Nepal Open University

Faculty of Science, Health and Technology

Courses for Entrance Examination

2075/76

Program Name: Masters in e-Governance Level: Masters Duration: 2 years (Semester system)

Eligibility:

Candidates with the following qualifications are eligible for entrance Test Examination:

- A minimum Bachelor's degree in IT with II division related discipline or equivalent qualifications from a recognized University/Institute.
- Bachelor's degree in any discipline and 2 year proved working experience on e-Government or IT or corporate governance.

Full Marks:	100
Numbers of Questions (Objective Based) no negative marking system:	100
Durations of Examination:	2 Hours
Courses Coverage for *Entrance Examination*	
Information and Communication Technology (25) • Basic Knowledge of e-Governance • Fundamental of IT • Word Processor, Spreadsheet and Presentation application • Concept of Network, Internet and Email • Basic Security on Computer system • Recent Development of ICT	**50%**
General Knowledge (10) + Mathematics (15) • Basic intelligence quotient • Knowledge of Governance system in Nepal • Basic Mathematics.	**25%**
Communication skill (25) • Basic of grammar in English language • Basic Writing Skill in English language • Basic Vocabulary	**25%**

Program Name: MPhil in Information and Communication Technology (MPhil in ICT)

- **Eligibility:** Master's degree in IT or IT related subjects or equivalent qualifications from a recognized University/Institute.

Full Marks:	100
Numbers of Questions (Objective Based) no negative marking system:	100
Durations of Entrance Examination:	2 Hours
Courses Cover:	100%
Programming Concept and Programming Logic (25) • Variables and constraint. • Condition and loop concept. • Array, structure and pointer. • Stack, Ques and List. • Sort, search and Tree.	25%
Database (15) + Information System (10) • Concept of Database and Models • Relational Database, Relational Algebra and Normalization. • Basic SQL • Concept of Distributed Database • File and Index • Transactional Processing, concurrency control and recovery • Software Development Life Cycle • Requirement Analysis • Software Testing.	25%
Computer Network and Architecture (25) • Communication Media and Network Architecture and OSI and TCP/IP • Network Security and IPv4 • Modulation Techniques and Switching Techniques • Boolean Algebra and Fundamental of processor • Memory Organization and I/O Structure **Concept of Research (25)** (Research Methodology) • Foundation of Research and Problem Identification & Formulation • Research Design/Architecture • Qualitative and Quantitative Research • Data Analysis and Interpretation of Data and Proposal Writing • Research Tools	25% 25%