

Nepal Open University  
 Faculty of Science, Health & Technology  
*Masters in Geoinformatics*  
 Syllabus for Entrance Test

Full Marks:	100
Number of Questions (Objective Based)	100
Medium of Test	English
Duration of Examination:	2 Hours
1. Elementary Mathematics = 25	Measurement of percentage, area, volume, simple quadratic equations, height & distance; solution of triangles, properties of triangles, circle; probability, mean, mode & standard deviation; basic geometry; basic knowledge of plane & polar co-ordinates systems, equation of straight line, circle, parabola; concept of vector, differentiation, limit & continuity; maxima & minima.
2. Optics & Electronics = 10	Fundamental knowledge of light ray, mirrors, lens, prism, spectrum, frequency, wavelength, radiation
3. Surveying & Mapping = 50	Basic knowledge of surveying & mapping, fundamental knowledge of GIS (definitions, data acquisition techniques, sensor systems ,spatial and non-spatial data; data transformation, visualization of spatial data, map design, data classification & spatial analysis); introduction to Global Navigation Support System (GNSS); Basic knowledge of digital image processing. Fundamental knowledge of remote sensing, application area of remote sensing and GIS (Forestry, Agriculture, Environmental Science, Disaster, Land Classification & Human Settlement).
4. General Knowledge = 5	Topography of Nepal, resources of Nepal; geography of World & Nepal, population, , professional organizations: (FIG, ISPRS, NASA, NRSPS, Nepal GIS Society etc.)
5. Communication skill = 10	Basic of grammar in English language, basic writing skill, English language, basic vocabulary, basic knowledge of computer skills.