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ERASMUS PLUS PROJECT: 2019-1-LV01-KA202-060434

Digital Solutions for Trainers and Educators (DIGISOL)

2019 - 2021

Intellectual Result 1

Trainers' Self-assessment Questionnaire and Training Participants' Assessment Questionnaire on Adult Educator's ICT Competences

Analysis and presentation of the results
of the survey in Latvia, Estonia and Germany

September 2020



TARTU
KUTSEHARIDUSKESKUS

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Prepared by
Latvian School of Public Administration
September 2020



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I Project Description Summary

The Digital solutions for trainers and educators (DIGISOL) project address the vocational and adult education sectors and the professional individual needs of educators and trainers who are working mostly with the adult learners.

The objective of the project is to develop a Curriculum for the training course on the Digital solutions for trainers and educators in the VET and adult education sectors aiming at increasing their digital competences and skills by learning the most demanded and broadly used digital tools in each of the partner organisation countries.

There will be 3 Transnational meetings organized:

- Kick-off meeting in Latvia, January 2020: 8 – 10 teachers/staff members participating.
- Intermediate evaluation meeting Germany, August 2020: 8 – 10 teachers/staff members participating.
- Final recap' meeting Estonia, October 2021: 8 – 10 teachers/staff members participating

In total there will be up to 40 in total taking part in the Transnational meetings.

In total, 36 teachers and staff members of partner institutions will be involved in the short-term joint staff training events that will be held in:

- Estonia in September 2020 (online).
- Latvia in November 2020
- Germany in March 2021.

The main outcomes of the project related activities are:

- Trainers and educators know how to use different digital learning tools;
- trainers and adult learners have the possibility to have the blended learning approach (face-to-face + online);
- they can choose the better digital learning solution for their individual needs;
- survey on the specific digital needs of trainers in each partner institution country (100 trainers and 100 adult learners will participate from each country) and its analysis.
- Curriculum for the online training course on the Digital solutions for trainers and educators (DIGISOL) in the VET and adult education sectors.
- Pilot of the DIGISOL Course for 2 groups of 12 learners in each partner organization country



- Free access to the DIGISOL course through a Moodle platform for everyone.
- Online test and online certificate certifying the acquired digital competence / skills upon the test successful completion.

In labour market perspective, the open access to the DIGISOL Course modules will increase professional qualifications of VET educators and adult education trainers and help them meet the education sector swiftly digitalizing requirements and needs.

The course will contain an innovative approach, methodology, schedule of the course, lesson outlines and activities to be ready for the use of trainers and educators from the VET and adult education sectors, but also educators or teachers from every other educational sector.

The course would contain 3 learning modules with different topics. The 3 main modules are:

- 1) Cyber Security & Digitalisation
- 2) Webinars and other Communication Tools
- 3) Files & Documents Sharing Tools

The choice of the topics for each module will be based on the results of the survey - the Assessment Questionnaire on the specific digital needs of VET trainers led in each partner institution country before designing the Curriculum of the Course. The Curriculum will be drawn after the analysis of the results of the Assessment Questionnaire and will be fully based on them.

The curriculum and the course will be designed in order to improve trainers' and educators' digital skills and knowledge of different digital solutions used in the new era of teaching / learning, to learn how to use and apply the Information and Communication Technologies, to better understand the concept of the digitalization and to apply it in accordance to their competence areas.



II Description of Project partners

Latvian School of Public administration

The Latvian School of Public administration (LSPA) was established in 1993 as a public administration institution under direct supervision of the State Chancellery. The LSPA is the largest training centre for civil servants and public administration employees in Latvia and it provides a high-quality training and consultation service to meet the current and future needs of public administration and municipalities. In 2018 the LSPA trained 13 741 people.

The LSPA develops open and tailor-made training for both the public and private sectors, and oversees the certification of internal audit specialists in public service. Since 2012 the LSPA has been applying a business approach to training public administration employees, at the same time maintaining close links with national priorities for human resource development in public administration. For this purpose, the LSPA has developed training module system, linking training topics with the concept of human resources development of public administration sector and training needs of civil servants. The whole training has been organized in ten modules.

In addition, LSPA provide an opportunity for public administration employees, as well as local government officials to acquire professional English at the basic user and independent user levels (A and B levels) and, since the September 2015, the LSPA performs the administrative functions of the French language course organization, the costs of studies being covered from the state budget and the International Francophone Organization.

The LSPA is situated in the centre of Riga - the capital of Latvia on one of the central and important boulevards of the city - Raina Boulevard, within 5 minutes' walk from the historic centre – the Old City of Riga. The building of the LSPA - Raina Boulevard 4 - was designed in 1880 by the famous Latvian architect Janis Fridrihs Baumanis.

Regarding the premises and the venue, there are 16 training rooms in the LSPA building, the largest of which can accommodate up to 100 people, all fully equipped with modern technology, including screens, white boards, audio-visual and simultaneous interpreting equipment and



modern computer lab available on the first floor. Wireless Internet is provided throughout the building. The total premises are over 2,400 m². LSPA premises can accommodate up to 356 trainees a day. Coffee and refreshments can be provided in various lobbies throughout the building.

Currently the LSPA employs 20 employees specialized in financial management, law, communication, project management, training organization and management, among other areas. LSPA employees also benefit from the regular opportunities of further study and qualification. As to the training staff and the staff, LSPA has more than 80 highly professional trainers who are experts in public administration, experienced business leaders and university lecturers.

In order to ensure the quality of training delivery the electronic version of evaluation forms has been designed and the evaluation is carried out at the end of each course. The summary and results of evaluation forms are sent to the trainers. There are also discussions/talks organized with the training staff and the clients on the process of course organization and necessary improvements. In addition, there is a lesson/ session observation taking place when experts/ trainers observe their colleagues 'work and give feedback on it. The average evaluation of the courses according to the results of the evaluation forms in 2016 was – 8,4 points out of 10.

In 2014 the LSPA has successfully implemented the largest centralized training for public administration in Latvia - the preparation of public administration employees for the Latvian Presidency of the Council of the European Union in the first half of 2015.

Currently, there are two ESF projects carried out by LSPA – “Professional Development of Public Service to improve Legal Framework for support of Small and Medium-Sized Enterprises” and “Professional Development of Public Service in Prevention of Corruption and Reduction of Shadow Economy” (2016-2022)

DZC training centre

Private Joint Stock Company Datorzinibu Centrs (DZC) is one of the leading IT companies in Latvia providing solution development, e-learning content development and IT training to various customers in public and private sector. The quality of DZC services is confirmed by ISO 9001:2008 quality certification. DZC is the Microsoft Gold Certified Partner since



ZU00. DZC top priority is complete understanding of the needs of our customers for the maximum benefit of their investment into the digital technologies. Therefore, DZC work is targeted to implementation of modern and perspective information system solutions. DZC services include:

- Design, development, implementation and maintenance of information systems (databases, data warehouses and analysis, web application software);
- IT training for Microsoft Office and other modern digital tools and applications, as well as for custom-developed information systems designed exclusively for the needs of a customer;
- Development and implementation of learning management (LMS) and learning content management systems (LCMS);
- E-learning content development;
- Certification services (Pearson VUE authorized test centre);
- IT consulting; IT audit and security;
- Design, delivery and maintenance of IT infrastructure solutions.

The total number of company staff is 40, including 12 employed in the training department. On average, 2.5 thousand participants are trained per year.

Training Centre's highly professional trainers have deep expertise for teaching all digital skills and competencies required to work with newest Microsoft 365 tools and classic Microsoft Office programs, as well as modern collaboration and communication technologies and other business applications. DZC trainers are certified by Microsoft and have wide experience in IT training and practical work.

The key to DZC success is a perfect combination of the best teaching methods, professional experience and well-prepared hand-outs. The theoretical material is accompanied by diverse examples, practical tasks and self-assessment options. DZC also develop and adjust our study programs to the needs of employees of a specific company. DZC provide individual trainings and consultations. Training methods include classroom as well as virtual trainings and consultations.

DZC has acquired considerable experience in development of e-learning courses since 2001. It is possible to facilitate mastering of different study content by means of e-learning. Such courses can be intended for improvement of general level of education, such as, learning languages or



practicing computer skills. E-learning can be used in institutions and companies to study the internal procedures and business processes as well as the application of the company's information system. E-learning environment provides an opportunity to create interesting and exciting materials by applying various means: multimedia, hyperlinks, interactivity, communication (e-mail, forums, discussions, etc) and automated knowledge testing. A registered user may operate in the e-learning environment from any computer that has the Internet access as only a Web browser is required for working with the e-learning courses.

DZC offers various standardized and customizable solutions for the support of our clients' business activities. The main types of these solutions are the following:

- E-learning management/guidance systems – products developed based on Microsoft SharePoint technologies for providing distance as well as traditional in-class learning and the testing of knowledge;
- Document and information management systems for organizing the record keeping: storing, systemizing and processing different business correspondence;
- Project resource management tools for planning the personnel resources, time management, cost calculation and analysis;
- Portal and collaboration solutions – multilevel Internet or intranet portals with a specific and adjustable additional functionality;
- Specialized portal solutions for educational establishments to organize the internal communication and the study process with integrated tools for preparing electronic study materials.

The perennial experience of the Training Centre in working with the adult audience in teaching the use of ICT tools as well as developing programmes, course content and handouts has ensured the high professionalism of our trainers. Therefore, the experience and professional competence of teachers will ensure the quality of the materials developed in the project.

The Institute of technology-oriented women's education (ItF e.V.)

The Institute of technology-oriented women's education (ItF e.V.) is a regional non-profit organization established in 1991 (registered association), based in Kassel, Germany. The Institute is a provider of training in vocational and adult education for women as well as research



in the area of gender and MINT (Women in Science and Technology). The institute offers a wide variety of vocational trainings targeting labour market demanded knowledge. The offer includes consulting, coaching, skill assessment, analysis of training needs, design and implementation of training programs (online and face-to-face) as well as their follow-up for different educational levels. For example, ItF e.V. developed a course for young migrant women to get a completed and recognized vocational training as a computer science clerk (Mach M-IT).

Another focus is the start-up for women. Among other things, ItF e.V. successfully completed a Grundtvig project entitled Women fit4Business. As a follow up of this project ItF e.V. is offering consultancy for women (with migrant background) who want to start their own small business for many years. Qualified scientists and trainers with experience also in the intercultural field are working in our organization.

Many of the further trainings that ItF e.V. offers target women re-entering the labour market after longer periods of family leave, providing them with the needed software and commercial knowledge but also supporting them to integrate family and working life, creating new daily routines for them and their families. One very successful module of these courses is the "KOMpetenzPASS", a tool to assess the informally gained skills acquired during family leave which was developed by ItF Institut in cooperation with numerous other adult education providers and regional advocacy groups for women on the labour market.

Furthermore ItF e.V. has created an online learning platform also targeting women returning to the labour market to provide access to the required skills also to women located in rural areas with limited opportunities to participate in classroom training.

ItF e.V. established a very vast dissemination portfolio thanks to more than 25 years of experience and our network comprises SMEs, national non-governmental organisations, employment agency, universities and international project partners. ItF e.V. cooperates with regional and national partners from the areas of research, science (e.g. University of Kassel), education (e.g. IHK and HWK), politics (European Parliament B. Weiler) and labour market stakeholders (FEDERAL EMPLOYMENT AGENCY of Kassel) and are also part of specific networks (e.g. Bündnis für Familie).



ItF e.V. has been cooperating in and coordinating diverse European projects (Leonardo and Grundtvig). ItF e.V. regularly informs our partners during network events about our project activities and use these networks to spread information about current status, topic and outcomes of the projects. ItF e.V. main focus is to support women through vocational training, to (re-)integrate them into the labour market. The mission of ItF e.V. is to provide educational, research and innovation services in the fields of information technology, entrepreneurship and social skills development for women.

Additionally, one of our main aims is to increase the opportunity of low skilled women to acquire competences in ICT, to motivate them to attend courses for a better re-integration into the labour market. In recent years, it has become increasingly important to have knowledge in the use of electronic media which is no longer solely related to work but is essential for everybody, since more and more information and services (including those related to government and authorities) are only available online. Therefore, it is increasingly critical that all groups of people have access to digital media – also those with low digital skills. As digital media continue to develop and change with an increasing speed, the gap in related knowledge of different generations expands. To teach younger generations a responsible usage of these media and to be able to appropriately evaluate information and their context, it is critical for parents to improve their knowledge of digital media. Our trainers use advanced teaching methods and improve and update their knowledge through constant evaluation and training to allow the greatest learning success for our customer.

ItF e.V. will be an operative partner due to its more than 25 years of experience in working with different target groups. Trainer/teacher as well as students who want to improve their digital skills in order to be able to work across borders in international groups with the help of digital tools. The team involved in the project has more than 27 years of experience in adult education and training, especially for women.

Tartu Kutsehariduskeskus

The Tartu Vocational Education Centre (Tartu VEC) is the biggest vocational education provider in Estonia. Tartu Vocational Education Centre is owned by Tartu City Government and therefore share the same PIC number.



Tartu VEC has more than 2700 students in vocational studies, 3500 adult learners at various courses annually. Tartu Vocational Education Centre has 338 employees. Tartu VEC provides the chance to study more than 50 professions and practical skills that are relevant in the labour market. Our fields of study include:

- construction and wood work
- ICT - business and trade
- beauty and textile
- catering and tourism
- food processing technology
- industrial technology
- car maintenance
- adult education.

The Tartu VEC's ICT department teaches the specialties of IT and business and management. It offers the opportunity for every learner to shape their own future and therefore use the most diverse learning opportunities, open up new ideas and work closely with companies. Students have the opportunity to use modern study rooms and computer hardware and computer network laboratories. The department's teachers are innovative and entrepreneurial, and, in addition to basic teachers, there are a number of specialist companies teaching professional skills.

The strength of the department is openness to new ideas and networking with different Estonian and European schools. The department provides different target groups with different forms of learning and learning opportunities. To support entrepreneurship education, they collaborate with the University of Tartu Idea Lab. Undergraduate IT specialty students create their own student company within the framework of learning. They are a member of Microsoft's IT Academy, Mikrotiki Online Academy, and are planning to continue the collaboration with the CISCO Online Academy.

The department has long-term cooperation partners: Tartu University Hospital, different departments of Tartu City Government, University of Tartu, National Archives, Sonictest, Diara Development, Ministry of Education and Research, various software and security companies in Tartu and others. Close co-operation is with the trade unions- ITL, the Estonian Leadership Association, the Estonian Accountants' Association, the Estonian Security Companies' Association and the Estonian Archivists' Association.



Tartu VEC has an adult training and counselling department, that offers professional development courses and re-trainings for adults. It offers training in all basic study fields provided by Tartu VEC in initial VET training. Annually it offers about 400 different courses, of which currently 4 are e-courses. The course selection includes both courses for the general public and tailor-made courses for companies. Tartu TEC has long term partnership with Estonian Unemployment Insurance Fund, offering re-training possibilities to unemployed people.

III Description of IO 1, Trainers' Self-assessment Questionnaire and the Learners' Assessment Questionnaire

According to the project application, during the first phase of the project two questionnaires were designed to assess adult educators' current knowledge of different Information and communication technologies (ICT) tools.

Nowadays ICT tools have become an integral part of everyday life and is changing how education is resourced and delivered, therefore, Vocational education institutions and adult learning centres face a digital challenge and a need to adapt their traditional teaching methods to offer a mix of face-to-face and online learning possibilities.

Interest in ICT tools is high and growing and according to recent study in OECD countries, students are more sophisticated in their use of technology than their teachers. VET and adult learning should be sensitive to learners' background – for adult learners it is especially important to account of what they already know from previous education and their jobs to make the learning more relevant to their actual situation.

Both questionnaires have provided a measurable and objective starting point to define the outline of the curriculum to be developed in the next stage of the project.

Both questionnaires were designed in English and translated into each partner's language. The questionnaires were delivered online.

Trainers' Self-assessment Questionnaire on Adult Educators ICT skills



First questionnaire was designed for adult educators in order to better understand adult trainers and vocational education trainer's overall knowledge of different ICT tools and how confident they feel in using them during their classes.

The main aim of this questionnaire was to reflect on the adult educators' weak and strong points in using different ICT tools. The questionnaire looked at use of ICT tools from three main aspects:

- cyber security and digitization;
- webinars and other communication tools;
- files and documents sharing tools.

