ICT Skills for Teaching and Learning

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ICT for Teaching and Learning aims to develop teachers' ability to use and integrate ICT to teach subjects across the curricula. The module develops teachers' ability to guide students, to achieve 21st century skills, through hands on learning approach while ensuring transferability of the methods and tools to pedagogy in teaching all subjects

Workload in hours: 150

Number of learners: 25

Mode of delivery: Blended

Status: IN PLANNING

Course public access: Public

Contributors:

Course learning outcome	Level	Weight
Understand the rationale, purpose and scope of the use of ICT in schools under the requirements of the National Curriculum Framework	Understanding	15
Use and integrate ICT in teaching and learning subjects across the curricula	Applying	25
Develop multimedia/interactive contents to facilitate teaching/learning	Creating	30
Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning	Creating	30

Total weight: 100

Topic / Unit name	Workload		Mode of delivery	Groups	Collaboration	Feedback	Mandatory	Assessi	ment		
		type					activity	Points	Туре	Providers	

Introduction to ICT in Education

Understand the rationale, purpose and scope of the use of ICT in schools under the requirements of the National Curriculum Framework (4%)

Introduction and Ice break Activity Following the lecturer's introduction, students will introduce themselves and participate in a game titled "I Would Rather." In this activity, they will choose between two given options and explain the reasons for their choices.	20 min	Discussion	Online	Synchronous	Teacher present	No	No	No	No	No
Module Introduction Lecturer introduces the module and provides an overview of the learning outcomes, assessment methods, and general class rules.	30 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Learning Expectations Wall Students will work in pairs to discuss and post on Padlet what they hope to learn from this module.	15 min	Discussion	Online	Synchronous	Teacher present	No	Yes	No	No	No
Lecture Time The lecturer presents how ICT supports teacher readiness and explains the historical context using slides, visuals, and short video clips. Students can access supporting materials on Moodle and may share questions in the consultation forum for the week.	25 min	Acquisition	Online	Synchronous	Teacher	No	No	No	No	No
Breakout Room Activity Students work in groups to discuss the current role of ICT in education and present their findings to the class. Key points are documented collaboratively in a shared Google Doc.	30 min	Discussion	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No

Total unit workload	2h									
Asynchronous (1 hour)										
Tutorial Activity Students complete a questionnaire about their background, prior experiences, and learning goals. This activity enables the lecturer to understand the students better. Submissions will be made via Moodle.	60 min	Acquisition	Online	Asynchronous	Teacher not present	No	No	Teacher	No	No
Total unit workload	1h									
Self Study (7 hours)										
Discussion Forum: Investigating the Impact of ICT on Teaching and Learning Students will research how ICT has influenced teaching and learning practices in recent years, using credible sources such as articles, reports, or case studies. Each student will share their findings in the discussion forum either as a written post (not exceeding 300 words), a visual presentation (e.g., infographic or slide), or an audio recording (up to 3 minutes). Students are required to review and respond to at least two peers' contributions, offering constructive feedback or connecting ideas to practical examples in education.	360 min	Investigation	Online	Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No

Online Quiz	60 min	Assessment	Online	Asynchronous	Teacher	No	No	Automated	No	0	Formative	Teacher
The quiz assesses					not							
understanding of key					present							
milestones in educational												
technology, the evolution from												
analog to digital tools, and the												
role of ICT in supporting 21st-												
century learning, global trends,												
and inclusive, engaging												
teaching.												
Total unit workland	71.											

Total unit workload 7h

Understanding Digital Literacy

Understand the rationale, purpose and scope of the use of ICT in schools under the requirements of the National Curriculum Framework (4%), Use and integrate ICT in teaching and learning subjects across the curricula (2%)

Mini Lecture Lecturer introduces digital literacy and frameworks (JISC, UNESCO, DigCompEdu) using slides, infographics, and short video clips. Students can view content in multiple formats and take notes in their preferred mode.	20 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Breakout Room Activity Students discuss the difference between digital skills vs digital literacy in small breakout rooms. Each group summarizes key points in a shared Google Doc.	20 min	Discussion	Online	Synchronous	Teacher present	Yes	Yes	No	No	No

