESE TERMS AT ANY TIME AND WILL PUBLISH NOTICE OF ANY MODIFICATIONS ON-LINE AT THIS VLE. BY CONTINUING TO ACCESS THE VLE AFTER NOTICE OF SUCH MODIFICATIONS HAS BEEN PUBLISHED, YOU SIGNIFY YOUR AGREEMENT TO BE BOUND BY THEM.

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Certain courses may also have additional eligibility requirements as specified in the specific course description. If you are not eligible for registration and participation or do not agree to the Terms, you may not use the VLE.

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## 2.4 User Accounts

In order to create a user account, you must provide your full name, an email address, your country or region of residence, a public username, and a user password. You agree that you will never divulge or share access or access information for your user account with any third party for any reason. In setting up your user account, you may be prompted to enter additional optional information (e.g. level of education, year of birth). You represent that all information provided by you is accurate and current. You agree to maintain and update your information to keep it accurate and current.

We care about the confidentiality and security of your personal information. Please see the Privacy Policy for more information about the collection and use of data on the Ind4.0 VLE.

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- Content that discusses illegal activities with the intent to commit them;
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- Intentionally incomplete, misleading or inaccurate content;

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### 3.3 Content

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The text and other material on the VLE may include the opinion of the specific instructor and are not statements of advice, endorsement, opinion, or information of the Partners. If you feel you might be offended by the content of the VLE, you should not continue. VLE may also include the personal opinions and other expressions by Users who post entries on a wide range of topics. Neither the content of the forums, nor the links to other

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- Advertising or any form of commercial solicitation;
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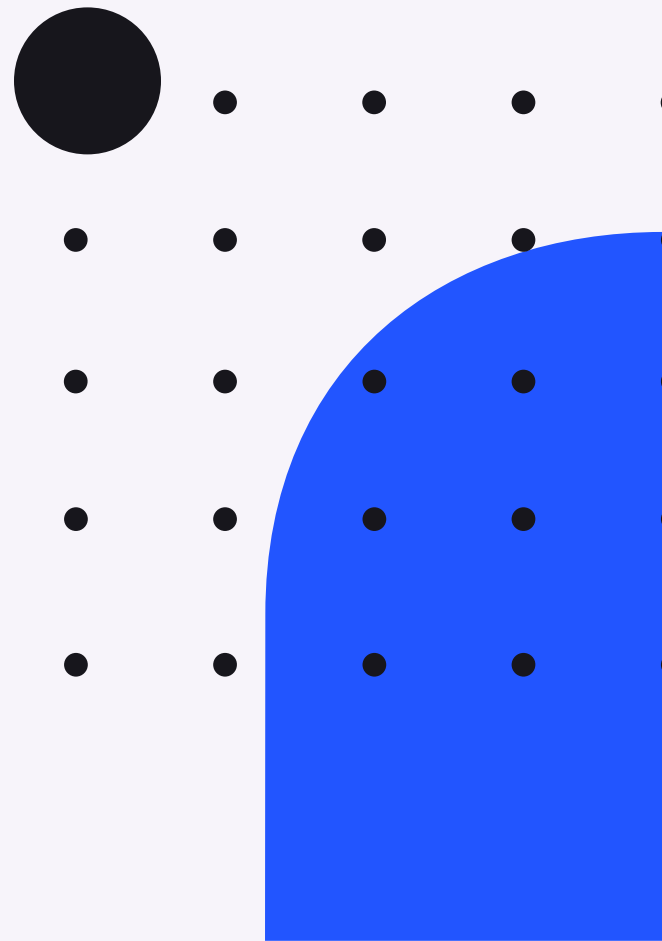
## APPENDIX A Introduction to the Platform

**Disclaimer:**

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# SKYBRIDGE



# Ind4.0 Virtual Learning Environment



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# Outline

1

Learning Environment – The big picture

2

The two main components

3

LMS + Studio

4

Course Design Protocol

5

Main functionalities



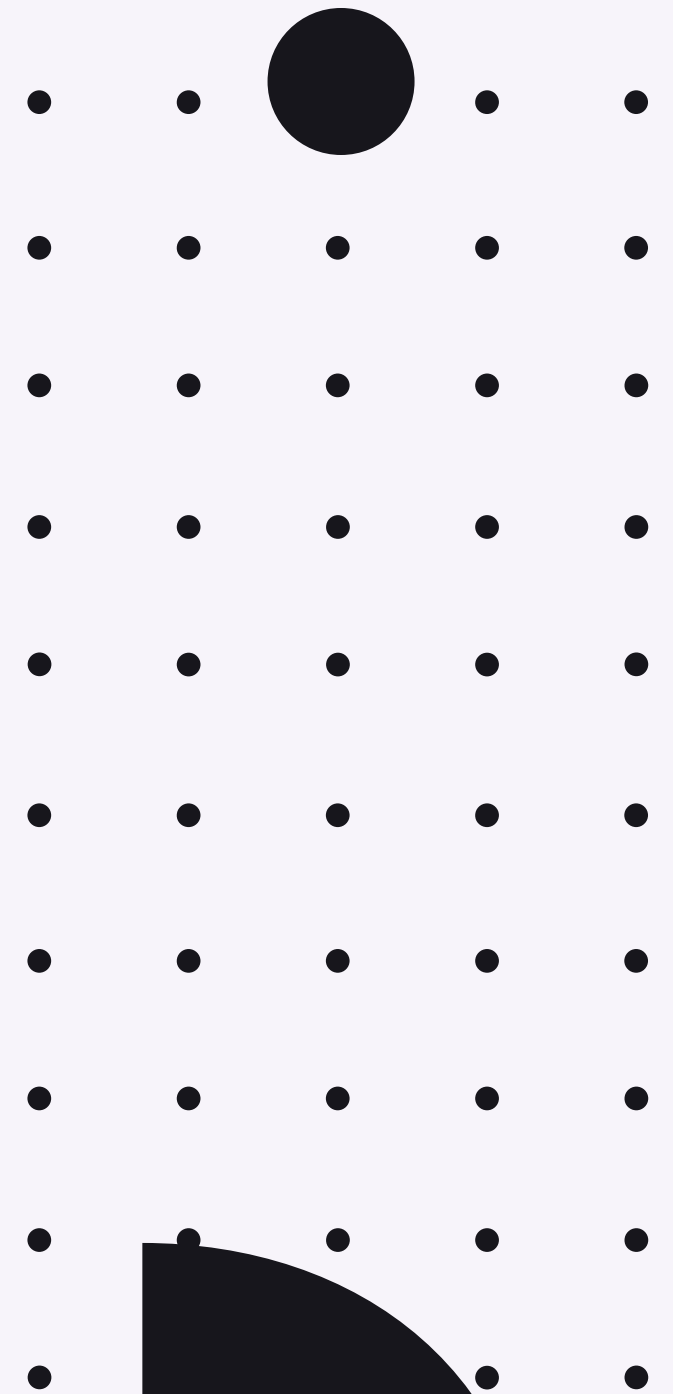


# Learning Platform Environment

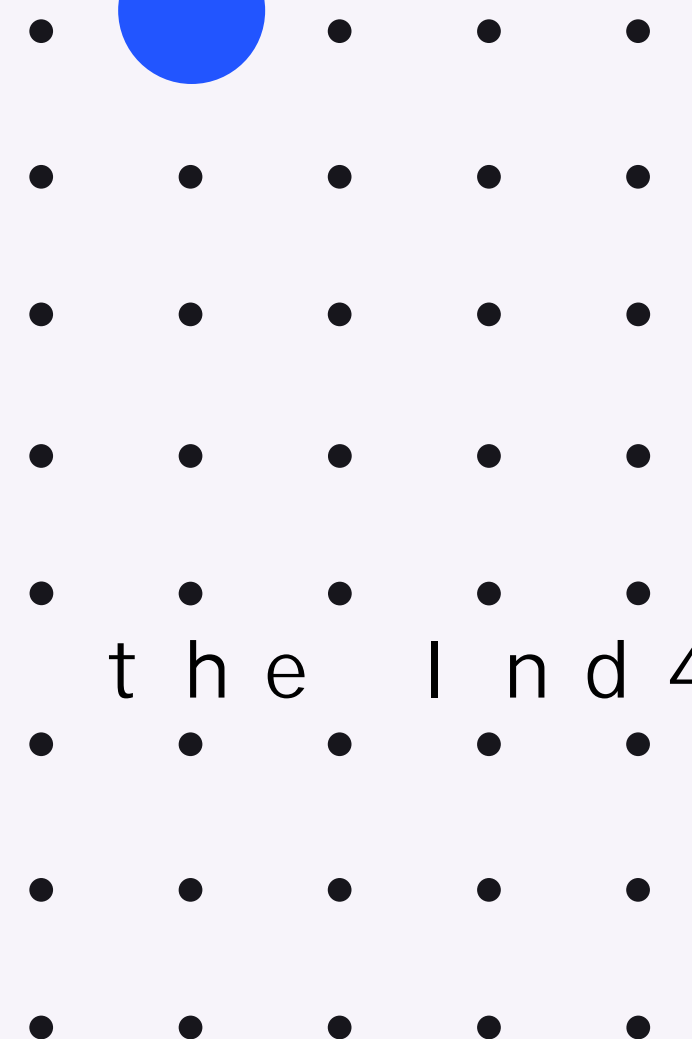
- Based on the openedX software.
- Co-founded by Harvard and MIT.
- Originally envisioned as a MOOC platform; Now has evolved into one of the leading learning platforms catering to Higher Ed, enterprise, and gov organizations alike.
- The Learning platform will accommodate the training programme (Massive Open Online Course/MOOC), which integrates the training material.

# Characteristics

- Designed for the MOOC world of online and self-paced learning.
- Caters nicely to larger-scale audiences.
- It has interactive forums and discussion boards.
- It works on any device.
- It can offer interactive content with adaptive video streaming.
- It provides intelligent, learner-centric analytics to help instructors understand how learners engage with course material.



# Contextual characteristics



1

## Modularity

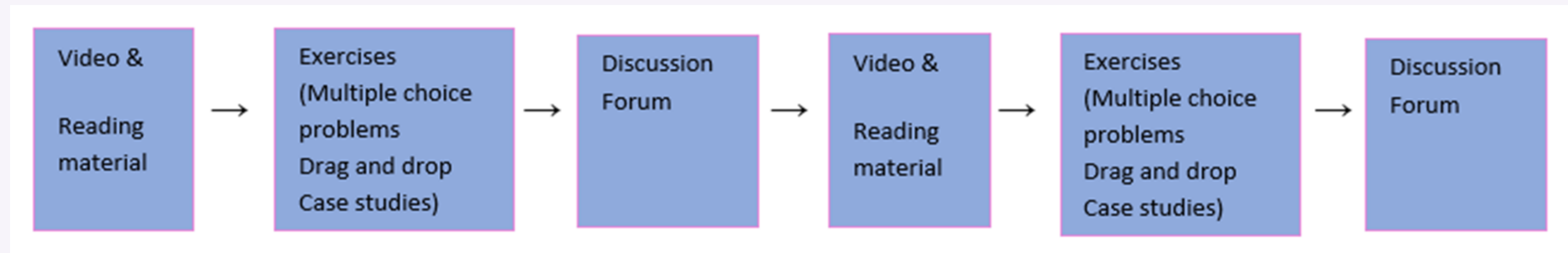
Instead of hour-long lectures, the course is made up of many bite-sized components

2

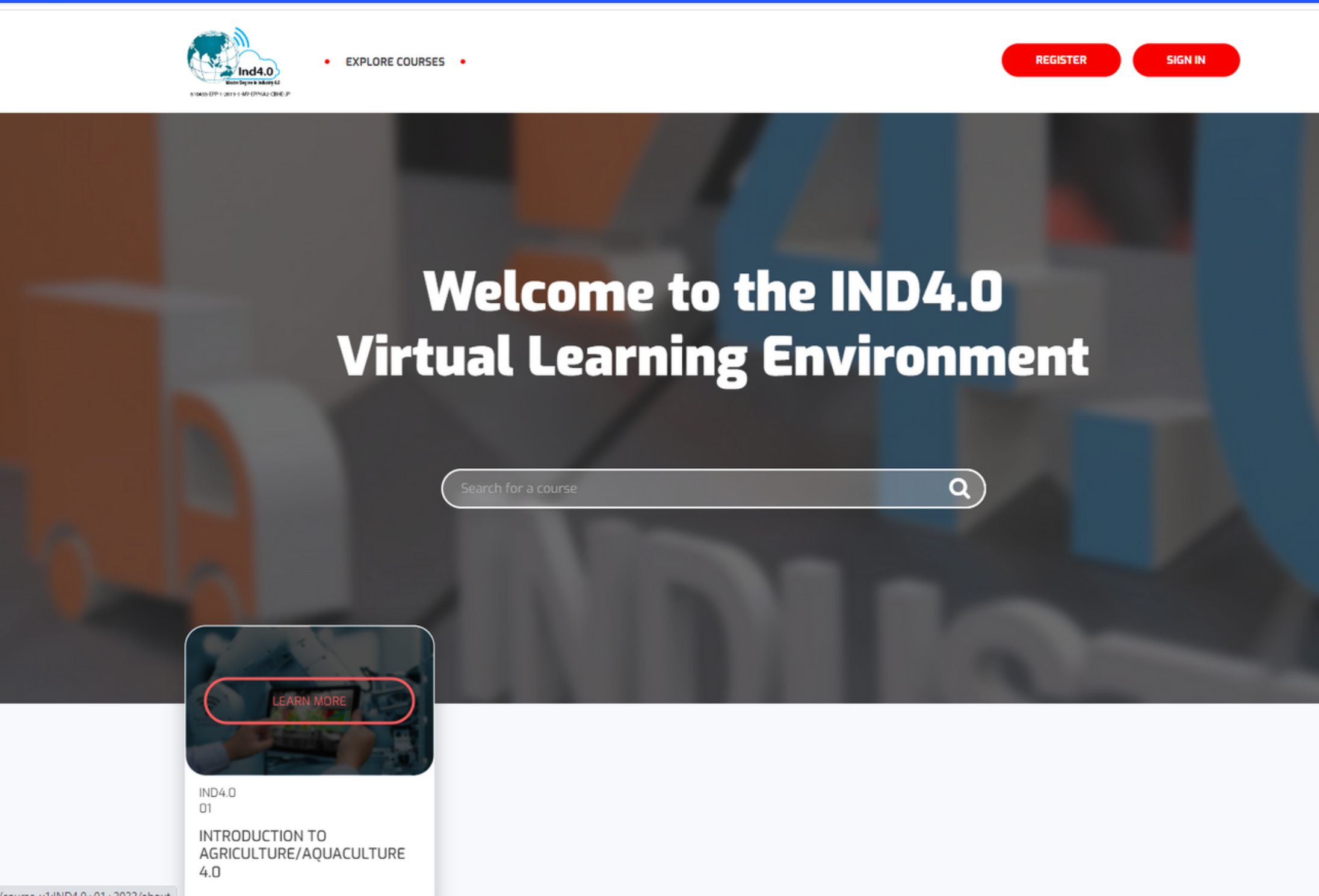
## Learning sequence

A typical learning sequence involves a video lecture with a quick exercise/assessment, followed by another video lecture with accompanying reading material, and another