This questionnaire helped to get an assessment of the adult educators' overall knowledge of ICT tools and recognize the elements in which adult educators lack knowledge and information. Since adult educators were involved in the analysis of the situation, it helps in the further planning of the curriculum so that it is designed to meet their actual needs.

Learners Assessment Questionnaire on Adult Educators ICT skills

With the intention of achieving a more in-depth analysis of adult educators' ICT knowledge, a second questionnaire was made for adult learners to better understand their views on using ICT tools during their classes and how they assess their educators' ICT proficiency.

Adult learners' questionnaire was designed to mirror adult educators' questionnaire in order for data to be more comparable and achieve better insights from both main adult education agents – learners and their trainers. The questionnaire asked for learners to assess educators use of ICT tools from the same three main aspects:

- cyber security and digitization;
- webinars and other communication tools;
- files and documents sharing tools.

Additional questions were also asked to better understand how, in learners' opinion, use of ICT tools during classes can benefit the learning process.



IV Conclusion of IO1, Trainers' Self-assessment Questionnaire and the Learners' Assessment Questionnaire

According to the project application, during the period from February 2020 until June 2020 two questionnaires were developed and distributed to adult educators and adult learners. 486 adult learners and 540 adult educators filled the assessment questionnaires.

Analysis of Trainers' Self-assessment Questionnaire on Adult Educators ICT skills

540 adult trainers filled self-assessment questionnaire with 178 trainers representing the age group of 50-59 years old, 167 trainers representing the age group of 40-49 years old, 93 trainers representing the age group of 30-39 years old, 78 trainers representing the age group of 60-69 years old, 16 trainers representing the age group of 20-29 years old and 8 people representing the age group of 70 and above.

Vast majority of trainers (238) have been working in the field for 10 years or less, 154 trainers have been working in the field for 20 years or less, 108 trainers have been teaching for 30 years or less, 50 for 40 years or less, 15 trainers have been teaching for 40 years or more.

Vast majority of trainers feel confident to use computers for their own needs with 338 strongly agreeing and 144 agreeing with this statement. However, when asked if they feel confident to use computer for teaching purposes, only 235 trainers strongly agree and 182 agree with this statement. Pointing out that even if trainers feel confident to use computers for different daily tasks, it's not always the case when it comes to their professional work.

When questioned about specific skills, 389 respondents either agreed or strongly agreed that they have the necessary skills to login to an online learning platform. Approximately the same number of trainers either agreed or strongly agreed that they have the skills to install or download a new software or an app or to add a shared folder (366 and 364 respectively). However, a slightly smaller number of trainers – 305 – agreed or strongly agreed that they could solve a basic user technical problem when using a computer. 106 trainers strongly disagreed and 137 disagreed that they have the necessary skills to do so, indicating that one



or the reasons why trainer's avoid using ICT tools in their classes might be the concern for technical difficulties that might arise from using these tools.

This problem is also pointed out when respondents were questioned about if they have undergone any ICT-related training. 393 trainers admitted to having undergone computer literacy training and 238 had undergone security and safety risk training. However, when asked about specific ICT tools the number were considerably lower. Only 200 (less than a half from all the respondents) had undergone training for use of online presentation tools, 131 had undergone training for use of online databases, 129 had undergone training for use of online cloud storage and 111 trainers said that they had undergone training for use of webinars, but 62 respondents admitted to not had undergone any ICT-related training. These number show that even if a considerable number of trainers have undergone computer literacy training, when it comes to specific ICT tools, trainers don't have as much knowledge.

When asked about for what purpose do trainers use ICT tools during their classes, three most common responses were – to find information and resources on the Internet (490 either agreed or strongly agreed), to prepare presentations and materials for lectures (493 either agreed or strongly agreed) and during their classes to show presentations (480 either agreed or strongly agreed). Having said that, when it comes to more specific ICT tools use, the numbers again are considerably lower, showing that there's still a space for growth using ICT tools to communicate with students (390 either agreed or strongly agreed), to get feedback from students (385 either agreed or strongly agreed), to share documents and files with students (372 either agreed or strongly agreed), to develop digital content for students use (345 either agreed or strongly agreed) and to access resources using online databases (327 either agreed or strongly agreed).

The same tendency is mirror also in the responses when trainers were asked for what purpose students use ICT tools in their lectures. Trainers as the two most common responses indicated use of Internet to search for information (452 either agreed or strongly agreed) and making presentations (443 either agreed or strongly agreed) which are the same most popular responses when trainers answered the same question about their own use of ICT tools. Similarly, when asked about more specific ICT tools use, the numbers were lower for sharing files and documents (339 either agreed or strongly agreed), giving feedback and self-assessment



(333 either agreed or strongly agreed) and collaborating and working on projects (313 either agreed or strongly agreed).

In survey's respondents' overall experience, trainers don't feel necessary confident to integrate different ICT tools in their teaching process. Only in few instances more than half of the trainers either agreed or strongly agreed that they feel confident in using different ICT tools in their classes. Trainers feel most confident in using cloud storage of online files to share tutorials with students, with 356 trainers agreeing or strongly agreeing that they feel confident to use Google Drive and 213 saying the same for One Drive.

Little more than half of the respondents agreed that they feel confident using one or more online collaboration tools. With 296 trainers agreeing or strongly agreeing that they feel confident in using Facebook for teaching purposes and 199 trainers agreeing or strongly agreeing that they feel confident in using Kahoot for the teaching purposes.

Similar situation is with using different social media tools in learning process. Only a little more than half of all respondents indicated that they feel confident in using such tools in their classes. 302 trainers either agreed or strongly agreed that they feel confident in using Facebook in their classes, with 284 saying the same for YouTube and 278 for Skype.

Regarding different e-learning environments, trainers only feel confident to use Moodle for organizing learning process with 348 trainers either agreeing or strongly agreeing.

When it comes to using mobile devices in their lectures, trainers feel equally confident in using tablets (349 either agreed or strongly agreed) and smartphones (377 either agreed or strongly agreed) to support interactive learning activities.

Less often trainers feel confident to use different online calendars and communications tools with less than a half of all the respondents agreeing that they feel confident in using Google Calendar (260 either agreed or strongly agreed) or Outlook Calendar (195 either agreed or strongly agreed).

When it comes to different webinar platforms, less than half of all the respondents indicated that they feel confident in using one or more webinars platforms with 247 trainers either agreeing or strongly agreeing feeling confident in using Zoom, 232 with using Skype and 177 with using Microsoft Teams.

Less than one third of respondents indicated that they feel confident in using web-based data visualization and infographic platforms. With 153 trainers either agreeing or strongly agreeing feeling confident in using



Infogram and 110 trainers either agreeing or strongly agreeing feeling confident in using Piktochart.

When asked about online presentation tools, less than half of all the trainers said they feel confident in using such tools with Prezi.com being frontrunner between such tools (236 either agreeing or strongly agreeing). However, trainers don't feel as comfortable with other online presentation tools. Only 132 trainers agreed or strongly agreed that they feel confident in using Infogram, and 102 said the same about Piktochart.

Majority of trainers consider different cyber security risks. Most of the trainers either agree or strongly agree that they consider securing data (468), data protection (467), security risks (456) and copyrights (444). However, when asked if they raise their student awareness about these risks, numbers are significantly lower. 370 trainers said they raise their students' awareness about data protection, 363 – about securing data, 328 – about copyrights, and 310 – about security risks. Nevertheless, vast majority of trainers admit that their knowledge about security risks would be improved by a better awareness about cyber security and by a training about cyber security and digitization, 475 and 471 respectively. Trainers also believe that this could be achieved through an advanced antivirus software (459) and an information security guidelines (456).

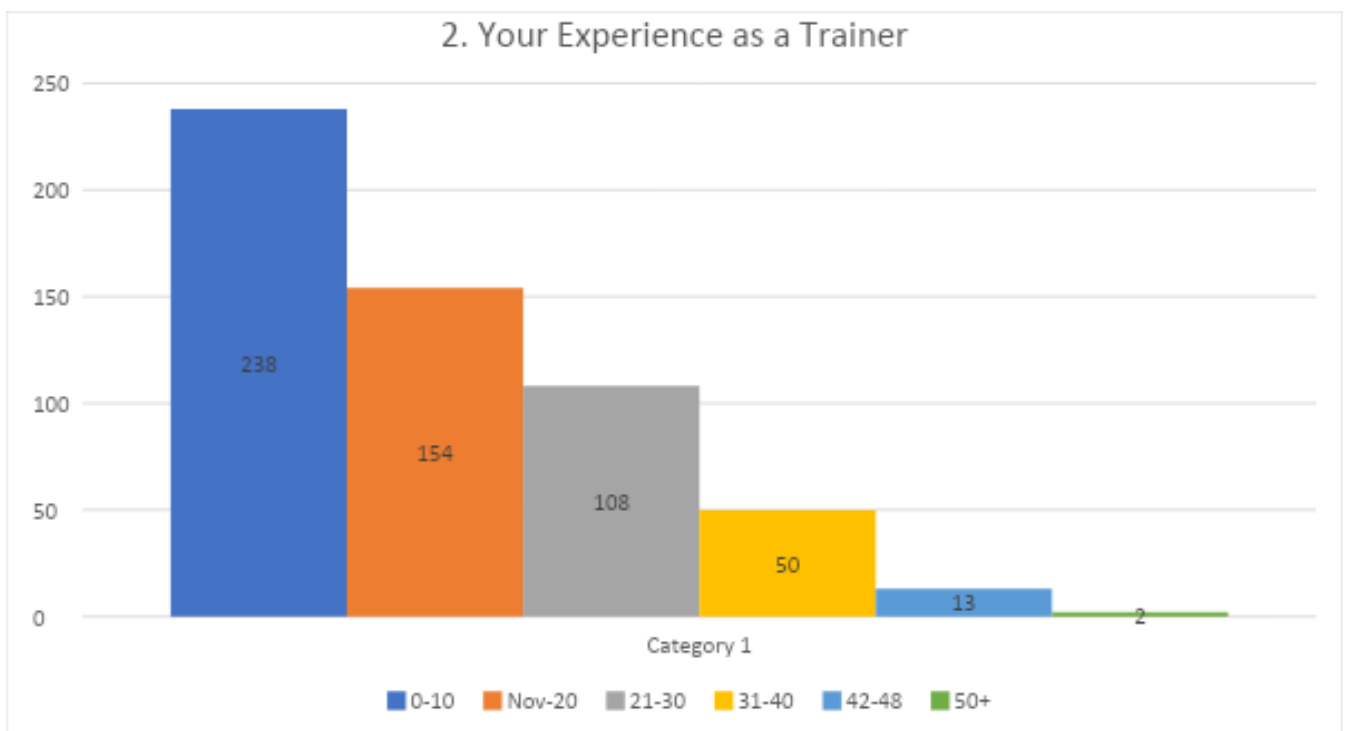
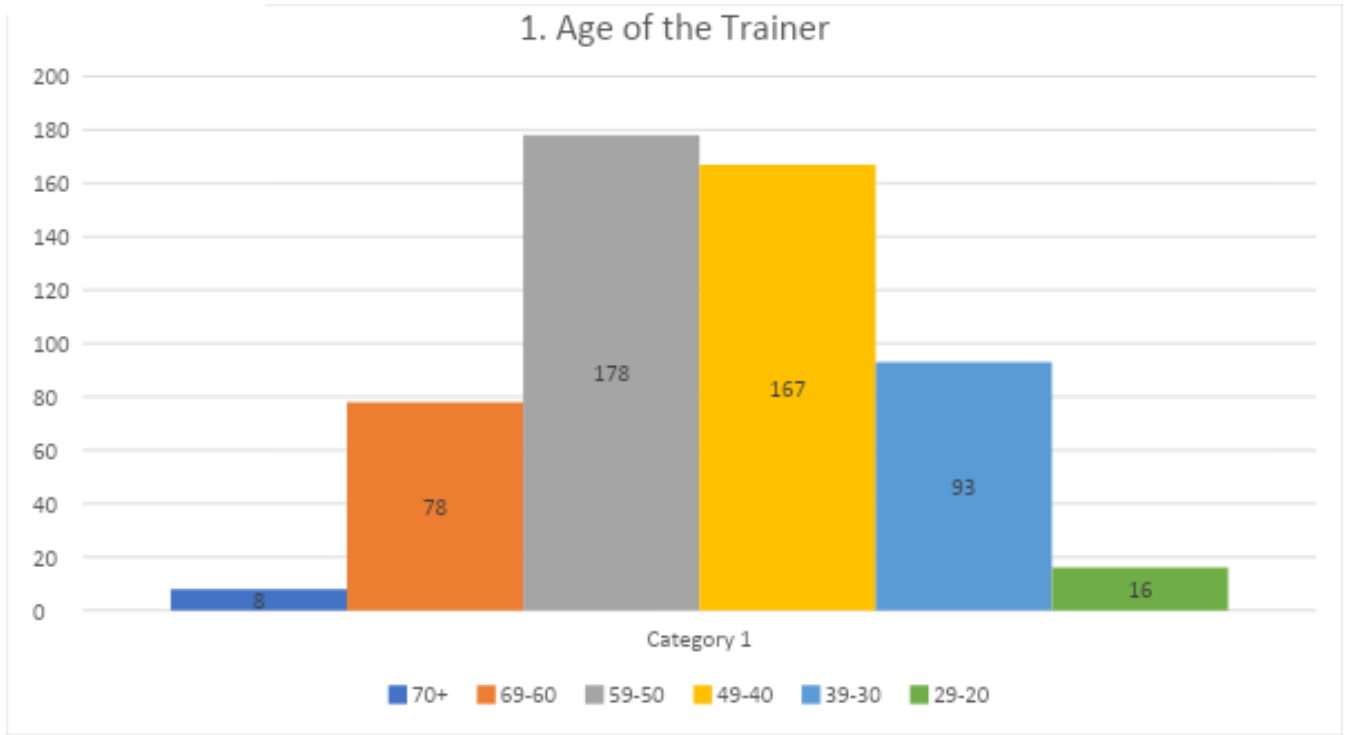