Hands-on Digital Skills Activity In pairs, students explore tasks like navigating search engines, using cloud storage, and creating a productivity app document. Share screenshots or reflections in the forum.	40 min	Investigation	Online	Synchronous	Teacher present	No	Yes	No	No	No		
Designing a mini lesson plan Students work in pairs to design a mini lesson plan incorporating digital literacy (slides, visuals, or text) and submit it to Moodle, with the lecturer providing guidance during the activity.	30 min	Production	Online	Synchronous	Teacher present	No	Yes	Teacher	No	No		
Online Quiz Quick online quiz to check understanding of frameworks and digital skills.	10 min	Assessment	Online	Synchronous	Teacher present	No	No	Automated	No	0	Formative	Teacher
Total unit workload	2h											

nrticle on digital literacy and post their key takeaways in the forum, using text, audio, or infographics. They are required to reply to at least two peers, wharing reflections or connecting ideas.			not present		Peer	
Article: Finmaz, H., Lee, YT., Fanea- vanovici, M. et al. A systematic eview on digital literacy. Finart Learn. Environ. 9, 21 2022). https://doi.org/10.1186/s40561-						

Self Study (7 hours)

Report on the Use of ICT in Schools of Maldives	420 min	Assessment	Online	Asynchronous	Teacher not	No	No	Teacher	Yes	40	Summative	Teacher
Students select one or more					present							
schools and write a report												
analyzing the use of ICT in												
those schools. They also select												
two commonly used digital												
tools in the selected schools												
and identify their strengths,												
weaknesses, challenges, and												
provide recommendations.												
Total unit workload	7h											

Integrating ICT Across the Curriculum

Understand the rationale, purpose and scope of the use of ICT in schools under the requirements of the National Curriculum Framework (3%), Use and integrate ICT in teaching and learning subjects across the curricula (4%)

Self Study (7 hours)

ICT Tool Exploration In pairs, students will choose a digital tool related to their subject area (e.g., GeoGebra, Scratch, Canva) and explore its application in teaching and learning. Prior to the class session, each pair will prepare a brief demonstration highlighting the tool's main features and classroom use. They will then present their demonstration during class.	420 min	Production	Online	Asynchronous	Teacher not present	No	Yes	No	No	No
Total unit workload	7h									
Synchronous (2 hours)										
Mini Lecture Lecturer introduces TPACK & SAMR models, constructivist/connectivist approaches and constructive alignment using slides, short videos, and infographics. Students can access captions, transcripts, and visuals.	20 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
ICT Tool Demonstration In pairs, students will demonstrate the selected tool, highlighting its application within their chosen subject area. They will respond to questions and receive feedback from both peers and the lecturer.	60 min	Discussion	Online	Synchronous	Teacher present	No	Yes	Teacher, Peer	No	No

Breakout Room Activity	30 min	Investigation	Online	Synchronous	Teacher	Yes	Yes	Teacher,	No	No		
Students will collaborate in					present			Peer				
groups to examine a short												
classroom scenario and												
determine how ICT tools can												
enhance teaching and learning.												
They will identify appropriate												
tools, describe their potential												
impact, and outline possible												
challenges along with												
solutions. Key strategies should												
be documented collaboratively												
in a shared Google Doc, with												
reference to the Maldives												
National Curriculum Framework												
for guidance. Groups will then												
present their findings to the												
class, receiving feedback from												
both peers and the lecturer.												
Online Quiz	10 min	Assessment	Online	Synchronous	Teacher	No	No	Automated	No	0	Formative	Teacher
Students will complete an					present							
online quiz to assess their												
understanding of TPACK, the												
SAMR model, constructivist and												
connectivist approaches, and												
constructive alignment.												
Total unit workload	2h											
synchronous (1 hour)												

Exploring Technology Integration in the Curriculum	60 min	Discussion	Online	Asynchronous	Teacher not	No	Yes	Teacher, Peer	No	No
Students will review the					present					
Maldives National Curriculum										
Framework and examine how										
technology is integrated across										
different learning areas. They										
will write a short summary										
(300 words) explaining										
examples of ICT integration,										
highlighting how digital tools										
support teaching, learning, and										
assessment in various subjects.										
Students will submit their										
summaries to a discussion										
forum and are encouraged to										
comment on at least two peers'										
submissions to compare										
insights and approaches.										
Total unit workload	1h									

Communication and Collaboration Tools

Understand the rationale, purpose and scope of the use of ICT in schools under the requirements of the National Curriculum Framework (1%), Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (3%)

Mini Lecture & Demo	30 min	Acquisition	Online	Synchronous	Teacher	No	No	No	No	No
The lecturer presents					present					
collaboration platforms (Google										
Docs, Teams, Padlet) and live										
interaction features using										
slides and demonstrations.										
Supplementary videos are also										
provided for students to watch										
later at their own pace.										

