Course Description Format

TITLE : Advanced NLP
Course Code :
Note: Please use course code for previously existing course

CREDITS : 3-1-0-4
TYPE-WHEN :
FACULTY NAME : Manish Shrivastava

PRE-REQUISITE : None
OBJECTIVE : To get the students acquainted with the state-of-the-art for NLP by focusing on the advances in the field and their impact on a few applications.

COURSE TOPICS :

- Statistical Machine Translation methods
- Distributed Semantics
- Early Neural Machine Translation models
- Extractive and Abstractive Summarization
- Neural Summarization Methods
- Contextual Distributed Semantics
- Models such as ELMO, BERT, ERNIE and their derivatives
- Applications of Contextual Embeddings in NMT, Summarization and Question Answering

PREFERRED TEXT BOOKS:
None. Mostly research papers.
***REFERENCE BOOKS:**
Statistical Machine Translation by Philip Koehn
Deep Learning by Ian Goodfellow
***PROJECT:**
Titles to be decided based on recent research publications

GRADING PLAN:

Type of Evaluation	Weightage (in %)
Quiz-1	**5**
Mid SemExam	**10**
Quiz-2	
End Sem Exam	**20**
Assignments	**15**

Project	**40**
Term Paper (related to project)	**10**
Other Evaluation _____	

OUTCOME:

The students should become aware of the advances in the field of NLP focusing on Natural Language Representations and embeddings. The students would also gain hand-on experience in the design and implementation of some advanced models.

REMARKS: