

Schedule - Key Dates

When/Where?

- **Lectures:** Tuesdays, 09:00 - 11:00 @**WP109**
- **Labs:** Tuesdays, 13:00 - 15:00 @**EM245**

WP=William Perkin, EM=Earl Mountbatten

Weekly Schedule

| Week | Lectures | Interactive Session/Lab | Assignments (CW) |
|------|---|--|---|
| | Module 1: Foundations in NLP | | |
| 1 | Topic 1: Introduction/What we will cover Topic 2: Problems/Phenomena of interest in NLP | W1-Lab. Python Primer | |
| 2 | Topic 2 (cont): Problems/Phenomena of interest in NLP Topic 3: Machine Learning for NLP Primer | W2-Lab. Numpy Primer and PyTorch Tensors | |
| 3 | Topic 4: Distributional Semantics | W3-Lab. Embeddings and using GENSIM | CW1 (Announced): Word Embeddings [15%] <i>Tuesday 24/09</i> |
| | Module 2: Deep Learning Architectures in NLP | | |
| 4 | Topic 5: Language Modelling with Neural Networks | W4-Lab. Gradients, Autograd, FFN Classifier with PyTorch | |
| 5 | Topic 6: Sequence-to-Sequence Models | W5-Lab. n-gram LM with PyTorch | |
| 6 | Consolidation Week | No Lab | CW1 (Deadline) <i>Tuesday 15/10</i> |
| 7 | Topic 7: Self-attention and Transformers | W7-Lab. Introduction to PyTorch Lightning | CW2 (Announced): Machine Translation [25%] <i>Thursday 24/10</i> |
| 8 | Topic 8: Pre-trained Language Models | W8-Lab. CW2 Q&A Session | |
| | Module 3: NLP Applications | | |
| 9 | Topic 9: Intent Prediction, Text Summarisation, Question Answering | W9-Lab. NLU Intent Classification with BERT | |
| 10 | No Lecture. | No Lab. | |
| 11 | Topic 10: Beyond text-only: Caption Generation, Visual Question Answering | W11-Lab. CW2 Q&A Session | |
| 12 | (No Teaching) | | CW2 (Deadline) <i>Thursday 28/11</i> |