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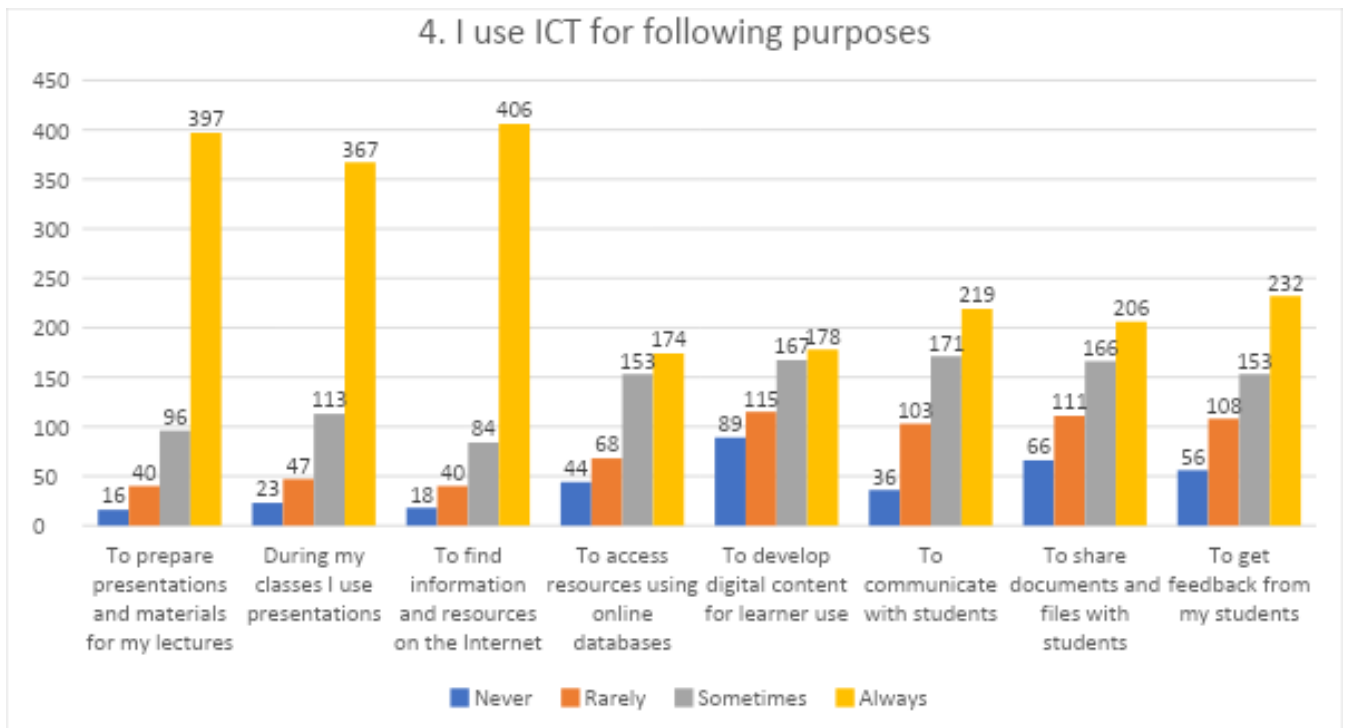
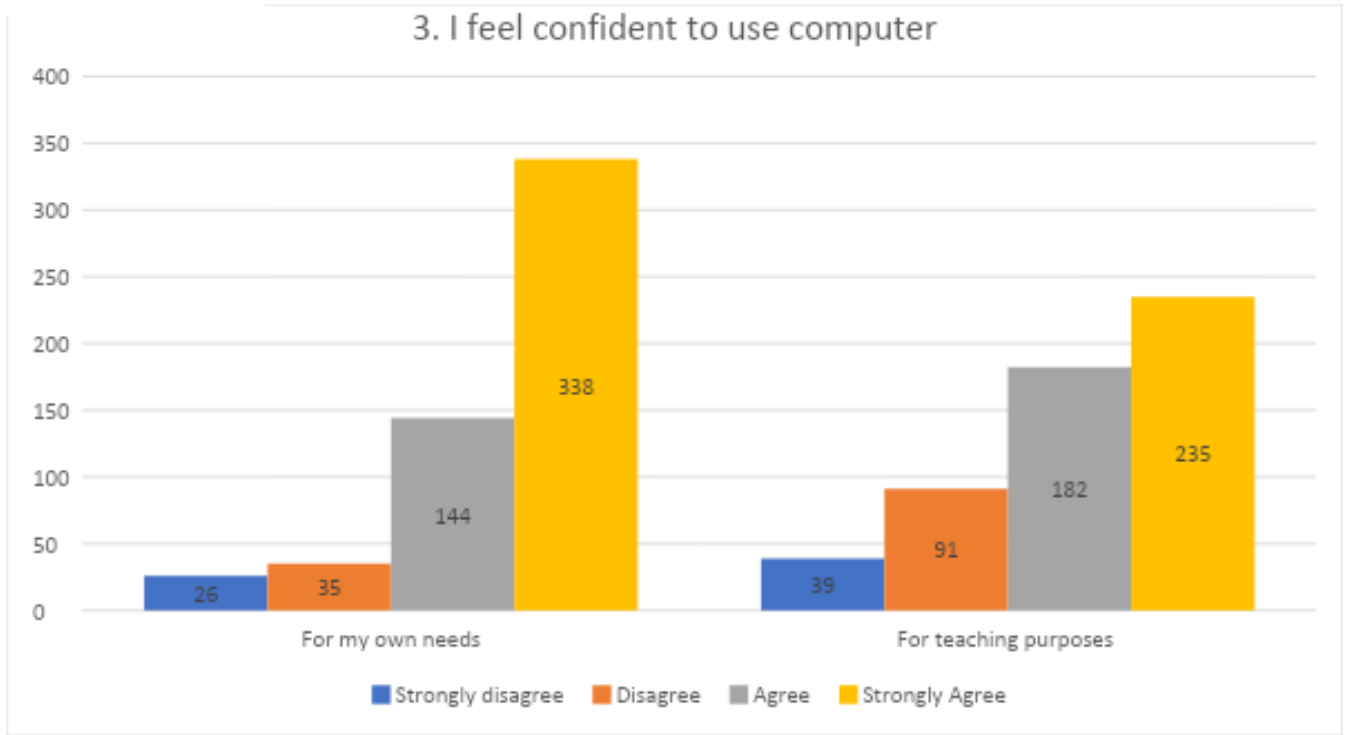


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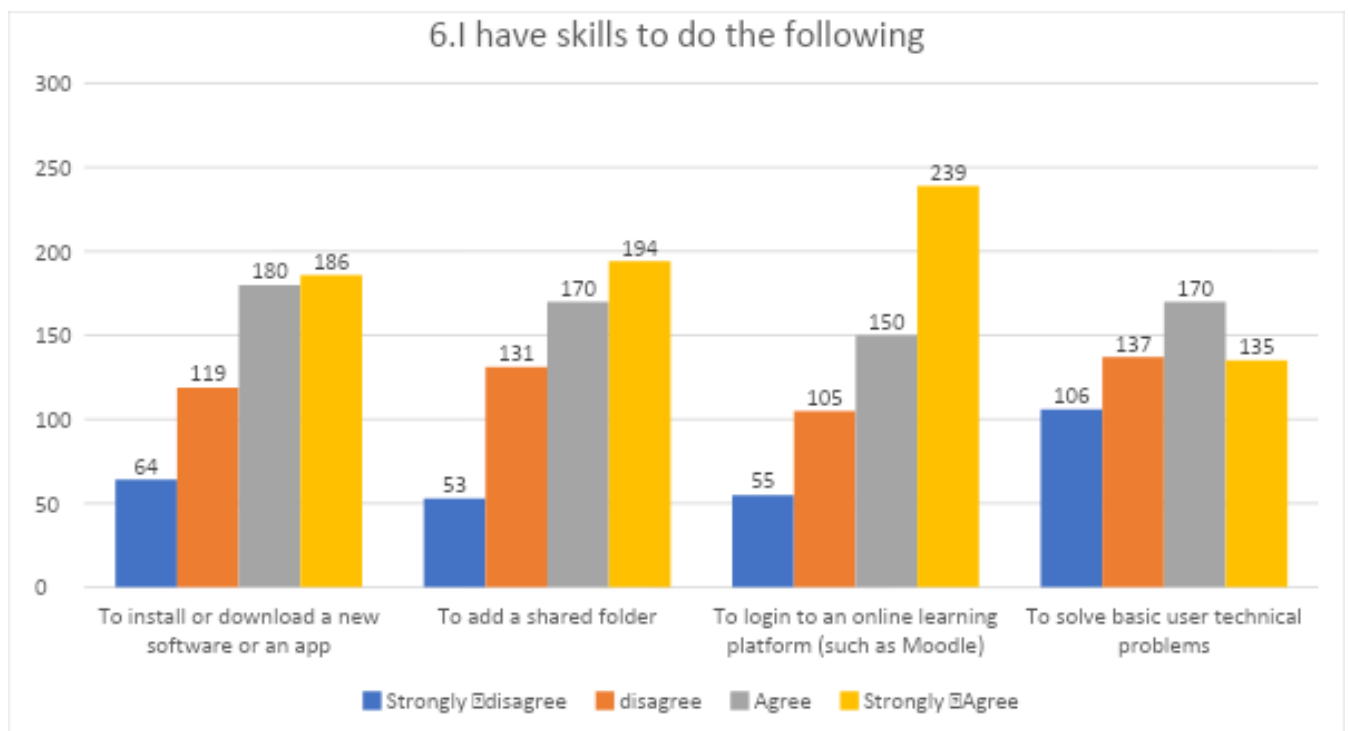
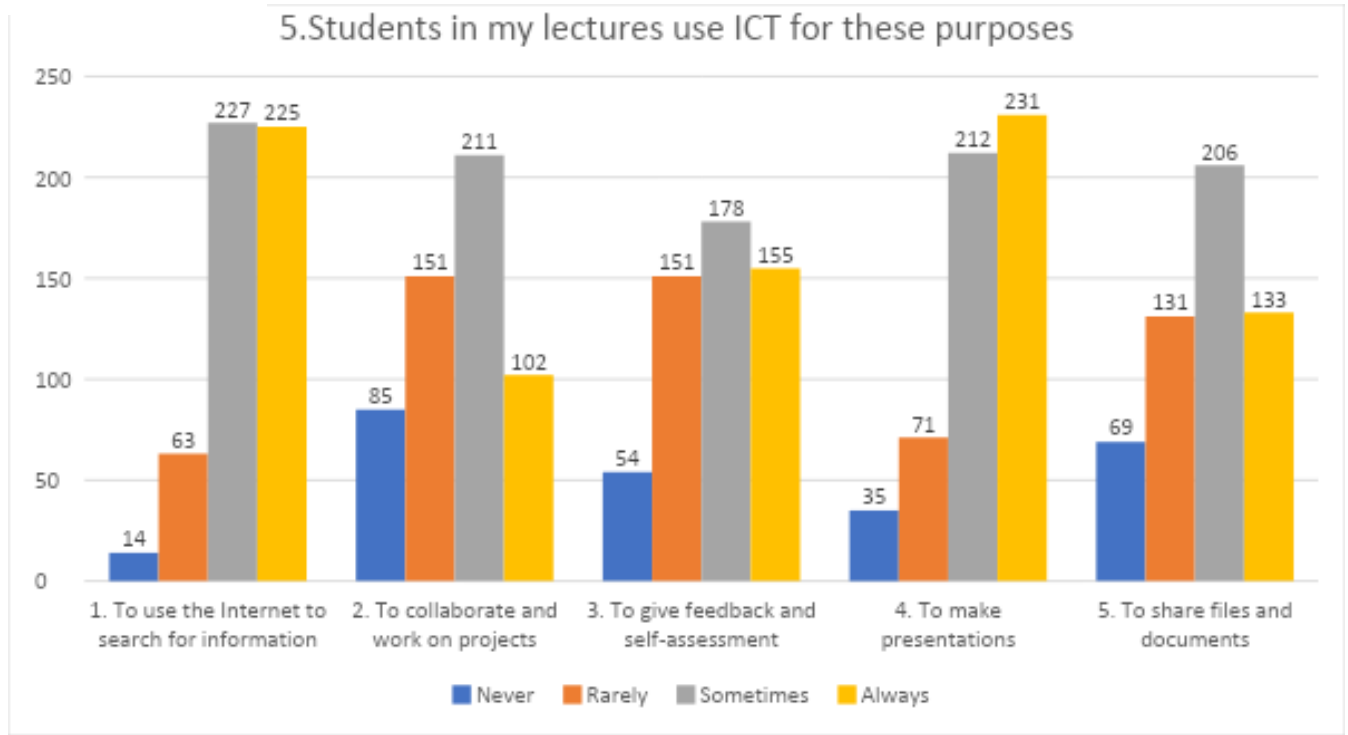


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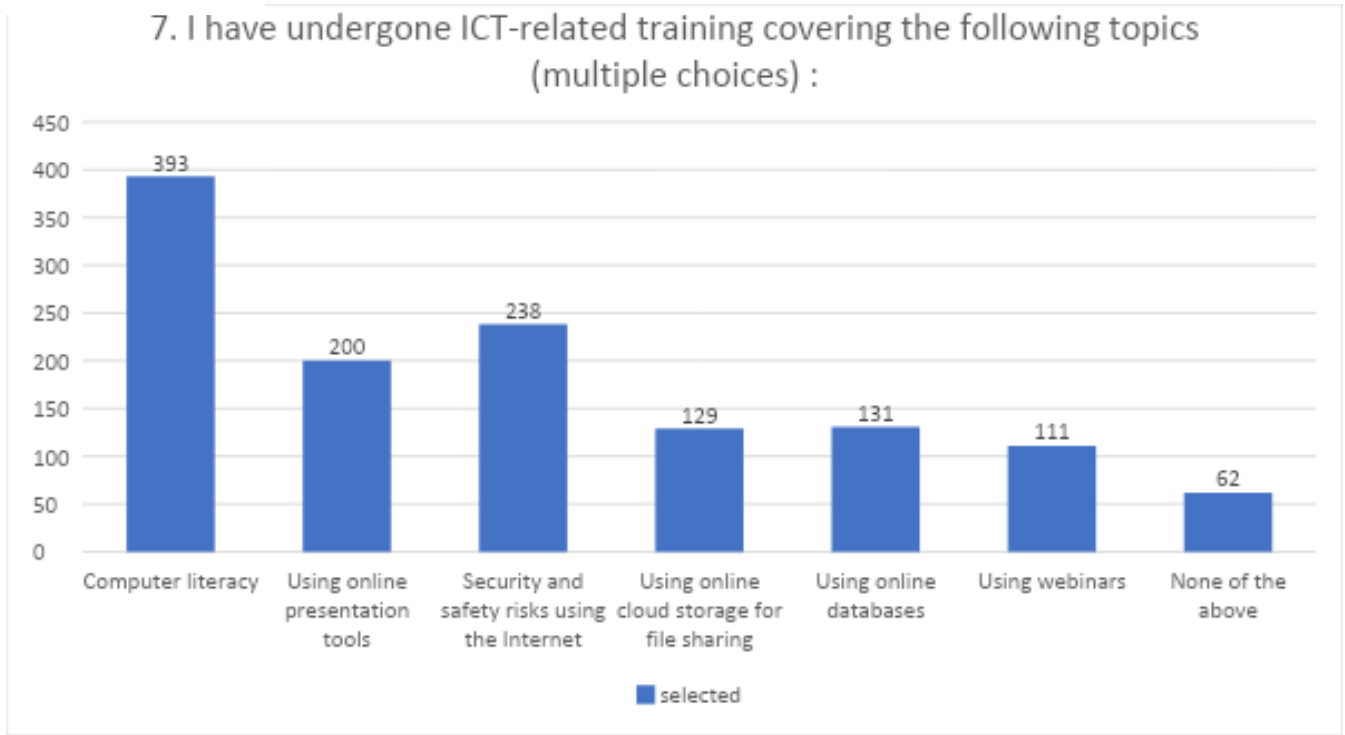


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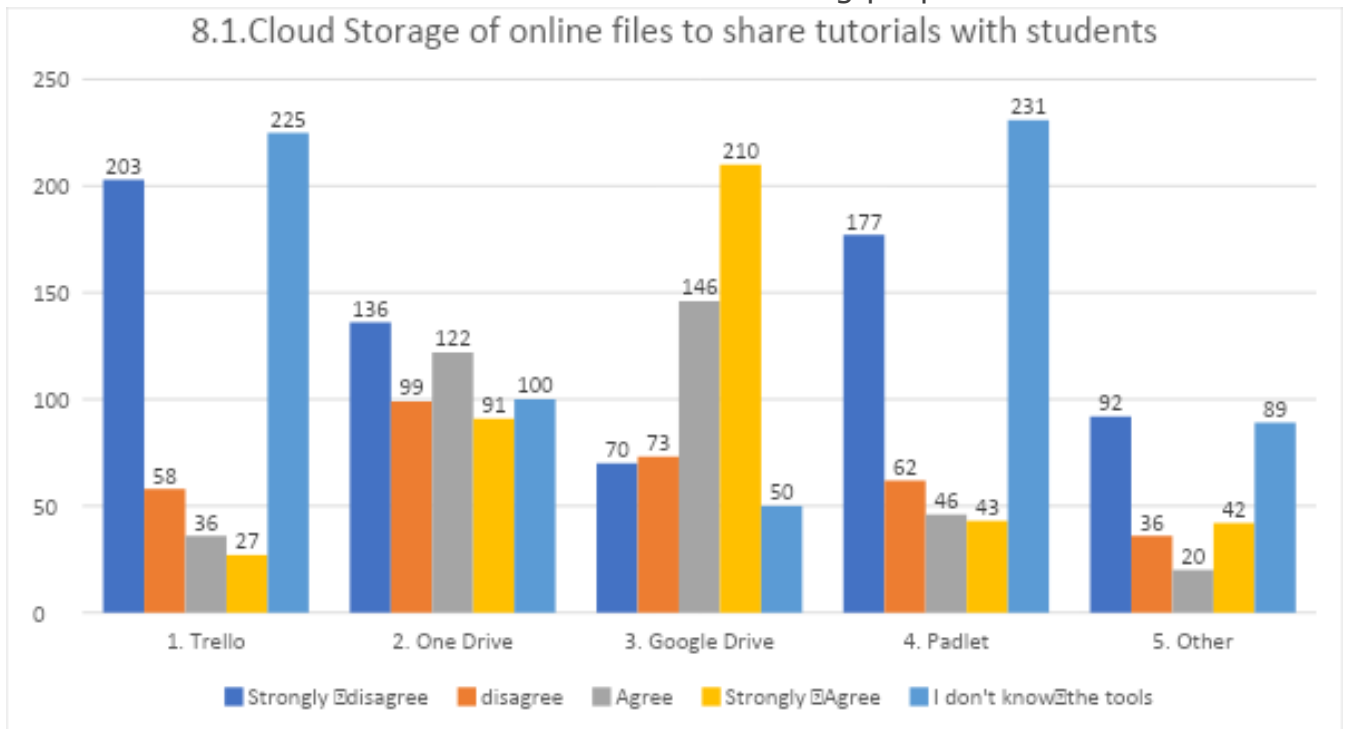
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8. I feel confident to use these ICT tools for teaching purposes:





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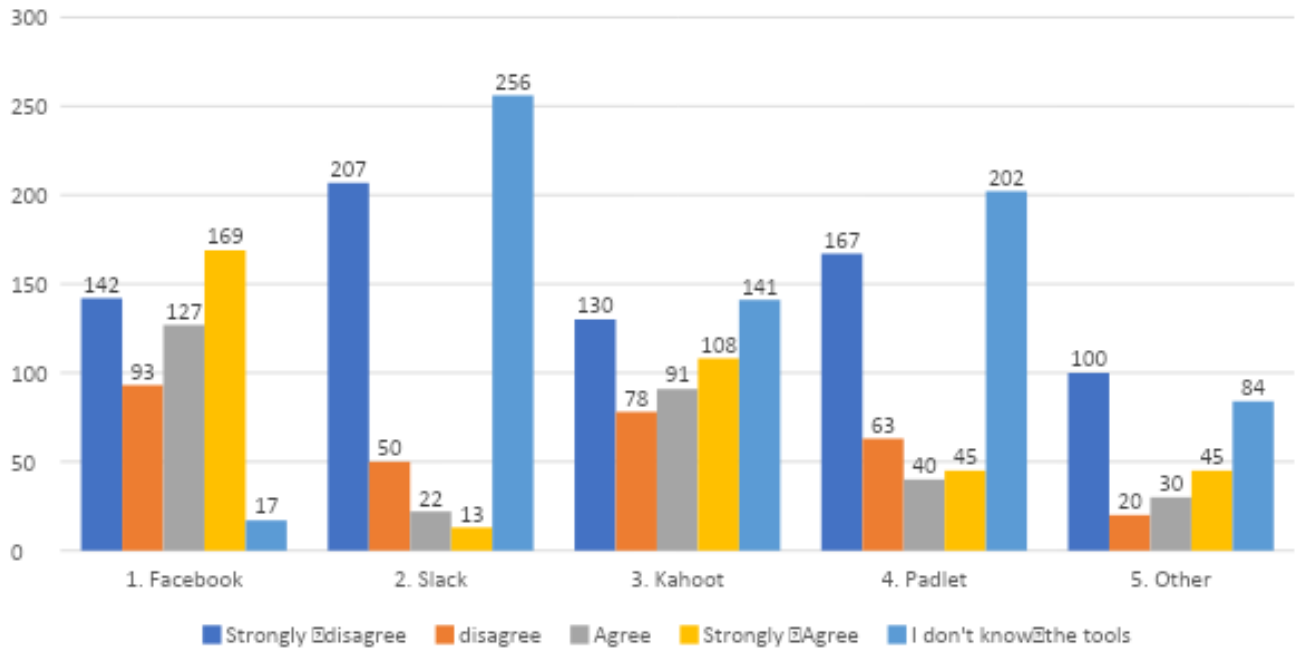
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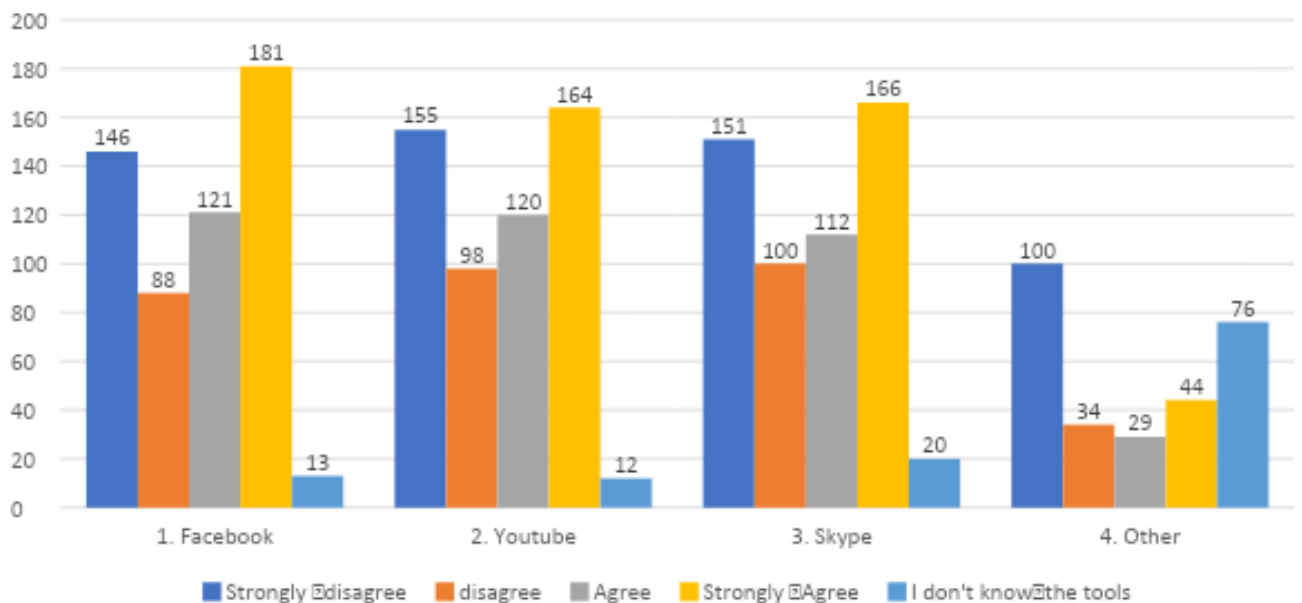
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8.2. Online Collaboration tools that promote student collaboration



8.3 Use of Social media in the learning process to communicate with students and





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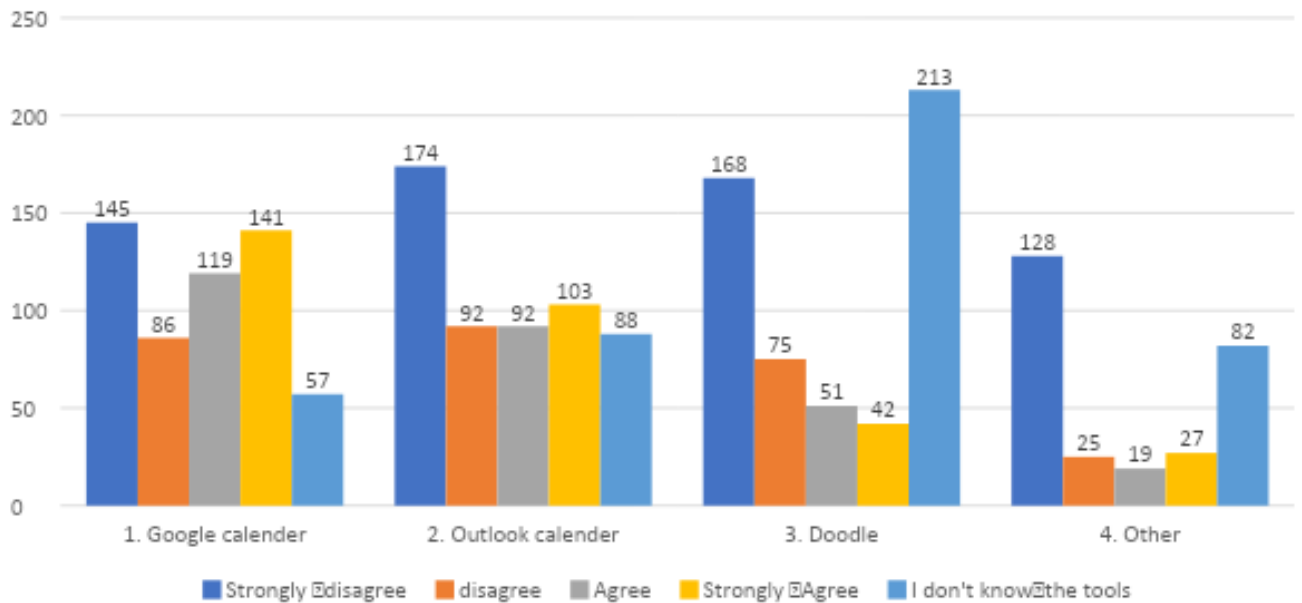
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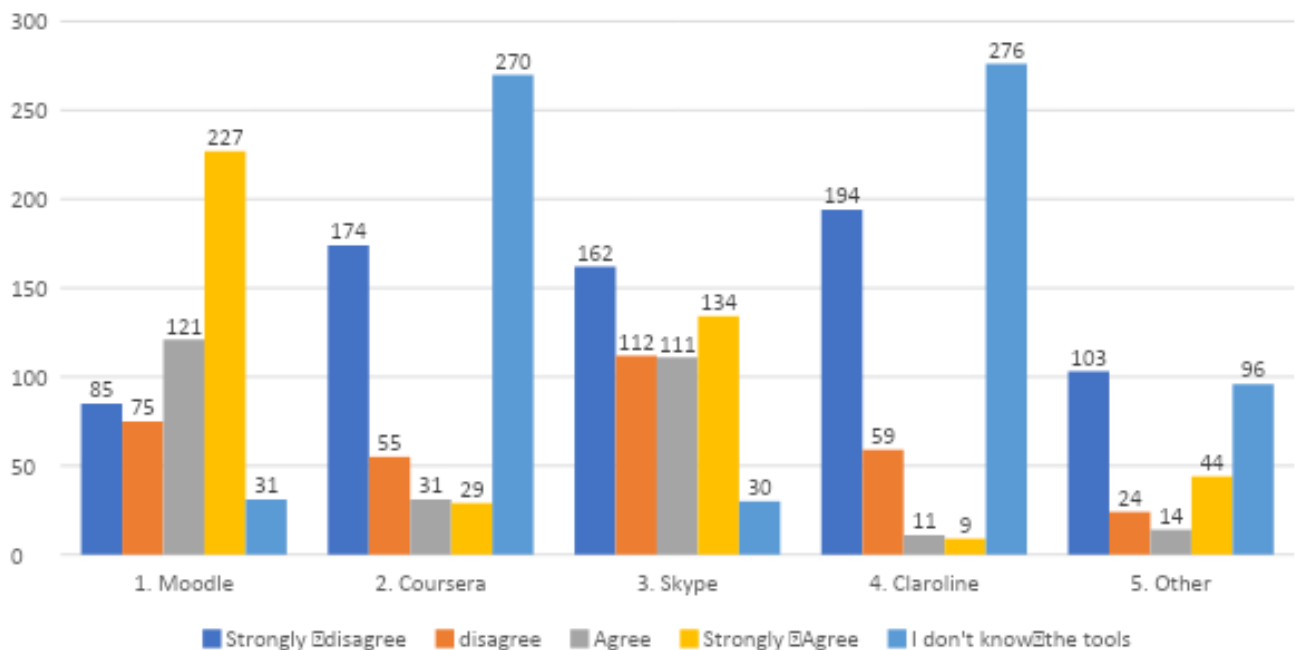
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8.4. Online calendars and communications tools to schedule classroom activities or collaborate with other classes



8.5. Using an e-learning environment to organize learning process





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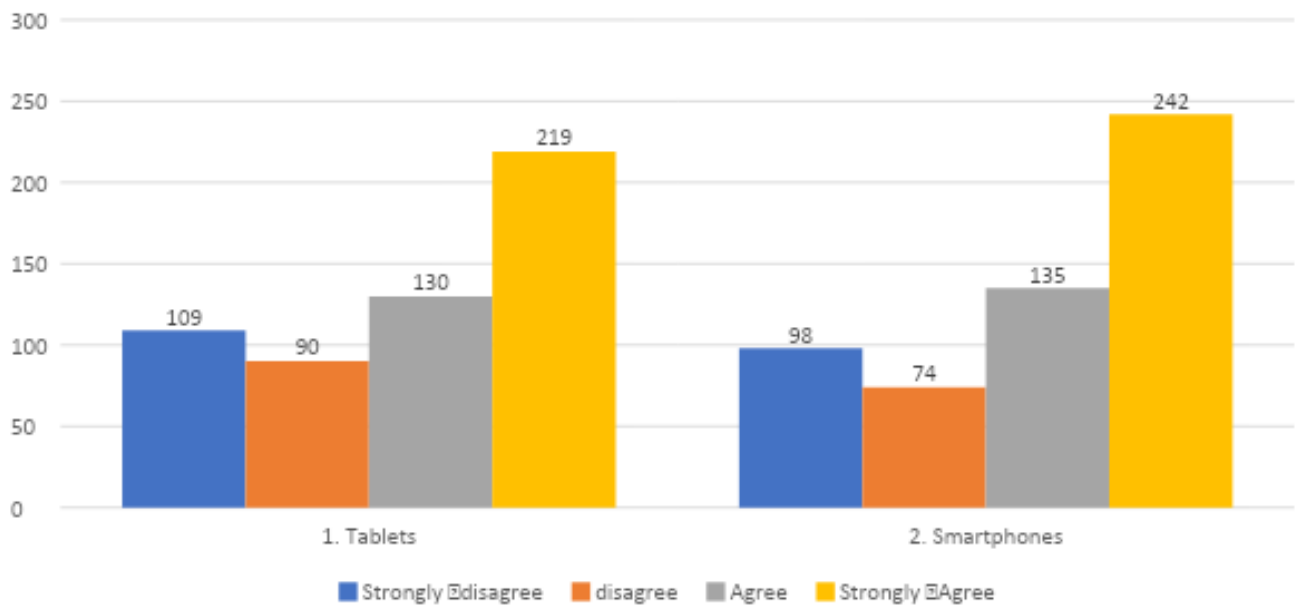
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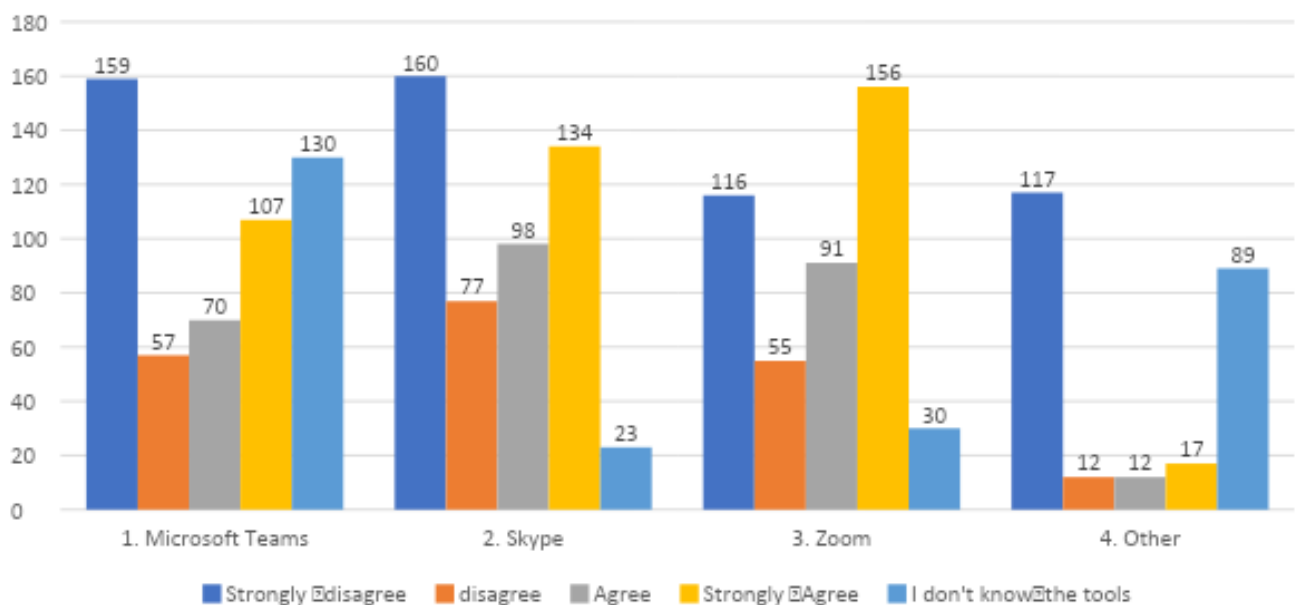
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8.6. Using mobile devices in learning to support interactive learning activities



