

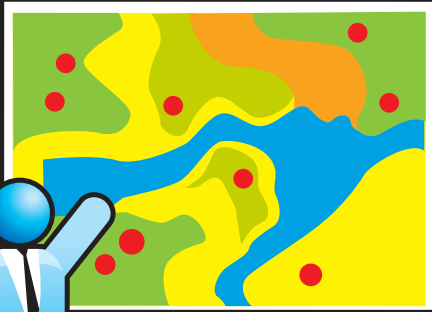
## INTRODUCTION

The M.Sc. programme in GIS and Remote Sensing offered through the Department of Geography by the Faculty of Graduate Studies of University of Sri Jayewardenepura, seeks to provide a sound theoretical and practical knowledge in the latest Geographic Information technologies.

The goal of this M.Sc. Degree Programme is to produce highly qualified, motivated graduates who have been trained in Geographical Information Systems, Remote Sensing, Global Positioning Systems and all the related state of the art technologies. In this highly interdisciplinary Masters course, the students will be exposed to the cutting edge of understanding from a range of subject areas, taught by well experienced, highly qualified, versatile and diverse academic staff. The course particularly focuses on conveying new approaches to data processing, analysis and interpretation as well as the use of innovative technologies.

This is a weekend course, taught over 02 years, and running into four semesters. During the first three semesters, students will establish a breadth of necessary skills in a number of core modules worth a total of 42 credits. In the last semester, the learning will be applied in the individual dissertation worth an additional 18 credits.

After completing the Masters Degree the students will be able to explain the principles, theories, tools and techniques of Geographic Information technologies. They also will be skilled in analyzing, planning, modeling and creatively & strategically solving Multifaceted geospatial problems encountered in different fields through application of specialized knowledge of geographic information technologies.



## COURSE UNITS

### SEMESTER I

- GIS 1110 Fundamentals of Geographic Information Systems (GIS)
- GIS 1120 Fundamentals of Remote Sensing
- GIS 1130 GPS and Equivalent Technologies
- GIS 1140 Introduction to Database Management Systems
- GIS 1150 Cartography for GIS
- GIS 1160 Digital Photogrammetry

### SEMESTER II

- GIS 1210 Advanced Technologies in GIS
- GIS 1220 Digital Image Processing and Advanced Remote Sensing
- GIS 1230 Advanced Database Management Systems
- GIS 1240 Applications of GPS and Equivalent Technologies
- GIS 1250 Fundamentals of Web GIS and Mobile GIS
- GIS 1260 Geo statistics

### SEMESTER III

- GIS 2110 Spatial Analysis & Modeling
- GIS 2120 Applications of GIS and Remote Sensing
- GIS 2130 Applications of Web GIS and Mobile GIS
- GIS 2140 Programming in GIS
- GIS 2150 Advanced Mapping Technologies
- GIS 2160 Research Methodology and Scientific Reporting
- GIS 2170 Seminar on Applications of GIS and Remote Sensing

### SEMESTER IV

- GIS 2290 Research Project on RS and/or GIS Applications (Independent Research Thesis)

## DURATION .....

Two Academic years (04 Semesters)  
Lectures and Practicals are conducted during weekends

## COURSE FEE .....

Sri Lanka	Rs.175,000
SAARC Countries	US \$ 3,800
Other Countries	US \$ 6,900

## ELIGIBILITY.....

A Degree or equivalent qualifications from a recognized University **OR**

Professional or any other qualifications recognized by the university **AND**

A good command in both Spoken and Written English

**Special Enrollment:** Officers in the Rank of Captain and above in the SL Army or the Equivalent Ranks in the SL Navy and SL Air Force, and the Officers in the Rank of Inspector and above in the SL Police, holding on the job professional training or qualifications relevant to the above ranks **WITH**

15 years of experience after commissioning into the Captain in the SL Army or the Equivalent Ranks in the SL Navy, SL Air Force, and Inspectorate in the SL Police, **AND**

A good command in both Spoken and Written English

