Visiopharm Academy
Image Analysis – Beginners (CET time zone)

Prerequisites: No prerequisites

Day 1

09:00   **Introduction**
Lecture
- Presentation to course and tools

09:15   **General introduction to VIS**
Lecture & Exercise
- General navigation in VIS
- Layer drawings
- Running APPs

10:45   **Coffee break**

11:00   **Introduction to APP Author**
Lecture
- How to create an APP in VIS

12:15   **Lunch**

13:00   **Introduction to APP Author (continued)**
Exercise
- How to build a tissue detection APP

Lecture & Exercise
- Nuclei detection APPs

15:00   **Coffee break**

15:10   **Batch processing & Result handling**
Lecture & Exercise
- Running multiple APPs in multiple images
- Viewing results in VIS

15:50   **Q&A**

16:00   **End of day 1**

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Day 2

Time		
09:00	**Recap**	
	Lecture	
09:15	**APP Author: Classification**	
	Lecture & Exercise	

- Introduction to classification
- Deep Learning
- Threshold

11:20	**Coffee break**	

11:30	**APP Author: Post Processing and Output Variables**
	Lecture & Exercise

- How to clean up the labels using post processing
- How to create relevant outputs

12:00	**Lunch**

12:45	**APP Author: Post Processing and Output Variables (Continued)**
	Exercises

13:30	**Training Labels for Deep Learning**
	Lecture & Exercise

- How to arrange your training data
- Manual labeling
- Continue training of Nuclei Detection, AI APPs.

14:35	**Coffee break**

15:00	**Training Labels for Deep Learning (Continued)**
	Exercise

- Continue training of Nuclei Detection, AI APPs.

15:30	**Course summary and Q&A**

16:00	**End of day 2**

Visiopharm Academy
Image Analysis - Beginners (GMT time zone)

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Day 1

08:00 **Introduction**
Lecture
- Presentation to course and tools

08:15 **General introduction to VIS**
Lecture & Exercise
- General navigation in VIS
- Layer drawings
- Running APPs

09:45 **Coffee break**

10:00 **Introduction to APP Author**
Lecture
- How to create an APP in VIS

11:15 **Lunch**

12:00 **Introduction to APP Author (continued)**
Exercise
- How to build a tissue detection APP

Lecture & Exercise
- Nuclei detection APPs

14:00 **Coffee break**

14:10 **Batch processing & Result handling**
Lecture & Exercise
- Running multiple APPs in multiple images
- Viewing results in VIS

14:50 **Q&A**

15:00 **End of day 1**

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Image Analysis - Beginners (GMT time zone)

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Day 2

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Lecture

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Exercise
- Continue training of Nuclei Detection, AI APPs.

14:30 — **Course summary and Q&A**

15:00 — **End of day 2**