

QUESTIONNAIRE FOR AGRICULTURAL VET TEACHERS

Activity: O2/A1

Version 3.0

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Preface

Dear Teacher!

We would like to ask for your help and assistance in our project aimed at preparing agricultural vocational education teachers to teach topics in e-agriculture.

The aim of the AGRITEACH 4.0 project is to help vocational agricultural teachers to renew and revise their current teaching methods by providing free and open online distance education courses in e-agriculture.

Our questionnaire is intended to assess:

- your current Agro-informatics competence levels
- your knowledge of e-agriculture and related technologies
- the extent to VET schools are currently teach e-agriculture and related technologies, European Strategies and initiatives of e-Agriculture, and apply innovative teaching methods
- your expectations for this online course

In order for agricultural teachers to successfully complete the online course, and gain a certificate from our project, they will need to demonstrate an understanding not only of agriculture, but also of the latest agrarian informatics tools, the latest technologies and agricultural trends.

We believe that educated teachers with well-founded agronomic competencies will go on to train professionals able to manage your business's agricultural information technology and tools, and engage with the experts and businesses that devise the strategies for the effective functioning of your farms.

The questionnaire is both voluntary and anonymous. It takes approximately 15 minutes to complete. You can find out more about the project, and fill out the questionnaire, at: <https://www.utipa.info/survey>

The results of the survey, and the background to AGRITEACH 4.0, will be published on the project at www.agriteach.com

Thank you for your contribution!

QUESTIONS

1. The name of the Institution where you currently work
.....

2. Your Institution's educational involvement
 - school offering only theoretical training
 - school offer theoretical and practical training
 - practical training school

3. Your age:
.....

4. Your highest qualification:
 - Vocational School
 - Graduate / Technician
 - College / BSC
 - University / MSC

5. Your status:
 - Occasional lecturer
 - Part-time lecturer
 - Fixed-term employment contract
 - Indefinite employment contract

6. Your area of expertise:
 - Crop production
 - Horticulture
 - Livestock farming
 - Agricultural engineering

7. Which part of the education process do you participate in?
 - theoretical education
 - practical training
 - both

8. How long have you been teaching in your field of expertise?
 - 0-2 years
 - 3-5 years
 - 6-9 years
 - 10-24 years
 - more than 25 years

9. Do you have any business experience in your field of expertise?
 - *yes*
 - *no*

10. Do you know what the term Common Agricultural Policy (CAP) means?

- I know of it and use it
- I know of it, but don't use it
- I don't know of it

11. Are you familiar with the term Agricultural Knowledge Information System (AKIS)

- I know of it and use it
- I know of it, but don't use it
- I don't know of it

12. Do you know / use the following teaching methods during your teaching?

	I know it and apply it during my lessons	I know it, but I have not yet applied it during my lessons	I don't know it, but I would love to learn about it	I do not know it and I'm not interested in it
project method				
creative classroom				
flipped classroom				
problem based learning				
inquiry based learning				

13. Does the current curriculum in your school include Vocational English for ICT lessons?

- yes
- no

14. If so, what is the quality of your school's Vocational English for ICT teaching?

- very good
- good
- acceptable
- not good

if not 'good', what is the main problem with it? Describe

.....

15. Rank how important you think is to develop the following student skills.

	very important	important	not important
critical thinking, problem solving, decision making			
creativity and innovation			
communication			
collaboration and teamwork			
information literacy			
sense of initiative and entrepreneurship, life and career			

16. Do you use Information and Communication Technology (ICT) tools during your lessons? (Tick all that apply)

- Laptop
- Desktop computer
- Smart card
- Smartphone
- Voting system
- Printer
- Scanner
- Internet access / network access devices
- None

17. How does ICT and technology support the functioning and development of your institution? (Tick all that apply)

- Facilitates day-to-day work and administration;
- It is indispensable for the functioning and development of the institution;
- It has little effect on operations;
- It does not have any effect on operations.

18. Do you use ICT tools related to agriculture in education?

- yes
- no

If 'yes', describe which ones you use.

...

19. Do you use online education platforms for your educational activities (e.g. Moodle, Canvas, Edmodo, Kahoot, etc.)

- yes
- no

If 'yes', describe which ones you use.

...

20. Do you include knowledge about agricultural information technologies in your curriculum/syllabus?

- yes
- no

If 'yes', describe which ones you use.

