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Digital plan

OŠ "Sveti Sava"




inerciadigital

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Introduction - What is Digital plan?

A **Digital Plan** is a modern approach designed to enhance educational experiences through the integration of digital tools, that creates a connected, interactive, and self-paced learning environment in the context adult education. Using platforms such as Moodle or Google Classroom, learners can access materials at their convenience, fostering autonomy and accommodating the diverse schedules of adult learners.

Implementation Strategy is important part that integrates digital and social media platforms to support a blended approach to learning. Learning Management Systems (LMS) provide the structural backbone, while social media enables real-time collaboration and discussion, allowing attendees to connect and interact within private, supportive spaces online.

Teacher and Facilitator Training forms the foundation of a successful Digital Plan. Teachers are trained in creating content suited to diverse learning needs, using various multimedia tools for visual appeal, and managing classroom interactions on digital and social platforms. Being able to create efficient online material for their attendees, teachers become facilitators, who are equipped with essential digital literacy skills, including content selection and organization, moderation techniques, to create a collaborative online environment where learners feel supported.



Formative **assessments**, such as digital quizzes and social media discussions, measure engagement and understanding, while feedback channels enable facilitators to adapt resources based on students needs. This responsive approach ensures that the Digital Plan remains aligned with learning goals, creating a learner-centered environment.

In primary school “Sveti Sava”, we fostered the knowledge gained during our stay on courses with “Inercia Digital” training center, that shaped our vision and provided us with tools, necessary to come up with our digital plan, which is to modernize and elevate teaching process, making it more pleasant, interesting and transgressive, efficient for both our attendees and teachers and finally, making the process of teaching more acceptable and fun.

Staying with “Inercia Digital” we attended two courses, “Flipped Classroom Methodology” and the second “Learning and Teaching in Social Media”, with the intention to incorporate knowledge gained through these two courses in our digital plan. What is worth to say in this spot is that flipped classroom methodology along with using of informational and communicational technologies are a part of the teaching process in Serbian education, making our job a bit easier in terms of assembling specific and thorough plan.



Given the knowledge and the structure through courses and based on the needs of our attendees and their learning pace and capacities, we have developed a thorough plan that can be implemented in our every day school environment:

1. Objectives

- Foster Engagement and Accessibility
- Self-Paced Learning with Social Interaction
- Enhance Digital Literacy

2. Implementation Strategy

- Learning Platforms and Social Media
- Multimedia Content Creation
- Flipped Classroom Focus

3. Teacher and Facilitator Training

- Digital and Social Media Literacy
- Content Curation and Management
- Ongoing Support and Collaboration

4. Out-of-Class Activities and Resources

- Pre-Recorded Lessons
- Online Discussions and Peer Interactions
- Self-Assessment and Reflection Tools

5. Assessment and Feedback

- Formative and Summative Assessments

Objectives

The primary objective of digital plan is to support adult learners in primary education by adopting a learning environment that combines both self-directed learning and collaborative online engagement. Engagement and Accessibility is very important because digital tools and social media platforms offer flexible access to learning materials, allowing adults to engage with educational content at their own pace and convenience. This flexibility is crucial as adult learners often balance education with other commitments, such as work or family responsibilities. By using digital content that can be reviewed independently, the plan empowers learners to take control of their own pace, making it easier for them to engage in foundational knowledge before classroom sessions.

Self-directed learning resources are provided for pre-class engagement, and in-class activities focus on application and deeper understanding. The inclusion of social media further enhances this by allowing students to connect, share experiences, and provide peer support.

Digital literacy not only benefits students in their studies but it also contributes to their adaptability and skills in other areas of life, such as personal communication, job readiness, and community engagement which is also the basis of adult education itself. By incorporating basic digital navigation skills, safe social media practices, and effective online communication strategies, the plan aims to develop digital proficiency that adults can apply beyond the classroom, as those are the current needs in terms of adapting in modern world. Adult education itself aims to provide it's students with useful skills, in correlation with the given subjects in school, that can be applied on a daily basis.

