

# TP0 – NLP Environment Setup with Anaconda

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## Objective

The objective of this TP0 is to prepare a clean and functional Python environment for the **Natural Language Processing (NLP)** module. All future practical sessions (TP1 to TP4) will rely on this environment.

## Required File

Make sure you have the following file in your working directory:

- `nlp_course_env.yml`

This file contains all the Python libraries required for the NLP course.

## 1 Creating the NLP Environment from YAML

To create the Conda environment using the provided YAML file, execute:

```
conda env create -f nlp_course_env.yml
```

This command automatically creates an environment named `nlp_course` with all required dependencies.

## 2 Activating the Environment

Once the environment is created, activate it using:

```
conda activate nlp_course
```

Your terminal prompt should now display `(nlp_course)`.

### 3 Installing NLTK Resources (Mandatory)

Some NLP tasks require additional linguistic resources. Run the following commands in Python or Jupyter Notebook:

```
import nltk
nltk.download('punkt')
nltk.download('wordnet')
nltk.download('averaged_perceptron_tagger')
```

### 4 Installing and Launching Jupyter Notebook

#### Installation

If Jupyter Notebook is not installed, run:

```
conda install jupyter notebook
```

#### Launching Jupyter

To start Jupyter Notebook:

```
jupyter notebook
```

Your default web browser will open automatically.

### 5 Managing Environments (Useful Commands)

#### List existing environments

```
conda env list
```

#### Deactivate the environment

```
conda deactivate
```

### Conclusion

This TP0 ensures that all students work with the same Python environment throughout the NLP module. A correct setup at this stage is essential to avoid technical issues in future practical sessions.