

GreenVETAfrica

Teachers training on Green Waste
Management
Module 2 - Digital Pedagogy
Date



Co-funded by
the European Union

2023-2024 GreenVETAfrica



GreenVETAfrica mission is to offer an innovative capacity building programme on Green Waste Management in Nigeria and Ghana

Creating and sharing digital teaching and learning multimedia content

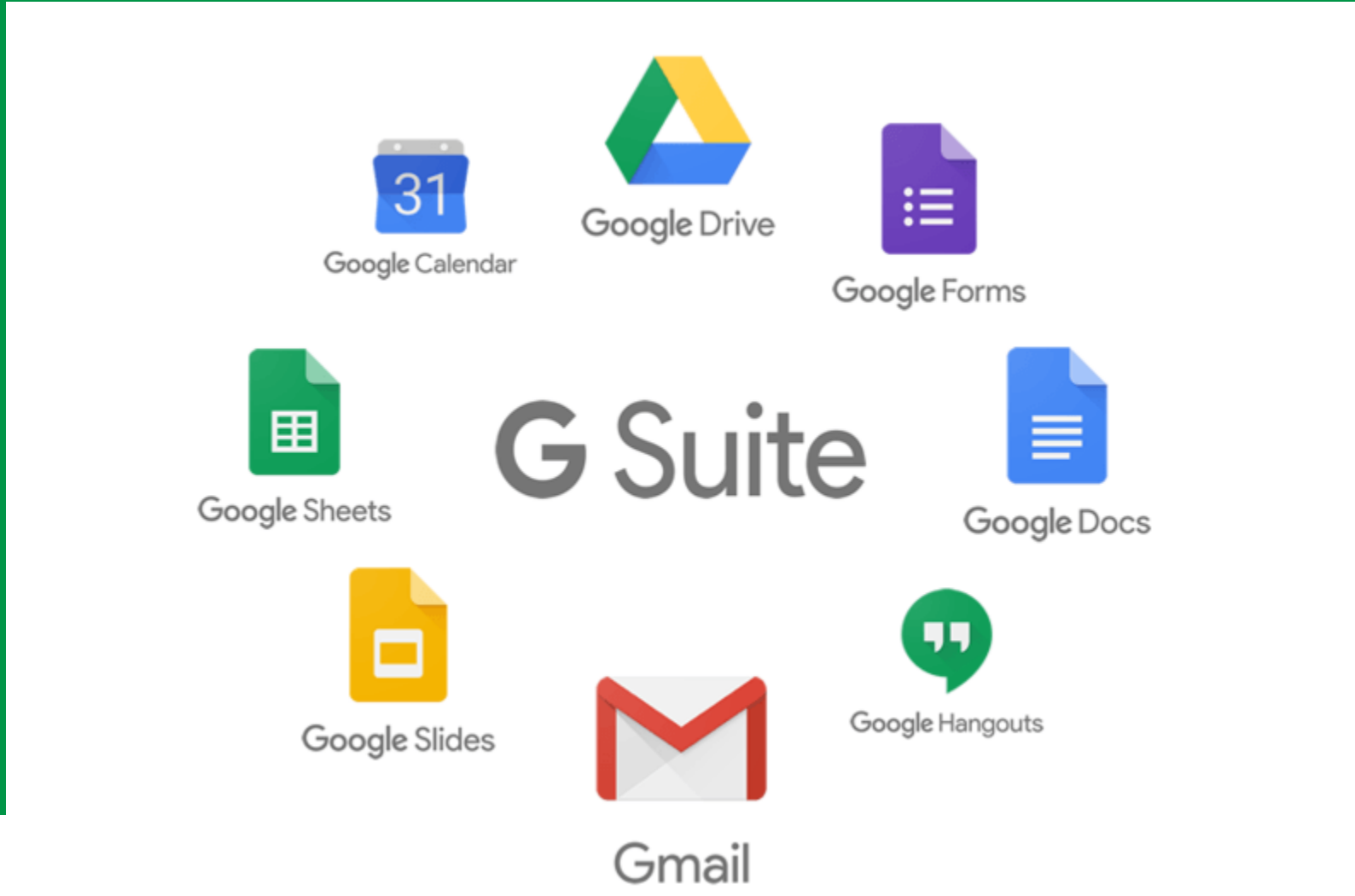
Unit 1 – Lesson 3

Unit objective: Create and share multimedia content for digital teaching and learning

Knowledge domain: Teaching and pedagogical methods



Creating digital teaching content and multimedia



Creating digital teaching content and multimedia

G suite instruments

- **Gmail:** Google's email service, which offers a customizable email address and a powerful email management system.
- **Google Drive:** A cloud-based file storage and synchronization service that allows users to store and share documents, spreadsheets, presentations, and other files.
- **Google Docs:** A word processing application that enables collaborative editing and sharing of documents in real time.
- **Google Sheets:** A spreadsheet application that allows users to create, edit, and analyze data in spreadsheets.
- **Google Slides:** A presentation application for creating and delivering slideshows and presentations.
- **Google Forms:** A tool for creating online surveys and forms, which can be used for collecting data and feedback.
- **Google Calendar:** A digital calendar that helps users schedule and manage events, appointments, and meetings.
- **Google Meet:** A video conferencing and communication platform, which has gained popularity for remote work and virtual meetings.
- ... and more

The Cloud

Why is useful for Education and Training?