Implementation strategy

For adult learners, platforms such as Google Classroom or Moodle serve as structured spaces where resources, assignments, and progress tracking are organized. These platforms offer familiar structures akin to traditional classrooms but are enhanced with digital accessibility, allowing learners to review materials at any time. Social media integration, on the other hand, provides a more informal, interactive platform for discussions and peer support. Using platforms like Facebook or WhatsApp, it allows adult learners to engage in discussions, share ideas, ask questions, and receive feedback in a social, supportive environment.

As for multimedia creation, using tools such as “Canva” and “Powtoon”, educators can create visually appealing and interactive content that meets the needs of adult learners. These multimedia resources break down complex ideas, making learning more engaging and fun and less stressful and overwhelming. For instance, a short animated video can make abstract concepts more concrete and memorable for adults, who might find it challenging to absorb information from text-heavy resources as the praxis showed us that adults has a different knowledge acquisition rate than youngsters.

The Flipped Classroom uses classroom time primarily for practical exercises, such as in-depth discussions, real-world applications, and group problem-solving. Adult learners benefit significantly from this format, as it allows them to bring their unique life experiences into the learning process, making discussions more meaningful and applicable. By reserving classroom sessions for active engagement, it encourages learners to come prepared, having already absorbed the prepared material online. This structure promotes a deeper level of learning, where classroom time becomes a space for application and inquiry rather than initial content delivery.

Teacher and Facilitator Training

A successful digital learning environment for adults requires knowledgeable facilitators skilled in both digital and social media literacy. Digital and Social Media Literacy training equips facilitators with the competencies needed to effectively create and manage content for educational platforms and social media. Facilitators learn how to create an inclusive, constructive online environment where adult learners feel comfortable engaging and interacting. Additionally, facilitators are trained to recognize and handle potential challenges in online discussions, ensuring that digital spaces remain supportive and focused.

Content Curation and Management emphasizes the need for facilitators to become proficient in sourcing and sorting educational content from social media and other online platforms. By leveraging platforms like YouTube or educational blogs, facilitators can provide adult learners with diverse, reliable resources that complement formal course materials. This approach ensures that learners are exposed to a wide array of media, enriching their understanding and their engagement. Facilitators are also encouraged to create content that reflects adult learners practical needs, using real-life examples to make the material more relatable and applicable.

Ongoing Support and Collaboration among facilitators helps maintain high-quality digital teaching standards. Regular peer-sharing sessions, workshops, or online forums provide spaces for facilitators to exchange experiences, discuss challenges, and share updates on new tools and methodologies. By fostering a collaborative community, facilitators remain adaptable and responsive to the unique needs of adult learners, staying informed about evolving digital practices that can be integrated into their teaching.

Out-of-Class Activities and Resources

Pre-Recorded Lessons allow adult learners to access instructional materials independently before class. Short video or audio lessons are ideal, as they allow for flexible learning that accommodates the varying schedules of adult learners. The freedom to revisit these lessons also supports adult learners who may need more time to absorb complex information. By pairing these lessons with supplementary resources on social media, such as links to relevant articles or short explainer videos, attendees can dive deeper into the material at their own pace.

Online Discussions and Peer Interactions using applications such as Facebook or WhatsApp, they offer a platform for attendees to extend classroom discussions, ask questions, and share ideas outside school hours. This setup allows adult learners to build a sense of community and mutual support, which is essential in adult education, where peer learning can significantly enhance the educational experience.

Self-assessment quizzes, reflective exercises, or even guided questions in social media forums encourage learners to think critically about their learning progress and areas that needs improvement. These tools provide learners with a clearer sense of direction, helping them to focus their efforts on specific skills or knowledge areas, thus boosting confidence and motivation.

Assessment and Feedback

Assessments play an essential role in tracking adult learners progress. Digital quizzes, short projects, and social media participation are used to measure both knowledge acquisition and engagement levels. By including social media activities as part of the assessment, adult learners are encouraged to actively participate in discussions, fostering a deeper connection with the material and their peers. This approach also allows facilitators to monitor engagement and provide targeted support where needed, helping each learner meet their full potential.

Introducing a digital plan into adult education curriculum

In adult education, there is already a practice of using the Internet and web tools in teaching, as well as platforms that are helpful in working with adult learners. We used the knowledge gained during the seminars that our colleagues attended to improve the teaching process and make it more interactive, easier to master and finally more enjoyable and fun.

Below are suggestions for introducing the digital plan of our school into the teaching process, that is, into different curricula, according to the subjects taught by the colleagues who attended the seminar. Every teacher chose up to three different teaching units as an example of implementation of digital techniques obtained during courses, with an explanation about the way class is conducted (“class flow”), detailing on chosen tools proven useful not only for the given unit but wider. Those examples sets basis on how to implement digital plan in every subject/curriculum in adult education.

Fellow colleagues and course attendants that participated in the creation of digital plan are:

Jelena Ivanović Mirković and Slobodanka Rebrača, teachers (first cycle, 1-4 grade),
Milica Blagojević, chemistry teacher,
Jelena Jovanović, English teacher,
Aleksandar Dukić, Serbian language and literature teacher, and
Ivan Arsenijević, mathematics teacher.

Digital plan for English language

1. English around us

- Prepare video lessons using Loom as a tool, where students can watch and listen conversations from the real life (for example: conversations in a grocery shop, at home or in a public transport). That enables them to become familiar with the vocabulary and sentence constructions at their own pace before the class.
- Quizzes: Students can use online quizzes (for example: Google Forms or Moodle quizzes) to check their understanding of the vocabulary used in video lessons.
- Genially: Create interactive activities such as connecting phrases with real life situations, in order to boost deeper understanding and acquiring permanent knowledge.

2. Important places and institutions

- Prepare virtual city tour with pre-recorded videos using Loom as a tool, that show places like post offices, schools or hospitals. Students can watch these tours and write down key words and phrases.
- Quizzes: Implement quizzes in which students identify places based on pictures and descriptions to reinforce the material.
- Genially: Develop interactive maps or scenarios where students drag or drop places to the appropriate locations, which helps meaningful learning and context.

3. Asking for and giving instructions

- Share video demonstrations of giving and following instructions recorded using Loom as a tool. Encourage students to stop the recording, repeat and practice at home.
- Quizzes: Come up with short scenario quizzes where students choose the correct phrases for a given map or written situation.
- Genially: Use the tool to create animated streets where students can practice navigating by selecting options with directions and receiving feedback.

Digital plan for English language

4. Feelings and needs

-Provide pre-recorded Loom videos that explain different moods and feelings with examples in different contexts. This will enable students to hear intonation and expressions associated with feelings.

-Quizzes: Create multiple choice quizzes where students match expressions (for example: I'm happy) with their meanings and synonyms.

-Genially: Use interactive diagrams or mind maps that show the connections between different emotions and corresponding reactions. This will help students to use the language contextually.

·I use **Loom** as a tool because it's ideal for creating personalized video content that students can re-watch as needed. Video materials may cover pronunciation exercises, idiomatic phrases or grammar exercises.

·I use **Genially** as a tool because it develops games that support learning, such as games for connecting emotions or virtual searches for concepts related to important places.

·I use **Quizzes** because they provide continuous self-assessment at the end of each lesson, they help students to monitor their progress and to memorize the material.

Digital plan for Teachers (first cycle)

1. Serbian language - Verb tenses

- Prepare a mind map using Coggle, to represent verb tenses in a visual way.
- Using Padlet, students present one example for each of the verb tenses and thus exchange ideas.
- Gelially: Create a quiz with the help of which you will get feedback on the level of acquired knowledge about verb tenses.