...

21. Do you think that current curricula contain up-to-date, and sufficient, knowledge of agricultural ICT tools?

- Yes, I think current agricultural ICT content is appropriate
- It contains some, but not enough for today's student
- There is very little knowledge about agricultural ICT in the curriculum

Other views? Describe.

...

22. Which factors hinder you most about incorporating knowledge and use of agricultural ICT tools into your teaching materials? (Tick all that apply)

- lack of agricultural ICT tools
- lack of online educational materials
- lack of time
- lack of interest
- lack of my own understanding

Other views? Describe.

...

23. In which areas of agricultural education would it most useful to introduce the teaching of agricultural ICT? (Tick all that apply)

- Crop production
- Horticulture
- Livestock
- Mechanical engineering
- All areas based on their specific characteristics
- It would be useful to create a specific position competent in basic Agricultural ICT skills

Other views? Describe.

...

24. How do you generally enhance your own ICT competence?

- if I need specific knowledge, I enrol on a course
- from my friends and acquaintances
- I use online resources, including OER study materials

Other views? Describe.

...

25. Do you think it necessary to ensure that students become familiar with the latest technologies?

- yes
- no

26. Do you think that teaching students how to use agricultural ICT tools should be mandatory?

- yes, essential
- yes, optional
- no
- I am not aware of any agricultural ICT tools.

27. If you had the opportunity, would you incorporate the teaching of agricultural ICT tools into your curriculum?

- yes, fully
- yes, in part
- no

28. Would you attend a training course to prepare you how to teach about agricultural ICT tools and technologies?

- yes
- no

29. Rank the importance (1: not important at all; 5: very important.) of the professional knowledge, skills, other competencies in the table below which you consider important during ICT training.

<i>On completing an ICT course, a professional teacher should....</i>	1	2	3	4	5
know how to use, install and operate various agricultural software tools					
Understand the operation of various agricultural hardware devices and the basics of their maintenance					
know the basics of installing and operating e-agriculture detectors					
know the requirements of e-administration for the enterprise (applications, returns, data services).					
be aware of the basics of web page management, and in using general content management and administration features.					
be able to program independently, to develop custom software that meets the specific needs of a company.					
know the meaning and use of agricultural ICT terminology - the basic definitions and terms.					
know and use appropriate pedagogical methods to teach the basic knowledge of agricultural ICT to students.					
know the operation of various data transfer devices					
be aware of the legality and ethics of ICT tools.					
know and use online teaching curricula, OERs and assessments.					
be able to search for current agronomic developments and descriptions.					
be able to enhance ones knowledge independently.					

30. Identify which of the following concepts you know (Tick all that apply).

- Precision management
- Farming 4.0
- Cloud based ICT system
- Big data analytics
- Telematics
- Artificial Intelligence
- E-Agriculture
- None

If you selected either of first two points (Precision management or Farming 4.0), answer the following questions.

1. Do you know about navigation and automatic steering, the benefits and possible use?

- I know of them and use them
- I know of them, but don't use them
- I don't know of them

If you use them, describe what actual technologies you are using.

...

2. Do you know the following terms (Tick all that apply)?

- GNSS
- GPS
- GLONASS
- EGNOS
- Galileo
- RTK
- I do not know any of them

3. Do you know how different sensors can be used in precision agriculture?

- Yes, I know and make use of them
- Yes, I know about them but I do not make use
- I do not know of them

If you are using sensors, describe those that you make use of.

...

3. Are you aware of the use of robotics in agriculture?

- Yes, and I make use of them
- Yes, I've heard them but do not make use of them
- I do not know about this

If you use such tools, describe what you use.

...

5. Do you know how to use antenna and remote sensing?

- Yes, I know about them and make use of them
- Yes, but I do not use them
- I do not know about them.

If you use such tools, describe how you use them.

...

6. Do you know what Copernicus and LandSat are?

- yes
- no

7. Do you use software for remote sensing data analysis?

- yes
- no

If 'yes' which packages do you use?

...

8. Do you know about Geographic Information Systems?

- Yes, I know of these and use them
- Yes, I know of them but do not use them
- I do not know about them

If you use them, describe which technologies you use.

If you would like to learn more about this topic, please fill in the questionnaire on <https://www.utipa.info/survey>.