8.7. Webinars to organize seminars on the Internet that can also be attended remotely





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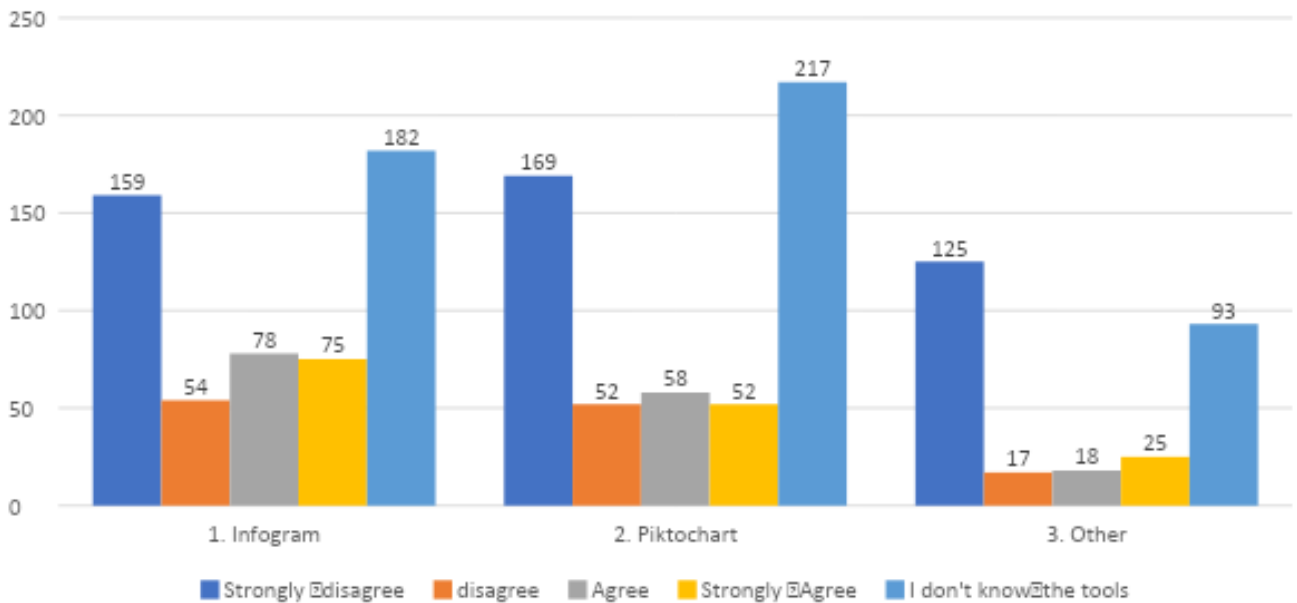
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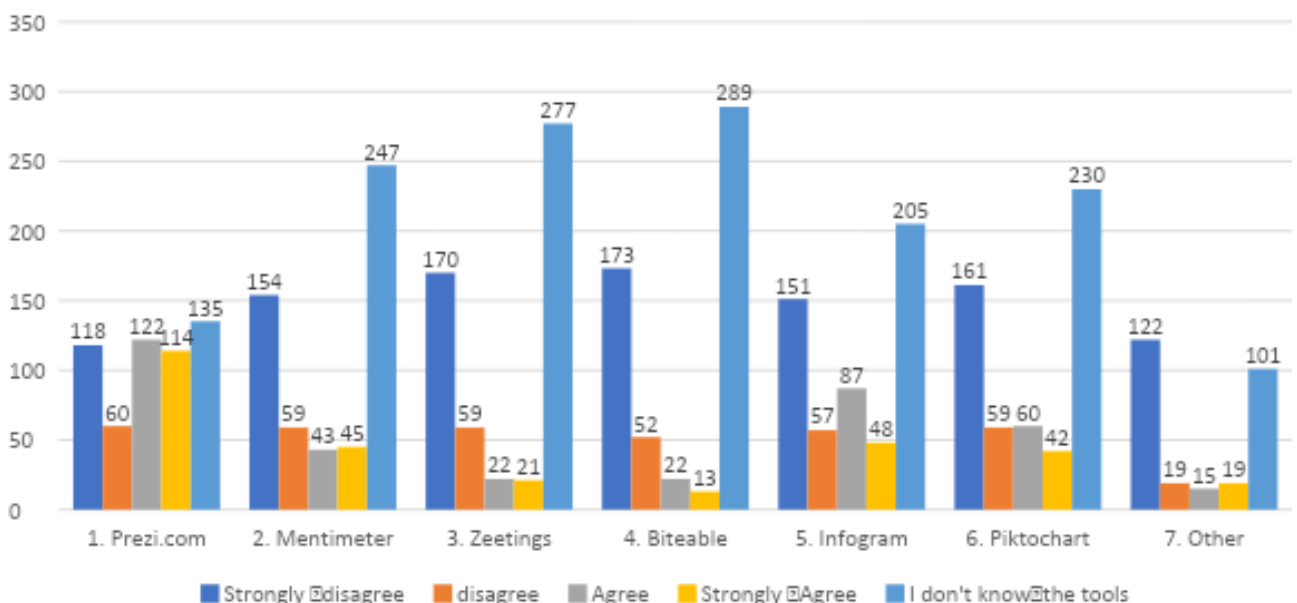
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8.8. Web-based data visualization and infographics platforms to make digital charts and infographics



8.9. Online presentation tools to make interactive presentations for lectures



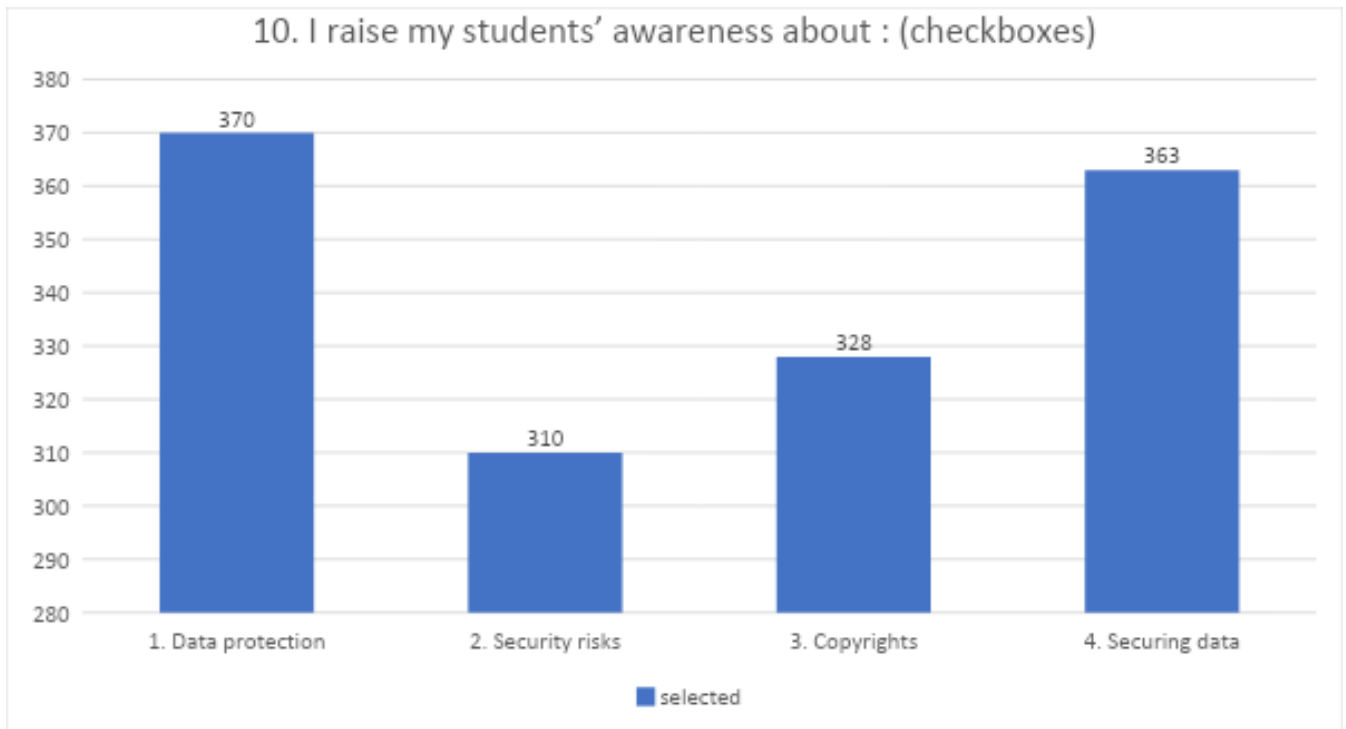
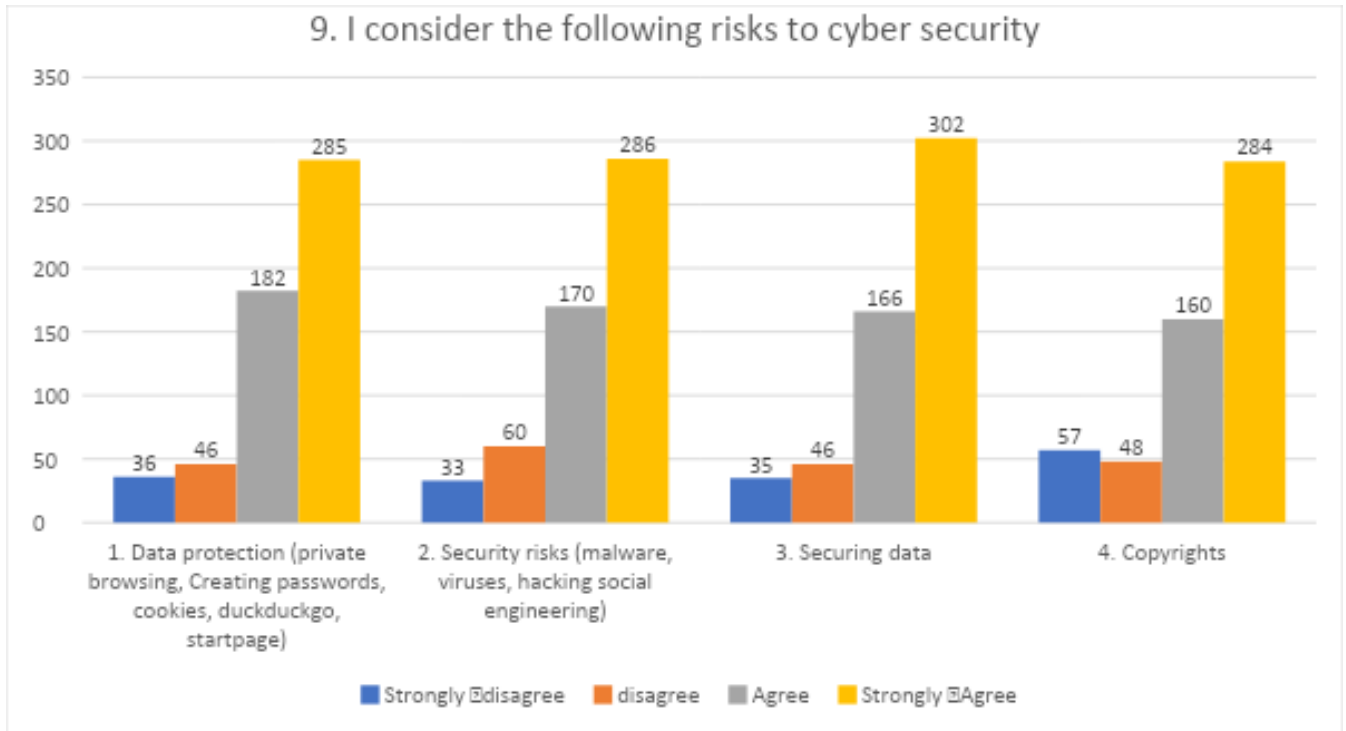


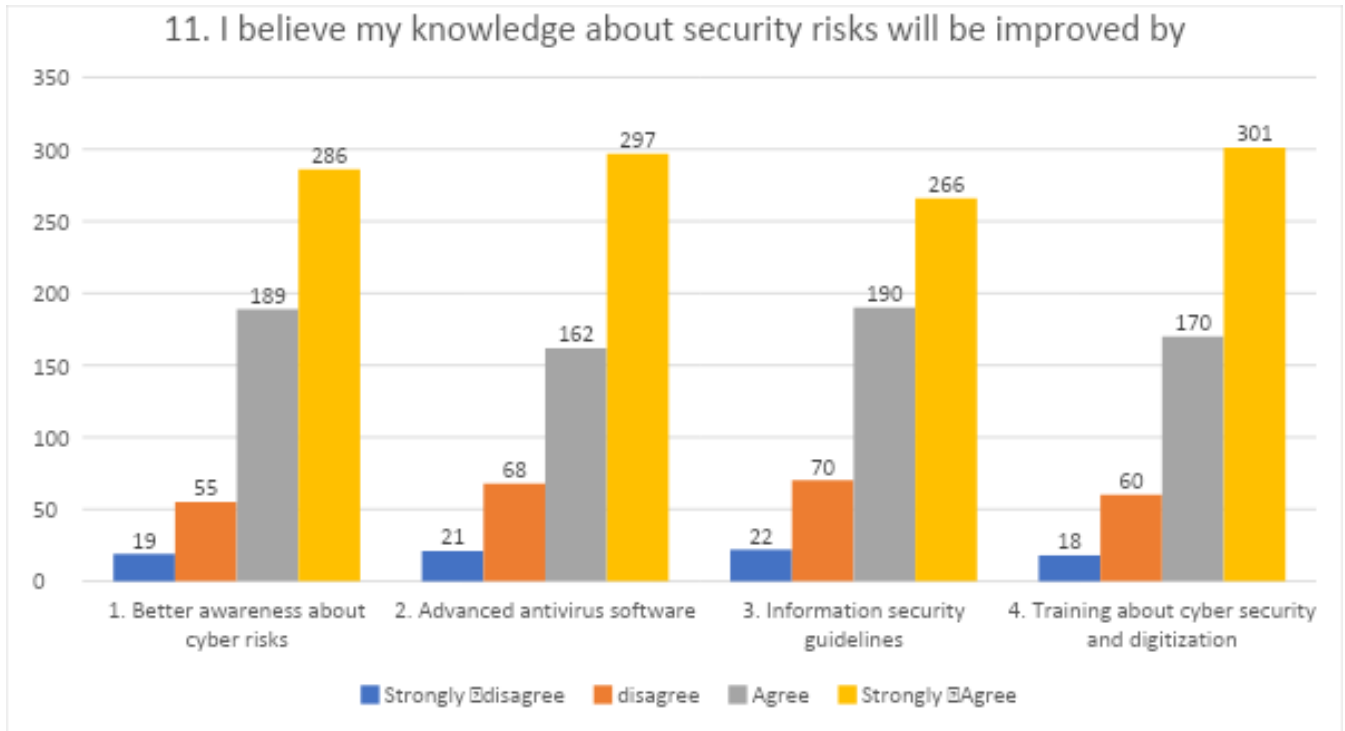
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Analysis of Learners Assessment Questionnaire on Adult Educators ICT skills

486 adult learners filled the learners' assessment questionnaire with 95 people representing the age group of 20 years old and younger, 87 people representing the age group of 20-29 years, 158 representing the age group of 30-39, 104 representing the age group of 40-49, 38 representing the age group of 50-59 and 4 people representing the age group of 60 years old and older.

84,76 % of the respondents had attended at least one adult learning or vocational education training in the past year.

Almost half of the respondents (45,63%) have a university degree, but 40,27% have a secondary school diploma, but 14,1% of the respondents have a primary school education or lower.

The primary reason of choosing an adult education programs is quality of teaching (375), adequate learning materials (337), interaction between learners and trainers (312) and a possibility of developing new



competencies and skills that are valuable for their work (308). Only 184 respondents said that when choosing a learning course, they pay attention to the availability of ICT tools.

However, when asked to what respondents pay attention to when taking adult learning courses 274 pointed out that they pay attention to the use of interactive methods and 270 said that they pay attention to the use of digital tools, but absolute majority (408) said that they choose courses based on the organisation of the respective course.