# Learning sequence

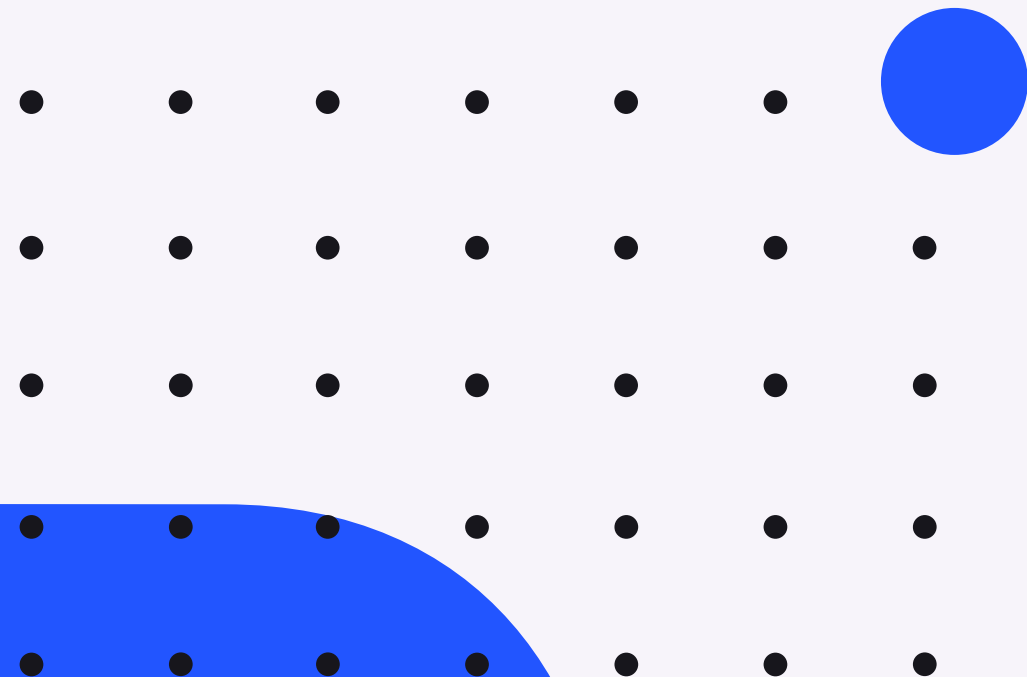


# LMS - Main page



- Accessing course from the Dashboard
- Adding Profile information
- Account management including password update or email zone and language settings

# LMS - Course Information



## INTRODUCTION TO AGRICULTURE/AQUACULTURE 4.0

IND4.0

Agriculture/Aquaculture 4.0, as part of the Industry 4.0 paradigm, concerns the transformation of farming processes through the integration of modern technologies such as sensors, communication, and computational processing. Technologies such as Cyber Physical Systems (CPS), Internet of Things (IoT), Cloud Computing, Machine Learning, and Data Analytics are considered to be the different drivers necessary for the transformation.

[read more...](#)

ENROLL IN 01

ABOUT THIS COURSE

PREREQUISITES

COURSE STAFF

FREQUENTLY ASKED QUESTIONS



### ABOUT THIS COURSE

Upon completion of this course, learner should be able to:

- understand the various stages of industrial revolutions,
- understand the Future of Agriculture/Aquaculture and the skillset needed,
- recognise the drivers, enablers and compelling forces for Agriculture/Aquaculture 4.0's advancement,
- identify the role and importance of data and cloud computing in Agriculture/Aquaculture 4.0,

describe how organizations and knowledge workers can better prepare for Agriculture/Aquaculture 4.0.

### REQUIREMENTS

Add information about the skills and knowledge students need to take this course.

### COURSE STAFF

Course Number	01
Classes Start	Jul 15, 2022
Course Length	15 weeks

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- Identifying information about the course.
- Whether the course has started or ended.
- The number of sections in the course.
- The defined grade cutoff for passing or failing.
- Level: Beginner, Intermediate, Advanced, etc
- Effort: Usually expressed in hours per week
- Link to pre-requisite courses if applicable

# LMS - Course Information





Some indicative criteria for our MooC platform includes:

- Open license
- High interactivity / high quality
- High modularity of the platform

Constraints imposed will be regarding the commercial reuse of the material as well as giving appropriate credit and license when reusing the material. Thus, the resources will be released under the Creative Commons Attribution-NonCommercial 4.0 International Licence.



# the MOOC Platform



# Course Design

Understanding course outline

## Section

A section can represent a time period in your course, a chapter, or another organizing principle. A section contains one or more subsections.

## Subsection

A subsection may represent a topic in your course, or another organizing principle. Subsections are sometimes called “lessons” or they might represent a week’s worth of material

## Unit

A unit is a learning sequence and contains one or more components.

## Component

is a part of the unit and contains the actual course content including through text or lectures, images, interactive problems, discussion, video lecture, etc.

# Course Design

Understanding course outline

<b>Section/Module 1</b>	Cyber security in Industry 4.0	Is the top level of the course and typically <u>represent</u> a time period (week).
Subsection/Lesson 1		it represents a topic or other organizing principle and is also called "lesson"
Unit 1		A unit contains one or more components, which represent the actual course content.: Videos, problems/quizzes, reading material, discussion forums.
Unit 2		A unit contains one or more components, which represent the actual course content.: Videos, problems/quizzes, reading material, discussion forums.
Unit ...		A unit contains one or more components, which represent the actual course content.: Videos, problems/quizzes, reading material, discussion forums.
Subsection/Lesson 2		
Unit 1		
Unit 2		
Unit ...		
Subsection/Lesson ...		
Unit 1		
Unit 2		
Unit ...		
<b>Section/Module 2</b>	Networking Technologies and Sensors	
Subsection/Lesson 1		
Unit 1		
Unit 2		
Unit ...		
Subsection/Lesson 2		
Unit 1		

# LMS main features

1

Automatic Email Message

2

Forum / Discussion / Wiki / Analytics

3

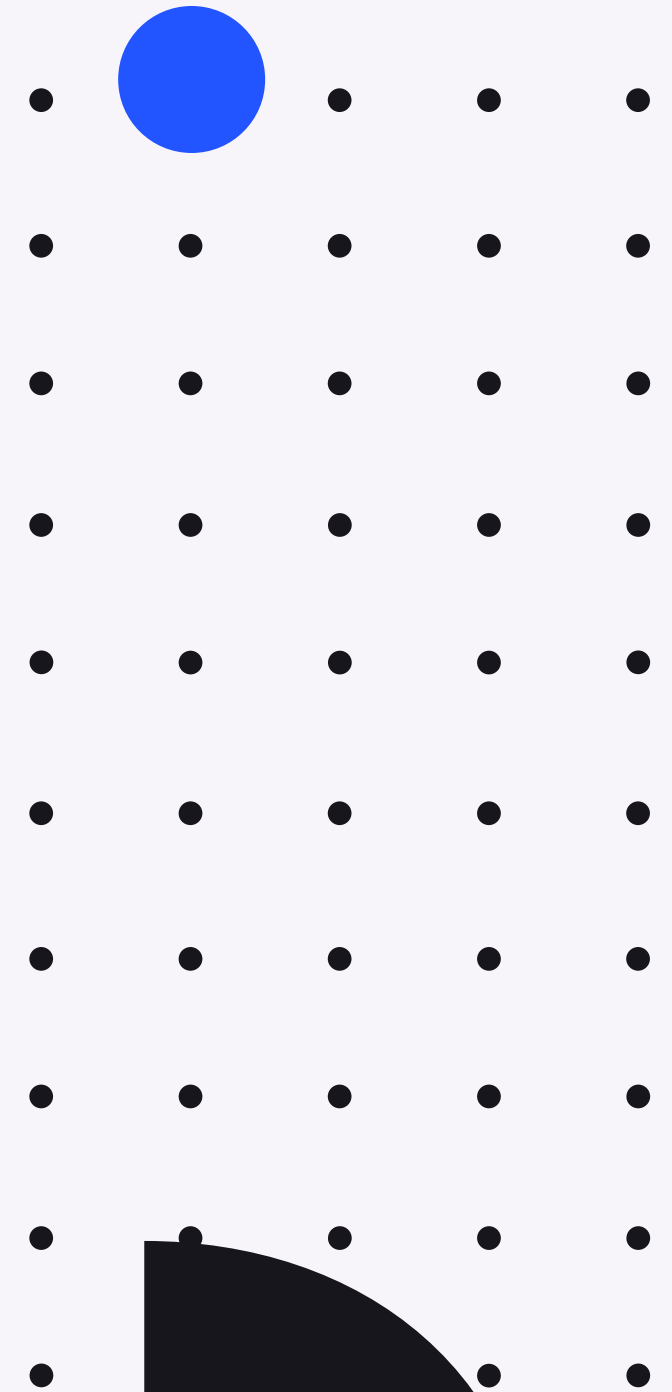
Multiple team roles

4

Interactive & multilingual content

5

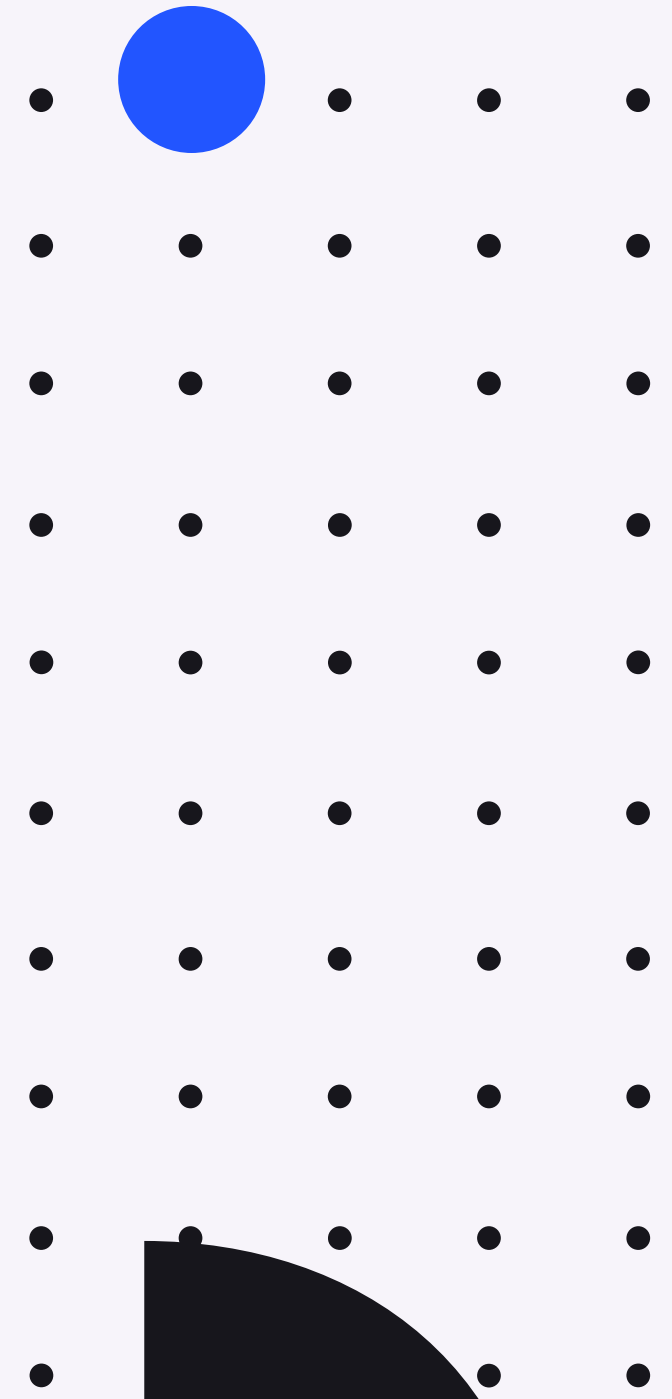
Certificates



# Forum / Discussion

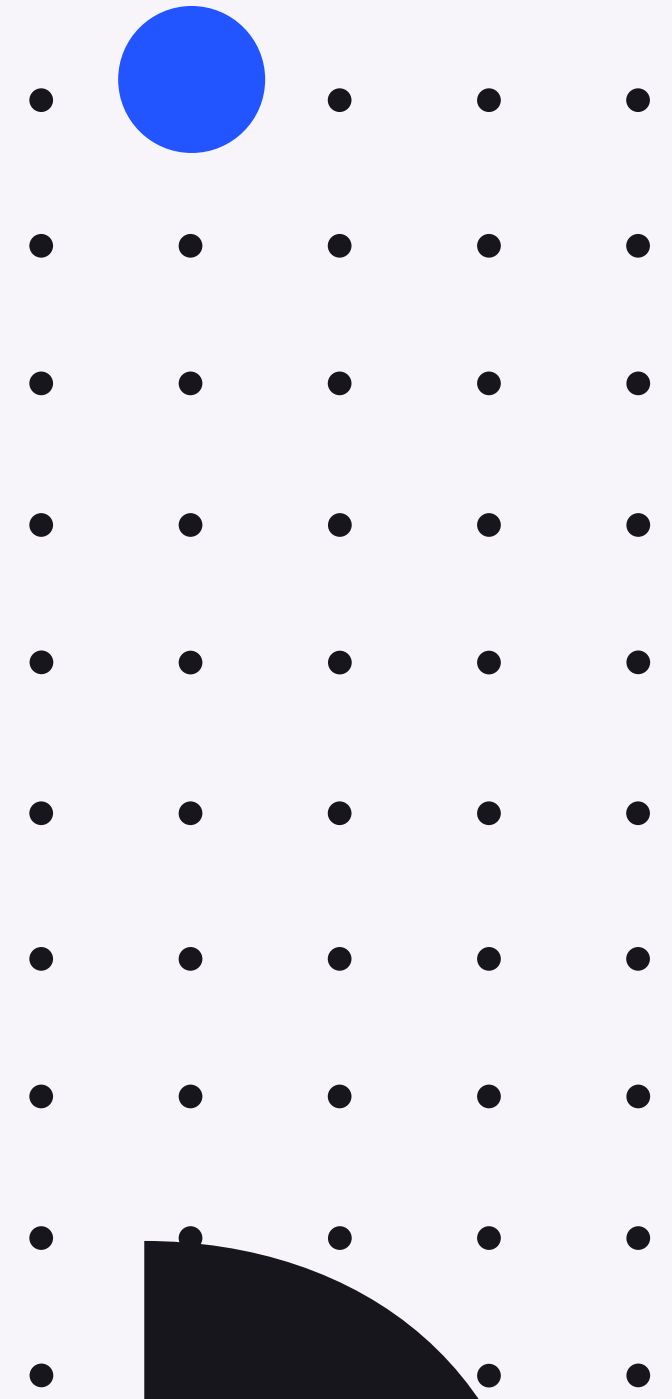
Post messages that are visible to all participants and responding to questions

