

ශ්‍රී ලංකා ගුරු සේවා ව්‍යවස්ථානුකූල ගුරු කාර්යක්ෂමතා කඩඉම - 01

අධ්‍යාපනය සඳහා ඩිජිටල් තාක්ෂණය

මොඩියුල අංක 03

ගුරු අධ්‍යාපන පරිපාලන ශාඛාව
අධ්‍යාපන අමාත්‍යාංශය
ඉසුරුපාය
බත්තරමුල්ල

ශ්‍රී ලංකා ගුරු සේවා ව්‍යවස්ථානුකූල ගුරු කාර්යක්ෂමතා කඩයිම - 01

අධ්‍යාපනය සඳහා ඩිජිටල් තාක්ෂණය

Digital Technology in Education

මොඩියුල අංක - 3

Module	Digital Technology in Education
Objectives	<ol style="list-style-type: none">1. Understand and acquire fundamentals of Digital skills need to facilitate teaching learning process into the student-centered approach2. Explore available Digital tools and application which are capable to use in classroom teaching learning process3. Understand and engage with the appropriate digital tools for lesson planning4. Acquire the knowledge in content sharing with classroom management in a virtual space with most reliable sources in the local context.
Learning Outcomes	<ol style="list-style-type: none">1. Demonstrates ability to use basic skills related to digital technology2. Uses relevant tools and platforms to facilitate learning and teaching.3. Uses the blended learning approach to make optimum use of technology.4. Uses the LMS to familiarize oneself on its main features5. Conducts a learning activity using the LMS.6. Uses information and media literacy productively paying attention to relevant ethics
Content	<ol style="list-style-type: none">1. Acquire basic skills<ol style="list-style-type: none">1.1 Basic IT Skills (Office Package)1.2 Internet and email1.3 Fundamentals of hardware1.4 IT applications2. Aware & acquire knowledge on teaching learning tools and platforms<ol style="list-style-type: none">2.1 Blooms taxonomy and education technology2.2 Available tools for lesson plan development2.3 Application of available tools3. Blended learning approach in teaching learning<ol style="list-style-type: none">3.1 What is Blended Learning3.2 What is Flipped Learning

	<p>3.3 Learning methodologies</p> <p>3.4 Preparation of a blended learning lesson guide</p> <p>4. Learning Management System (LMS)</p> <p>4.1 What is LMS and online learning</p> <p>4.2 Working with a LMS</p> <p>4.3 Available features of LMS for teaching learning</p> <p>5. Deep study on LMS</p> <p>5.1 Lesson plan preparation with LMS</p> <p>6. Ethics – Information literacy and media literacy</p> <p>6.1 Information Literacy models</p> <p>6.2 Media literacy</p> <p>6.3 Ethics in cyber space</p>
Learning Methodology	Self-study
Reference	<p>Research Articles (Open Access / Journal Links)</p> <ul style="list-style-type: none"> • “Teachers’ Readiness to Use ICT in the Classroom: A Case Study from Sri Lanka” • Fernando & Perera (2017), Journal of the National Science Foundation of Sri Lanka • https://doi.org/10.4038/jnsfsr.v45i3.8196 • “ICT Integration in Secondary Education in Sri Lanka: Challenges and Recommendations” • Nayana Tharanga (2020), International Journal of Education and Research • https://www.ijern.com/Journal/2020/January-2020/03.pdf • “TPACK: Technological Pedagogical Content Knowledge” • Koehler & Mishra (2009), Contemporary Issues in Technology and Teacher Education • https://citejournal.org/volume-9/issue-1-09/general/tpack-technological-pedagogical-content-knowledge/ • “ICT in Education: A Systematic Review of Sri Lankan Context” • K.P. Hewagamage (University of Colombo School of Computing), IEEE Xplore • https://ieeexplore.ieee.org/document/8379456

- **Free eBooks / Online Book Resources**

- “Teaching in a Digital Age” by A.W. (Tony) Bates
- A free, comprehensive guide to digital teaching for educators.
- <https://opentextbc.ca/teachinginadigitalage/>
- (Highly recommended for Sri Lankan teacher educators)

- “Using Technology with Classroom Instruction that Works” by Howard Pitler, et al.
- Explores specific strategies for effective tech use in lesson planning.
- Available on: Archive.org - <https://archive.org/details/usingtechnologyw0000unse>

- UNESCO ICT Competency Framework for Teachers (2018)
- A global standard often referred to in Sri Lanka's ICT integration strategies.
- <https://unesdoc.unesco.org/ark:/48223/pf0000265721>

- “Integrating Educational Technology into Teaching” by Roblyer & Hughes
- Search or preview on Google Books:
<https://books.google.com/books?id=PMYvDwAAQBAJ>
- (A foundational text for digital pedagogy students)