Collaborative Activity Design and Reflection In groups, students will design a collaborative activity and select a suitable digital tool to support it. The activity will be shared with other groups, and after implementation, each group will submit a reflection explaining the activity, justifying the choice of tool, and discussing what worked well and what could be improved.	40 min	Production	Online	Synchronous	Teacher	Yes	Yes	Teacher, Peer	No	No
Breakout Room Activity Groups are given classroom scenarios (each group will be given a different scenario) to determine which tools and features (chat, screen sharing, etc.) would enhance collaboration. They document strategies in a shared Google Doc and present their scenario and their suggestions to the class.	30 min	Investigation	Online	Synchronous	Teacher	Yes	Yes	Teacher, Peer	No	No
Think-Pair-Share Activity Think: Students individually review an online communication scenario and consider solutions following proper etiquette and netiquette.	20 min	Discussion	Online	Synchronous	Teacher present	No	Yes	Teacher, Peer	No	No
Pair: Students discuss their ideas with a partner, refine their solution, and agree on the best approach. Share: Each pair posts their solution in the Moodle Interactive Activity.										

Total unit workload	2h											
Asynchronous (1 hour)												
Discussion Forum: Etiquette and safety Students read a short guide or article on netiquette, online safety, and digital collaboration best practices. They post a 100–150 word summary in the discussion forum and respond to at least two peers.	40 min	Discussion	Online	Asynchronous	Teacher not present	No	Yes	Teacher, Peer	No	No		
Online Quiz Online quiz to check understanding of collaboration tools, interaction features, and digital etiquette.	20 min	Assessment	Online	Asynchronous	Teacher not present	No	No	Automated	No	0	Formative	Teacher
Total unit workload	1h											
Self Study (7 hours)												
Collaborative Tool Investigation with Peer Review Students research two collaboration tools relevant to their subject, analyzing each tool's strengths, weaknesses, and potential classroom applications. They create a brief summary of their findings, which can be submitted as text, infographic, or audio. Afterwards, students review a peer's summary and provide structured feedback.	420 min	Investigation	Online	Asynchronous	Teacher not present	No	Yes	Peer	No	No		
Total unit workload	7h											

Creating Digital Content

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (5%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Discussion Discuss examples of digital content student have used or seen in educational settings. Lecturer prompts with questions like "What makes digital content engaging and inclusive?"	20 min	Discussion	Online	Synchronous	Teacher present	No	No	Teacher, Peer	No	No
Mini Lecture and Demonstration Lecturer demonstrates the principles of layout, design, colour theory, and accessibility, and provides practical demonstrations on using Canva, Adobe Express, and Piktochart, as well as on creating PowerPoint presentations, videos, and podcasts.	40 min	Acquisition	Online	Synchronous	Teacher	No	No	No	No	No
Breakout Room Activity In groups, students explore one tool (Canva, Piktochart, or Adobe Express), noting features for accessibility and design.	30 min	Investigation	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No

Investigation Onlin	e Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No		
Assessment Onlin	e Asynchronous	Teacher not present	No	No	Automated	No	0	Formative	Teacher

Creating digital content Students create one digital teaching material (e.g., infographic, narrated slideshow, or mini video) applying UDL and design principles.They will share the material in the discussion forum and provide as well as receive peer feedback.	420 min	Production	Online	Asynchronous	Teacher not present	No	Yes	Teacher, Peer	No	No
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Total unit workload 7h

Games and Gamification in Education

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (5%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Mini Lecture and Demonstration Lecturer explains game mechanics and differences between game-based vs gamified learning with examples.	20 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Platform Exploration In groups, students explore Kahoot, Quizizz, Blooket, or Wordwall features and discuss classroom applications.	40 min	Investigation	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
Simple Game Based Activity Students create a quick quiz or activity on one platform and share it with others in the forum for their feedback.	30 min	Production	Online	Synchronous	Teacher present	No	Yes	Teacher, Peer	No	No

Gamification Design Challenge In groups, students create a mini learning activity using gamification elements such as points, badges, or levels. They arrange the steps to ensure progression and engagement, then share their activity for peer feedback and refine it based on suggestions.	30 min	Production	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
Total unit workload	2h									
synchronous (1 hour)										
Design Mini Game Students outline a subject- based mini-game including objectives, mechanics, and rewards.	30 min	Production	Online	Asynchronous	Teacher not present	No	No	Teacher	No	No
Forum Discussion Students share their activity in the discussion forum, receive feedback from peers, and make improvements based on the suggestions.	30 min	Discussion	Online	Asynchronous	Teacher not present	No	Yes	Teacher, Peer	No	No
Total unit workload										

Gamified Learning Analysis Project	420 min	Investigation	Online	Asynchronous	Teacher not	No	No	Teacher, Peer	No	No
Students research 2 examples					present					
of educational games or										
gamified activities relevant to										
their subject. They analyse										
each example's effectiveness,										
engagement, learning										
outcomes, and accessibility,										
comparing which are most										
successful and why. Students										
then present their findings in a										
report, infographic, or										
presentation and provide										
feedback on peers' analyses.										
Total unit workload	7h									

Safe, Ethical and Responsible ICT Use

Understand the rationale, purpose and scope of the use of ICT in schools under the requirements of the National Curriculum Framework (3%), Use and integrate ICT in teaching and learning subjects across the curricula (1%)

Mini Lecture The lecturer introduces key concepts, including cyber safety and privacy, legal and ethical responsibilities, and digital citizenship, using interactive polls to assess students' understanding.	30 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Breakout Room Activity 1 Students work in groups to discuss real-world scenarios related to online privacy, cyberbullying, copyright issues, plagiarism, and disrespectful online behaviour. Each group provides an example to illustrate each issue.	30 min	Discussion	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No

Breakout Room Activity 2 Students are provided with scenarios on online privacy, cyberbullying, copyright issues, plagiarism, and disrespectful online behaviour. In groups, they discuss and propose appropriate ways to address each situation.	30 min	Discussion	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
Design a Mini Lesson Plan Students create a short lesson plan to teach students about digital footprints, digital responsibility, and respectful online behaviour. They select a target age group, set learning objectives, and outline the lesson structure, including an introduction, core activity (discussion, quiz, or role play), and closure. Groups present their lesson plan and get feedback from lecturer and peers.	30 min	Production	Online	Synchronous	Teacher	Yes	Yes	Teacher, Peer	No	No
Total unit workload	2h									

My Digital Footprint Reflection Students explore their digital	60 min	Investigation	Online	Asynchronous	Teacher	No	No	Teacher	No	No
footprint to understand how					present					
their online actions shape their										
digital identity. They search										
their names and profiles online,										
review their social media										
presence, and analyse the										
information available about										
them. They then write a short										
report reflecting on what they										
discovered, how it aligns with a										
positive digital identity, and steps to manage and improve										
their online presence										
responsibly.										
Total unit workload	1h									
self Study (7 hours)										
Developing Materials for the Mini Lesson Plan	420 min	Production	Online	Asynchronous	Teacher not	Yes	Yes	Teacher, Peer	No	No
After revising their lesson plan					present					
based on feedback, students										
develop supporting materials										
(videos, infographics, slides,										

Developing Materials for the	420 111111	Production	Offillite	Asyliciliolious	reactiet	res	165	reactier,	IVO	NO
Mini Lesson Plan					not			Peer		
After revising their lesson plan					present					
based on feedback, students										
develop supporting materials										
(videos, infographics, slides,										
handouts, or quizzes) for the										
lesson. They then share these										
materials on Moodle for peer										
review and constructive										
feedback.										

