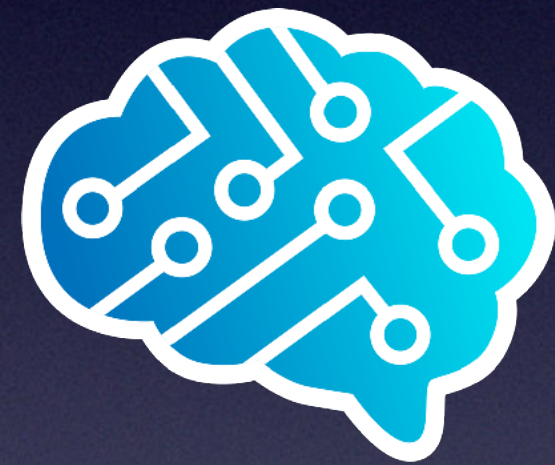


Teacher Getting Started Guide



DIGITAL
TECHNOLOGIES
INSTITUTE

web: www.digital-technologies.institute

email: enquiries@digital-technologies.institute

Twitter: [@DigTecInstitute](https://twitter.com/DigTecInstitute)

Preparation


Create a free teacher / home school account at www.mycomputerbrain.net

Explore the Computer Brain

Explore artificial intelligence, binary numbers, pixel graphics, algorithms and the inner workings of a computer.
Gain a deep and intuitive understanding of Digital Technologies key concepts and their practical application.


Suitable for primary, secondary and tertiary students of Digital Technologies and Computer Science.

Free for registered teachers. Student licenses start at \$0 (free for the next three months due to COVID-19).




AI Hour of Code

AI and Machine Learning Hour of Code Activity
(Secondary+Tertiary)



AI and Machine Learning Course (Secondary+Tertiary)



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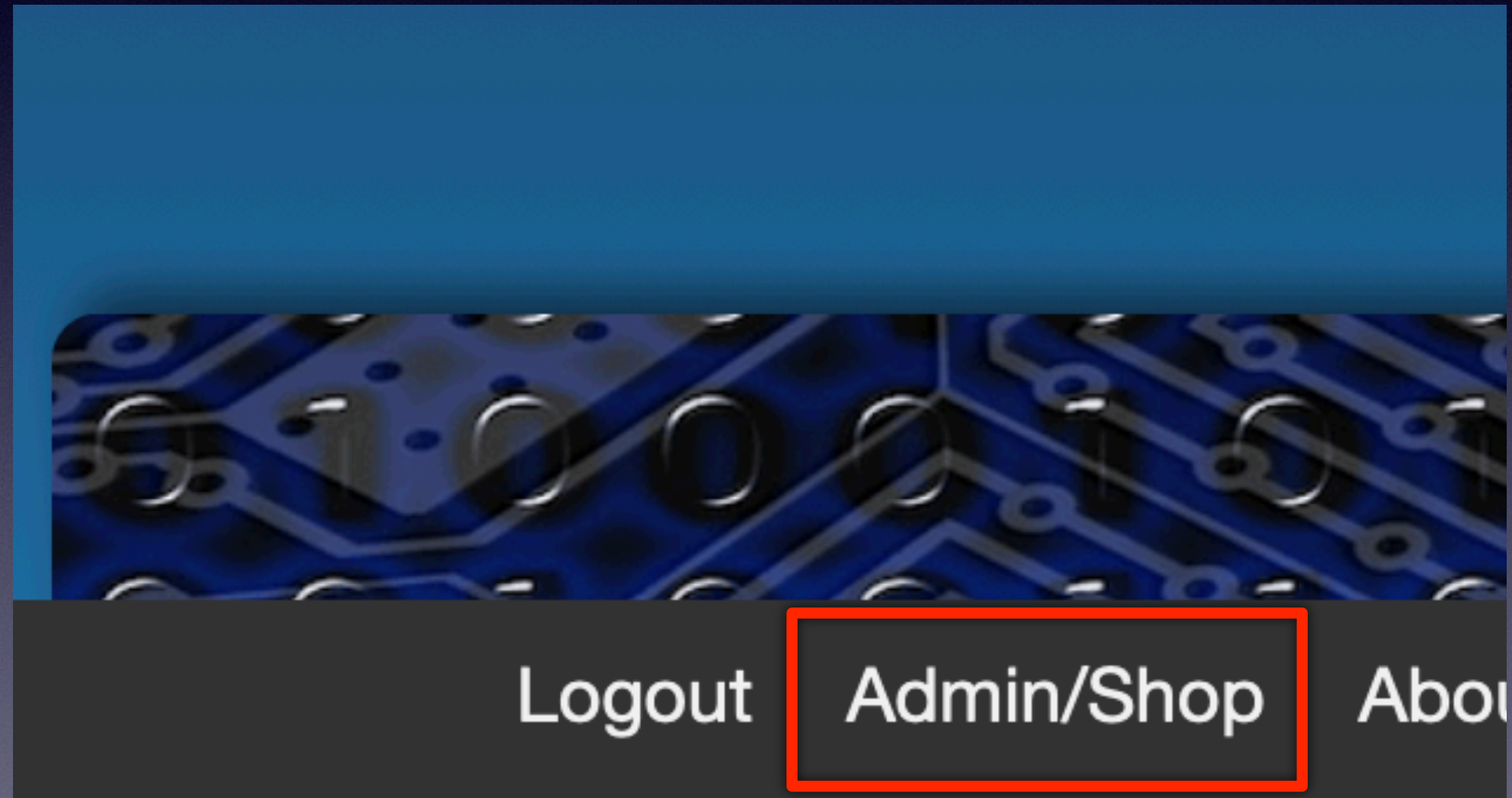
Welcome. Please login.