2. Mathematics - Tasks with two operations of different priority (determining)

- Quizlet: Create a quiz with tasks, which must be answered in a certain period of time. Students solve tasks individually or in pairs.
- Quizizz: Using this tool, the teacher provides feedback to the students on the adoption of the teaching content, pointing out mistakes and suggesting the correct way to solve them.

3. The world around us - Navigating the settlement

- Prepare a virtual neighborhood using Loom as a tool, so that students have an insight into the urban plan of the neighborhood with the rules of navigation (for example: odd apartment numbers on the left side of the street, even numbers on the right side, how the street names are indicated).
- Mentimeter: A location is set as a goal, which students can reach by setting steps and following the rules of the neighborhood, while students discuss using this tool.

Digital plan for Teachers (first cycle)

Coggle – A mind mapping tool built to better understand how students think.

Padlet – A blank canvas that students can use to create and design collaborative projects. Great for exchanging ideas.

Quizalize – A great tool that allows teachers to easily create tests and homework for students. Teachers can see how students have done them and identify areas that need improvement.

Quizlet - Create quizzes, quizzes, flashcards, and learning games that are engaging and accessible online and on mobile devices.

Mentimeter - Allows you to use mobile phones or tablets to vote on questions the teacher asks, increasing student engagement.

Digital plan for Serbian language and literature

1. Types of words (changeable and unchangeable)

Flipped Classroom: Use Loom to create short video lessons that explain types of variable words (nouns, pronouns, adjectives, etc.) with examples and usage in context, as well as for variables.

Interactive activities: Use Genially to design interactive exercises where students can drag and drop words to categorize or associate them with the appropriate grammatical type.

Quizzes: Include quizzes that test students' knowledge of word types and their functions in a sentence. Include fill-in-the-blank questions and sentence-building exercises that reinforce the lesson.

Practice tasks: Share worksheets or digital activities via Moodle that students can do at their own pace, with automatic feedback.

Knowledge check tasks include recognizing and distinguishing variable and non-variable types of words.

2. Verb forms (present, perfect, future)

Flipped Classroom: Prepare Loom videos that explain verb forms with real-life examples and visuals (eg sentence animations). Cover the conjugation rules and exceptions.

Lessons with Genially: Create step-by-step interactive tutorials where students can practice conjugating verbs by clicking through exercises that provide instant feedback.

Quizzes: Use the quizzes tools to create interactive exercises focused on identifying and conjugating verb forms. This can include sorting activities (eg placing verbs in the correct tense category) and filling in the gaps.

Peer Review: Organize small peer review groups where students can create sentences using different verb forms and share them for feedback in a forum or shared document.

Digital plan for Serbian language and literature

3. Literary gender and literary genre

Flipped Classroom: Share pre-recorded lessons via Loom that explain the characteristics of different literary genders and genres. These videos may include detailed analysis and visual examples to illustrate the differences between genres such as epic, lyric, and drama.

Interactive content with Genially: Create interactive presentations where students can click on different literary terms and see examples from famous works. This helps to enhance understanding through research.

Quizzes: Develop online quizzes on platforms such as Google Forms or Moodle to assess student understanding after they watch Loom videos. Include multiple-choice and short-answer questions about key features of different genres.

Digital plan for Mathematics

1. The Concept of Degrees

Video Lessons (Loom):

- Create a video explaining degrees, including concepts such as angles, their measurement, and conversion between radians and degrees.
- Include examples of real-life applications, such as navigation and design.

Interactive Tools (Genially):

- Develop a visual activity where students drag and drop angle measurements to match with their graphical representations.

Self-Assessment (Google Forms or Moodle):

- Short quizzes where students identify acute, obtuse, and right angles based on provided diagrams.

Group Work:

- Activities, using protractors and geometry kits to measure and construct angles.