Nevertheless, when asked if respondents agree that ICT tools improve organization of the course, absolute majority responded positively with 37,24% agreeing and 44,41% strongly agreeing, underlying one of the main conclusion from this survey – even if the use of ICT tools isn't primary reason for choosing adult education course, use of these tools can considerably benefit education process and improve participants overall satisfaction with the trainings.

As the most valuable benefits of using ICT tools in the learning process, respondents point out that during their courses they simultaneously can improve their ICT skills (346), have access to more information (310) and that with ICT tools their learning schedule is more adaptable to their personal schedules (306). A slightly smaller number of respondents as a benefit of use of ICT tools in the learning process mention interactivity (270), more effective communication (224) and a stronger trainer's involvement (169).

Majority of respondents either agree or strongly agree that adult education and VET centres should offer training events via various communication tools, via webinars and offer online training events in general, as well as offer additional resources using different document sharing platforms and inform students about cyber security challenges when using these platforms.

However, when asked about different cyber security risks, students admit that trainers not always manage to raise awareness about different cyber security related issues. Majority of respondents either strongly disagree or disagree that trainers raise their awareness about data protection, security risks, securing data and copyrights, indicating that trainers would benefit from additional training about cyber security risks while using different ICT tools.



According to the survey, trainers mostly use ICT tools to show presentations during their lectures, to offer additional information and resources from the Internet, to offer digital content for learner's use and to share documents and files with students. Less often trainers use ICT tools to communicate with students, to get feedback from students and to work with different online learning platforms.

In survey's respondents' overall experience, trainers use ICT tools for teaching purposes quite rarely. If the ICT tools are used, they are most often used for organizing webinars (using zoom, skype or MS Teams), for communicating during learning process via Social media (Facebook, Skype, YouTube), for organizing classroom activities using online calendars and different communication tools (google calendar, outlook calendar or doodle) and for sharing tutorials with students, using cloud storage platforms (google drive or one drive). Use of smartphones and tablets during lectures is also common.

Less often trainers use tools that promote student collaboration. If they are used, Facebook and Kahoot are most common. Trainers quite rarely use online presentation tools to make interactive presentations for lectures. If such tools are used, Prezi.com, Infogram, Mentimeter or Piktochart are most popular amongst these tools. Similar situation is with web-based data visualization and infographic platforms – trainers don't use such tools too often. However, when they are used, Infogram and Piktochart are common choices. Use of e-learning platforms are also undiscovered area. When questioned about different e-learning platforms, respondents replied that in their experience trainers don't use them, but when do, only Moodle is mentioned.



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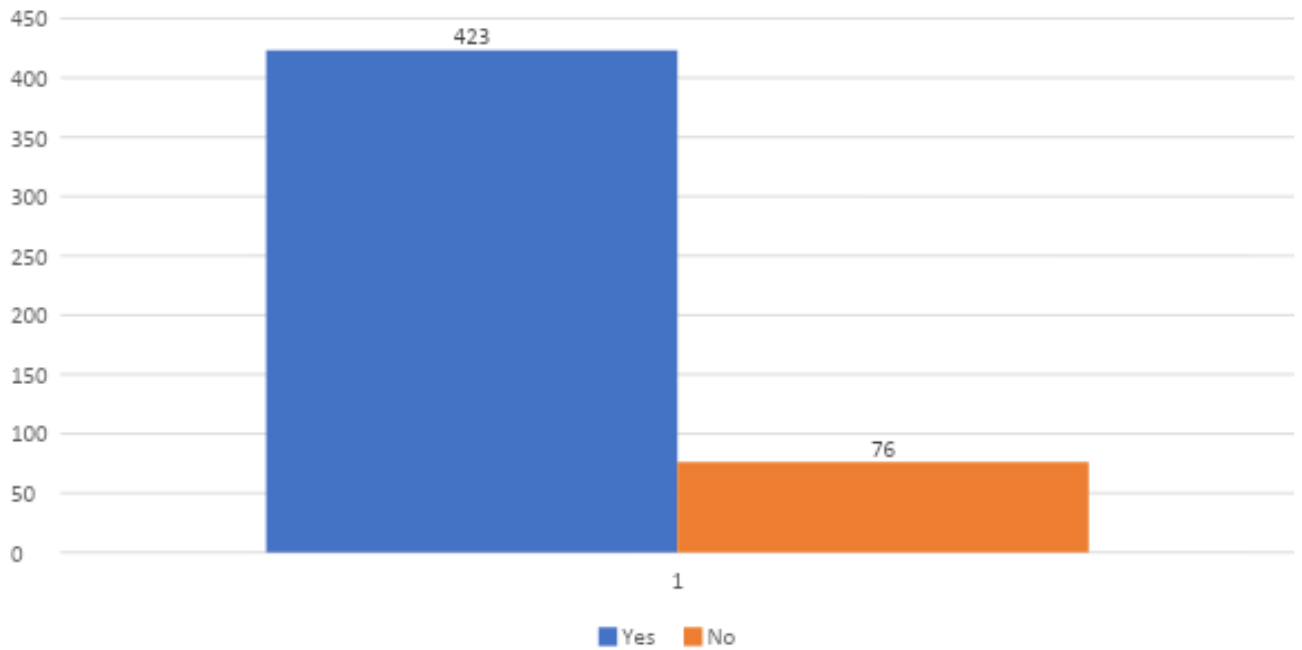
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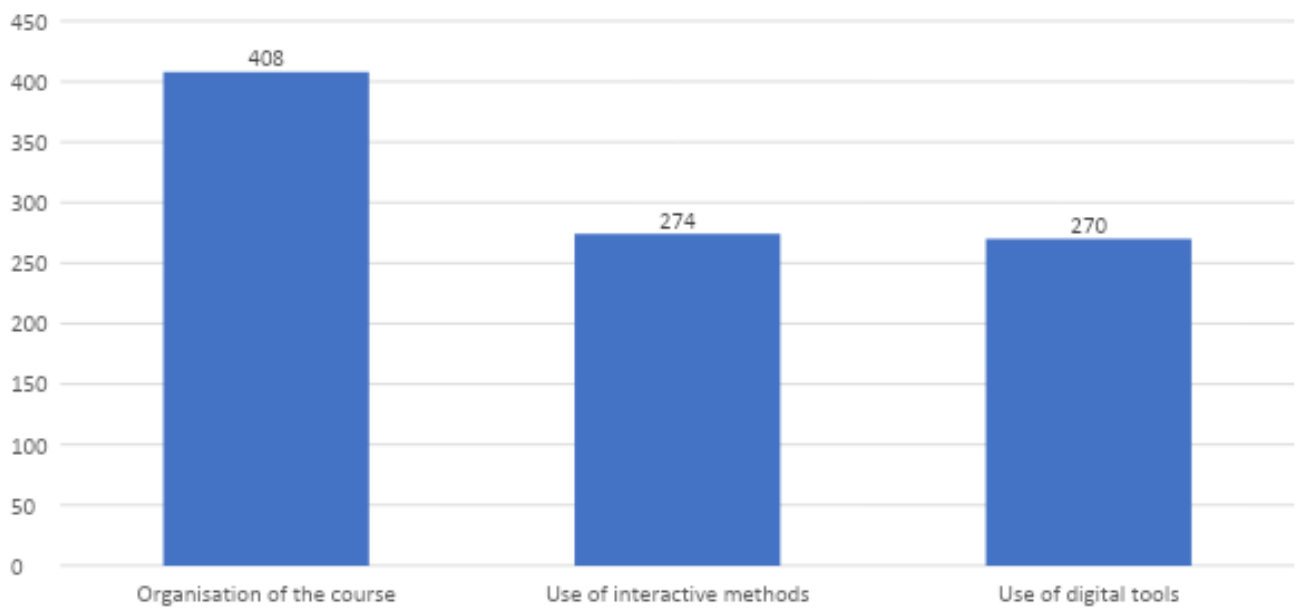
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1. Have you attended an adult learning or VET course :



2. In my personal experience of taking adult learning or VET course, I pay attention to these aspects





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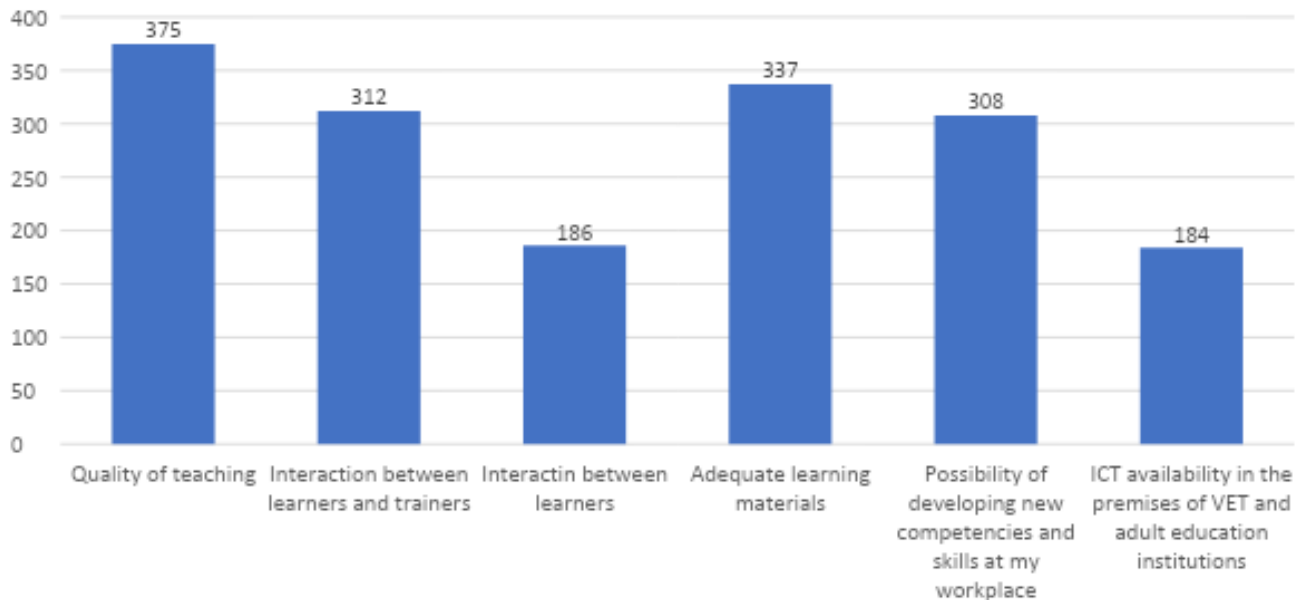
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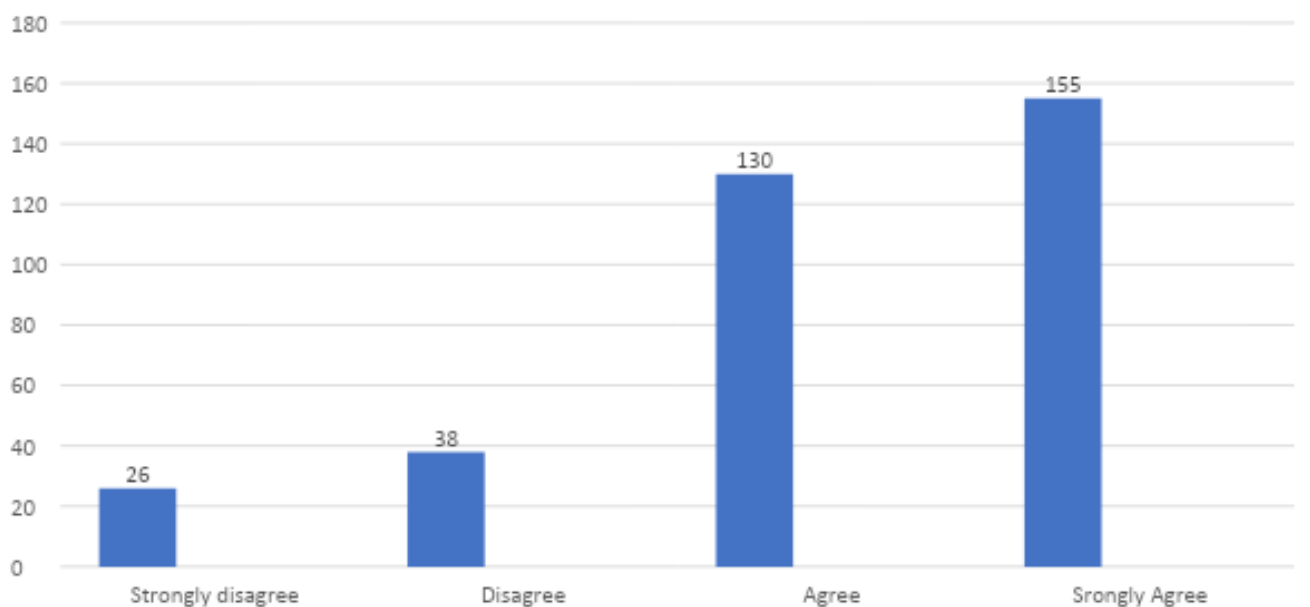
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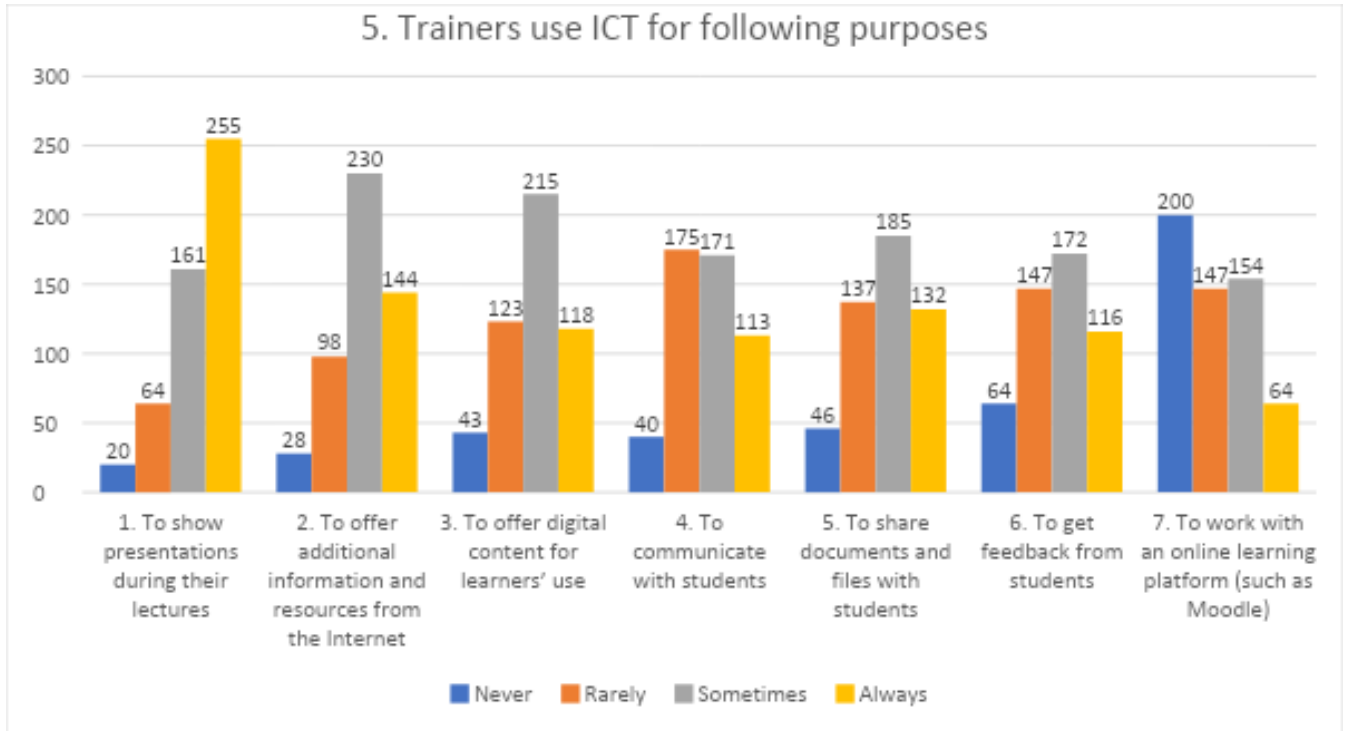