Teacher and not registered? [Create a free account](#)

Teacher and forgotten password? [Reset password](#)

Student and not registered or forgotten password? Please talk to your teacher.

Click on Admin/Shop




Choose All course access - 3 months

[My Students](#) [Assessment](#) [Shop](#) [Order History](#) [My Account](#) [Change Password](#) [Support](#)

Purchase student accounts. Choose the number of students and validity periods that suits you best. We accept credit cards.


No credit card? Contact us via [email](#)

Products




All courses access - 3 months
3 month subscription to all courses
\$0.00

#students [Add to cart](#)




All courses access - 6 months
6 month subscription to all courses
\$15.00

#students [Add to cart](#)




All courses access - 12 months
12 month subscription to all courses
\$20.00


#students [Add to cart](#)



Machine Learning Course - 3 Months
3 month subscription to a course that explores the inner working on the brain and introduces students to machine learning with artificial neural networks.



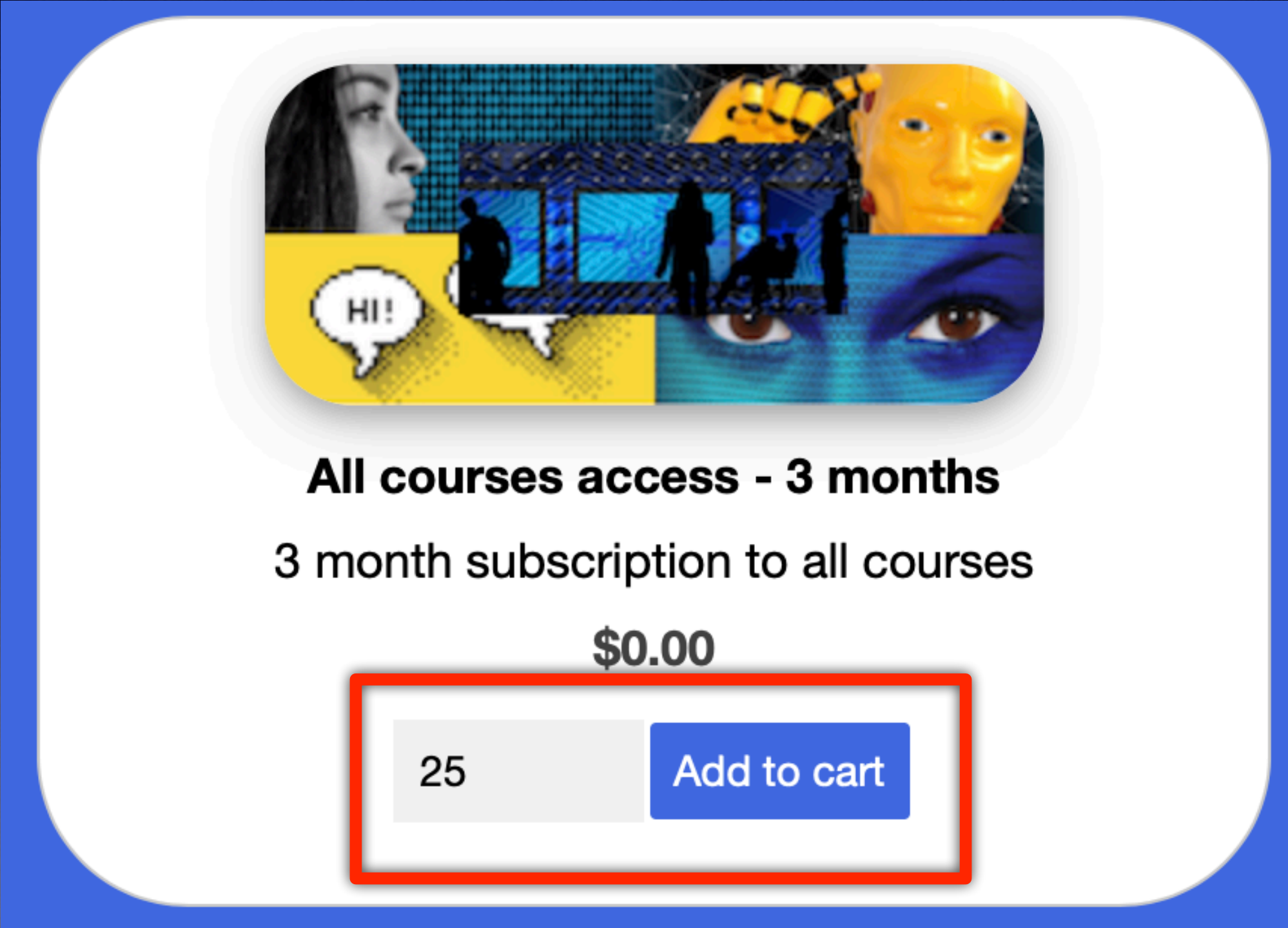
Machine Learning Course - 6 Months
6 month subscription to a course that explores the inner working on the brain and introduces students to machine learning with artificial neural networks.



