Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Sira Road, Tumkur - 572 106, Karnataka, India.
SHRIDEVI EDUCATION
Phone: 0816 - 2212629 | Principal: 0816 - 2212627, 9686114899 | Telefax: 0816 - 2212628
Email: info@shrideviengineering.org, principal@shrideviengineering.org | Website: www.shrideviengineering.org
(Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka and Affiliated to Visvesvaraya Technological University, Belagavi)

SYLLABUS FOR VALUE ADDED COURSE ON "NPL USING PYTHON"

Topics
Introduction and Overview what is Natural Language Processing, hands-on demonstrations. Ambiguity and uncertainty in language..
Regular Expressions Chomsky hierarchy, regular languages, and their limitations. Finite-state automata. Practical regular expressions for finding and counting language phenomena..
Programming in Python An introduction to programming in Python. Why Python? Variables, numbers, strings, arrays, dictionaries, conditionals, iteration. The NLTK (Natural Language Toolkit), with demonstrations.
String Edit Distance and Alignment Key algorithmic tool: dynamic programming, first a simple example, then its use in optimal alignment of sequences. String edit operations, edit distance, and examples of use in spelling correction, and machine translation.

Assessment:

Students should obtain:

Min 80% of attendance
Min 80% Participation in practice session
Quiz

Coordinator

HOD

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET. TUMKUR