Problem-Solving:

- Interactive whiteboard activity where students solve practical problems involving angles, such as those in a clock or polygon.

Discussion:

- Explore why accurate angle measurement is essential in various professions, like engineering or architecture.

Practice Assignments:

- Create additional problems for students to practice identifying and measuring angles.

Digital plan for Mathematics

2. Equations

Video Lessons (Loom):

- Explain the basic principles of equations, types (linear, quadratic), and their real-life relevance, such as budgeting.
- Solve simple equations step-by-step.

Interactive Tools (Genially):

- Create a balancing scale activity that visually represents solving equations by isolating variables.

Quizzes:

- Provide pre-class quizzes to identify whether students can balance simple equations or rearrange terms.

Collaborative Problem-Solving:

- Students work in pairs to solve equations of increasing difficulty.

Peer Teaching:

- Assign students roles where one explains a solution to the group, reinforcing their understanding.

Discussion:

- Explore the importance of equations in real-world contexts, such as physics or economics.

Interactive Quizzes (Genially):

Incorporate equations into a story-based game, requiring correct answers to progress.

Digital plan for Mathematics

3. Use of Appropriate Units of Measurement

Video Lessons (Loom):

- Cover types of measurement units (length, mass, volume, time), conversion between units, and their relevance.
- Demonstrate examples from cooking, construction, and travel.

Interactive Tools (Genially):

- Develop a matching activity where students pair units with their appropriate contexts.

Quizzes:

- Offer short tasks requiring students to identify errors in unit usage or convert between units.

Hands-On Activities:

- Conduct experiments requiring students to measure items using various tools and convert units.

Application-Based Learning:

- Solve problems such as calculating areas and volumes with unit consistency.

Group Work:

- Groups design a short project, like planning a garden, ensuring correct unit usage for dimensions and materials.

Real-World Applications:

- Assign tasks such as analyzing recipes or creating travel itineraries with unit conversions.

Interactive Games (Genially):

A simulation where students must use correct units to succeed in a virtual construction project.

Digital plan for Chemistry

1. Atoms and molecules

-Prepare video lessons using Movie maker as a tool, to create engaging videos that explain the structure of atoms and molecules by incorporating animations, images, and simple textual descriptions. This type of video lesson enable students to understand atomic models, electron configurations, and molecular structures, making abstract concepts easier to understand.

-Using Coggle students can easily represent the structure of atoms: starting with a central node representing the atom. Around it, add branches that show the main components of an atom: protons, neutrons and electrons. Then, each of these branches can have further explanations about their properties, such as charge, mass and position in the atom.

-Come up with a short tests using Quizzes, with multiple-choice, true/false, and fill-in-the-blank questions on topics such as protons, neutrons, electrons, atomic number, and electron orbitals.

2. Acids, bases and salts

-Using Canva teacher can make poster and on that way the lesson will be better organized, for example:

-Big title image

-Definitions: Acids are substances that donate a proton (H^+) in an aqueous solution.

-Bases are substances that accept a proton or donate an OH^- (hydroxide ion).

Salts are compounds formed from the reaction between an acid and a base (e.g., NaCl).

-Visual representation of the acid-base reaction

-Show the pH scale: Create a chart of the pH scale to illustrate how acids ($\text{pH} < 7$), bases ($\text{pH} > 7$), and neutral substances ($\text{pH} = 7$) behave.

-Implement Quizlet by creating a short form questions in which students have to connect knowledge of chemical formulas to the compatible class of compounds.

Digital plan for Chemistry

3. Organic compounds

-Prepare interactive presentation using Genially as a tool, to help students understand the presence and importance of organic compounds in living organisms. Also, it would be useful to create and guide and handbook for learning organic compounds using Genially, which can include some visual examples, videos and animations, interactive quizzes, and links to additional resources such as textbooks, articles, or online courses, allowing students to dive deeper into topics like spectroscopy and organic synthesis.