Machine Learning Course - 12 Months
12 month subscription to a course that explores the inner working on the brain and introduces students to machine learning with artificial neural networks.

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Enter number of student licenses and click on
'Add to cart'



The product card features a collage image with a woman's profile, a yellow robot head, a person in a blue suit, and a large eye. Below the image, the text reads 'All courses access - 3 months' and '3 month subscription to all courses'. The price is '\$0.00'. At the bottom, there is a quantity input field with the number '25' and a blue 'Add to cart' button. A red rectangular border highlights the quantity field and the 'Add to cart' button.

All courses access - 3 months
3 month subscription to all courses

\$0.00

25 [Add to cart](#)

Click on Checkout

Confirm your details on the next screen

Shopping Cart						Empty Cart	Checkout →
Name	Code	Quantity	Price	Action		Subtotal	
All courses access - 3 months	B4-C-ALL-03	25	\$0.00	update quantity	Remove Item	\$0.00	
						Total: \$0.00	

Click on 'Create Free Accounts'

The system will create the accounts and redirect to the next screen

[My Students](#) [Assessment](#) [Shop](#) [Order History](#) [My Account](#) [Change Password](#) [Support](#)

Shopping Cart

← Back to store

Name	Code	Quantity	Price	Action	Subtotal
All courses access - 3 months	B4-C-ALL-03	25	\$0.00	update quantity Remove Item	\$0.00
Total: \$0.00					

Click the button to generate the free student accounts. You will then be automatically redirected to the My Students page where you will find the new student accounts.

Create Free Accounts

Distribute usernames+passwords to your students

If you like, you can add names/surnames (optional)

My Students

Assessment

Shop

Order History

My Account

Change Password

Support

My Students

Export Student Accounts as CSV

You can copy & paste student names, surnames or passwords directly from Excel into the table below. Copy only one column at a time!

Name	Surname	Username	Password	Product	Validity
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25
				B4-C-ALL-03	2020-06-25

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Assessment tasks

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Student Assessment Tasks

Title	Type	Duration	Abstract	Bands	Prerequisites	Format	Download link	Solution
Binary Addition	Quiz	20-40 minutes	20 Binary addition questions. Suitable to test student's understanding of the binary number system	5-6, 7-8	B4 Computer Processor Kit, B4 Primary Starter Kit	PDF	Quiz Sheet	Solution Sheet
Binary Subtraction	Quiz	20-40 minutes	20 Binary subtraction questions with the 1's complement method. Suitable to test student's understanding of the binary number system	5-6, 7-8	B4 Computer Processor Kit, B4 Primary Starter Kit	PDF	Quiz Sheet	Solution Sheet
B4 Practical	Test	50 minutes	Students build one of two possible machines with B4 modules.	7-8	B4 Computer Processor Kit	DOC	Worksheet	Test A Test B
B4 Final Assessment	Project	4-7 weeks	Students investigate digital System, historic approaches to computing, and design and build a general-purpose adding machine	7-8	B4 Computer Processor Kit	DOC	Worksheet	N/A

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https://mycomputerbrain.net/php/user_self_admin.php


Lesson Plans

LPs are attached to the respective course

Or get them all in one place

Learn how the computer works!

A course that explores binary numbers, binary addition, subtraction and memory. Build and program a simple logic computer.



