

# DIGITAL UNIVERSITY KERALA, TECHNOCITY, THIRUVANANTHAPURAM

## Master of Science (M. Sc.) in Computer Science with Speech and Language Processing

(In-take: 30)

### CURRICULUM

<b>Semester 1</b>		
Type of the Course	Title of the Course	Credits
University Core 1	Digital Access Community Empowerment	3
University Core 2	Digital Experience Laboratory	4
University Core 3	Design Thinking and Innovation	3
Total Credits		10

<b>Semester 1</b>		
Type of the Course	Title of the Course	Credits
Program Core 1	Introduction to NLP	4
Program Core 2	Data Structures & Algorithms	4
Program Core 3	Mathematical Foundations for NLP	4
Program Core 4	Linguistics and Text/corpus Processing	3
Program Core 5	Python Programming	3
Program Core Lab 1	NLP Lab	1
Program Core Lab 2	Python Programming Lab	1
Total Credits		20

<b>Semester 2</b>		
Type of the Course	Title of the Course	Credits
Program Core 6	AI and Machine Translation	4
Program Core 7	Machine Learning and Deep Learning for NLP	4
Program Core 8	Database systems	3
Program Core 9	Speech and Processing	4
Program Elective 1	Computer Vision/ Reinforcement Learning/ Block chain Technology/ Information Retrieval /Image Data Processing	3
Program Core Lab 3	Data and Machine Learning Lab	1
Program Core Lab 4	Speech Processing Lab	1
Total Credits		20

<b>Semester 2 Internship</b>		
Type of the Course	Title of the Course	Credits
Internship	Summer Internship/Team Project	6
Total Credits		6

<b>Semester 3</b>		
Type of the Course	Title of the Course	Credits
Program Core 10	Cognitive Computing and BCI	4
Program Core 11	Big Data Analytics	4
Program Elective 2	Soft Computing/Web Technology for Industry 4.0/ Computer Networks/ Software Engineering	4
Program Elective 3	Augmented & Virtual Reality/AI Hardware for Speech(?) / Cloud Computing/ Language Assistive Technology	4
Project	Mini Project	4
<b>Total Credits</b>		<b>20</b>

<b>Semester 4</b>		
Type of the Course	Title of the Course	Credits
Project	Main Project	24
<b>Total Credits</b>		<b>24</b>