Case Studies & Practice-Based References

- Fernando, P., & Perera, L. (2017). Teachers’ Readiness for ICT Integration in the Classroom: A Case Study from Sri Lanka
- Useful to understand ground realities and local challenges.
- <https://doi.org/10.4038/jnsfsr.v45i3.8196>

- Digital Education in South Asia – British Council Reports (Sri Lanka section)
- Comparative insights on how digital education is evolving in Sri Lanka.
- <https://www.britishcouncil.lk/programmes/education/research>



- Google for Education Teacher Center
- Practical tutorials and lesson plan templates for integrating tools like Google Classroom, Docs, Forms, etc.
- <https://teachercenter.withgoogle.com/>












Printed Books (Likely Available in University / Public Libraries)












- “The Theory and Practice of Online Learning” – Terry Anderson
- Available via Commonwealth of Learning (digital) and often stocked at OUSL libraries.
- Topics: e-learning design, online pedagogy
- <https://www.col.org/resources/theory-and-practice-online-learning-2nd-edition>
- “Digital Tools for Teaching: 30 E-tools for Collaborative Learning” – James A. Inman
- Practical book for classroom integration
- May be available at NIE and regional education centers.
- “Blended Learning in Action” – Catlin Tucker, et al.
- Focused on tech-enhanced classroom practices. Useful for teacher trainers.
- <https://books.google.com/books?id=Mz03DwAAQBAJ>
- “Teaching with ICT” – Marilyn Leask & Norbert Pachler
- Explains how ICT tools can be aligned with pedagogy.
- National Curriculum Framework and Teacher Education Guides – NIE Sri Lanka
- These include guides for ICT training and digital competency standards.
- Contact NIE Library or regional teacher education centers.











Lesson e-thaksalawa Youtube Link












Teacher's Module












	Lesson	QR Code
1	1 1 Introduction Word	
2	1 2 Letter	












	3	1 3 How to Create Activity Sheet & Cover Page	
	4	1 4 Create A Question Paper	
	5	1 5 Use of Mail Merge to Send A Letter to A Large Number of People At Once	
	6	4 1 Introduction PowerPoint	
	7	4 2 Creating A Presentation	
	8	4 3 Inserting Audio-Visual Items into A Presentation	
	9	4 4 Animation Transition and Slideshow	
	10	4 5 Save A Presentation as A Video and Printing	
	11	5 1 Internet Introduction	
	12	5 2 Internet Basics & Web Browsers	
	13	5 3 Downloading Files	





	14	5 4 Google Drive	
	15	2 1 Excel Introduction	
	16	2 2 Using A Spreadsheet	
	17	2 3 Calculation and Use Of Cell Reference	
	18	2 4 Mark Sheet with Chart	
	19	2 5 Printing, Protecting Using Password	
	20	6 1 E Mail Introduction	
	21	6 2 Creating Email Account	
	22	6 3 Sending an Email	
	23	6 4 Managing Your Emails	
	24	13 4 1 Zoom Install and Create Account	

	25	13 4 2 Zoom Schedule and Host Handling	
	26	13 4 3 Zoom Participants Handling	
	27	13 4 4 Google Meet Schedule Meeting	
	28	13 4 5 Join Google Meet	
	29	3 1 DBMS Introduction	
	30	3 2 Elements of A Database Basics	
	31	3 3 Student Database Creating Table	
	32	3 4 Form Dbms	
	33	3 5 Query Dbms	
	34	3 6 Report Dbms	

	35	13 2 Using OneDrive for Content and Storage Sharing	
	36	3 1 3 1 Let's Unbox the Tablet PC	
	37	3 1 3 3 Let's Use Touch Screen Features	
	38	3 1 3 4 Let's Install Basic Software	
	39	3 1 3 5 Let's Use Tablet Safely	
	40	3 1 3 1 Modern Hardware Components Used in Education	
	41	3 1 3 2 Digital Projectors	
	42	Virtual Reality	
	43	3 3 1 1 Blended Learning	
	44	3 3 1 2 Blended Learning Models	
	45	Flip Classroom	

	46	Bloom's Taxonomy	
	47	Media Literacy	
	48	3 6 3 Ethics in Cyberspace	
	49	3 6 1 1 BIG 6 Model	
	50	3 6 1 Information Literacy Models	
	51	Editing The Page View Turn Editing On	
	52	Add Topics	
	53	File Uploading	
	54	3 4 1 Learning Management System	
	55	Bulk Uploading	
	56	Creating A Quiz	

	57	Content Types	
	58	Editing The Course Page	
	59	2 Assignments Uploading	
	60	1 Assignment Uploading	
	61	User Enrollment Methods	
	62	Uploading The Feedback	
	63	Uploading The Course Image	
	64	Uploading Content URL	
	65	Uploading Content Glossary	
	66	Uploading Content Forum	
	67	Structure Of Lms	

	68	Lesson Uploading	
	69	Impot Question	
	70	Label Uploading	
	71	Create A New User	
	72	3 Assignment Uploading	