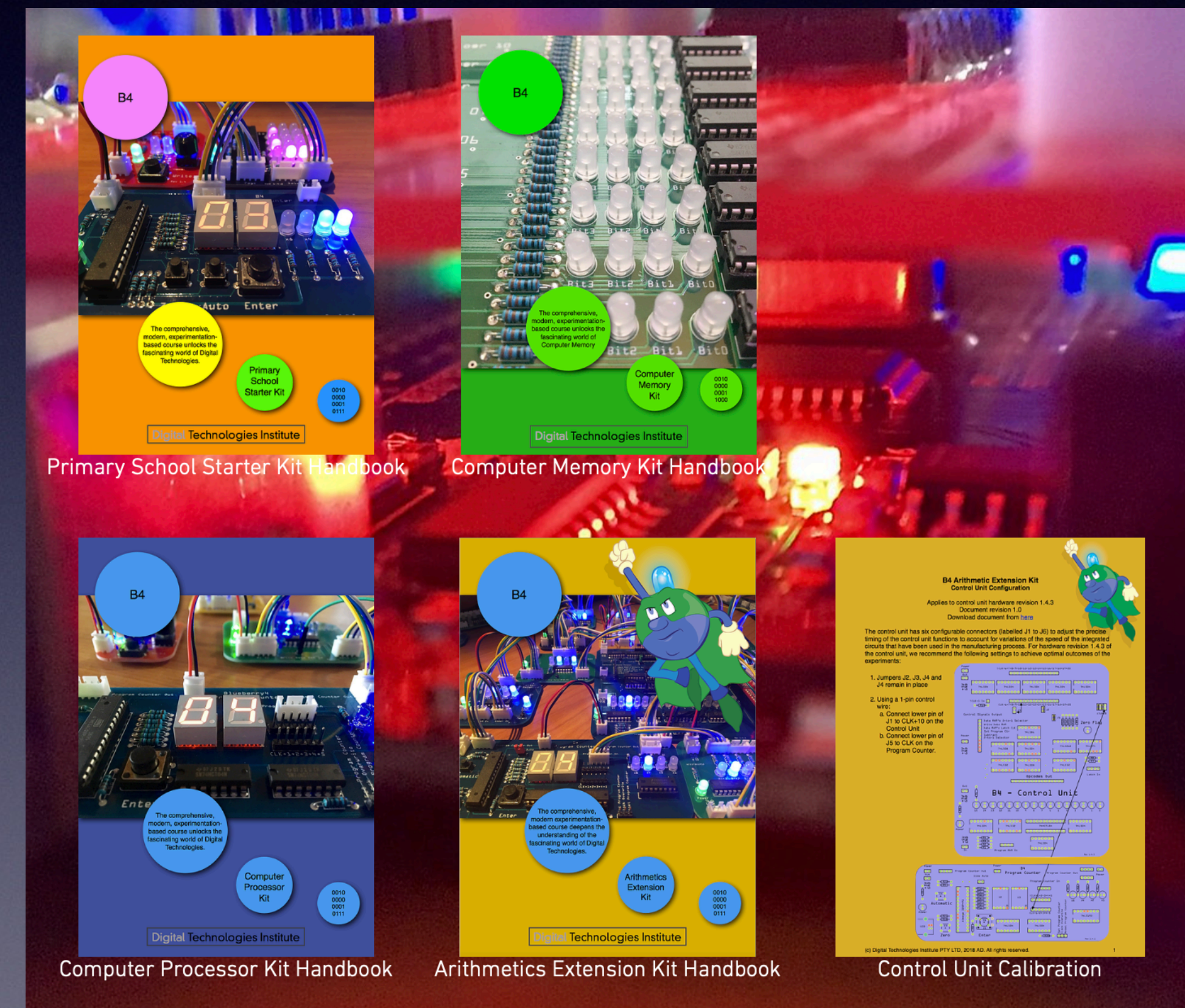
1 / 14

3-2-1 go !

WARNING: PHOTSENSITIVE EPILEPSY - The experiments produce light flashes that can potentially trigger seizures in people with photosensitive epilepsy

[Get the lesson plan](#)

example: <https://mycomputerbrain.net/php/courses/bk.php>



Primary School Starter Kit Handbook

Computer Memory Kit Handbook

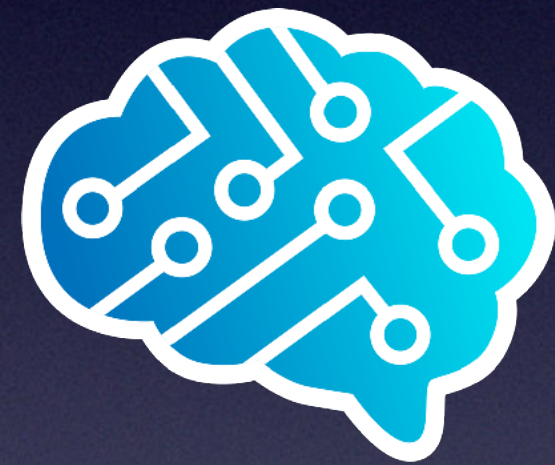
Computer Processor Kit Handbook

Arithmetics Extension Kit Handbook

Control Unit Calibration

<https://www.digital-technologies.institute/handbooks>

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