3. What is the most relevant aspect of choosing the VET course (You can choose more than one answer) :



4. I believe that the use of ICT tools improves the organization of courses





6. In my experience, trainers use these ICT tools for teaching purposes:



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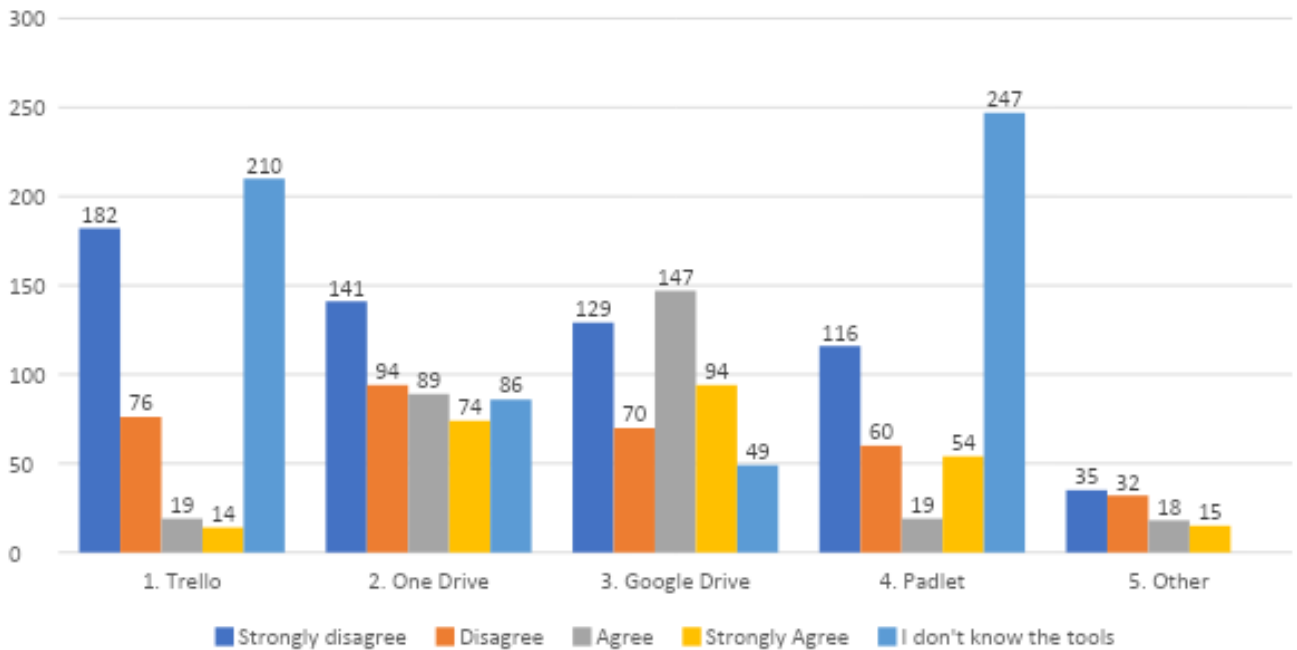
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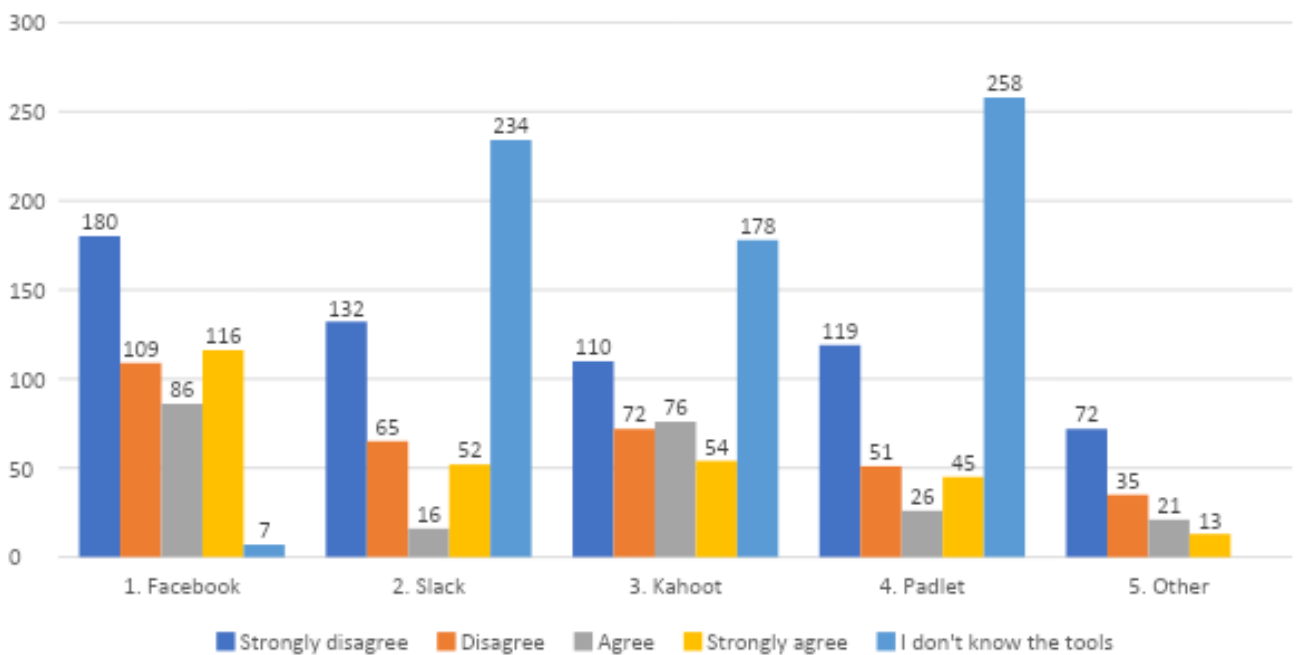
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6.1. Cloud Storage of online files to share tutorials with students



6.2. Online Collaboration tools that promote student collaboration





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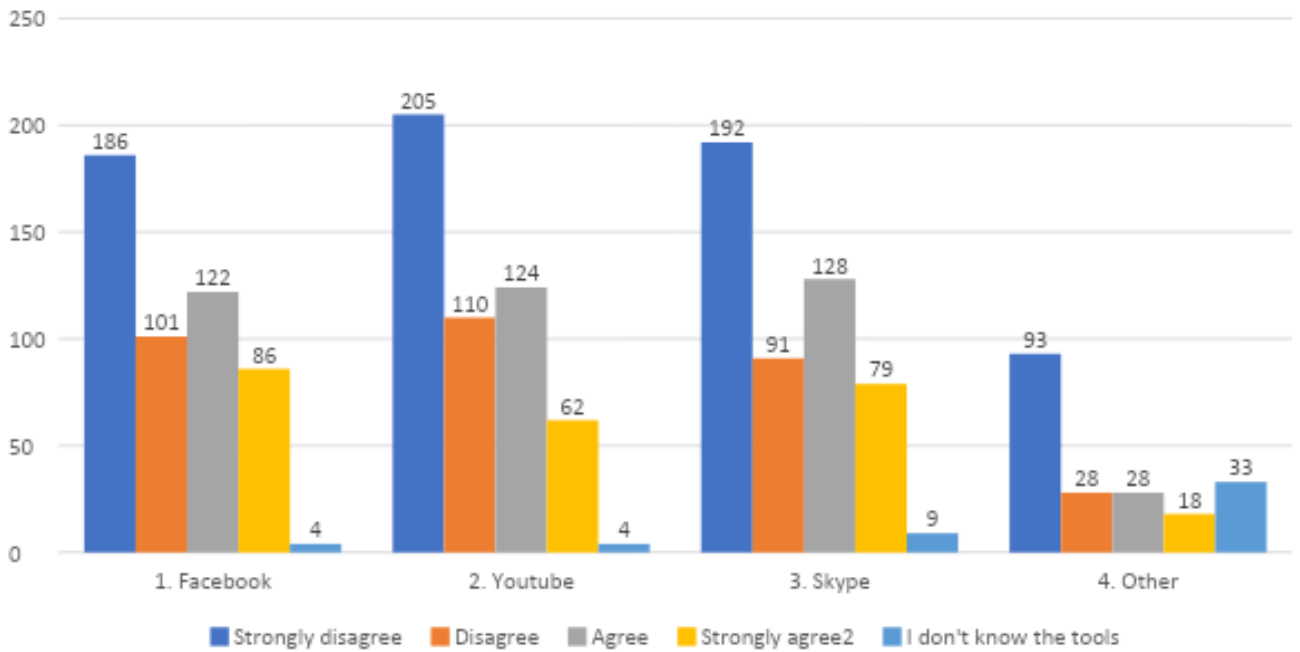
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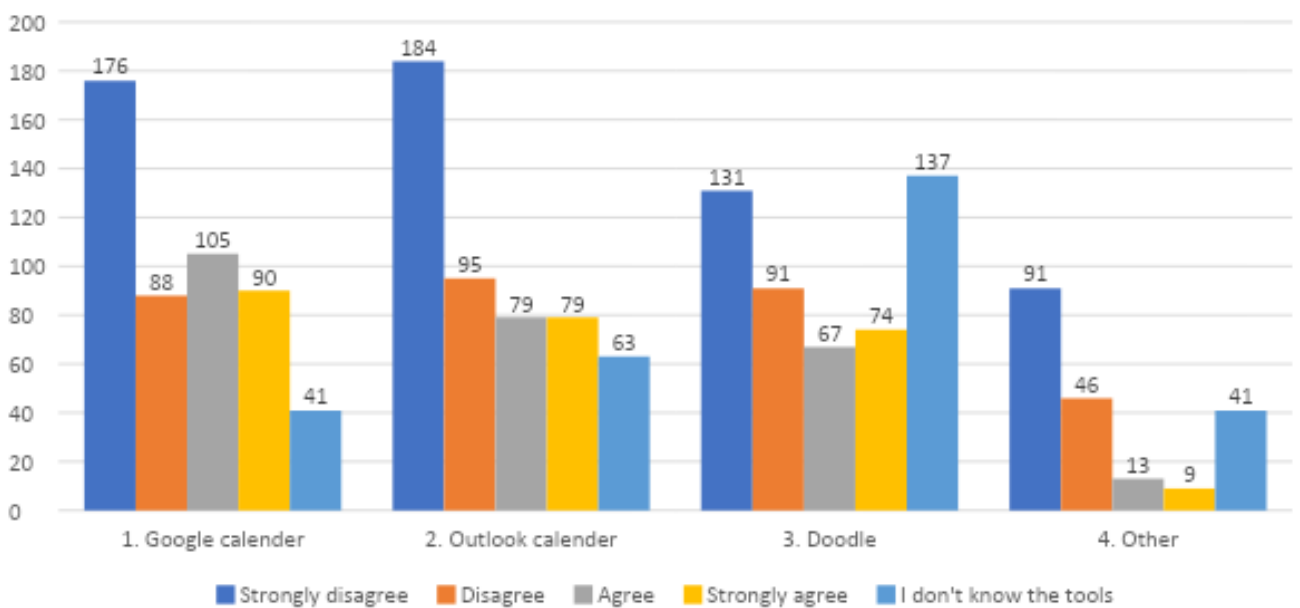
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6.3. Use of communication via Social media in the learning process



6.4. Online calendars and communications tools to schedule classroom activities or collaborate with other classes





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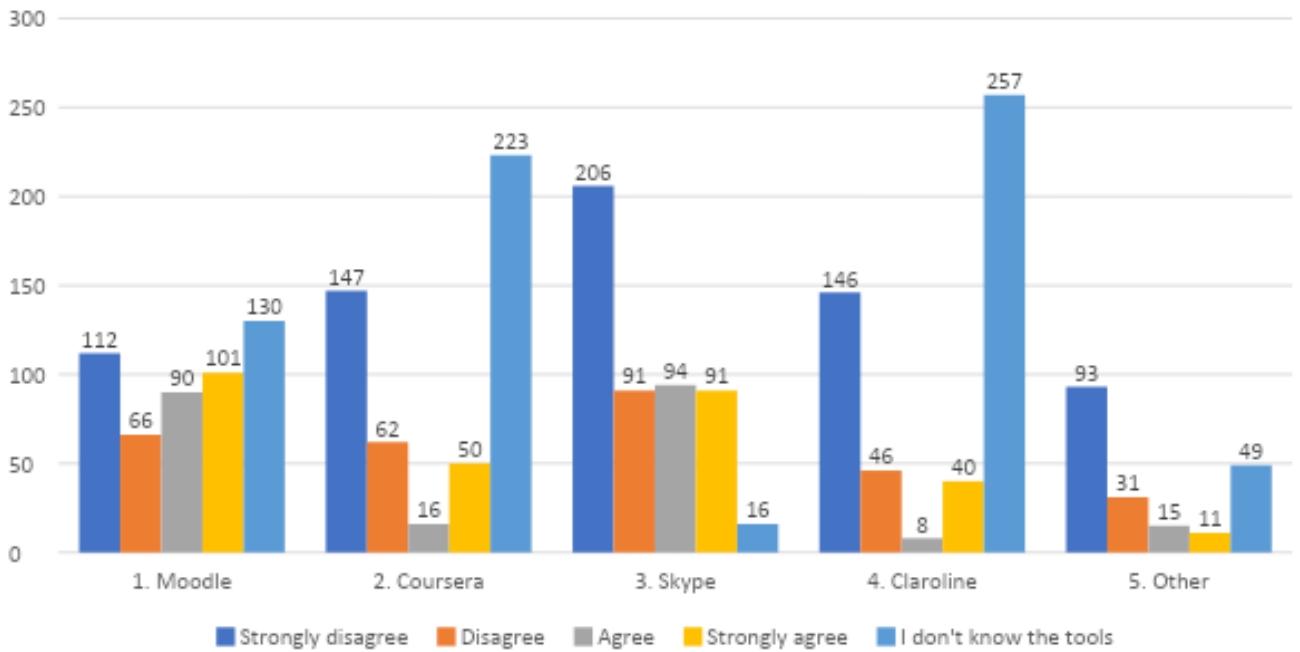
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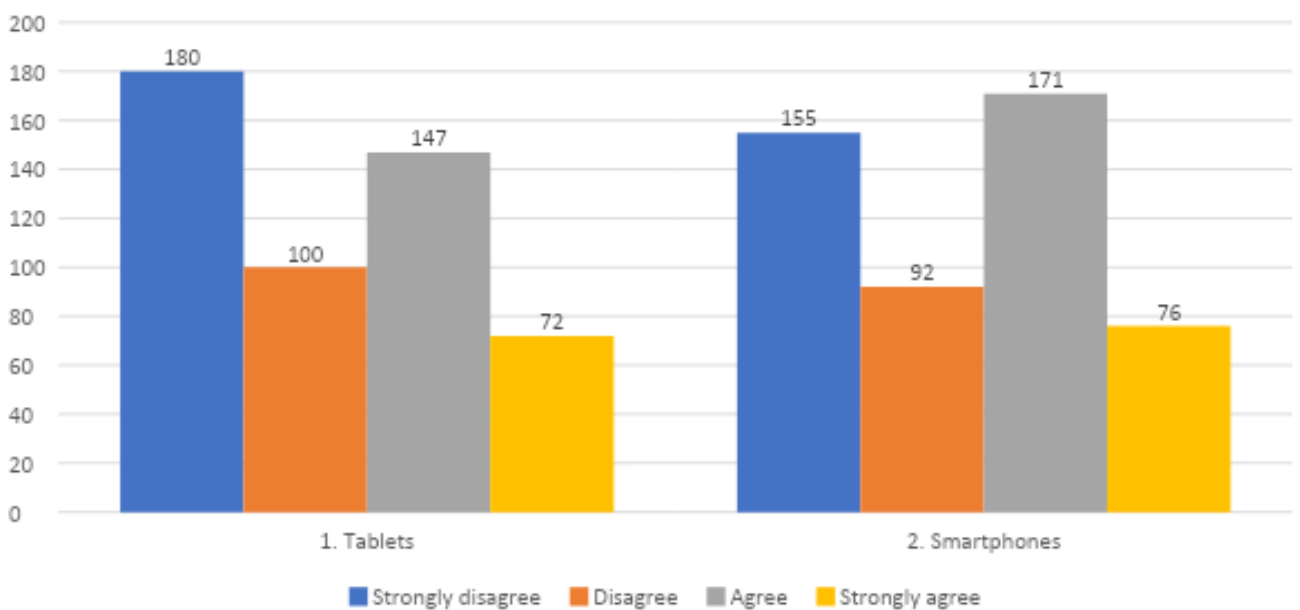
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6.5. Using an e-learning environment to organize learning process