Total unit workload 7h

Learning Management Systems (LMS)

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (4%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Introduction and experience sharing Students share prior experience with LMS platforms and discuss benefits and challenges.	15 min	Discussion	Online	Synchronous	Teacher present	No	No	Teacher, Peer	No	No		
LMS Demonstration Lecturer demonstrates Moodle, Google Classroom, and Seesaw interfaces, uploading content, creating quizzes, and structuring modules. Videos are also uploaded for later references.	30 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No		
LMS Exploration In groups, students explore a selected LMS platform, noting features for course management and student engagement.	30 min	Investigation	Online	Synchronous	Teacher present	Yes	Yes	No	No	No		
Activity Creation In pairs, students create a learning activity, upload it to the LMS, and receive feedback from their other peers.	30 min	Production	Online	Synchronous	Teacher present	No	Yes	Teacher, Peer	No	No		
Online Quiz Students complete an online quiz to assess their understanding of LMS platforms, focusing on advantages, data tracking, and accessibility features.	15 min	Assessment	Online	Synchronous	Teacher present	No	No	Automated	No	0	Formative	Teache

LMS Data Tracking Research Students research how LMS	60 min	Investigation	Online	Asynchronous	Teacher	No	No	Teacher	No	No
platforms track learner data,					present					
including progress,										
participation, and assessment results. They analyse the										
benefits and implications of										
data tracking for teaching and										
learning, and submit their										
findings as a short report or infographic.										
in ograpine.										
Total unit workload	1h									
Self Study (7 hours)										
Designing a Gamified Mini- Course in LMS	420 min	Production	Online	Asynchronous	Teacher not	No	No	Teacher, Peer	No	No
Students design and build a					present			reei		
mini-course or module in an										
LMS (Moodle, Google										
Classroom, or Seesaw) incorporating gamification										
elements such as points,										
badges, levels, or conditional										
release to enhance learner										
engagement. Students share it with peers to get their										
feedback.										

ICT for Assessment and Feedback

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (4%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Mini Lecture The lecturer delivers a short, interactive mini-lecture explaining the differences between formative and summative assessment, highlighting their purposes, timing, and digital applications.	20 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Demonstration Lecturer demonstrates how to create and manage quizzes using Google Forms, Socrative, and Mentimeter, highlighting features such as auto-grading, branching logic, and feedback options.	30 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Breakout Room Activity In groups, students explore the tools and create a small assessment using one of them. They then post their assessment in the forum to receive feedback from other groups.	30 min	Production	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
Reviewing the Pedagogy and Assessment Guide In groups, students review the Pedagogy and Assessment Guide from the Maldives National Curriculum, focusing on its key ideas about effective teaching, learning, and assessment. They summarise the main points using either a written summary or an infographic that highlights important principles and strategies.	40 min	Discussion	Online	Synchronous	Teacher	Yes	Yes	Teacher, Peer	No	No
Total unit workload	2h									

xploring Feedback Strategies tudents watch short videos on Digital Feedback Strategies" and "Interactive Rubrics." fterwards, they post examples f effective ways to give digital eedback that enhance student notivation and learning, and espond to at least two peers' osts in the forum.	60 min	Practice	Online	Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No
Total unit workload	1h									
f Study (7 hours)										
Analysing Digital Assessment Fools Students research and compare at least two assessment tools (e.g., Google Forms vs. Plickers) focusing on accessibility, usability, and feedback options. Submit a short report or infographic summarizing findings.	180 min	Investigation	Online	Asynchronous	Teacher not present	No	No	Teacher	No	No

Designing a Digital Assessment Plan	240 min	Production	Online	Asynchronous	Teacher not	No	No	Teacher	No	No
Students select a grade level,					present					
topic, and learning outcome										
from the Maldives National										
Curriculum and design a										
suitable assessment plan. They										
dentify the type of assessment										
diagnostic, formative, or										
summative), choose an										
appropriate digital tool (e.g.,										
Google Forms, Socrative, or										
Mentimeter), and justify their										
choices by explaining how the										
ool supports learning and how										
eedback will be provided to										
students.										
rudence.										
Total unit workload	7h									

Assistive Technologies and Inclusive Education

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (4%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Experience Sharing Students discuss prior experiences with assistive technologies and inclusive teaching.	10 min	Discussion	Online	Synchronous	Teacher present	No	No	Teacher, Peer	No	No
Mini Lecture and Demonstration Lecturer demonstrates tools like screen readers, immersive readers, speech-to-text, tablets/iPads for SEN and EAL learners.	30 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No