A cloud system is a technology infrastructure that stores and manages data, applications, and services on remote servers accessible via the internet. Users can access these resources from anywhere with an internet connection, eliminating the need for on-premises hardware and software. Cloud systems offer scalability, allowing users to scale resources up or down as needed, and they often follow a pay-as-you-go pricing model. Security and data backup are typically managed by the cloud service provider, enhancing data protection. Examples of cloud services include cloud storage, cloud computing, and cloud-based software applications.



- **Accessibility:** The cloud allows students and educators to access educational resources and tools from anywhere with an internet connection, promoting remote learning and flexibility.
- **Scalability:** Educational institutions can easily scale their infrastructure up or down based on changing needs, accommodating varying numbers of users and resources.
- **Collaboration:** Cloud-based tools facilitate real-time collaboration among students and teachers, enabling seamless sharing, communication, and teamwork in educational settings.

Google Drive

Link	https://www.Google.com/intl/it_it/drive/
In summary	It allows you to: upload files of various kinds (documents, images, video, audio etc.) online; share uploaded files with other Google users avoiding steps on a usb stick or e-mail; create and work on text documents, spreadsheets and presentations directly on the network, individually or in groups, without the need for dedicated software installed on local (e.g. Word, Excel, Power Point etc.). Google drive, like all the other "alternative tools" mentioned below in the appropriate section, is a Cloud service.
It could be useful for:	<ul style="list-style-type: none">• Collect materials and documents (e.g., word files, pdf, Excel spreadsheets etc.) that students can view directly via the web or download and use for study• Students can work simultaneously on the same document (text, spreadsheet, or presentation) with the supervision of the teacher who can see who enters the various changes• Encourage collaboration among faculty in the shared writing of reports and teaching materials



Google Drive

Account:	Account required, you can log in directly with your Google account
Technical characteristics:	<ul style="list-style-type: none">• Web-based• If the service is used directly from a Mobile browser, it is not allowed to upload files to the cloud. In order to do so, it is necessary to install a special app, made available free of charge, available for ios, Android and Windows Phone. Software is also available (compatible with popular PC operating systems) that makes it easier and more direct to use this cloud service, but it is not essential to install it in order to use Google Drive to its full potential.
Similar instruments	Dropbox and OneDrive - www.dropbox.com e www.onedrive.com



Learning Management System (LMS)

What is it?

A Learning Management System (LMS) is a software application or platform created to simplify the administration, delivery, monitoring, and evaluation of educational courses and training programs

These features make Learning Management Systems versatile tools for educational institutions, businesses, and organizations to provide, manage, and monitor learning and training activities effectively. The specific characteristics and capabilities may vary among different LMS platforms, so organizations should choose the one that best suits their needs.



Learning Management System (LMS)

The main features (part 1)

- **Course Management:** The LMS allows teachers to create, organize, and manage course content. This includes uploading text, multimedia materials, assignments, quizzes, and other educational materials.
- **User Management:** The LMS provides user accounts for both educators (administrators, instructors) and students (students, employees). User management features enable role-based access and permissions.
- **Content Delivery:** It delivers course content to students through an intuitive user interface. Content can be organized into modules or units, simplifying navigation for students.
- **Assessment and Quizzes:** The LMS offers tools for creating and managing assessments, quizzes, tests, and surveys. It often includes options for automatic assessment and feedback.

Learning Management System (LMS)

The main features (part 2)

- **Discussion and Collaboration:** Many LMS platforms provide discussion forums, bulletin boards, and chat features for communication and collaboration among students and instructors.
- **Progress Monitoring:** The LMS tracks students' progress, including course completion, quiz scores, and time spent on each module. This data can be valuable for assessment and improvement.
- **Reporting and Analysis:** The LMS generates reports and analytics to help educators and administrators gain detailed insights into student performance and engagement. This data can inform instructional decisions.
- **Customization and Branding:** Often, LMS platforms allow for customization of the user interface and branding to match the organization's or institution's identity.

Learning Management System (LMS)

The main features (part 3)

- **Mobile Compatibility:** Many modern LMS platforms are accessible via mobile devices, making it convenient for students to access content and interact with courses on the go.
- **Integration:** LMS systems can integrate with other educational tools and software, such as video conferencing, content authoring tools, and student information systems.
- **Security and Privacy:** The LMS ensures user data security and compliance with privacy regulations, especially important for safeguarding sensitive student or employee information.
- **Scalability:** LMS platforms are designed to handle a large number of users and courses, making them suitable for educational institutions, businesses, and organizations of various sizes.