6.6. Using mobile devices in learning to support interactive learning activities





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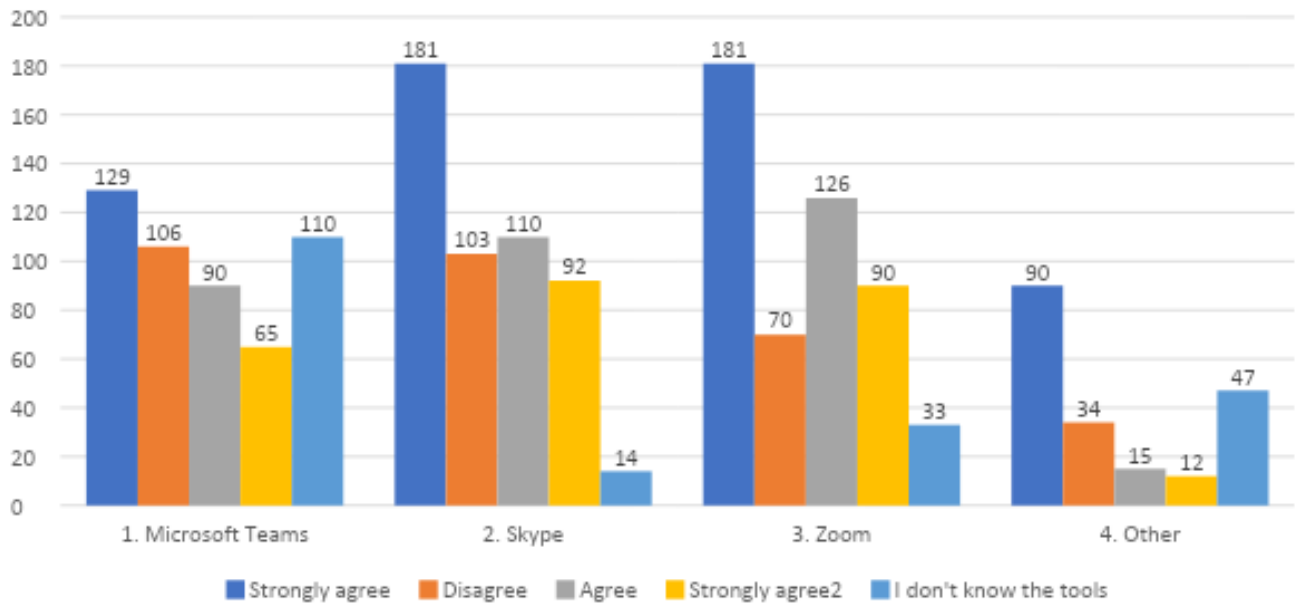
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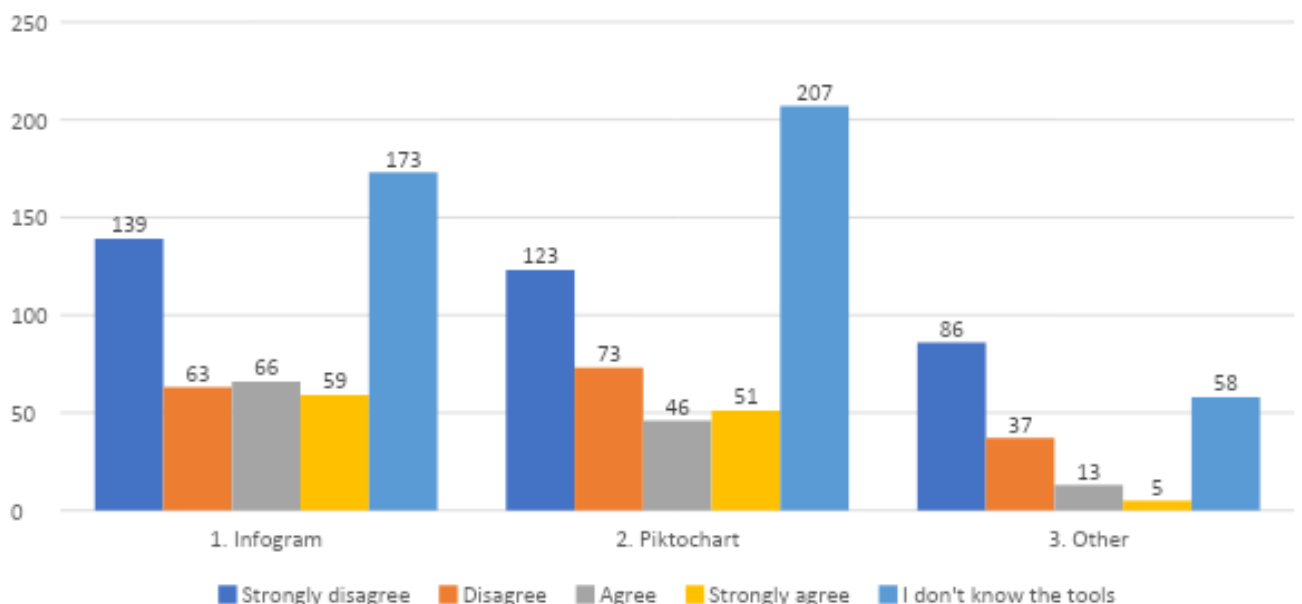
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6.7. Webinars to organize seminars on the Internet that can also be attended remotely via



6.8. Web-based data visualization and infographics platforms to make digital charts and infographics





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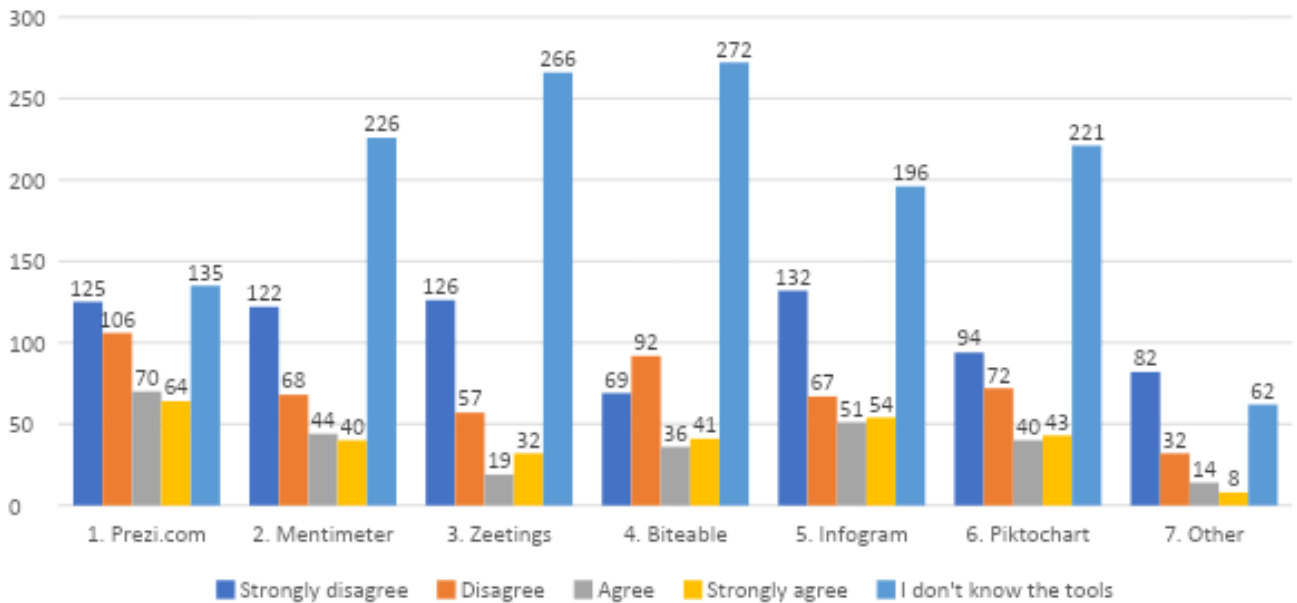
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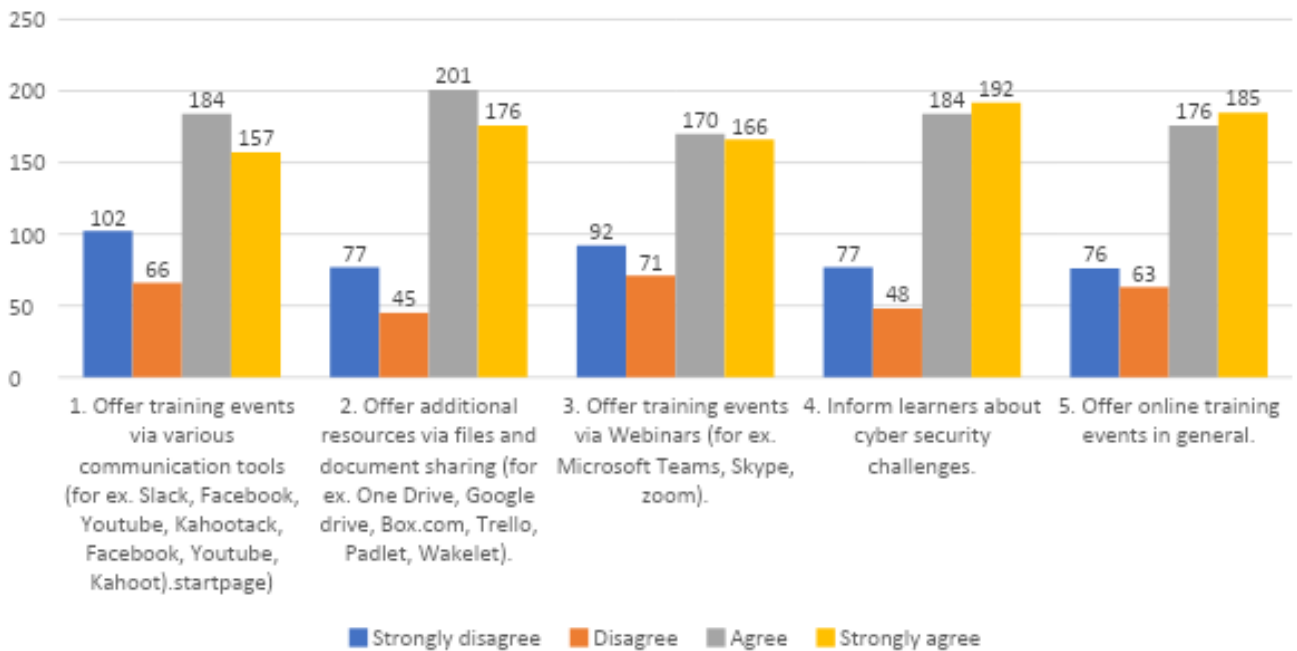
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6.9. Online presentation tools to make interactive presentations for lectures



7. VET and adult education institutions should :





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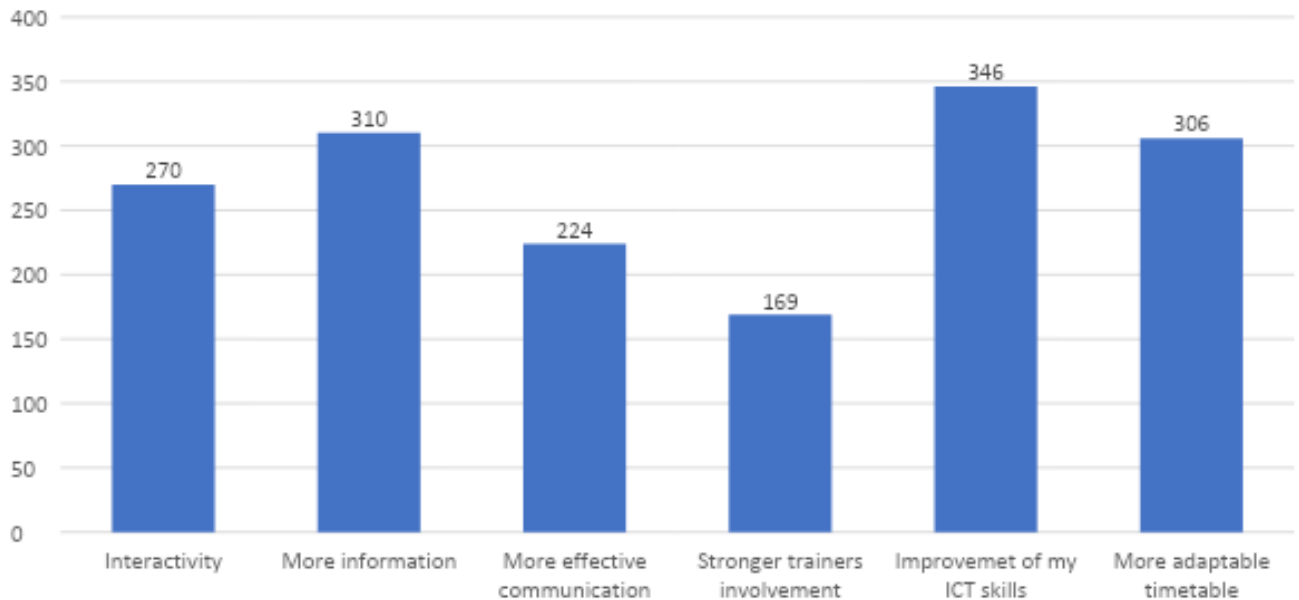
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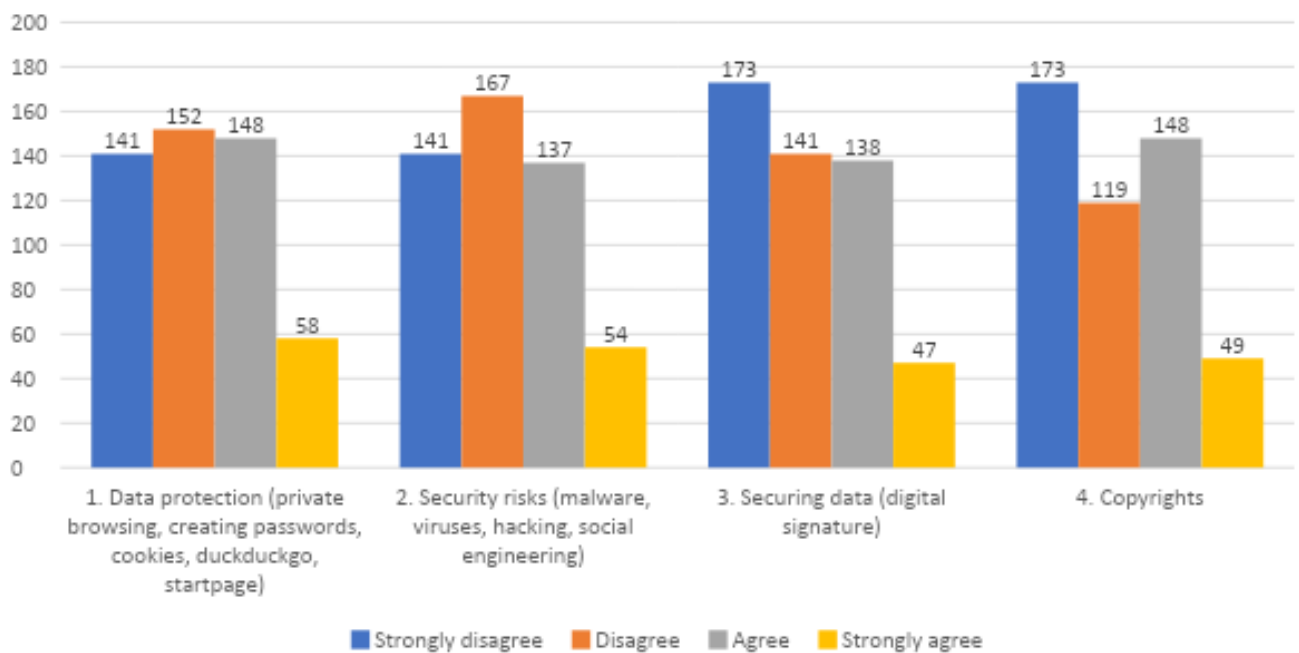
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8. The most valuable benefit of using ICT in the learning process is... (You can choose more than one answer)



9. Trainers raise my awareness on the following issues





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