

**Nepal Open University**  
 Faculty of Science, Health and Technology  
**Courses for Entrance Examination**  
 2075/76

<b>Program Name: Masters in e-Governance</b>		<b>Level: Masters</b>	<b>Duration: 2 years (Semester system)</b>
<b>Eligibility:</b>			
Candidates with the following qualifications are eligible for entrance Test Examination:			
<ul style="list-style-type: none"> <li>• A minimum Bachelor's degree in IT with II division related discipline or equivalent qualifications from a recognized University/Institute.</li> <li>• Bachelor's degree in any discipline and 2 year proved working experience on e-Government or IT or corporate governance.</li> </ul>			
Full Marks:			100
Numbers of Questions (Objective Based) no negative marking system:			100
Durations of Examination:			2 Hours
<b>Courses Coverage for Entrance Examination</b>			
<b>Information and Communication Technology (25)</b>			<b>50%</b>
<ul style="list-style-type: none"> <li>• Basic Knowledge of e-Governance</li> <li>• Fundamental of IT</li> <li>• Word Processor, Spreadsheet and Presentation application</li> <li>• Concept of Network, Internet and Email</li> <li>• Basic Security on Computer system</li> <li>• Recent Development of ICT</li> </ul>			
<b>General Knowledge (10) + Mathematics (15)</b>			<b>25%</b>
<ul style="list-style-type: none"> <li>• Basic intelligence quotient</li> <li>• Knowledge of Governance system in Nepal</li> <li>• Basic Mathematics.</li> </ul>			
<b>Communication skill (25)</b>			<b>25%</b>
<ul style="list-style-type: none"> <li>• Basic of grammar in English language</li> <li>• Basic Writing Skill in English language</li> <li>• Basic Vocabulary</li> </ul>			
<b>Program Name: MPhil in Information and Communication Technology (MPhil in ICT)</b>			
<ul style="list-style-type: none"> <li>• <b>Eligibility:</b> Master's degree in IT or IT related subjects or equivalent qualifications from a recognized University/Institute.</li> </ul>			
Full Marks:			100
Numbers of Questions (Objective Based) no negative marking system:			100
Durations of Entrance Examination:			2 Hours
<b>Courses Cover:</b>			<b>100%</b>
<b>Programming Concept and Programming Logic (25)</b>			<b>25%</b>
<ul style="list-style-type: none"> <li>• Variables and constraint.</li> <li>• Condition and loop concept.</li> <li>• Array, structure and pointer.</li> <li>• Stack, Ques and List.</li> <li>• Sort, search and Tree.</li> </ul>			

<p><b>Database (15) + Information System (10)</b></p> <ul style="list-style-type: none"> <li>• Concept of Database and Models</li> <li>• Relational Database, Relational Algebra and Normalization.</li> <li>• Basic SQL</li> <li>• Concept of Distributed Database</li> <li>• File and Index</li> <li>• Transactional Processing, concurrency control and recovery</li> <li>• Software Development Life Cycle</li> <li>• Requirement Analysis</li> <li>• Software Testing.</li> </ul>	25%
<p><b>Computer Network and Architecture (25)</b></p> <ul style="list-style-type: none"> <li>• Communication Media and Network Architecture</li> <li>• OSI and TCP/IP</li> <li>• Network Security</li> <li>• IPv4</li> <li>• Modulation Techniques</li> <li>• Switching Techniques</li> <li>• Boolean Algebra</li> <li>• Fundamental of processor</li> <li>• Memory Organization</li> <li>• I/O Structure</li> </ul>	25%
<p><b>Concept of Research (25)</b> (Research Methodology)</p> <ul style="list-style-type: none"> <li>• Foundation of Research</li> <li>• Problem Identification &amp; Formulation</li> <li>• Research Design/Architecture</li> <li>• Qualitative and Quantitative Research</li> <li>• Data Analysis</li> <li>• Interpretation of Data and Proposal Writing</li> <li>• Research Tools</li> </ul>	25%