



APPROVED

Awards					
Master of Science					
Programme Code:	BN_KMHLT_R	Mode of Delivery:	Full Time	No. of Semesters:	3
NFQ Level:	9				
Programme Credits:	90				
Institute Code:	BN530R				
Department:	Computing				
Programme Extra Information:	Schedule reflects full time delivery. 20 credits to be taken from electives in semester 2.				

Programme Outcomes

On successful completion of this programme the learner will be able to :

PO1	Knowledge - Breadth	
	(a)	Expert knowledge and understanding. A state-of-the-art specialist in Human Language Technology (linguistics and computer science).
	(b)	Knowledge and understanding of the key stages of relevant research and development methodologies.
PO2	Knowledge - Kind	
	(a)	Expert knowledge of best practices in research and its applications in Human Language Technology (linguistics and computer science).
PO3	Skill - Range	
	(a)	Demonstrate competent research and analysis skills with critical understanding.
	(b)	Integrate advanced knowledge and apply advanced methodologies for tackling research problems.
	(c)	Interpersonal and communication skills to discuss current challenges and research.
PO4	Skill - Selectivity	
	(a)	Demonstrate an integrated knowledge and appropriate use of a range of advanced Human Language Technology techniques and principles.
PO5	Competence - Context	
	(a)	Evaluate existing and develop new best practices in a range of real-world contexts.
	(b)	Design and implement a Human Language Technology solution that requires significant preliminary research for novel and unfamiliar situations.
PO6	Competence - Role	
	(a)	A disciplined attitude based on initiative, responsibility and problem ownership.
PO7	Competence - Learning to Learn	
	(a)	Critically analyse relevant publications to assess the relative merits of methodologies used and conclusions made.
	(b)	An attitude that recognises the need to constantly update knowledge and skills.
PO8	Competence - Insight	

	(a)	An understanding and appreciation of the need for quality and integrity.
	(b)	Critically evaluate his/her own work and the work of others.
	(c)	An awareness of research ethics and ethical concerns arising from Human Language Technology.

Semester Schedules

Stage 1 / Semester 1

Mandatory	
Module Code	Module Title
MHLT H6011	Natural Language Processing
MHLT H6013	Linguistics for Human Language Technology
MHLT H6019	Programming for NLP

Stage 1 / Semester 2

Mandatory	
Module Code	Module Title
MACS H6021	Research Skills & Ethics

Elective	
Module Code	Module Title
MHLT H6012	XML Ontologies for Corpus Building
MHLT H6014	Data Structs & Algos for NLP
MHLT H6015	Digital Corpus Linguistics
MHLT H6016	Interactive Speech Processing
MHLT H6017	Speech Processing Technology
MHLT H6018	Avatar Technology
MHLT H6020	Intelligent Software Agents
MHLT H6021	Machine Translation Paradigms

Stage 1 / Semester 3

Mandatory	
Module Code	Module Title
MSIT H6029	MSc Research Project - 30