The screenshot shows a forum interface for a course titled "Introduction to Agriculture/Aquaculture 4.0". At the top left, there is a logo for "Ind4.0" (Master Degree in Industry 4.0) and navigation links for "DISCOVER NEW" and "SYSADMIN". On the top right, there are links for "HELP" and a user profile for "Giannaki". Below the navigation bar, there are tabs for "COURSE", "DISCUSSION" (which is active), "WIKI", "PROGRESS", "INSTRUCTOR", and "INSTRUCTOR ANALYTICS". The main content area features a red "ADD A POST" button and a search bar labeled "Search all posts". Below the search bar is a red "ALL TOPICS" button and a "filter topics" dropdown menu. The forum is currently displaying "All Discussions" and "Posts I'm Following". A dropdown menu shows "General" as the selected topic. On the left side, there is a "Discussion Home" section with the title "INTRODUCTION TO AGRICULTURE/AQUACULTURE 4.0" and the subtitle "How to use MOOCs Project discussions". This section contains several interactive cards: "Find discussions" with a menu icon and instructions to use the All Topics menu; "Engage with posts" with a plus icon and instructions to vote for good posts and report abuse; and "Receive updates" with an unchecked checkbox and instructions to receive an email digest.



# Wiki

Upload articles and additional material for study



DISCOVER NEW SYSADMIN

HELP Giannaki

COURSE

DISCUSSION

WIKI

PROGRESS

INSTRUCTOR

INSTRUCTOR ANALYTICS

Wiki > Introduction to Agriculture/... >

+ ADD ARTICLE

## INTRODUCTION TO AGRICULTURE/AQUACULTURE 4.0

This is the wiki for **IND4.0's** *Introduction to Agriculture/Aquaculture 4.0*.

View

Edit

Changes

Settings

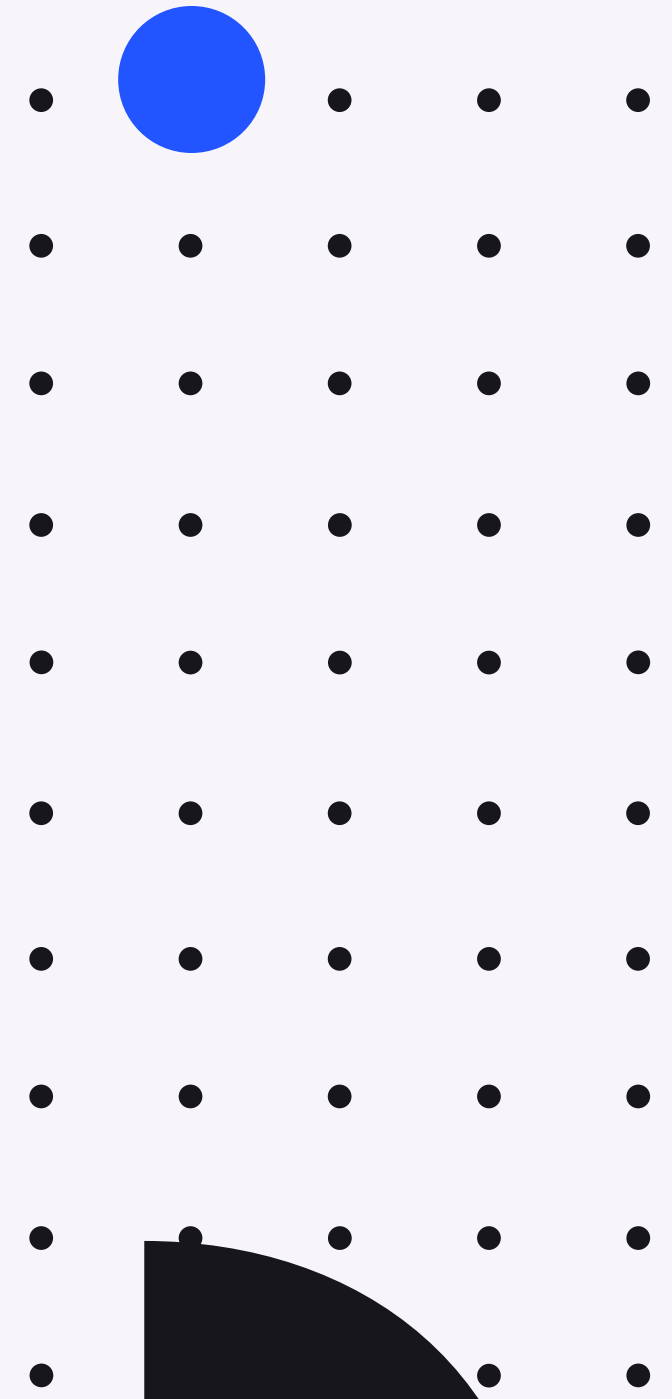
Last modified: **July 13, 2022, 3:14 p.m.**

[See all children](#)

# Analytics

Progress page of oneself

The screenshot displays a course management interface. At the top left is the 'Ind4.0' logo with the text 'Master Degree in Industry 4.0' and '©10455-EPF-1-2019-1-MY-EPF6A2-CBHE-IP'. Navigation links include 'DISCOVER NEW', 'SYSADMIN', 'HELP', and a user profile for 'Giannaki'. A dropdown menu shows 'VIEW THIS COURSE AS: Staff'. A menu bar contains 'COURSE', 'DISCUSSION', 'WIKI', 'PROGRESS' (highlighted), 'INSTRUCTOR', and 'INSTRUCTOR ANALYTICS'. The main heading is 'COURSE PROGRESS FOR STUDENT 'GIANNAKI' (EGIANNAKI@FCHOLDINGS.EU)' with a 'VIEW GRADING IN STUDIO' link. A box states 'Your enrollment: Audit track' and 'You are enrolled in the audit track for this course. The audit track does not include a certificate.' Below is a progress bar chart with a vertical axis from 0% to 100% and a horizontal axis with 'x' markers. The bar is currently at 0%.



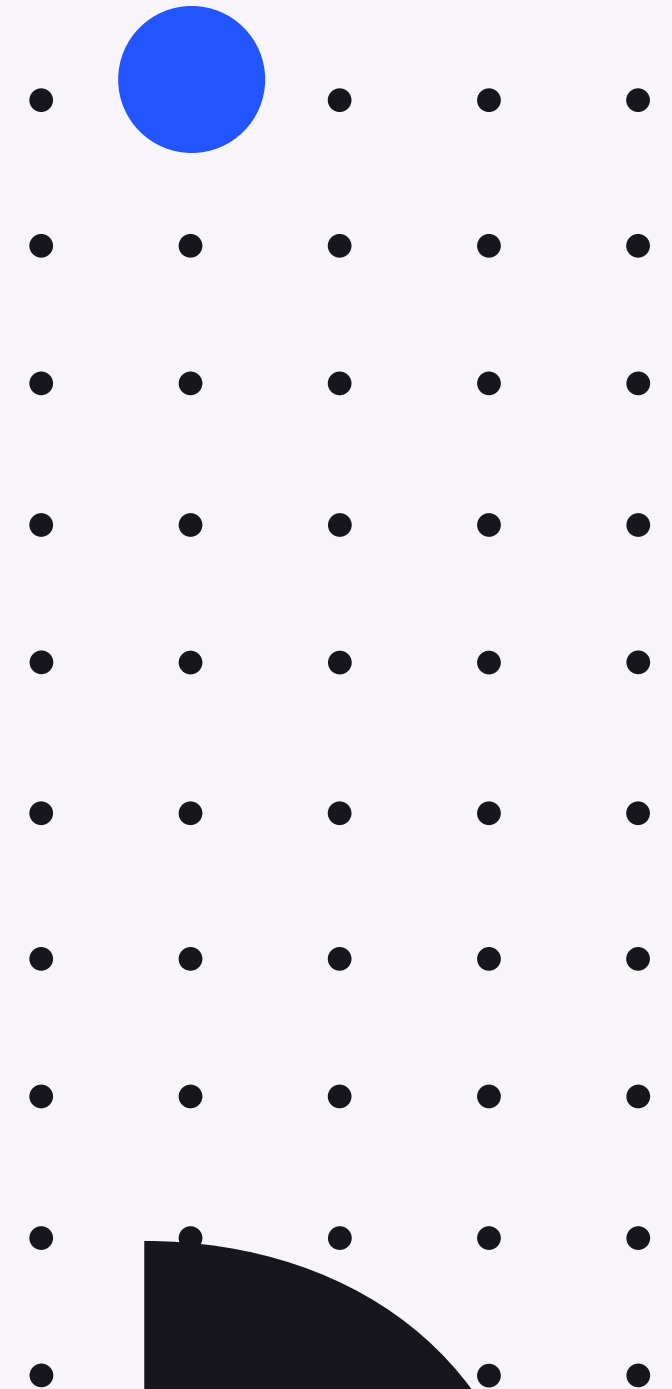
# Analytics

Instructor Analytics visible to staff members and instructors

Some important information:

- One can see the enrollments statistics
- One can see the progress of each specific student and its path on the platform on "Student info".
- One can see the progress of students as a whole on "Progress funnel"

The screenshot displays the Instructor Analytics interface. At the top left is the Ind4.0 logo with the text "Master Degree in Industry 4.0" and "©10455-EPF-1-2019-1-MY-EPYKA2-CBHE-IP". To the right are links for "DISCOVER NEW" and "SYSADMIN". Further right are "HELP" and a user profile for "Giannaki". Below the top bar is a navigation menu with buttons for "COURSE", "DISCUSSION", "WIKI", "PROGRESS", "INSTRUCTOR", and "INSTRUCTOR ANALYTICS". The main content area features a horizontal menu with tabs: "Enrollment stats", "Activities", "Problems", "Students' Info", "Clusters", "Progress Funnel", "Suggestions", and "Additional Information". A dropdown menu is open, showing the selected course "Introduction to Agriculture/Aquaculture 4.0".



# Analytics

Instructor Dashboard visible to staff members and instructors

- One can see the main info of the course
- One can give staff access by clicking on "Membership"
- One can see the progress of each specific student with its email address on "Student admin".
- One can download the data in excel form for a report.
- One can send email to all participants by clicking on "Email"
- One can issue certificates for students that completed the courses

The screenshot shows the Instructor Dashboard interface. At the top left is the Ind4.0 logo with the text 'Master Degree in Industry 4.0' and '610455-EPP-1-2019-1-MY-EPPKAZ-CBHE-IP'. To the right are links for 'DISCOVER NEW' and 'SYSADMIN'. Further right are 'HELP' and a user profile for 'Giannaki'. Below this is a horizontal menu with buttons for 'COURSE', 'DISCUSSION', 'WIKI', 'PROGRESS', 'INSTRUCTOR', and 'INSTRUCTOR ANALYTICS'. The main content area is titled 'Instructor Dashboard' and contains a 'VIEW COURSE IN STUDIO' button. At the bottom of the dashboard is a secondary navigation bar with links for 'Course Info', 'Membership', 'Cohorts', 'Student Admin', 'Data Download', 'Email', and 'Certificates'.

# Staff (Instructor)

Team members with the Staff role can complete the following tasks:

- View the course before the Course Start Date.
- Enroll and unenroll students.
- Access student grades.
- Reset student attempts to answer a question correctly.
- See course HTML errors.
- Send email messages to course participants.

# Roles



# Admin

They have access to all of the same options for running the course as the Staff.

They can also:

- Add and remove
- Staff.
- other Admins.
- Beta Testers.
- Discussion Admins, Discussion Moderators and community Teaching Assistants (TAs-see below)

# Roles



# Discussion moderator

- Edit or remove offensive or inappropriate content.
- Answer questions posed by learners regarding course content or structure and reply to suggestions or complaints about the course.
- Reply to interesting posts, thanking or congratulating particularly active or insightful discussion participants.
- Identify learners who are especially active in the discussions and invite them to become community Teaching Assistants (TA).

