**LiaScript GitHub Publishing - 3 Learning Nuggets**

*Duration: 15 minutes each | Aligned with UNESCO ICT Competency Framework*

**NUGGET 1: BASIC - ACQUIRE (15 minutes)**

**"First Steps: Publishing Your LiaScript Course on GitHub"**

**Learning Objectives (2 minutes)**

By the end of this nugget, participants will:

* Understand what GitHub is and why it's used for course hosting
* Create a GitHub account and first repository
* Publish a basic LiaScript course online
* Share their course with students using the correct URL format

**Prerequisites Check (1 minute)**

* Basic computer skills (web browsing, file management)
* Completed LiaScript course creation in LiveEditor
* Internet connection and web browser

**Content Delivery (10 minutes)**

**Section 1: Understanding GitHub for Education (3 minutes)**

**What is GitHub?**

* Think of GitHub as a "Google Drive for code and courses"
* Free hosting platform backed by Microsoft
* Allows unlimited public courses
* Automatic backup and version control

**Why Use GitHub for LiaScript?**

* ✅ **Free hosting** - No monthly fees
* ✅ **Professional URLs** - Easy to share
* ✅ **Always available** - 99.9% uptime
* ✅ **Global reach** - Students worldwide can access
* ✅ **Version control** - Track all changes

**Real-world Example:** "Teacher Maria creates a cooking course. She saves it on GitHub and gets a professional link she can share with 500 students instantly. When she needs to fix a typo, she edits once and all students see the update immediately."

**Section 2: Creating Your GitHub Account (3 minutes)**

**Step-by-Step Account Creation:**

1. **Visit GitHub.com**
   * Click green "Sign up" button
   * Choose a professional username (e.g., "maria-cooking-teacher")
2. **Complete Registration**
   * Use your professional email
   * Create strong password
   * Verify email address
3. **Choose Plan**
   * Select "Free" plan (perfect for education)
   * Skip team features for now

**Pro Tips:**

* Use your real name or teaching identity for username
* Keep login details secure
* Enable two-factor authentication later

**Section 3: Publishing Your First Course (4 minutes)**

**Creating Your Repository:**

1. **Create New Repository**
   * Click green "New" button
   * Repository name: my-first-liascript-course
   * Description: "My interactive course using LiaScript"
   * ✅ Make it **Public** (required for free hosting)
   * ✅ Initialize with README file
2. **Add Your Course Content**
   * Click "README.md" file
   * Click pencil icon (✏️) to edit
   * Delete existing content
   * Paste your LiaScript course code
   * Commit changes with message: "Add my first course"
3. **Get Your Course URL**
   * Copy repository URL: https://github.com/yourusername/my-first-liascript-course
   * Create LiaScript URL: https://liascript.github.io/course/? + your repository URL
   * Final URL: https://liascript.github.io/course/?https://github.com/yourusername/my-first-liascript-course

**Hands-On Activity (2 minutes)**

**Quick Practice:**

1. Create GitHub account (if not done)
2. Create repository named "practice-course"
3. Add simple LiaScript content:

# My Practice Course

## Welcome

Hello! This is my first GitHub-hosted course.

## Quiz Time

What platform are we using?

[(x)] GitHub

[( )] Facebook

[( )] WhatsApp

1. Generate and test your course URL

**Summary & Next Steps (1 minute)**

**You've Learned:**

* ✅ GitHub basics for education
* ✅ Account creation and setup
* ✅ Repository creation
* ✅ Course publishing process
* ✅ URL generation and sharing

**What's Next:**

* Practice with different course topics
* Learn about updates and version control
* Explore collaboration features

**NUGGET 2: INTERMEDIATE - DEEPEN (15 minutes)**

**"Mastering Updates: Version Control and Collaboration"**

**Learning Objectives (2 minutes)**

By the end of this nugget, participants will:

* Make/ update folders/ repositories
* Update published courses efficiently
* Understand GitHub's version control system
* Collaborate with other educators
* Organize multiple courses professionally

**Prerequisites Check (1 minute)**

* Completed Basic nugget
* Have at least one published LiaScript course
* Basic understanding of file organization

**Content Delivery (10 minutes)**

**Section 1: Professional Course Updates (3 minutes)**

**Why Updates Matter:**

* Students find errors in your course
* Curriculum changes require content updates
* New multimedia resources become available
* Feedback suggests improvements

**The Traditional Problem:**

* Download course file
* Edit locally
* Re-upload everywhere
* Notify all students
* Students have different versions