-Students knowledge can be tested using the Kahoot tool, which would include questions about classification of organic compounds, their physical or chemical characteristics, etc. This method can also be applied as a team work, which makes it even more interesting for students and in this way they acquire even more knowledge and skills. In the end of the quiz, Kahoot will show the results in the form of ranking list and this will be helpful for teacher to provide additional explanation for those parts of the material that were not clearly understood.

-Sharing the links of diferent interactive videos on YouTube can be very interesting for students and present the formation of organic compounds and their reactions such as combustion, addition or substitution in a different ways. Channels like Khan Academy, CrashCourse and Organic Chemistry Tutor provide clear, visual explanations that help students understand complex concepts in organic chemistry.

Description of the tools used in this plan:

-Movie maker can be used in teaching to create engaging video content that explains complex concepts, such as scientific processes, in a visual and interactive way. It allows students to create their own videos for projects, enhancing their creativity and helping them better understand the subject matter through multimedia.

-Coggle is a great tool for visually presenting the structure of atoms and molecules, as it allows easy creation of diagrams and mind maps.

Digital plan for Chemistry

-Using Quizzes to assess student's knowledge of atomic structure is an effective way to engage them interactively. You can create quizzes with multiple-choice, true/false, and fill-in-the-blank questions on different topics. After each answer, Quizzes provides instant feedback, helping students understand why their answers are correct or incorrect. The results allow teachers to track student progress and identify areas that need further review. Additionally, Quizzes can be used for friendly competitions among students, enhancing motivation and engagement in the topic.

-Quizlet is used in teaching to create interactive flashcards, quizzes, and games that help students review and reinforce their knowledge on various topics. It allows both teachers and students to create custom study sets, making learning more engaging and accessible through repetition and active recall.

-Using Canva to explain a chemistry lessons can be highly effective as it allows you to visually present complex chemical concepts in a clear and simple way.

-Genially is used in chemistry education to create interactive presentations, infographics, and diagrams that visually explain complex concepts like molecular structures, chemical reactions, and periodic trends.

-Kahoot is used in chemistry education to create fun and interactive quizzes that help students review key concepts, such as chemical reactions, the periodic table, and stoichiometry. It allows teachers to assess student's understanding in real-time, making learning more engaging and competitive.

-Youtube is great tool used in education that can enhance lessons with visual content, such as educational videos, demonstrations, and tutorials, making complex topics easier to understand. It also allows students to access additional learning resources outside of class, promoting independent study and reinforcing classroom concepts.

Conclusion

In the era of technology, computers and the Internet, the implementation of modern Internet tools and platforms, designed specifically for use in the teaching process, is simply imposed, in order to enhance it, modernize it, and bring some concepts or phenomena that may seem abstract in terms of classical teaching to attendees.

With adults, the very concept of teaching in the classroom differs from that applied in regular classes with children, primarily taking into account their age and life experience. In this sense, teaching in adult education is oriented towards extracting facts that can be practically applied in everyday life. Therefore, the use of information technologies in the classroom helps the teacher to explain certain processes, principles and phenomena to students during the lesson through illustrative examples from everyday life, facilitates discussion in class and creates a stimulating and fun atmosphere.

Some of the objective obstacles that can be encountered during the implementation of teaching in this way and with the help of digital technologies, is that communication through various applications and platforms is not frequent if the attendees do not have laptops, computers or smartphones or simply do not have the internet, and therefore communication is disabled. Another reason is most often the dynamics of life and everyday circumstances of the attendees who most often do not have time for school outside of the time spent in school itself in classes.

In light of all this, the purpose of the digital plan is not only the modernization of teaching, the use of methods and techniques that are innovative, modern and that raise the teaching process to a higher level, but also the creation of a safe environment in the classroom, as well as creating awareness among the students that the teaching process itself is something that takes place both in school and outside of it.