# Roles



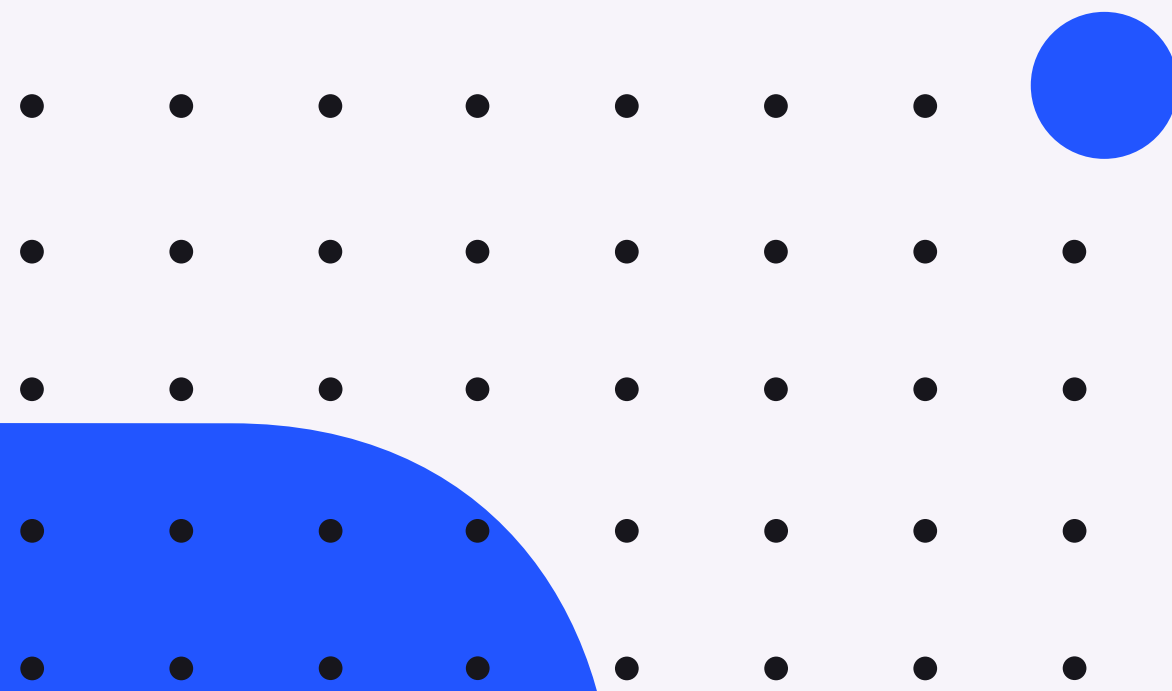
# Beta tester

- Beta testers have early access to the course.
- They have more time to review and complete the course materials than the enrolled learners do
- They interact with the course as learners will to find, and make, mistakes.
- Course discussions are not open before the course start date, so beta testers cannot participate in community conversations
- Beta testers do not receive certificates when they complete a course.

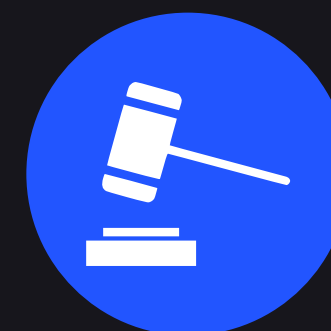
# Roles



# Legal aspects



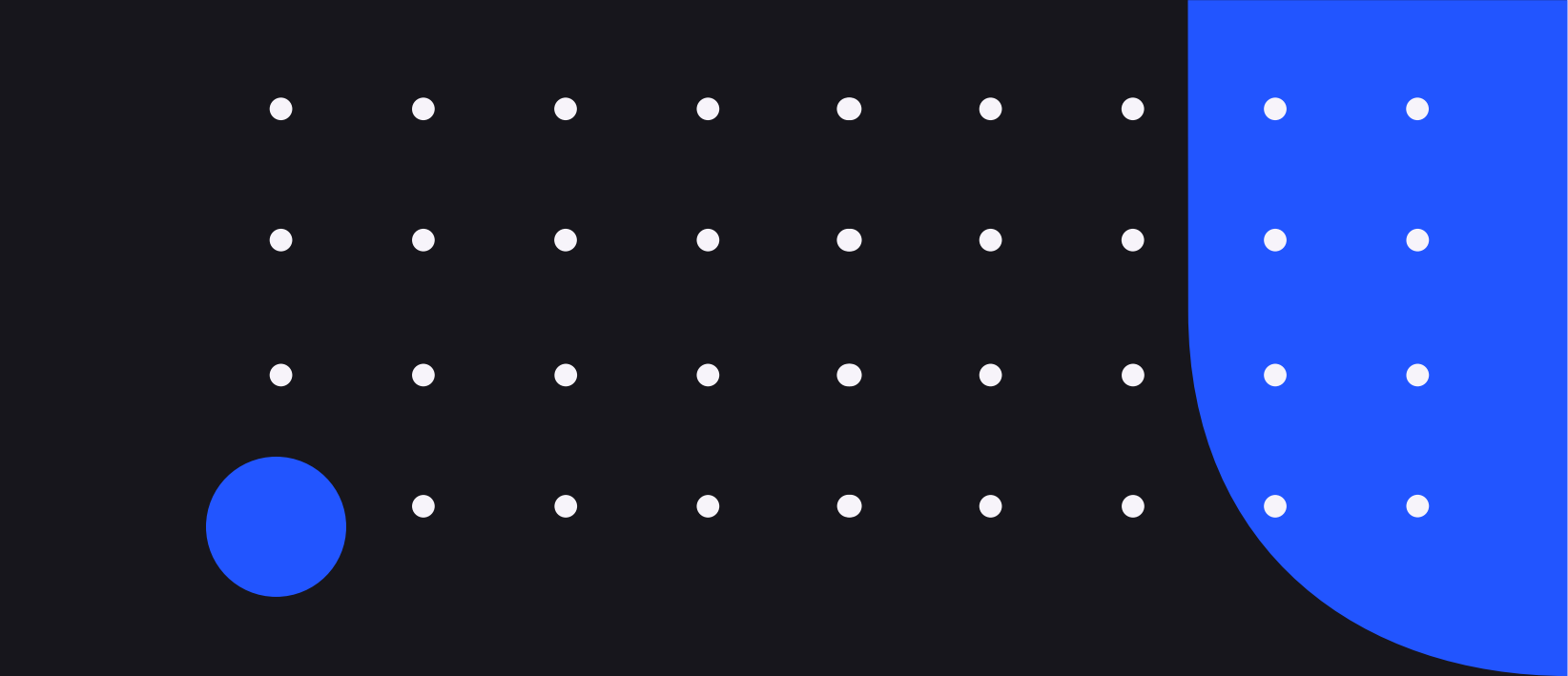
Terms of service



Privacy Policy



Honor code

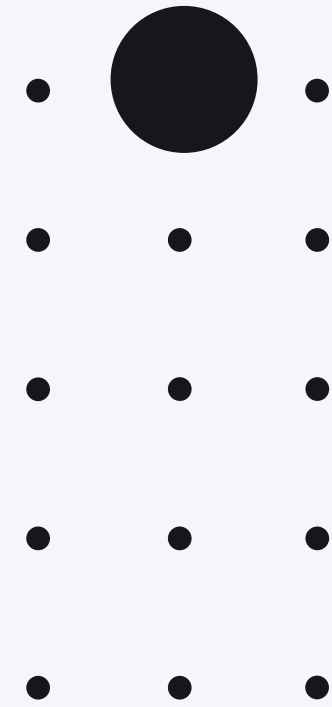


# Studio main features

- Course authoring tool – create learning material
- Create update notifications
- Files and uploads
- Grading Policy configurator
- Create and design Certificates

All resources will be made available in downloadable and editable formats so that the user can store them locally and access them when offline (such as text documents, presentations, and videos).

All multiple choice exercises can be auto-graded.



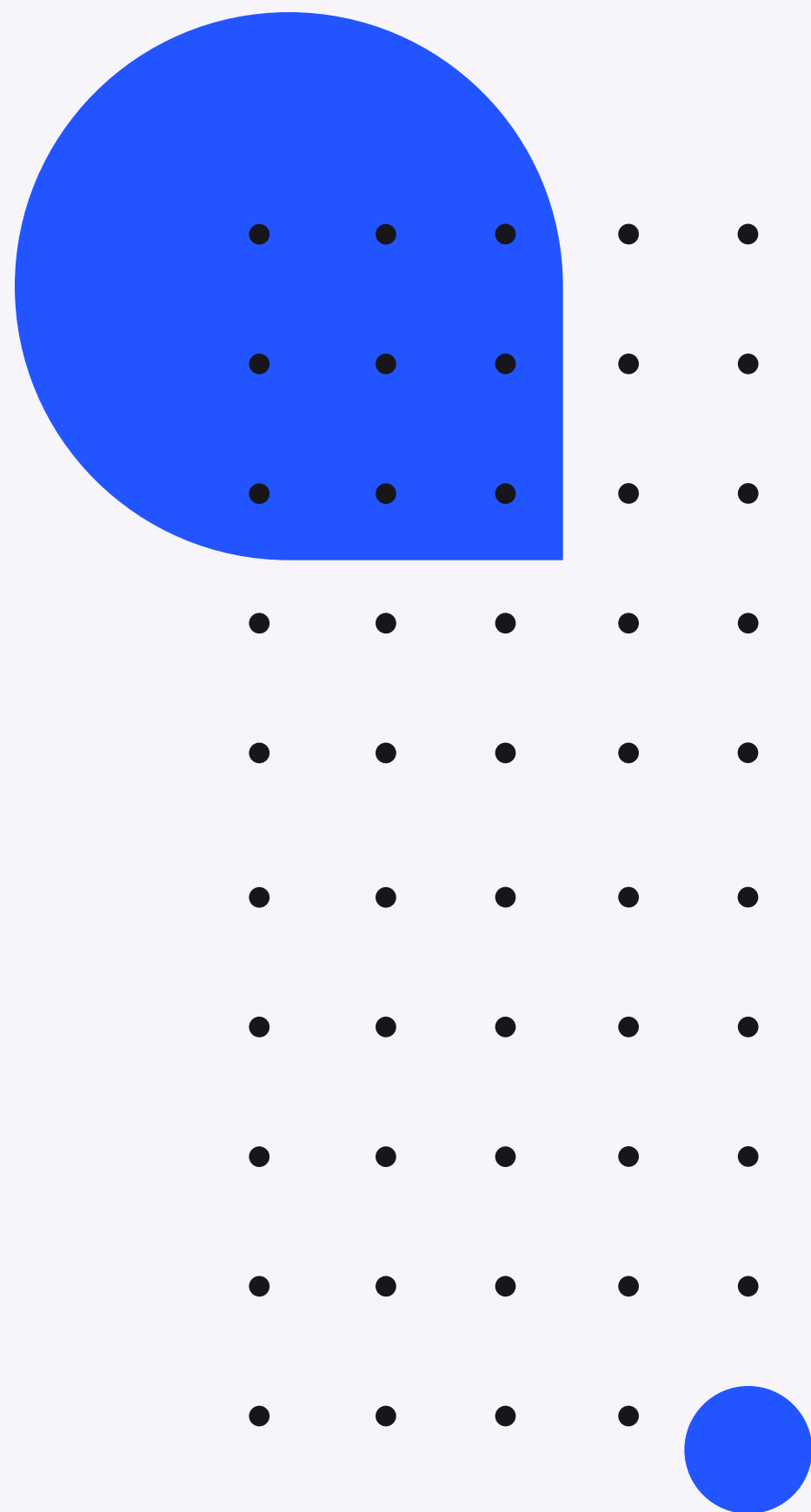
Multiple choice/Checkbox/Drop down problems

Image mapped input/Drag and drop problems

Text input (fill-in-the-blank)

Open Response Assessment (ORA) problems

Case studies



Thank you!



## APPENDIX B Guide to Creating a Course

**Disclaimer:**

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# GUIDE TO CREATING A COURSE



Master Degree in Industry 4.0  
610455-EPP-1-2019-1-MY-EPPKA2-CBHE-JP

By Skybridge

# SIGNING IN

- You have to create an account also on the VLE Site by clicking on the Register button.
- You need to activate your account through the verification email that you will receive.



The VLE site is: <https://vle.ind4-0-eu.my/>

Check also spam or junk folder for the verification email.

IND4.0  
Master Degree in Industry 4.0  
510400-EPF-1-2019-1-MY-EPMA2-CBHE-3P

EXPLORE COURSES

DO YOU HAVE AN ACCOUNT? SIGN IN!