**The GitHub Solution:**

* Edit directly in browser
* One update, everyone sees it
* Automatic notifications
* Version history preserved

**Step-by-Step Update Process:**

1. **Navigate to your repository**
2. **Click README.md file**
3. **Click pencil icon (✏️)**
4. **Make your changes**
5. **Scroll to bottom**
6. **Add commit message**: "Fix typo in Chapter 3"
7. **Click "Commit changes"**
8. **Students automatically get updates**

**Pro Tips:**

* Use descriptive commit messages
* Make small, focused changes
* Test changes in LiveEditor first
* Update during low-traffic times

**Section 2: Version Control Mastery (3 minutes)**

**Understanding Version History:**

* Every change is saved forever
* See what changed and when
* Restore previous versions if needed
* Track who made changes (in collaborations)

**Viewing Version History:**

1. **Click "History" button** (clock icon)
2. **See list of all changes**
3. **Click any version** to see what changed
4. **Green = added content**
5. **Red = removed content**

**Practical Example:** "Teacher John accidentally deletes an entire chapter. Instead of rewriting it, he views the history, finds the version from yesterday, and restores the content in 30 seconds."

**Best Practices:**

* Commit changes frequently
* Use meaningful commit messages:
  + ✅ "Add quiz to Chapter 2"
  + ❌ "Update stuff"
* Keep commits focused on one topic
* Review changes before committing

**Section 3: Multi-Course Organization (2 minutes)**

**Organizing Multiple Courses:**

**Repository Naming Convention:**

* subject-topic-level: english-grammar-beginner
* course-series-number: cooking-basics-01
* year-subject-topic: 2024-math-algebra

**Folder Structure Options:**

Option 1: One Course Per Repository

├── english-grammar-beginner/

├── english-grammar-intermediate/

├── english-grammar-advanced/

Option 2: Course Series Repository

├── english-course-series/

│ ├── 01-beginner/

│ ├── 02-intermediate/

│ └── 03-advanced/

**Portfolio Organization:**

* Create a "main" repository as your course catalog
* List all courses with descriptions
* Include learning objectives and prerequisites
* Add instructor information and contact details

**Section 4: Basic Collaboration (2 minutes)**

**Inviting Co-Authors:**

1. **Go to repository Settings**
2. **Click "Collaborators"**
3. **Click "Add people"**
4. **Enter colleague's GitHub username**
5. **Choose permission level**
6. **Send invitation**

**Collaboration Workflow:**

* Co-author receives email invitation
* They can now edit your course
* All changes are tracked with author names
* You can review and approve changes

**Team Teaching Example:** "Teachers Sarah and Ahmed co-teach a science course. Sarah handles biology sections, Ahmed covers chemistry. Both can update their sections independently, and GitHub tracks who changed what."

**Hands-On Activity (2 minutes)**

**Version Control Practice:**

1. **Make a small change** to your existing course
2. **Commit with message**: "Add new example"
3. **View the change history**
4. **Make another change**
5. **Compare different versions**
6. **Practice reverting** a change (optional)

**Summary & Next Steps (1 minute)**

**You've Learned:**

* ✅ Professional update workflows
* ✅ Version control benefits
* ✅ Multi-course organization
* ✅ Basic collaboration setup
* ✅ Best practices for maintenance

**What's Next:**

* Set up automated workflows
* Learn advanced GitHub features
* Explore batch operations
* Master SCORM automation

**NUGGET 3: ADVANCED - CREATE (15 minutes)-**

**"Automation Mastery: Streamlining Your Course Publishing Pipeline (SCORM for LMS)"**

**Learning Objectives**

By the end of this nugget, participants will:

* Set up automated SCORM conversion workflows
* Create batch processing scripts for multiple courses
* Implement automated quality checks
* Design template systems for consistent course creation
* Build automated deployment pipelines

**Setting Up Automation:**

1. Keep everything in the main repository
2. Put the .md file under mail repository
3. **.github/workflows/automate-liascript.yml with the help of AI**
4. **Create asset/ media folder under the same repository**
5. Create scripts/generate-pdf.js with the help of AI
6. Create package.json file with the help of AI
7. **Commit the Automation workflow (simple process procedure step by step)**
8. **Release Liascript assets as pdf, zip file for scorm package, tar.gz for IMS Content**

**Summary**

**You've Mastered:**

* ✅ Automated SCORM conversion
* ✅ Batch processing workflows
* ✅ Quality assurance automation
* ✅ Template systems
* ✅ Complete deployment pipelines