Introduction GIS (2 weeks: 10 days)

Intakes: 15th Feb, 8th March, 12th April, 3rd May, 7th June, 5th July, 2nd August, 6th September, 4th October, 1st Nov. 2021

RCMRD is an intergovernmental organization established in 1975 under the auspices of the United Nations, economic commission of Africa (UNECA) and the African Union (AU). It draws its membership from eastern and southern African countries and currently has 20 contracting members. It promotes and builds capacities on Geo Information technologies to her member states. For info, please visit www.rcmrd.org The training shall be held at RCMRD

Target Group
The qualifying participants shall be Land surveyors, Geodesist, Engineers, Geomaticians, Geo-informationists, Cartographers, Geologist, geophysicist, and others.

Cost: USD 850 per head, tuition fee only

Course Objectives
Provide clear information GIS principles, data types, techniques and mapping approach
Acquire practical knowledge on use of mapping software and produce maps using input data

Course Content
❖ Introduction GIS: Definition and data types
❖ Basics of how GIS works
❖ Table Queries: Data base selection by location, Attribute and by graphics
❖ Mapping concepts and Layer Symbology
❖ Data Editing and Digitization
❖ Basics of Geo processing: Buffer, Clipping, merging
❖ Working with Google earth
❖ Basic analysis: Data interpolation, Creating contours
❖ Geo referencing scanned maps, and Vector layers
❖ Map making skills, Map design, Export

For applications and more information contact, sweta@rcmrd.org
+254 724 523 099/ +254 734 561 197
Instructor Led Trainings

Get individual attention, direct peer interaction, professional networking, and immediate response to your questions with our instructor-led training; a combination of personal delivery, hands-on experience, and class participation in creating a rich learning environment. Instructor-led courses are offered at our fully equipped training laboratories at RCMRD. For more info, please visit [www.rcmrd.org](http://www.rcmrd.org)

Target Group

Qualifying participants include Foresters, Environmentalists, Urban planners, Surveyors, Geo-informaticians, Cartographers, Geologist, geophysicist, Resource managers and other Earth Research Scientists

Course Objectives

Provide course participants with necessary skills to process satellite imagery
Acquire practical knowledge on interpretation of satellite imagery and generate land cover products
Generate change detection maps from historical datasets

Course Content

❖ Introduction to Remote Sensing software (Erdas/Envi/impact tool/QGIS)
❖ Basics of how RS works, image bands, band combinations and mosaics
❖ Geometric correction and spatial enhancement
❖ Image classification and generation of land cover products and area computation, segmentation and post classification.
❖ Vegetation indices (NDVI, NDWI, EVI)
❖ Change detection
❖ Climatic variables analysis
❖ Planning for remote sensing fieldwork
❖ Use of GPS for field verification
❖ Post field work analysis
❖ Student Project

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Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi, Kenya

Introduction to Remote Sensing (2 weeks: 10 days)
March 18th, May 18th, July 20th, Sept 14th, October 19th.

Cost: USD 850 per head, tuition fee

Leonard SWETA - RCMRD Geo-Information Training Coordinator / Principal trainer - sweta@rcmrd.org
Tel: 254-20-8560227/8561775/8560265, 8560654 or Cell Phone +254 723 786 161/+254735 981 098
# 2021 Intake Schedules

**BASIC COURSES:**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Duration</th>
<th>Dates Intake 2021</th>
<th>Tuition fee/person USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic Information System (GIS) using ArcGIS or QGIS</td>
<td>2 weeks</td>
<td>15th Feb, 8th March, 12th April, 3rd May, 7th June, 5th July, 2nd August, 6th September, 4th October, 1st Nov. 2021</td>
<td>850</td>
</tr>
<tr>
<td>Tailored Geographic Information System (GIS) using ArcGIS or QGIS</td>
<td>1 week</td>
<td>15th Feb, 8th March, 12th April, 3rd May, 7th June, 5th July, 2nd August, 6th September, 4th October, 1st Nov. 2021</td>
<td>425</td>
</tr>
<tr>
<td>Global Positioning System (GPS) for general applications &amp; Mobile Mapping</td>
<td>5 days</td>
<td>March 22nd, May 17th, July 19th, Sept 20th, Nov 22nd</td>
<td>425</td>
</tr>
<tr>
<td>Principles of Earth Observation (Remote Sensing)</td>
<td>2 weeks</td>
<td>March 22nd, May 17th, July 19th, Sept 20th, Nov 22nd</td>
<td>850</td>
</tr>
<tr>
<td>Application of Remote Sensing, GIS and GPS in Natural Resources Management</td>
<td>4 weeks</td>
<td>April 5th, June 7th, Sept 20th</td>
<td>1700</td>
</tr>
<tr>
<td>Geospatial database development and management for use in Planning process and Decision-making using GIS, Remote Sensing and GPS</td>
<td>4 weeks</td>
<td>June 7th, Sept 6th</td>
<td>1700</td>
</tr>
<tr>
<td>GIS, Mobile Mapping &amp; GPS, for Monitoring and Evaluation</td>
<td>2 weeks</td>
<td>June 15th</td>
<td>850</td>
</tr>
<tr>
<td>Spatial Analysis/3D analysis using ArcGIS</td>
<td>1 week</td>
<td>July 26th, Sept 20th, Oct 18th</td>
<td>850</td>
</tr>
<tr>
<td>Introduction to Digital Cartography and GIS Mapping</td>
<td>2 weeks</td>
<td>August 2nd</td>
<td>850</td>
</tr>
<tr>
<td>Relational Data base Management Systems (RDBMS) MS Access/SQL Sever</td>
<td>2 weeks</td>
<td>April 19th, Oct 11th</td>
<td>850</td>
</tr>
<tr>
<td>Tailor made courses in the above listed courses can also be organized to meet organization needs Minimum number of candidates in a class is ten (10)</td>
<td>Any time &amp; consultative</td>
<td></td>
<td>850</td>
</tr>
</tbody>
</table>

**Minimum number of candidates in a class is ten (10).**
Undergraduate University Students with valid Student ID | 2 weeks | Basic Courses in GIS or RS | 425 (students Offer)

Note: 1. Organizations intending to train at least 10 staff in any of the above or below courses, the class can be organized within an advance notice of one week.

2: International Students: Sponsors to meet students air tickets (return), Enough Daily subsistence allowances for accommodation, meals, local travel and medical cover.

3: GIS and Remote Sensing/GPS classes students–1 day field trip at US$200/person.

RCMRD PROJECT SERVICES:
RCMRD offers competitive Project services in the fields of its expertise that include:
- Database Development for Decision Support System; Use of GIS in the Planning and Management of Services and Assets, Data automation,
- Needs Assessment in Geo-Information Technologies, GIS Application in the Management of Resources, Natural
- Resources Assessment and Management, Design and Development of GIS in small, medium and Large Enterprises, Mapping for Urban Planning and Development, Cadastral Surveys, Resource Mapping (vegetation, soil, minerals and landuse/cover), Natural hazards mapping and forecasting, Engineering surveys (roads, pipelines, dams, etc), Digital Photogrammetric Mapping, Information Technology solutions, Service and Repair of Surveying and Mapping Equipment, and Tailor-made courses amongst other services.
- Development of data collection applications for compatible with Google Play Store
- Web Mapping applications

Google Link to RCMRD Training Facility
From JKIA
https://goo.gl/maps/ue4Ha4MfVgzkE14m6

FROM NAIROBI CITY CENTRE

https://goo.gl/maps/asCAk5TCX3jnyCCQ8
Contact person:

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