CREATE AN ACCOUNT

Email  
example: username@domain.com

Full Name  
example: Jane Doe

Public Username  
example: JaneDoe

Password

Country or Region of Residence  
---

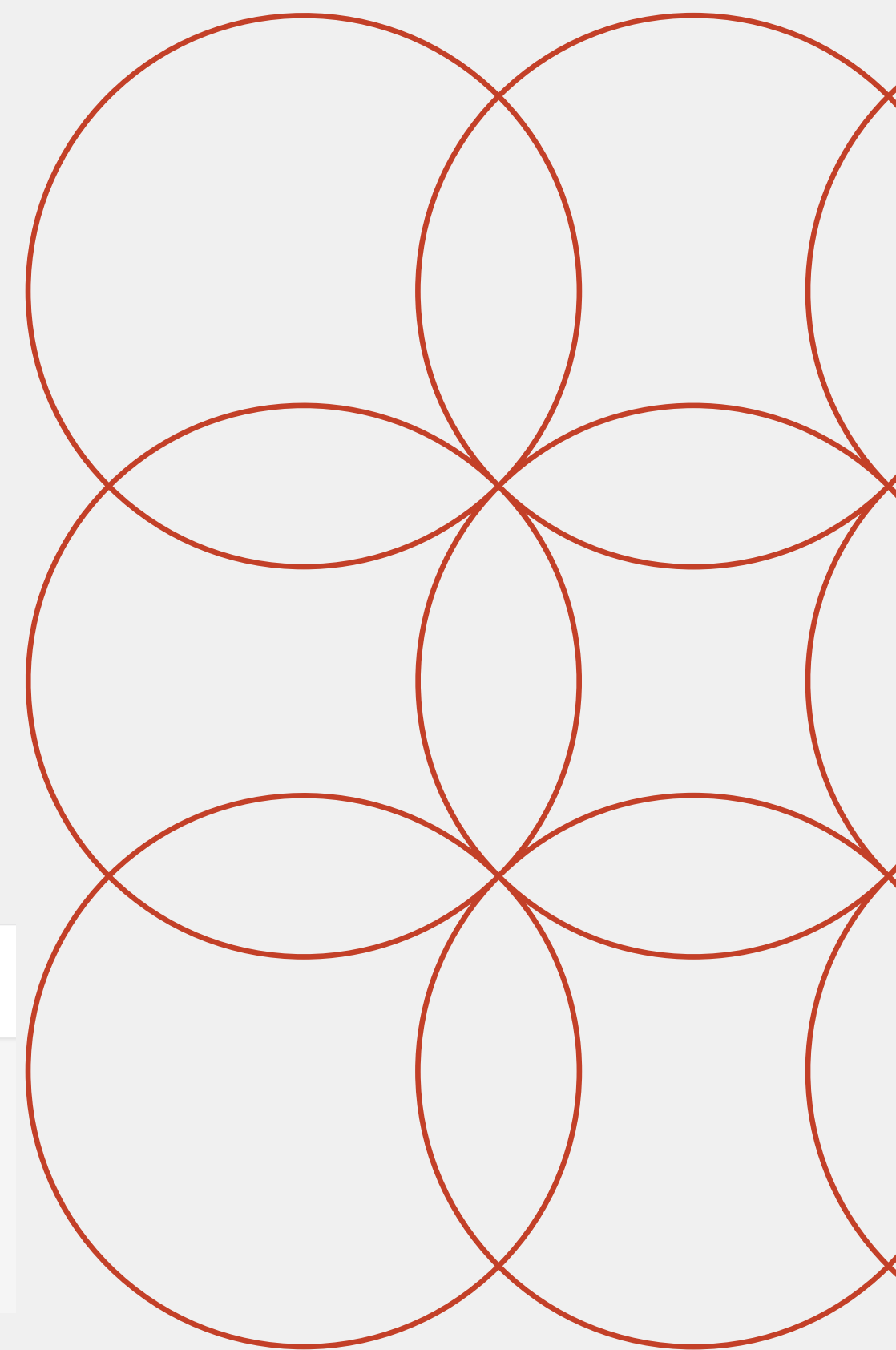
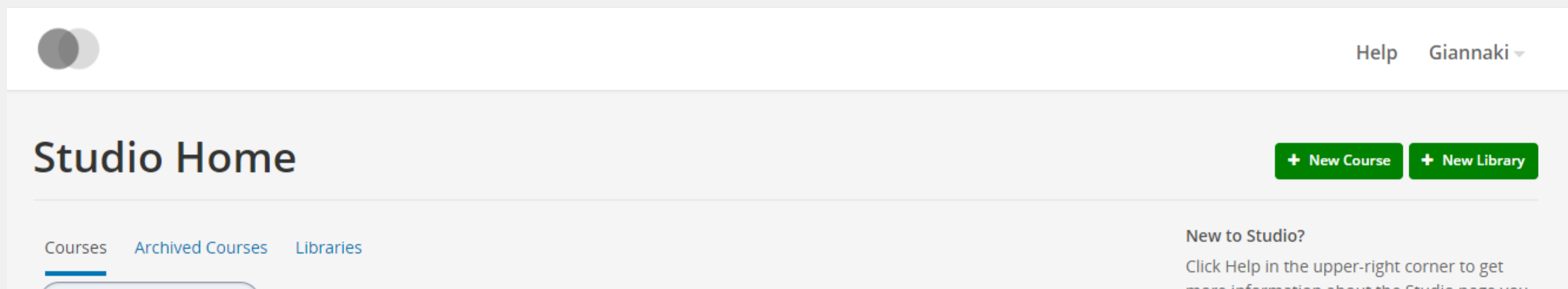
By creating an account with IND4.0, you agree to abide by our IND4.0 [Terms of Service and Honor Code](#) and agree to our [Privacy Policy](#).


Support education research by providing additional information

CREATE ACCOUNT

# SIGNING IN

1. Sign in to Studio with your credentials
2. Choose button --> NEW COURSE





# MAIN INFORMATION

3. Fill out the following information on your course

- Course Name For example "INTRODUCTION TO AGRICULTURE/AQUACULTURE 4.0"
- Organization Add the code of the platform IND4.0
- Course Number Add the abbreviation of the Subject and a number. For Example 'IA01'
- Course Run Enter the term in which your course will run. For example, 2022EN

## Studio Home

### Create a New Course

Course Name \*

The public display name for your course. This cannot be changed, but you can set a different display name in Advanced Settings later.

Organization \*

The name of the organization sponsoring the course. **Note: The organization name is part of the course URL.** This cannot be changed, but you can set a different display name in Advanced Settings later.

Course Number \*

The unique number that identifies your course within your organization. **Note: This is part of your course URL, so no spaces or special characters are allowed and it cannot be changed.**

Course Run \*

The term in which your course will run. **Note: This is part of your course URL, so no spaces or special characters are allowed and it cannot be changed.**

CREATE

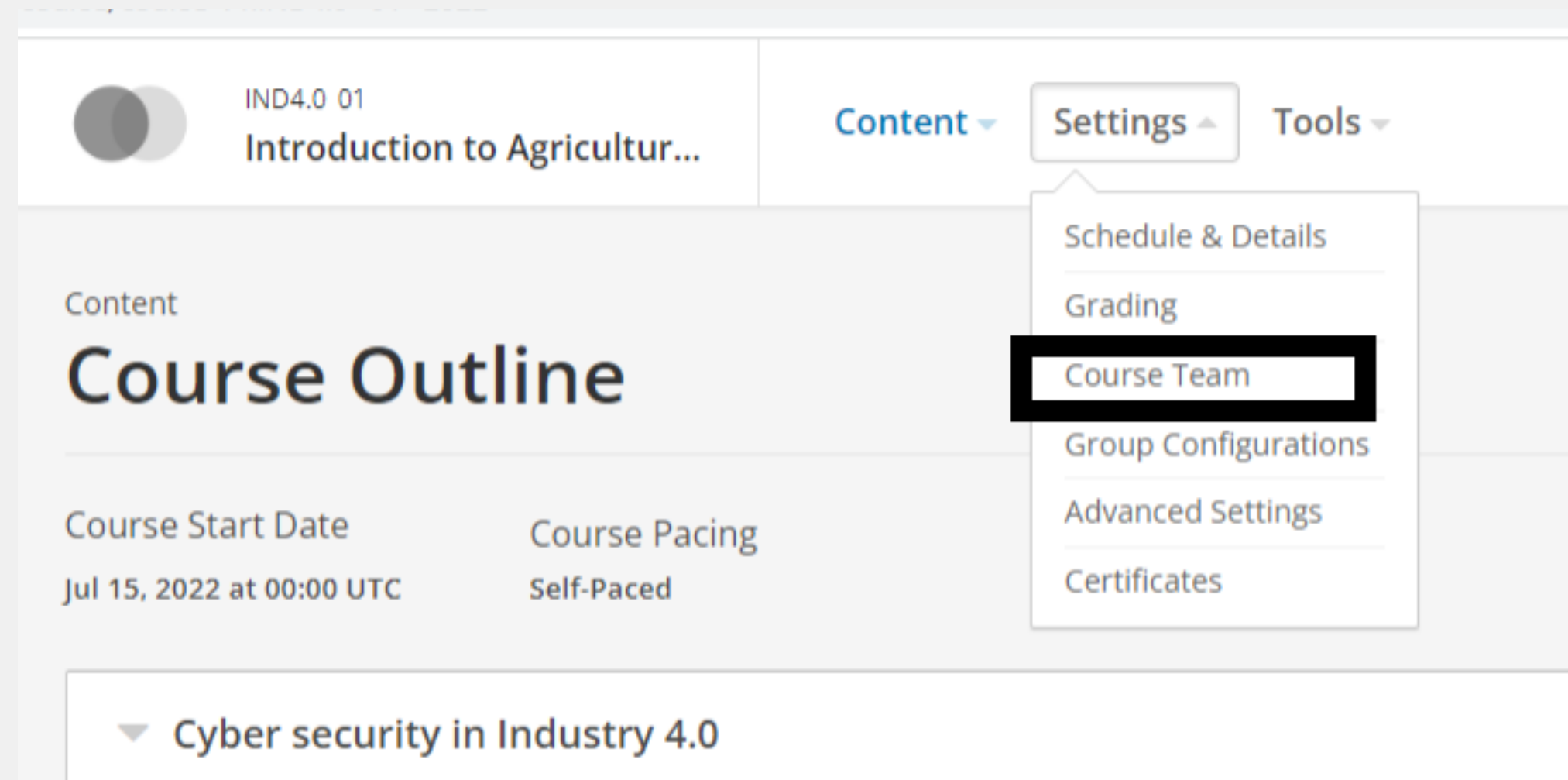
CANCEL

# TEAM MEMBERS

4. To add a team member we click on "Settings" and "Course team".

We press on "Add new team member".

It is a prerequisite that the person that we want to give access, to has already created an account and registered on the platform.



The screenshot displays a course management interface. At the top, there is a header bar with a toggle switch, the course ID "IND4.0 01", and the course title "Introduction to Agricultur...". To the right of the header are three menu items: "Content", "Settings", and "Tools". The "Settings" menu is open, showing a list of options: "Schedule & Details", "Grading", "Course Team", "Group Configurations", "Advanced Settings", and "Certificates". The "Course Team" option is highlighted with a black rectangular box. Below the header, the main content area shows "Content" and "Course Outline". Under "Course Outline", there are two columns: "Course Start Date" with the value "Jul 15, 2022 at 00:00 UTC" and "Course Pacing" with the value "Self-Paced". At the bottom of the interface, there is a dropdown menu with the text "Cyber security in Industry 4.0".



# TEAM MEMBERS

Settings

## Course Team

ADMIN

**Petros** [chondros@read-lab.eu](mailto:chondros@read-lab.eu)

Promote another member to Admin to remove your admin rights

### Add Team Members to This Course

Adding team members makes course authoring collaborative. Users must be signed up for Studio and have an active account.

[+ Add a New Team Member](#)

# TEAM MEMBERS

We enter the email address that our partner has used when registering on the platform

The screenshot shows the 'Course Team' settings page for a course titled 'IND4.0 01 Introduction to Agricultur...'. The page has a navigation bar with 'Content', 'Settings', and 'Tools' menus. The main heading is 'Settings Course Team'. Below this is a section titled 'Add a User to Your Course's Team' which contains a form for 'User's Email Address \*' with a text input field containing 'example: username@domain.com' and a note: 'Provide the email address of the user you want to add as Staff'. At the bottom of this section are 'ADD USER' and 'CANCEL' buttons. Below the form is a list of team members, with one member 'Petros chondros@read-lab.eu' shown as an 'ADMIN'. A note next to the admin member says 'Promote another member to Admin to remove your admin rights'. At the bottom of the page is a section 'Add Team Members to This Course' with a note: 'Adding team members makes course authoring collaborative. Users must be signed up for Studio and have an active account.' and a button '+ Add a New Team Member'.

# NEXT STEPS

5. Choose your course and then click the Setting button and Schedule and details.

6. Choose Self-Paced option in order to make all course content available at once, or Instructor-Paced option in order to configure release dates for the course content

Settings


## Schedule & Details

---

### Basic Information

Organization	Course Number	Course Run
IND4.0	01	2022

Course Summary Page (for student enrollment and access)  
<https://mooc-project.eu/courses/course-v1:IND4.0+01+2022/abo>



---

### Course Pacing

Instructor-Paced

Instructor-paced courses progress at the pace that the course author sets. You can configure release dates for assignments.

Self-Paced

Self-paced courses do not have release dates for course content or due dates for assignments. Let students start at any time until the course end date.

# Next steps

7. In the Course Schedule section, you can set the dates your course will start/end and the time period when learners can enroll to the course

## Course Schedule

Course Start Date

10/01/2022

First day the course begins

Course Start Time

(UTC)

00:00

Course End Date

10/01/2023

Last day your course is active

Course End Time

(UTC)

00:00

Enrollment Start Date

10/01/2022

First day students can enroll

Enrollment Start Time

(UTC)

00:00

Enrollment End Date

10/01/2023

Enrollment End Time

(UTC)

00:00



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# Next steps

## 8 .Course Details

In this section you can fill the information of the course you want to appear on the VLE

- Course Overview: is the section where you add a brief description of what your is about
- Requirement: If you have any prerequisites this is the section where you should mention
- Staff: there you can add a short bio & a photo of the instructor

### Course Details

Provide useful information about your course

Course Language  
English

Identify the course language here. This is used to assist users find courses that are taught in a specific language. It is also used to localize the 'From:' field in bulk emails.

### Introducing Your Course

Information for prospective students

Course Short Description

Agriculture/Aquaculture 4.0, as part of the Industry 4.0 paradigm, concerns the transformation of farming processes through the integration of modern technologies such as sensors, communication, and computational processing. Technologies such as Cyber-Physical Systems (CPS), Internet of Things (IoT), Cloud Computing, and Artificial Intelligence (AI) are being used to improve efficiency, productivity, and sustainability in the agricultural sector.

Appears on the course catalog page when students roll over the course name. Limit to ~150 characters

### Course Overview

About This Course

Paragraph Font Family B I U A

Upon completion of this course, learner should be able to:

- understand the various stages of industrial revolutions,
- understand the Future of Agriculture/Aquaculture and the skillset needed,
- recognise the drivers, enablers and compelling forces for Agriculture/Aquaculture 4.0's advancement,
- identify the role and importance of data and cloud computing in Agriculture/Aquaculture 4.0,

describe how organizations and knowledge workers can better prepare for Agriculture/Aquaculture 4.0.

### Requirement

Paragraph Font Family B I U A

Add information about the skills and knowledge students need to take this course.

# Steps in order to structure your Course

In order to design the structure of each course, partners shall follow the Professional/VET Course outline they provided at a national level, in the context of the Deliverable.