Tool Exploration	40 min	Investigation	Online	Synchronous	Teacher	Yes	Yes	Teacher,	No	No
In groups, students explore a selected tool, investigating its features that support					present			Peer		
accessibility and inclusion.										
They then post their findings in the forum for peer feedback										
and discussion.										
Creating a Sample Activity In pairs, students practice creating a simple inclusive learning activity using one assistive tool and post it to the forum for their peers to give feedback.	40 min	Practice	Online	Synchronous	Teacher present	No	Yes	Teacher, Peer	No	No
Total unit workload	2h									
Asynchronous (1 hour)										
Video Tutorials Students watch videos on Inclusive ICT strategies and best practices for EAL/SEN learners.	20 min	Acquisition	Online	Asynchronous	Teacher not present	No	No	No	No	No
Forum Discussion After watching the videos, students post one example of	40 min	Discussion	Online	Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No
how a tool can enhance					present					
inclusion, responding to at least two peers.										
Total unit workload	1h									
Self Study (7 hours)										

Designing a Lesson Students design a lesson that integrates differentiated instruction using ICT, demonstrating how the chosen tools promote accessibility and support inclusive learning.	420 min	Production	Online	Asynchronous	Teacher not present	No	No	Teacher	No	No
Total unit workload	7h									

Reflective Practice Using ICT

Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Mini Lecture and Demonstration Lecturer demonstrates digital portfolio tools (Padlet, Wix, Google Sites) and blogging platforms, showing how to link reflections to competencies.	30 min	Acquisition	Online	Synchronous	Teacher present	No	No	No	No	No
Exploring the Tools In groups, students explore a selected portfolio or blog tool and experiment with its features for reflection and professional documentation.	45 min	Investigation	Online	Synchronous	Teacher present	Yes	Yes	Peer	No	No
Presenting the findings on the tools Students present the results of their tool exploration from the previous activity and respond to questions raised by their peers.	30 min	Discussion	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No

Tool-Feature Matching Challenge Students will participate in an interactive activity in which they match each tool with its corresponding features listed alongside.	15 min	Practice	Online	Synchronous	Teacher present	No	No	Automated	No	No
Total unit workload	2h									
Asynchronous (1 hour)										
Video tutorials Students watch short videos on effective digital portfolios, reflective blogging, and professional networking strategies.	30 min	Acquisition	Online	Asynchronous	Teacher not present	No	No	No	No	No
Forum Discussion After watching the videos, students post an example of how they would use digital portfolios or blogs for reflection or professional development in the forum and reply to at least two peers.	30 min	Discussion	Online	Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No
Total unit workload	1h									
Self Study (7 hours)										
Creating Own Digital Portfolio Students create their digital portfolio or blog, adding initial content and connecting reflections to relevant competencies and standards. They then share their portfolio/blog links with peers to receive feedback.	180 min	Production	Online	Asynchronous	Teacher not present	No	No	Peer	No	No

Reflection Students revise their portfolio or blog based on peer feedback and write a brief reflection explaining the changes they made and the rationale behind them.	240 min	Practice	Online	Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No
Total unit workload	7h									

Emerging and Future Technologies in Education

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Mini Lecture and Demonstration The lecturer introduces AI, VR, and robotics in education through multimedia resources (slides and short videos) and gives a demonstration of how to use ChatGPT.	30 min	Acquisition	Onsite	Synchronous	Teacher present	No	No	No	No	No
Mini Lecture The lecturer introduces key trends in educational technology such as learning analytics, adaptive learning, and flipped classrooms using multimedia examples and short case studies. The session then focuses on ethical considerations, where the lecturer discusses issues like AI bias, data privacy, and screen time, encouraging students to share ideas on how teachers can promote responsible and ethical technology use in classrooms.		Acquisition	Onsite	Synchronous	Teacher	No	No	No	No	No

Group Discussion	30 min	Discussion	Onsite	Synchronous	Teacher	Yes	Yes	Teacher,	No	No
Students work in groups to					present			Peer		
analyse case studies related to										
ethical issues in educational										
echnology, such as Al bias,										
data privacy, or excessive										
screen time. Each group										
dentifies the ethical										
challenges, discusses possible										
solutions, and suggests how										
eachers can address these										
esponsibly in classroom										
practice. Groups then share a										
orief summary of their findings										
with the class for comparison										
and discussion.										
and discussion.										
Exploring AR and VR	30 min	Investigation	Onsite	Synchronous	Teacher	Yes	Yes	Teacher,	No	No
Students use AR and VR					present			Peer		
neadsets to explore the										
echnology and its potential										
applications in education. After										
the exploration, students										
discuss how AR and VR can										
enhance engagement and										
earning, identify possible										
classroom uses, and reflect on										
challenges such as										
accessibility, cost, and										
echnical difficulties,										
suggesting strategies to										
address these issues. Groups										
then share their insights with										
the class.										
TIC CIUSS.										
Total unit workload	2h									

