

Setting up an environment for Probabilistic design

1. **Open a terminal.** On Windows, you can use the Anaconda Prompt, while on macOS and Linux, you can use the standard terminal.
2. **Create a New Conda Environment.** Here, we will create an environment with Python version 3.11 to prevent incompatibilities as

```
conda create --name prob_design_25
```

You can replace `prob_design_25` with the name you want for your environment.

3. **Activate the environment.**

```
conda activate prob_design_25
```

4. **Install the needed packages**

```
conda install conda-forge::pyextremes  
conda install conda-forge::openturns  
conda install conda-forge::ipykernel  
pip install datetime
```

Accept the installation after running each line. It will show a list of additional packages required to install the ones you indicate. This process might take some time.

If the installation of OpenTURNS is not available with conda, run "pip install openturns".

5. **Check the packages in the environment.**

```
conda list
```

Check that the intended packages are installed and also basic packages like numpy, pandas, matplotlib, and scipy. Install as needed.

6. **Test your installation.** Run the given notebook using the created environment in VSCode.

If the code runs successfully without any error message, you are done! If not, contact Patricia Mares Nasarre.