1. Search your Course on the main page of the Studio
2. Choose and click on the course you want to work with

# Steps in order to structure your Course

3. Click on SECTION and insert the name of your Module 1 (you may want to keep the word "Module" for better structure) (You can add as many Modules as you wish)

4. Under Module one there is a button New Subsection where you will insert the name of the Lesson (You can add as many Lessons as you wish).

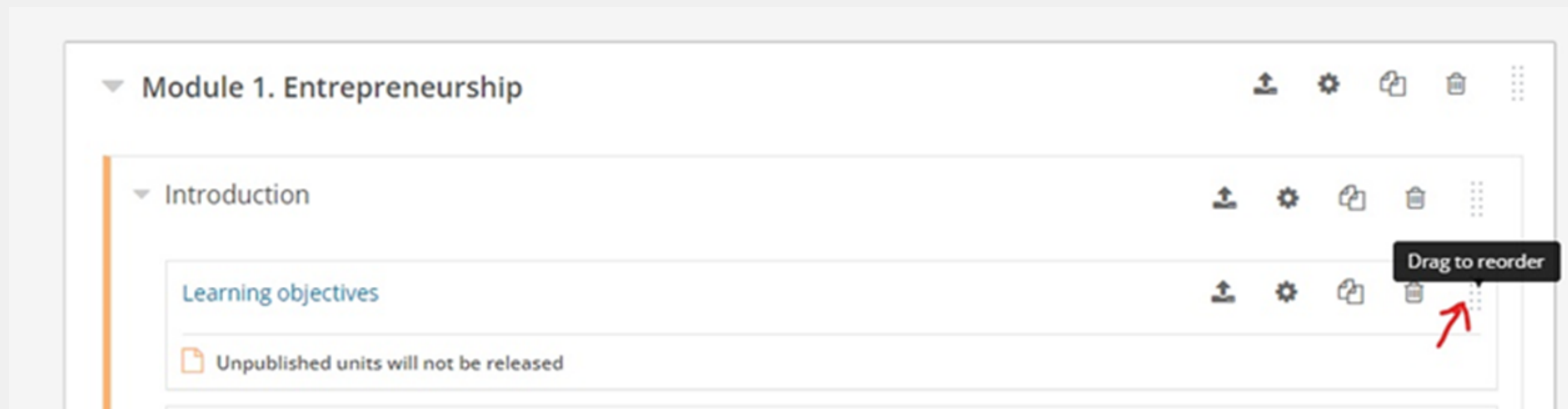
The screenshot displays a hierarchical course structure interface. At the top level, there is a 'Section' header with a dropdown arrow, a settings gear icon, a share icon, a trash icon, and a more options menu icon. Below the 'Section' header is a 'Subsection' header, also with a dropdown arrow and the same set of icons. Under the 'Subsection' header, there are three buttons: '+ New Unit', '+ New Subsection', and '+ New Section'. Each button is contained within a rectangular box. The 'Subsection' header and its associated icons are highlighted with a blue border.

# Steps in order to structure your Course

5. If your Lesson consists of Units too, click on the button New Unit to add (You can add as many Units as you wish)

Section = Module   Subsection = Lesson   New Unit = Unit

6. If you need to change the order of the units, you must click on the dots at the right and drag the unit where you want it to be



# Steps in order to

# structure your Course

In order to fill out the content of each Lesson-Unit you must click on each of them and add the component you want to.

Instructors can include one or more of the following options:

**Text:** text components are the basic building blocks of your course content. You use

Text components to add and format text, links, images, and more

**Visual** videos and transcripts

**Embed** for embedding document such as Google for embedding a single web

page, for embedding a learning resource in the course package

**Problem** for adding interactive assessments e.g. Checkboxes, Multiple choice,

Dropdown, Numerical input, Text input, Custom Python evaluated field, Open

response Assessment

Social Discussion, poll etc.

# Steps in order to structure your Course

In order to fill out the content of each Lesson-Unit you must click on each of them and add the component you want to.

Instructors can include one or more of the following options:

Section / Subsection

Unit



Add New Component



Text



Visuals



Embed



Problem



Social

# Steps in order to structure your Course

Text:

Visuals :

Embedded :

Problem:


Social :



# Steps in order to structure your Course

In case you want to upload a video, PDF or PPT file you have first to upload them on "Files & Uploads" by clicking on "Content" and then insert their link.

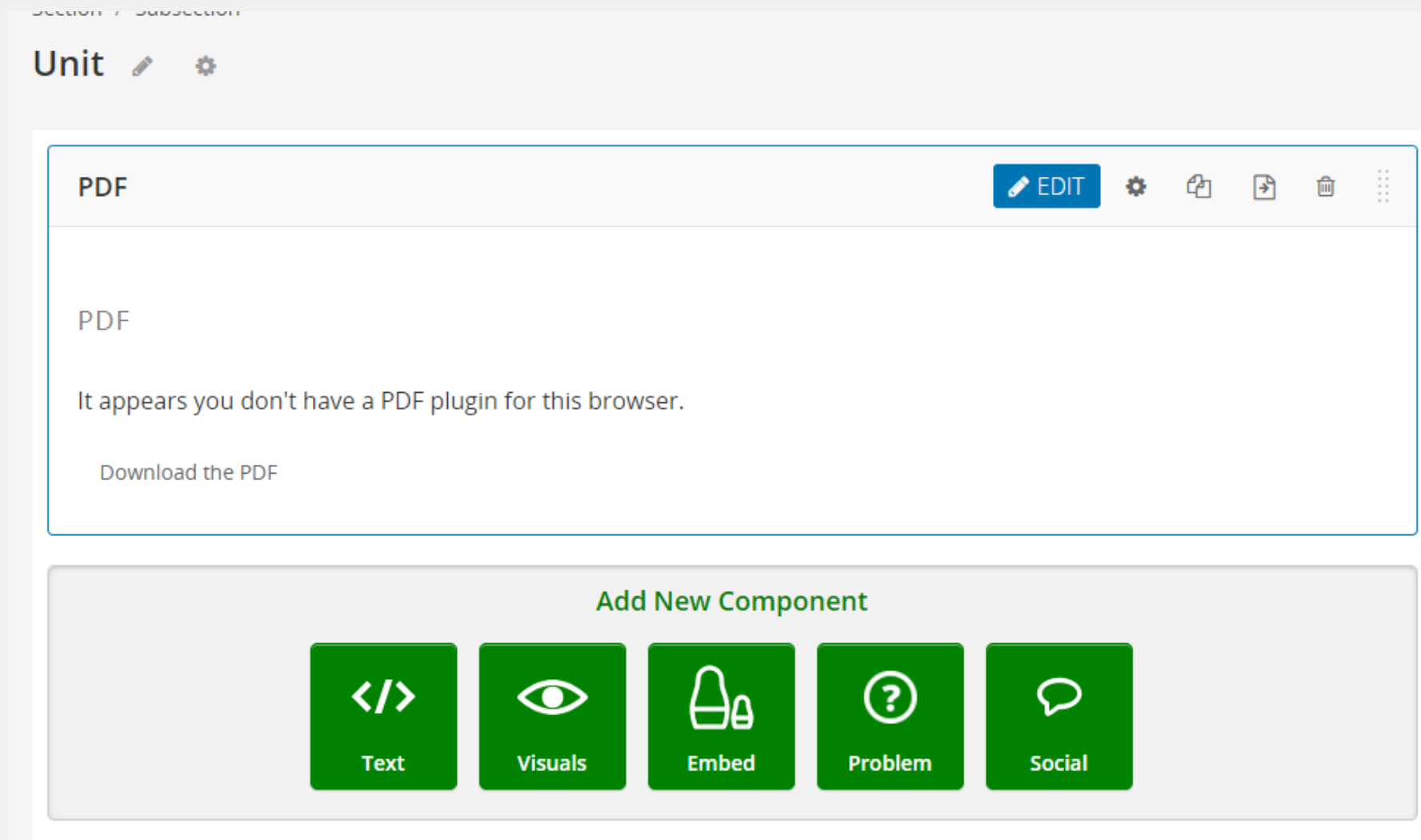
The screenshot shows the Canvas LMS interface for a course titled "IND4.0 01 Introduction to Agricultur...". The "Content" menu is open, showing options: Outline, Updates, Pages, Files & Uploads, and Textbooks. The "Files & Uploads" section is active, displaying "Upload files" and a search bar. Below the search bar, it says "Showing 1-1 out of 1 total file." A table lists the file:

Name	Type	Date Added	Copy URL
 image 1.jpg	image/jpeg	Jul 13, 2022 at 08:51 UTC	<a href="#">Studio</a> <a href="#">Web</a>

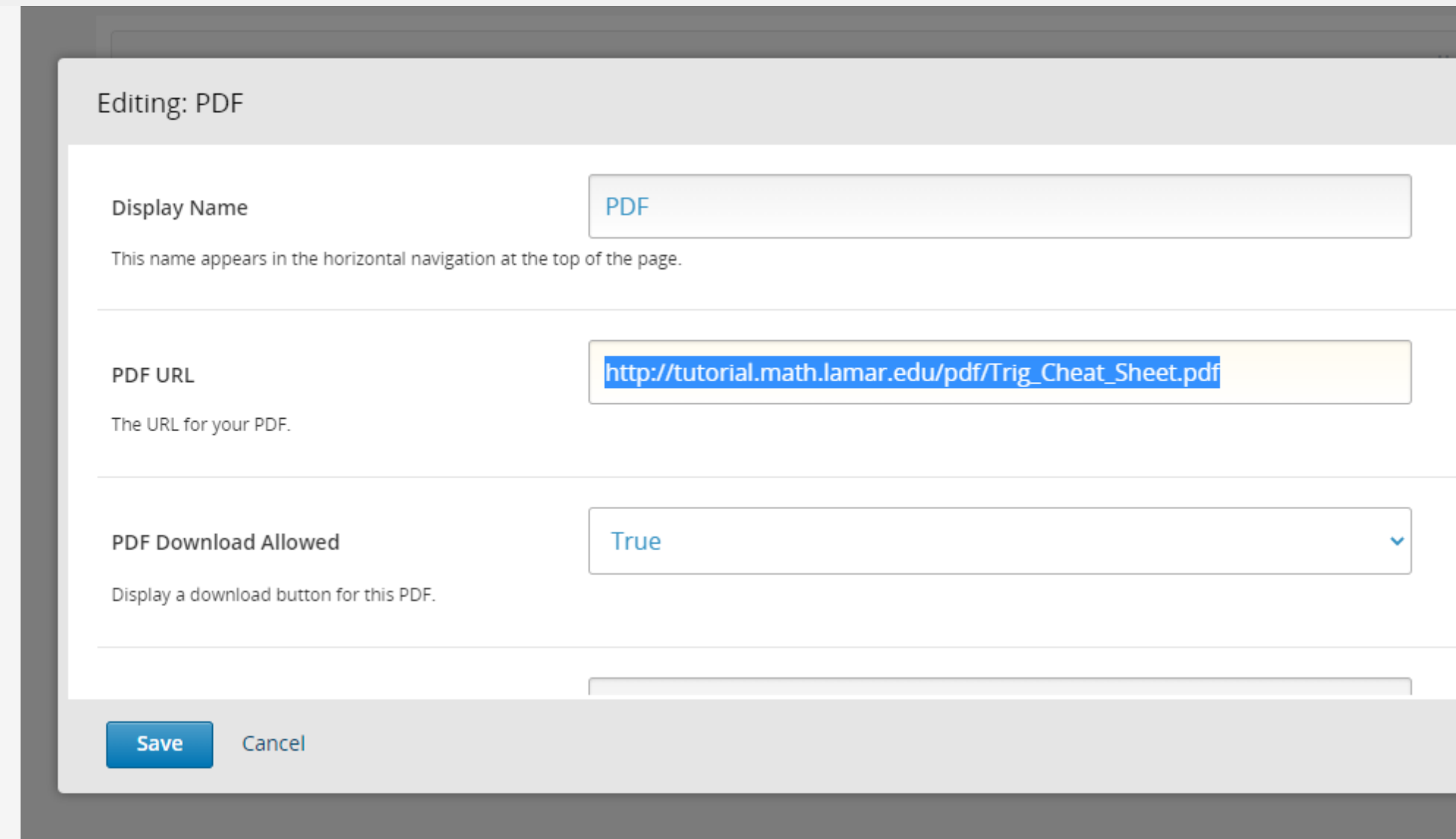
The "Get the link" button is highlighted in red. Below the table, it says "Maximum file size: 100 MB".

# Steps in order to structure your Course

In case you want to upload a video, PDF or PPT file you have first to upload them on "File uploads" by clicking on "Content" and then insert their link.



The screenshot shows a course editor interface. At the top, there is a "Unit" header with edit and settings icons. Below it, a PDF component is displayed. The component has a title "PDF" and an "EDIT" button. The main content area shows a message: "It appears you don't have a PDF plugin for this browser." with a "Download the PDF" link. At the bottom, there is a "Add New Component" section with five green buttons: "Text", "Visuals", "Embed", "Problem", and "Social".