Total unit workload 1h Self Study (7 hours) Design and Share: Lesson Plan with Emerging EdTech Students explore real-world examples of learning analytics, adaptive learning, and flipped classroom approaches in global									
Design and Share: Lesson Plan with Emerging EdTech Students explore real-world examples of learning analytics, adaptive learning, and flipped									
with Emerging EdTech Students explore real-world examples of learning analytics, adaptive learning, and flipped									
or local education contexts. They then design a lesson plan incorporating one or more of these approaches. Students explain how available tools such as LMS features, analytics dashboards, or video platforms would support the lesson. Finally, they create a short podcast to present and explain their lesson plan, highlighting key features and learning strategies.	Production	Onsite	Asynchronous	Teacher not present	No	No	Teacher, Peer, Other	No	No

ICT- Integrated Lesson Planning

Use and integrate ICT in teaching and learning subjects across the curricula (1%), Develop multimedia/interactive contents to facilitate teaching/learning (3%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (4%)

Mini Lecture The lecturer introduces backward design, ICT integration, and Bloom's taxonomy alignment using multimedia examples and sample lesson plans, highlighting differentiation strategies and UDL principles to support diverse learners.	30 min	Acquisition	Onsite	Synchronous	Teacher present	No	No	No	No	No
Group Discussion In groups, students examine sample ICT-integrated lesson plans and identify how learning outcomes, instruction, assessment, and engagement are aligned with Bloom's taxonomy and UDL principles.	30 min	Discussion	Onsite	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
Designing ICT-Integrated Lessons with Differentiation and UDL Students are grouped based on their subject area to design an ICT-integrated lesson plan using backward design, incorporating differentiation strategies and UDL principles.	30 min	Production	Onsite	Synchronous	Teacher present	Yes	Yes	No	No	No

Peer Review Groups exchange their draft ICT-integrated lesson plans with another group within the same subject area. Each group reviews the peer group's plan, focusing on alignment with learning outcomes, Bloom's taxonomy, ICT integration, differentiation, and UDL principles. Feedback is provided constructively, and groups refine their lesson plans based on the input received.	30 min	Discussion	Onsite	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
Total unit workload	2h									
Asynchronous (1 hour)										
Researching Backward Design and ICT Tools Explore additional resources on backward design, ICT tools, and differentiation strategies. Take notes in preferred format.	30 min	Acquisition	Onsite	Asynchronous	Teacher not present	No	No	No	No	No
Forum Discussion Based on their exploration of the additional resources, students post a reflection in the discussion forum highlighting their key takeaways and respond to at least one peer's post. Students engage in ongoing discussion to compare ideas, share insights, and deepen their understanding of effective ICT-integrated lesson planning.	30 min	Discussion	Onsite	Asynchronous	Teacher not present	No	No	Teacher, Peer	No	No
Total unit workload	1h									
Self Study (7 hours)										

Individual Lesson Planning Students independently design an ICT-integrated lesson plan using backward design for their subject area. They incorporate learning outcomes, Bloom's taxonomy, differentiation strategies, and UDL principles. They submit their lesson plan in the Moodle.	180 min	Production	Onsite	Asynchronous	Teacher not present	No	No	No	No	No
Peer Review with Materials Students evaluate the completed lesson plan and supporting materials of another student from the same subject area. Each student reviews the peer's plan and materials, focusing on alignment with learning outcomes, ICT integration, differentiation, and UDL principles. Constructive feedback is provided, and students refine their lesson plans and materials.	120 min	Practice	Onsite	Asynchronous	Teacher not present	No	Yes	Peer	No	No
Developing Materials for the Lesson Plan Students create any supporting materials for their lesson plan, such as slides, worksheets, multimedia resources, or interactive tools, ensuring alignment with the lesson objectives and ICT integration.	120 min	Production	Onsite	Asynchronous	Teacher not present	No	No	No	No	No
Total unit workload	7h									

Case Studies - ICT in Real Classroom Scenarios

Use and integrate ICT in teaching and learning subjects across the curricula (1%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (2%)

