

# Week 11 exercises

# What's on today?

Beginning of  
the lab

High performance  
computing support

Finalise your questions about RCP

10:15 – 11:00

Practice 11

AE for anomaly detection  
VAE for image generation

Announcement on Submission instructions for Submission 2

11:15 – 12:00

Submission 2: DDPM  
Mini-Project support

Forward diffusion  
Model training  
Reverse diffusion

Progress with the mini-project

# Submission 2: instructions

**Submission 2:** WGAN and DDPM.

Deadline on 20<sup>th</sup> May, 23:59. Submission instructions are available on Moodle  
(see [Checklist for Submission 2](#)).

[EE-559](#) / [Submissions](#) / Submission 2



## Submission 2

**Due:** Tuesday, 20 May 2025, 23:59

The file to upload should be a zip archive named `S2_SCIPER.zip`  
One submission per student.

[Checklist for Submission 2](#)

# Submission 2: instructions

## S2\_SCIPER/

- WGAN/
  - Submission2\_GANs.ipynb
  - trainer.py
  - report\_images/
    - fixed\_z\_for\_check\_ep0.jpg fixed\_z\_for\_check\_ep0.jpg
    - ...
    - fixed\_z\_for\_check\_ep7.jpg fixed\_z\_for\_check\_ep8.jpg
    - losses\_ep0.jpg
    - ...
    - losses\_ep7.jpg
  - model\_weights/
    - generator.pt
    - discriminator.pt
- DDPM/
  - S2\_SCIPER.pdf
  - Submission2\_DDPM.ipynb
  - diffusion\_model\_report\_images/
    - diffusion\_model\_loss\_ep0.jpg
    - ...
    - diffusion\_model\_loss\_ep9.jpg
    - fixed\_x\_T\_for\_check\_ep0.jpg
    - ...
    - fixed\_x\_T\_for\_check\_ep9.jpg
  - diffusion\_model\_weights/
    - diffusion\_model.pt

## Submission 2

- notebooks and trainer.py
- models' weights
- losses
- generated images
- answers to written questions