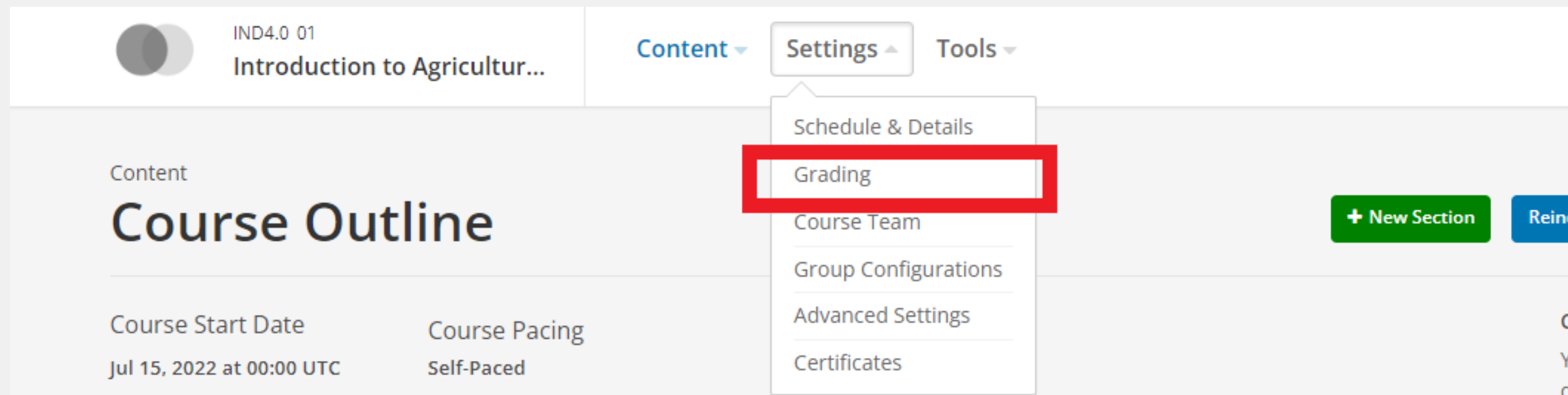
The screenshot shows the "Editing: PDF" configuration panel. It has the following fields and options:

- Display Name:** A text input field containing "PDF". Below it, a note says "This name appears in the horizontal navigation at the top of the page."
- PDF URL:** A text input field containing the URL [http://tutorial.math.lamar.edu/pdf/Trig\\_Cheat\\_Sheet.pdf](http://tutorial.math.lamar.edu/pdf/Trig_Cheat_Sheet.pdf). Below it, a note says "The URL for your PDF."
- PDF Download Allowed:** A dropdown menu set to "True". Below it, a note says "Display a download button for this PDF."

At the bottom of the panel, there are "Save" and "Cancel" buttons.

# Steps in order to structure your Course

We decide on the grading policy by clicking on grading and then setting the threshold and as well as the type of assessment that will be required for students.



The screenshot displays a course management interface for 'IND4.0 01 Introduction to Agricultur...'. The top navigation bar includes 'Content', 'Settings', and 'Tools'. The 'Settings' dropdown menu is open, showing options: 'Schedule & Details', 'Grading' (highlighted with a red box), 'Course Team', 'Group Configurations', 'Advanced Settings', and 'Certificates'. The main content area shows 'Course Outline' with details for 'Course Start Date' (Jul 15, 2022 at 00:00 UTC) and 'Course Pacing' (Self-Paced). A '+ New Section' button is visible on the right.

# Steps in order to structure your Course

We decide on the grading policy by clicking on grading and then setting the threshold as the type of assessment that will be required for students.

### Overall Grade Range

Your overall grading scale for student final grades

0 10 20 30 40 50 60 70 80 90 100

Fail 0-50 Pass 50-100

---

### Grading Rules & Policies

Deadlines, requirements, and logistics around grading student work

Grace Period on Deadline:

Leeway on due dates

---

### Assignment Types

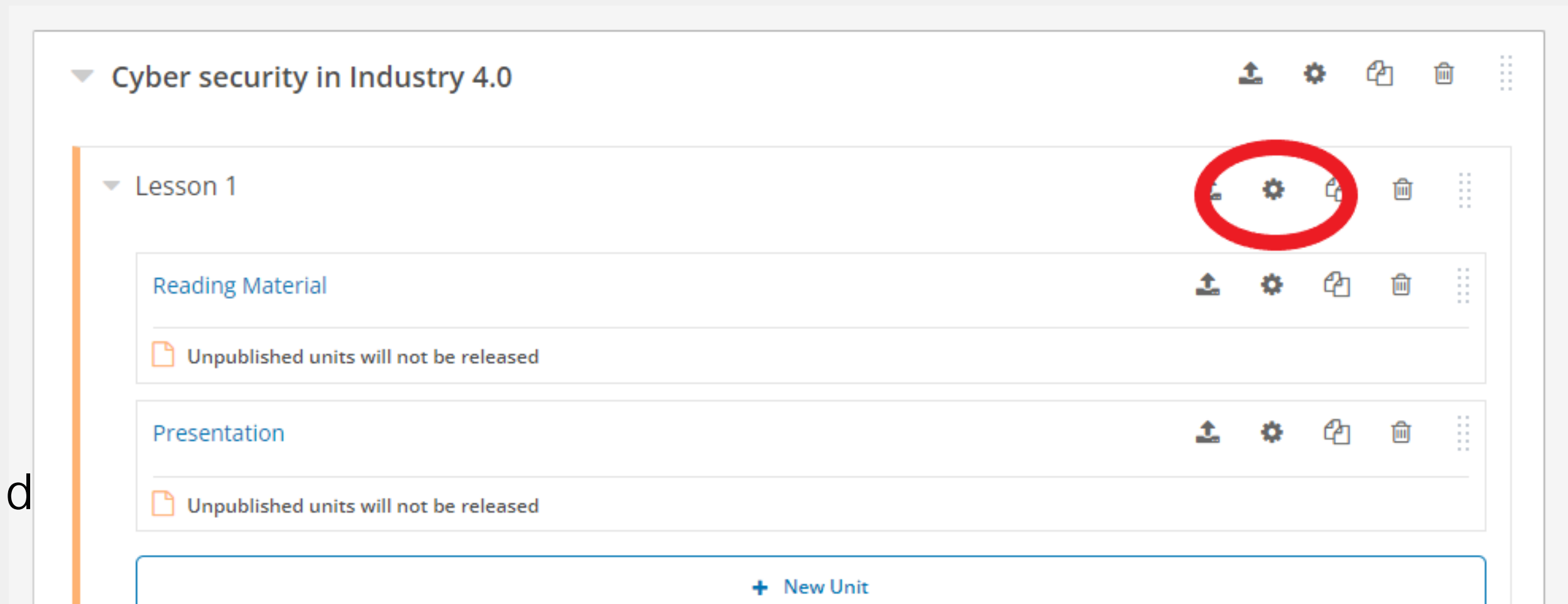
Categories and labels for any exercises that are gradable

<p>Assignment Type Name</p> <input type="text" value="Homework"/> <p>The general category for this type of assignment, for example, Homework or Midterm Exam. This name is visible to learners.</p>	<p>Abbreviation</p> <input type="text" value="HW"/> <p>This short name for the assignment type (for example, HW or Midterm) appears next to assignments on a learner's Progress page.</p>	
<p>Weight of Total Grade</p> <input type="text" value="100"/> <p>The weight of all assignments of this type as a percentage of the total grade, for example, 40. Do not include the percent symbol.</p>	<p>Total Number</p> <input type="text" value="1"/> <p>The number of subsections in the course that contain problems of this assignment type.</p>	<p>Number of Droppable</p> <input type="text" value="1"/> <p>The number of assignments of this type that will be dropped. The lowest scoring assignments are dropped first.</p>

What  
You ca  
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pass/f  
the th  
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studen  
You ca  
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specif  
assign  
Other  
Detail  
Cours  
Group  
Advar

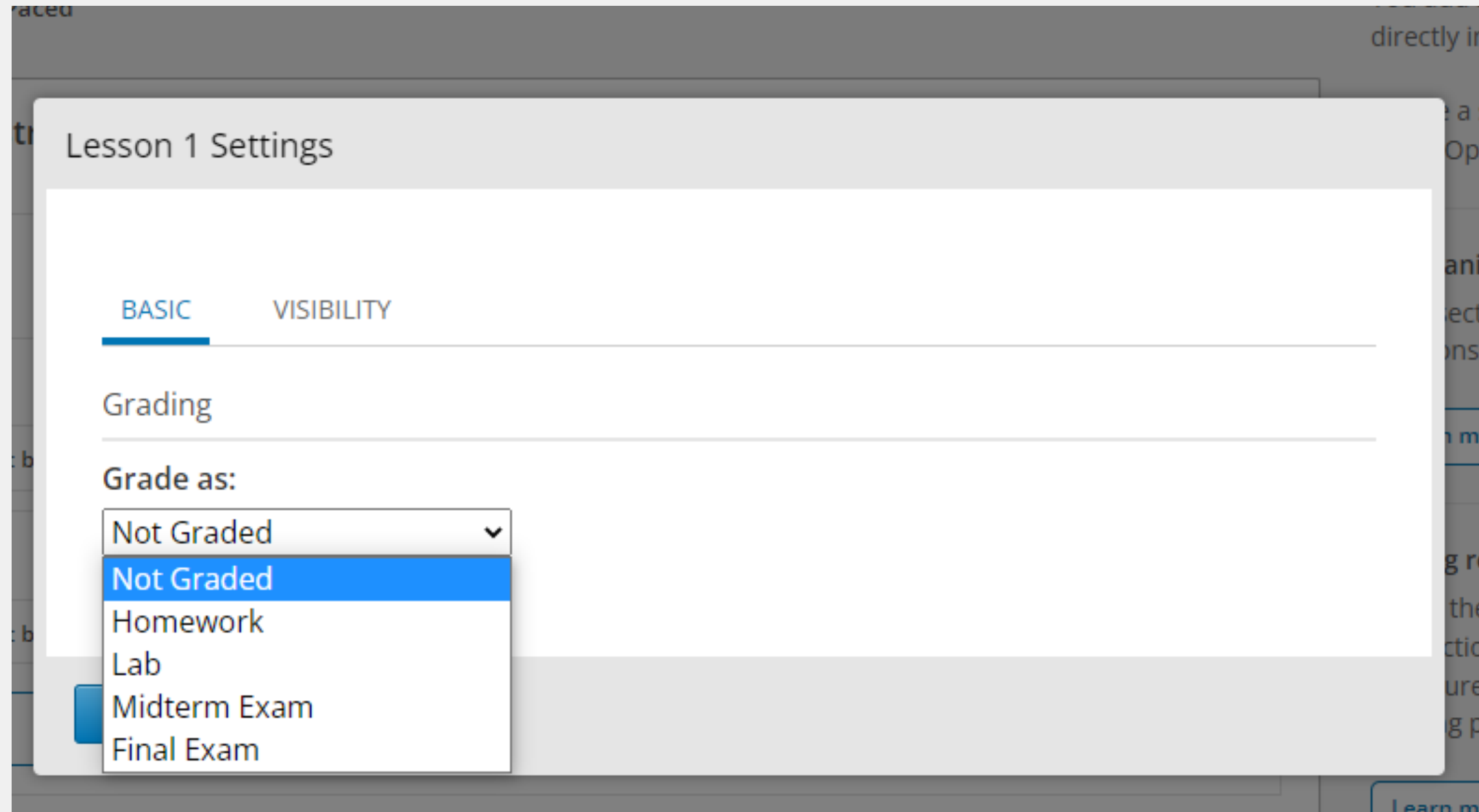
# Steps in order to structure your Course

After that we need to go back to the course outline and specify which assessments will be graded



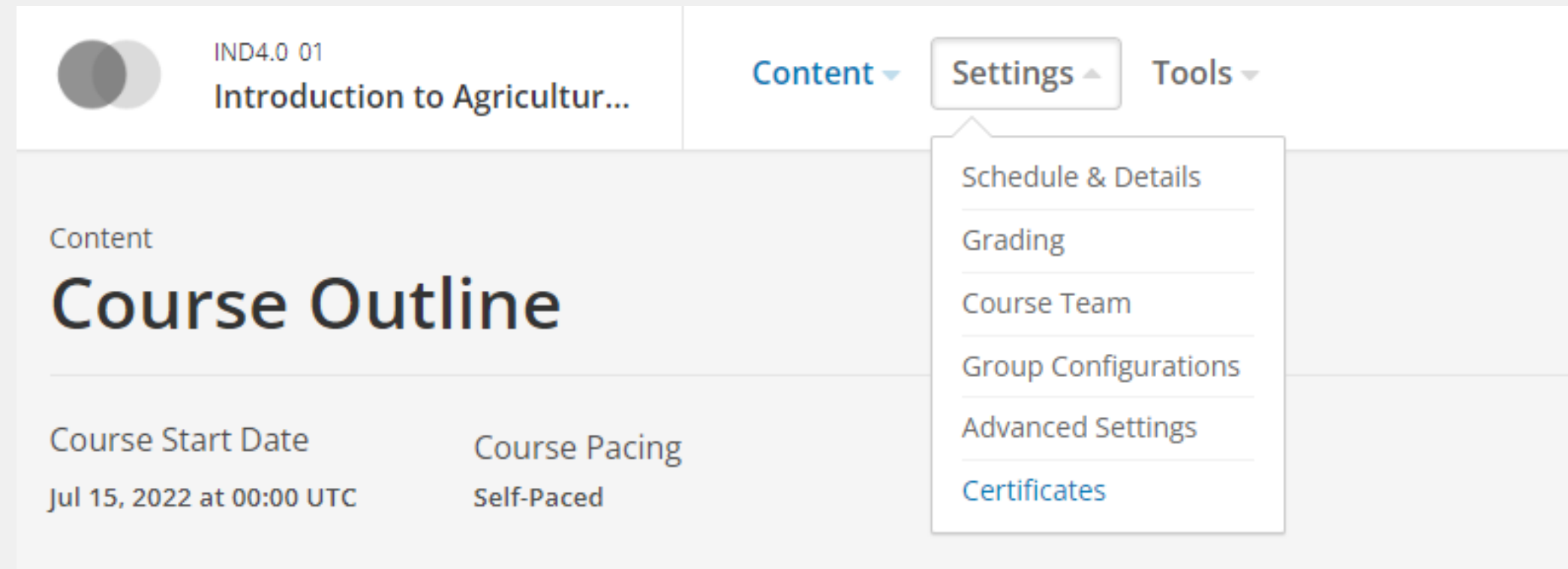
# Steps in order to structure your Course

After that we need to go back to the course outline and specify which assessments will be graded

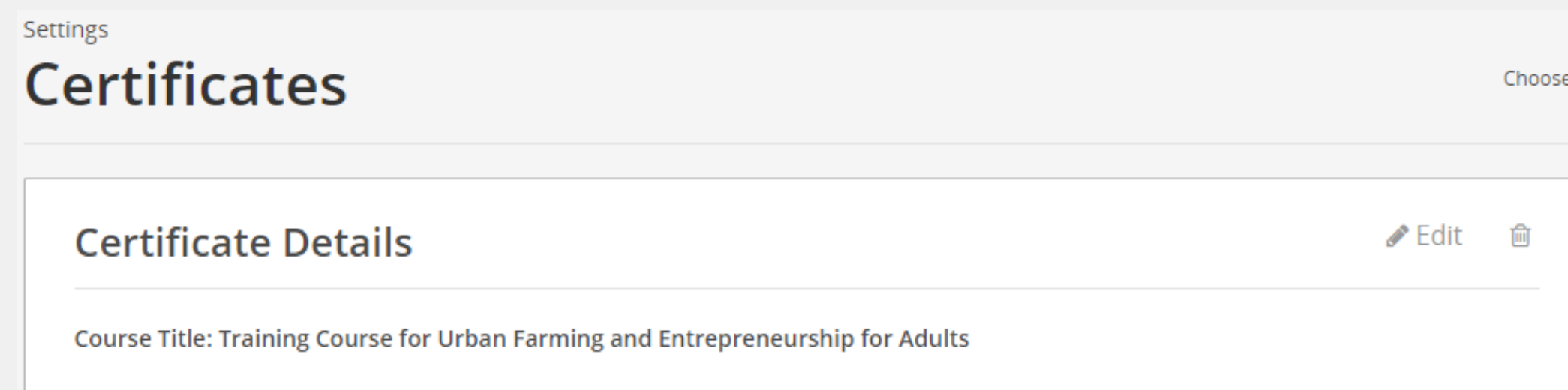


# Steps in order to structure your Course

From the Certificates, we click on "Settings" and then "Certificates" and edit.