Learning Management System (LMS)

The main features (part 4)

- **User Support:** It provides technical support and resources to assist both educators and students in using the platform effectively.
- **Accessibility:** The LMS ensures accessibility for individuals with disabilities, complying with accessibility standards and regulations.
- **E-commerce and Payment Integration:** Some LMS systems support e-commerce features, allowing organizations to sell courses and training programs online.

Google Classroom

LMS example

- **Ease of Use:** Google Classroom is known for its intuitive and user-friendly interface. It is easy for teachers and students to start using the platform without a steep learning curve.
- **Integration with Google Tools:** Google Classroom is tightly integrated with Google tools, such as Google Drive, Google Docs, Google Sheets, and Google Presentations. This integration simplifies document sharing, real-time collaboration and file management.
- **Effective Communication:** The platform enables direct communication between teachers and students through announcements, comments and messages. This facilitates dialogue and support both inside and outside the virtual classroom.
- **Online Assignment and Assessment:** Google Classroom allows teachers to assign homework, quizzes and tests online. Built-in assessment tools simplify the correction and provision of feedback, making the process more efficient.
- **Accessibility and Flexibility:** Students can access Google Classroom from any device with an Internet connection, allowing flexible learning and access to course materials from anywhere, anytime.



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Basic French

Dashboard / My courses / French

- Edit settings
- Turn editing on
- Course completion
- Filters
- Gradebook setup
- Backup
- Restore
- Import
- Reset
- More...

Welcome!

- Announcements
- Course rules

Speaking
Practise your speaking skills here.

- Conversation ideas

Reading
Practise your reading skills here.

- Lecture Notes
- Vocabulary

Lexie @lparexcellence
New article : why french people are NOT really rude! Check it out! frenchwithlexie.com/why-french-peo... #learnfrench #rude #polite #france #blog #culture



Let's try other tools for creating and sharing content ...

- Audacity - <https://www.audacityteam.org/>

And open source software for audio recording and editing. It can be useful for producing educational materials in the form of podcasts.



Youtube

Link	https://www.youtube.com/
In summary	It is an online platform that allows users to view video content uploaded by other users. In addition to viewing videos, it is possible to upload one's own within a personal channel, share them online, and allow all Youtube users to leave feedback on the video. Content that can be suitable for educational use is of all kinds and in different languages, for example, documentaries, videos of lectures given by other teachers, independent TV series, tutorials, music videos etc.
It could be useful for:	<ul style="list-style-type: none">• Record videos of in-person lectures and make them available for students to review independently or to catch up on missed lectures• Propose video content already uploaded by other users to address/deepen a specific topic. For example, a foreign language teacher could use it to propose language videos, or a teacher in the science-technology axis could use it to propose videos where a particular process is illustrated• Create a class channel where videos developed by the teacher and/or students during the year can be uploaded



Youtube

Account:	You do not need an account to search and view videos that have already been uploaded; instead, you need one to upload videos, create a channel, and leave comments. If you already have a Google account (Gmail, Gdrive etc.) you do not need to create a new one, as you can log in directly with it.
Technical characteristics:	<ul style="list-style-type: none">• Web-based• An app is also available for Android, ios and windows phone that simplifies/easy to use on mobile devices• Videos can be embedded within blogs, virtual classrooms etc. via embed code
Similar instruments	<ul style="list-style-type: none">• VIMEO - www.vimeo.com• Podomatic - www.podomatic.com• It is the same concept as Youtube and Vimeo, with the difference that only audio files (Podcasts) can be found and uploaded• TeacherTube - www.teachertube.com• It is a platform with the same features as Youtube, but the videos uploaded are all on the topic of education or created specifically for educational purposes



Slideshare

Link	http://www.slideshare.net/
In summary	Allows slides edited with Power Point Google slides etc., to be uploaded online and shared over the network. Uploaded presentations can be viewed by any user via the browser without the need to have installed the specific software with which they were created. It is also possible to create presentations directly online. There is also an online archive on the portal through which slides created and uploaded by other users can be viewed.
It could be useful for:	<ul style="list-style-type: none">• Make slides available by students without worrying about software compatibility issues• Find and make available teaching materials by choosing from those already uploaded by other users



Slideshare

Account:	You do not need an account to search and view presentations already uploaded by other users; you do need an account to upload them. It also allows authentication via Facebook and LinkedIn accounts.
Technical characteristics:	<ul style="list-style-type: none">• -Web-based• Slides on the portal can be embedded within blogs, virtual classrooms etc. via embed code• An app is also available for Android and ios that simplifies/easy to use on mobile devices
Similar instruments	Authorstream - http://www.authorstream.com/ Slideroll - http://www.slideroll.com/





Why the Hype Around Data Science?

- The demand for data scientists will soar by 28% by 2023
- Data scientist roles have grown over 650% since 2012, but currently, 35,000 people in the US have data science skills, while hundreds of companies are hiring for those roles.
- Software engineering is a common starting point for professionals who are in the top five fastest growing jobs today.
- Data Science gives you career flexibility

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Introduction to Data Science

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