

# Nepal Open University

Manbawan, Lalitpur, Nepal

Faculty of Science, Health and Technology

**Program: M. Phil in Information and Communication Technology (MPhil in ICT)**

**Duration: Eighteen Months**

**Total Credits: 39**

## Course Objectives:

The objective of this course is to involve students and researchers into the specific research area in the field of Information Technology. Students and researchers will get the in-depth knowledge of recent trends in Information Technology and finally they will be able to conduct the research-led activities in the domain they have chosen. The research in this course focuses on the emerging technologies such as Data Science, Cloud Computing, Big data, and Internet of Things etc. This course also develops the researchers, capable of making the research contributions to the nation building in various areas of Information Technology.

## Eligibility:

- Master Degree in IT/ICT with minimum second div or 2.7 CGPA in a scale of 4

## Course of Study

**Year: I**

**Semester: First**

Course Code	Course Name	Credits	Remarks
MPH***	Advanced Research Methodology	3	
MPH ***	Data Science	3	
MPH ***	Digital Governance	3	
MPH ***	Advanced Programming Technique	3	
MPH***	IT Management	3	
Total		15	

**Year: I**

**Semester: Second**

<b>Course Code</b>	<b>Course Name</b>	<b>Credits</b>	<b>Remarks</b>
MPH***	Cloud Computing and Big Data	3	
MPH ***	Internet of Things	3	
MPH ***	Database Management System	3	
MPH ***	Advanced Software Engineering	3	
MPH***	Research Project	3	Preliminary Dissertation Works
Total		15	

**Year: II**

**Semester: First**

<b>Course Code</b>	<b>Course Name</b>	<b>Credits</b>	<b>Remarks</b>
MPH***	Elective	3	
MPH***	Dissertation	6	
Total		9	

**Elective Subjects:**

- **Machine Learning**
- **Knowledge Engineering**
- **Deep Learning**
- **Fuzzy Logic**
- **Embedded System**
- **Modeling and Simulation**
- **Artificial Intelligence**
- **Computational Mathematics**
- **Analytical Hierarchical Process**
- **Wireless Sensor Network**
- **Data Mining**
- **Mobile Computing**
- **Web Technology**
- **Natural Language Processing**
- **Geographical Information System**
- **Educational Technology**