The screenshot shows the course settings interface for 'IND4.0 01 Introduction to Agricultur...'. The 'Settings' dropdown menu is open, showing options: Schedule & Details, Grading, Course Team, Group Configurations, Advanced Settings, and Certificates. The 'Course Outline' section is visible below the menu, showing 'Course Start Date' as 'Jul 15, 2022 at 00:00 UTC' and 'Course Pacing' as 'Self-Paced'.

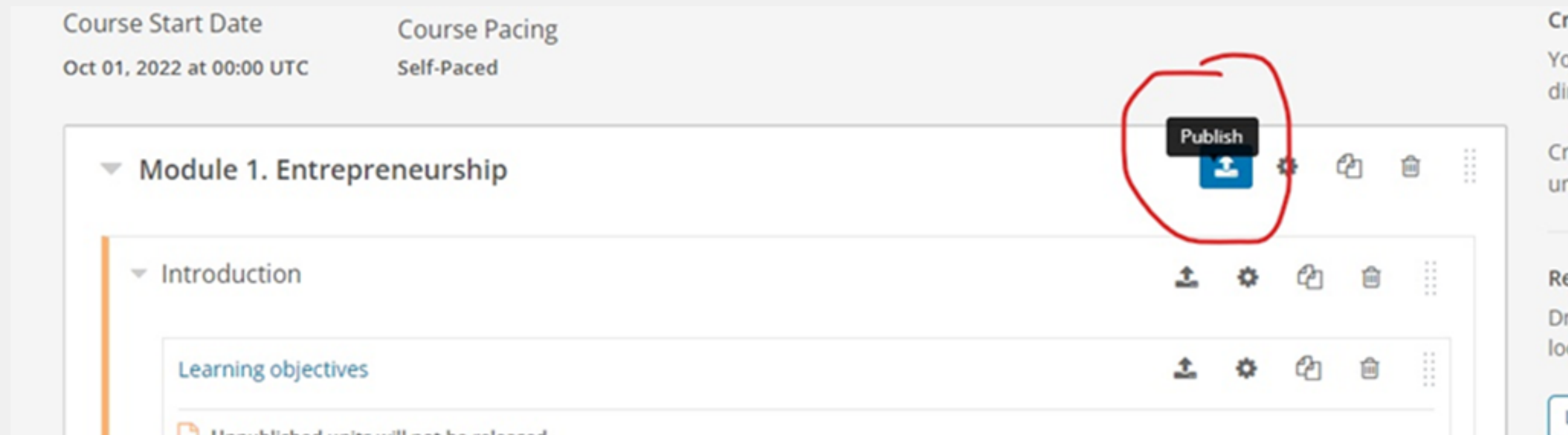


The screenshot shows the 'Certificates' settings page. The title is 'Certificates' with a 'Choose' link on the right. Below the title, there is a section for 'Certificate Details' with an 'Edit' button and a trash icon. The 'Course Title' is 'Training Course for Urban Farming and Entrepreneurship for Adults'.

# Steps in order to structure your Course

When you feel ready to make the structure of your course available online, you can press the button PUBLISH.

If you click Publish for the whole Module there is no need to do it separately for each Lesson and Unit.



The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

# FINAL RESULT

The screenshot shows a course page for "INTRODUCTION TO AGRICULTURE/AQUACULTURE 4.0". The page features a navigation bar with options like COURSE, DISCUSSION, WIKI, PROGRESS, INSTRUCTOR, and INSTRUCTOR ANALYTICS. A prominent red button labeled "START COURSE" is visible. A notification states "Course starts in 1 day on Jul 15, 2022. Don't forget to add a calendar reminder!" with an "EXPAND ALL" button. The course content is organized into sections, with "Cyber security in Industry 4.0" expanded to show lessons 1 through 4. A sidebar on the right includes a search bar, "COURSE TOOLS" with a "BOOKMARKS" link, and "IMPORTANT COURSE DATES" indicating the current date and the start date.

Ind4.0  
Master Degree in Industry 4.0  
510425-EPF-1-2019-1-MY-EPN/A2-CBHE-IP

DISCOVER NEW • SYSADMIN

HELP Giannaki

COURSE DISCUSSION WIKI PROGRESS INSTRUCTOR INSTRUCTOR ANALYTICS

INTRODUCTION TO AGRICULTURE/AQUACULTURE 4.0 START COURSE

! Course starts in 1 day on Jul 15, 2022.  
Don't forget to add a calendar reminder!

> EXPAND ALL

▼ Cyber security in Industry 4.0

- ▼ Lesson 1
- > Lesson 2
- > Lesson 3
- > Lesson 4

> Section

Search the course

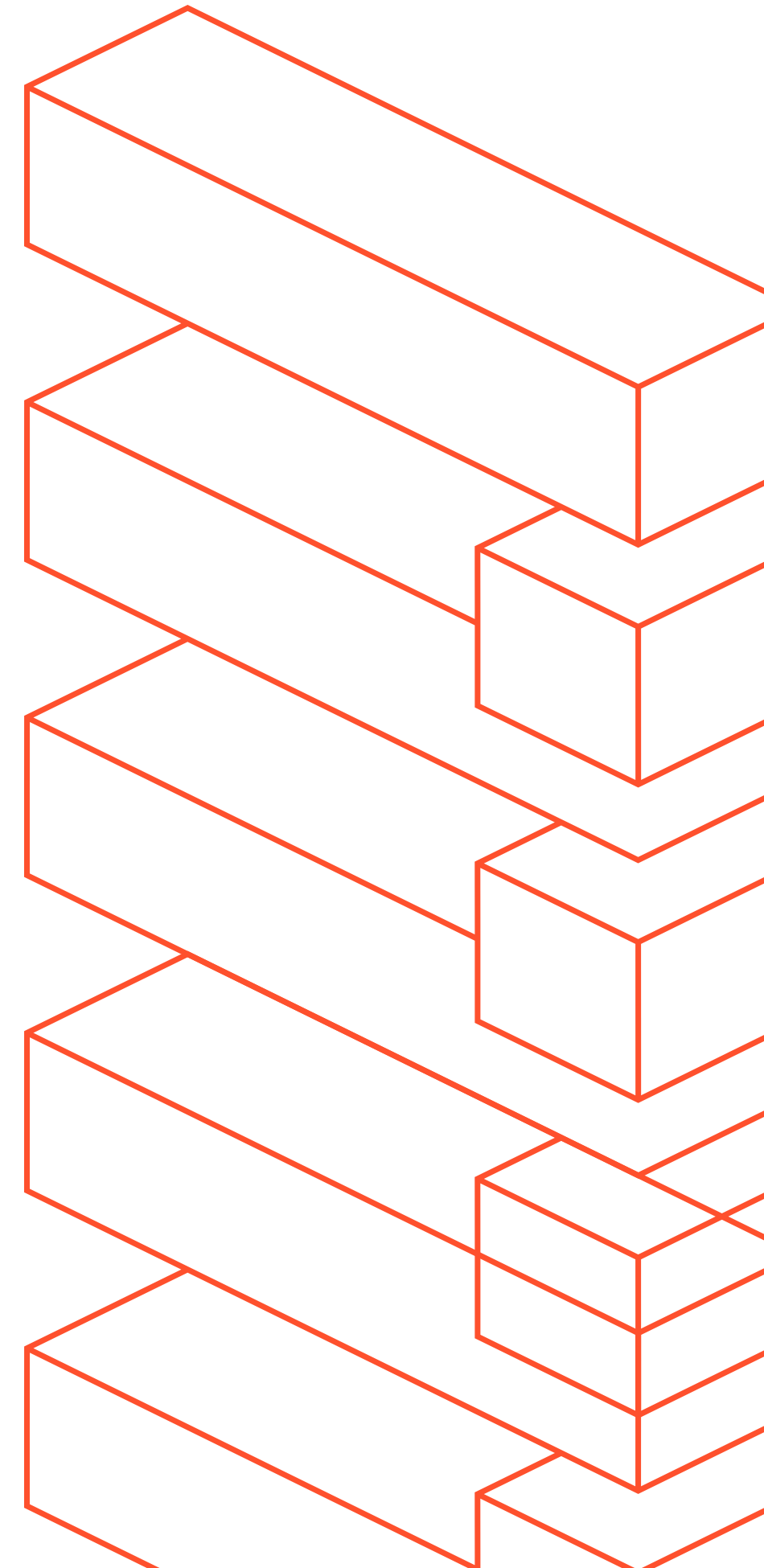
COURSE TOOLS

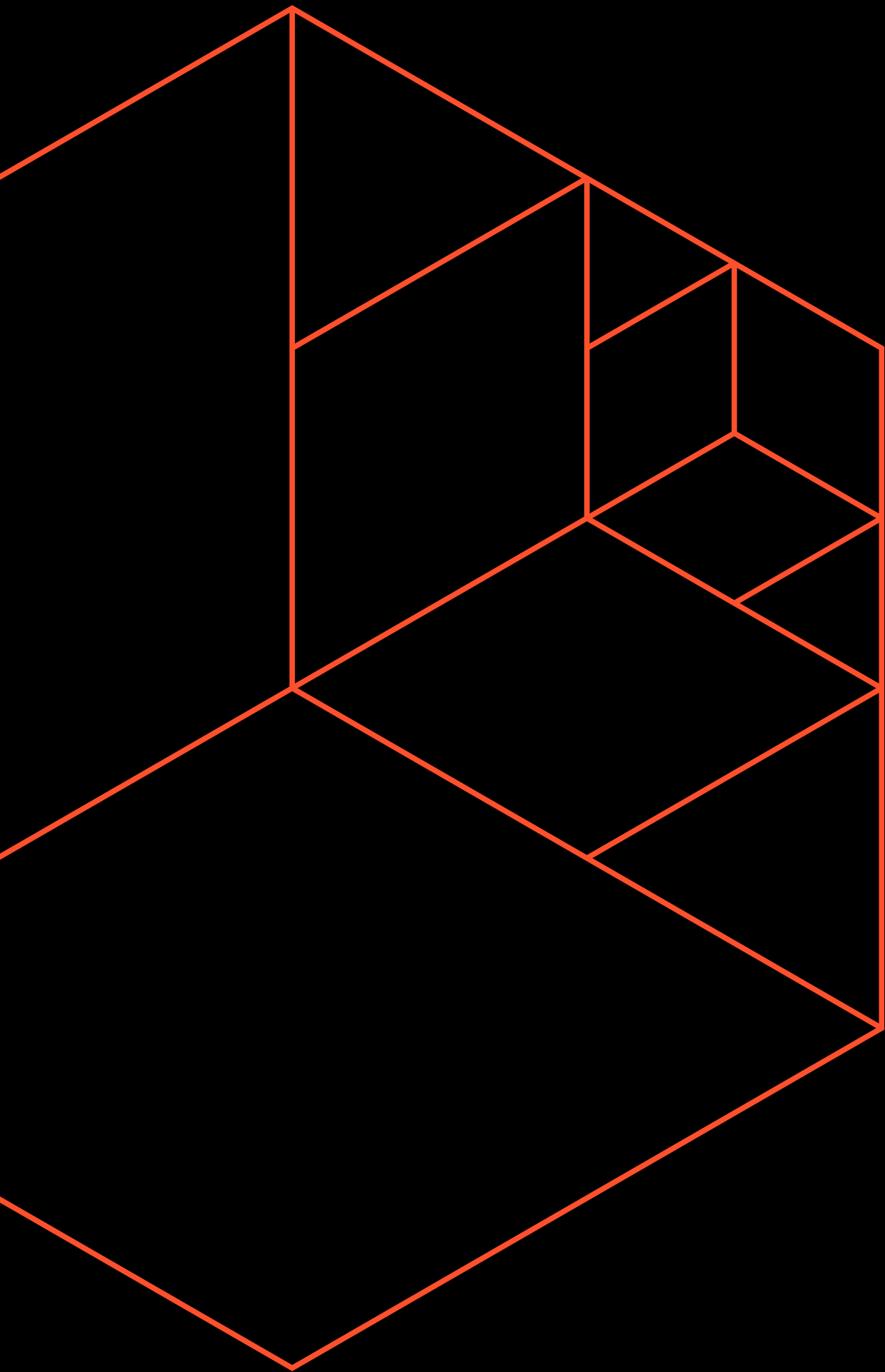
BOOKMARKS

IMPORTANT COURSE DATES

Today is Jul 13, 2022 17:03 EEST

Course Starts  
in 1 day - Jul 15, 2022





THANK YOU!