Online Quiz Students complete a short	20 min	Practice	Onsite	Synchronous	Teacher present	No	No	Teacher, Automated	No	No
conline quiz to recall key concepts of TPACK and SAMR. Questions include definitions, matching scenarios to SAMR evels, and identifying TPACK components in classroom examples. Instant feedback reinforces understanding and application.										
Group Activity 1 In groups, students review Maldivian and international ICT classroom case studies. They dentify effective strategies, challenges faced, and propose ways to address those challenges. Groups summarize their findings in a table or short presentation and share with peers for discussion and feedback.	50 min	Investigation	Onsite	Synchronous	Teacher	Yes	Yes	Teacher, Peer	No	No
Group Activity 2 Students are given classroom CT case studies and apply the TPACK and SAMR frameworks to analyse them. In groups, they map how technology was used effectively, identify areas for improvement, and reflect	50 min	Investigation	Onsite	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No
on strategies to enhance eaching and learning.	2h									

,	60 min	Investigation	Onsite	Asynchronous	Teacher	No	No	Teacher	No	No
Students individually analyse					not					
provided Maldivian and					present					
nternational ICT case studies,										
dentifying successes,										
challenges, TPACK										
components, and SAMR levels.										
They propose strategies to										
mprove or replicate successes										
and submit their analysis.										
-										

Self Study (7 hours)

Designing a Technology- Enhanced Lesson Plan and	420 min	Production	Onsite	Asynchronous	Teacher not	No	No	Teacher	Yes	60	Summative	Teacher
Reflective Report					present							
Students will design a					·							
technology-enhanced lesson												
plan for any grade and subject,												
integrating appropriate ICT												
tools and demonstrating the												
application of 1-2 relevant												
learning theories or												
frameworks. The lesson plan												
should include an introduction,												
main activity, and closure,												
following the provided format.												
They will also write a reflective												
report (2000–2500 words)												
discussing their lesson design												
and the implementation of one												
selected activity. The report												
should justify the use of												
learning theories and												
technology, describe the												
activity's key elements and												
implementation (including												
screenshots or links), and												
reflect on what worked well												
and areas for improvement,												
supported by relevant												
literature.												

Total	unit	world	اممط
TOLAI	unit	WUIKI	luau

7h

Reflection and Planning Forward

Use and integrate ICT in teaching and learning subjects across the curricula (2%), Develop multimedia/interactive contents to facilitate teaching/learning (2%), Develop resources and demonstrate delivery of lessons by incorporating ICT and different models of learning (3%)

Interactive Online Quiz Lecturer conducts a live interactive quiz (e.g., Kahoot, Mentimeter, or Poll Everywhere) to review key concepts and learnings from the module. Students respond in real-time, and results are discussed immediately.	40 min	Practice	Online	Synchronous	Teacher present	No	No	Teacher, Automated	No	No
Goal Setting Exercise Students individually set SMART goals for future ICT integration in their teaching or learning contexts.	20 min	Production	Online	Synchronous	Teacher present	No	No	No	No	No
Personal Reflection and Growth Sharing Students reflect on and discuss their personal growth, key achievements, and challenges in ICT knowledge and confidence within subject-based groups. The group insights are then shared with the whole class for a collective discussion.	40 min	Discussion	Online	Synchronous	Teacher present	Yes	Yes	Teacher, Peer	No	No

Module Feedback Students use a Miro board to note what they liked about the module and suggest improvements. The class then reviews and discusses all inputs to identify key recommendations for future module enhancements.	20 min	Discussion	Online	Synchronous	Teacher present	No	No	Teacher, Peer	No	No
Total unit workload	2h									
Asynchronous (1 hour)										
Creating a Reusable Teaching Resource Students design a multimedia or interactive resource (e.g., video, infographic, quiz, or presentation) that can be used by the lecturer in future semesters. The resource should align with a course topic and include a short note on its purpose and how it supports learning. Peers can give constructive feedback on the resource.	60 min	Production	Online	Asynchronous	Teacher not present	No	Yes	Peer	No	No
Total unit workload	1h									
Self Study (7 hours)										
Portfolio Students create a portfolio summarizing their learning, reflecting on growth, and documenting future ICT goals and strategies. They submit their portfolio to Moodle as a podcast, video, or another chosen format.	420 min	Production	Online	Asynchronous	Teacher not present	No	No	Teacher	No	No
Total unit workload	7h									

Total course workload 150h