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

Introduction GIS (2 weeks: 10 days)

Intakes: 20th Feb, 7th March, 6th, April 3rd May 8th, June 5th, July 3rd, August 7th, September 4th, October 2nd, Nov 6th. 2023

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 other Earth *Research Scientists*

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



Cost: USD 850 per head, tuition fee only

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
- Sasics 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, lsweta@rcmrd.org or rcmrd@rcmrd.org +254(0724523099)





Marc 20th, May 22nd, July 17th, Sept 18th, October 16th.

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

Target Group

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





Cost : USD 850 per head, tuition fee

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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MEMBER STATES: Botswana, Burundi, Comoros, Ethiopia, Kenya, Lesotho, Malawi, Mauritius, Namibia, Rwanda, Seychelles, Somali, South Africa, South Sudan, Sudan, Swaziland, Tanzania, Uganda, Zambia & Zimbabwe. P.O. Box 632-00618 Roysambu Kasarani, Nairobi Kenya **Phone:** +254 020 2680748/2680722 Mobile: +254 723 786161 **Fax:** +254 020 2680747 **Email:** rcmrd@rcmrd.org **www.rcmrd.org**

Contact person:

Leonard SWETA - RCMRD Geo-Information Training Coordinator / Principal trainer - <u>Isweta@rcmrd.org/+254 -724-523-099</u>

2023 Intake Schedules

BASIC COURSES:	Duration	Dates Intake 2023	Tuition fee/person
Use of drone for Geospatial data acquisition and Processing (No Pilot licence issued)	2 Weeks	March14, May 16 & August 15	850 <i>usd</i>
Geographic Information System (GIS) using ArcGIS or QGIS Tailored Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks 1 week	20th Feb, 7th March, 6th , April 3rd May 8th, June 5th, July 3rd, August 7th, September 4th, October 2nd , Nov 6th. 20th Feb, 7th March, 6th , April 3rd May 8th, June 5th, July 3rd, August 7th, September 4th, October 2nd , Nov 6th.	850 425
Global Positioning System(GPS) for general applications & Mobile Mapping	5 days	March 20 th , May 15 th , July 17 th , Sept 18 th , Nov 20 th	425
Principles of Earth Observation (Remote Sensing)	2 weeks	Marc 20th , May 22nd, July 17th , Sept 18th, October 16th March 13. May 15 & August 14	850
acquisition and Processing (No Pilot license issued)	- Week		
Application of Remote Sensing, GIS and GPS in Natural Resources Management.	4 weeks	April 3 rd , June 5 th , Sept 4 th ,	1700
Geospatial database development and management for use in Planning process and Decision-making using GIS, Remote Sensing and GPS	4 weeks	June5 th , Sept 4 th ,	1700
GIS, Mobile Mapping & GPS, for Monitoring and Evaluation	2 Weeks	June 19 th	850
Spatial Analysis/3D analysis using ArcGIS	1 week	April 24 th , July 24, Sept 18 th	850
Introduction to Digital Cartography and GIS Mapping	2 weeks	July 3f ^{et}	850

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Relational Data base Management Systems(RDBMS) MS Access/SQL Sever	2 weeks	April 17th, Oct 9th.	850
Tailor made courses in in the above listed courses can also be organized to meet organization needs Minimum number of candidates in a class is ten (10).		Any time & consultative	850
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/asCAk5TCX3jnvCCQ8

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Contact person:



Monthly Course Catalog for Non Member states

Month	Course	Duratio n	Dates Intake 2023	Tuition fee/person
				USD
February	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	20feb-3 rd March	USD 850
March	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	6-17	USD 850
	Global Positioning System(GPS) for general applications & Mobile Mapping	1 week	20-24	USD 425
	Principles of Earth Observation (Remote Sensing)	2 weeks	20-31 ^{≈t}	USD 850

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	Use of drone for Geospatial data acquisition and Processing (No Pilot license issued)	1 week	13-17	USD 850
April	Spatial Analysis/3D analysis using ArcGIS	1 week	24-28	USD 850
	Relational Data base Management Systems(RDBMS) MS Access/SQL Sever	2 weeks	<i>17-28</i>	USD 850
	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	3-13	USD 850
	Application of Remote Sensing, GIS and GPS in Natural Resources Management.	4 Weeks	3-28	USD 1700
Мау	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	2-12	USD 850
	Global Positioning System(GPS) for general applications & Mobile Mapping	1 week	15-19	USD 425
	Principles of Earth Observation (Remote Sensing)	2 weeks	15-26	USD 850
	Use of drone for Geospatial data acquisition and Processing (No Pilot license issued)	1 week	15-19	USD 850
June	Application of Remote Sensing, GIS and GPS in Natural Resources Management.	4 weeks	5-30	USD 1700
	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	5-16	USD 850
	GIS, Mobile Mapping & GPS, for Monitoring and Evaluation	2 weeks	12-23	USD 850
	Geospatial database development and management for use in Planning	4 weeks	5-30	USD 1700
July	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	3-14	USD 850
	Global Positioning System(GPS) for general applications & Mobile Mapping	1 week	17-21	USD 425

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	Spatial Analysis/3D analysis using ArcGIS	1 week	17-28	USD 850
August	Geographic Information System (GIS) using ArcGIS or QGIS	2 Weeks	7-17	USD 850
	Introduction to Digital Cartography and GIS Mapping	2 weeks	1-11	USD 850
	Use of drone for Geospatial data acquisition and Processing (No Pilot licence issued)	1 week	14-18	USD 850
September	Spatial Analysis/3D analysis using ArcGIS	1 week	18-22	USD 850
	Geographic Information System (GIS) using ArcGIS or QGIS	2 Weeks	4-15	USD 850
	Geospatial database development and management for use in Planning process and Decision-making using GIS, Remote Sensing and GPS	4 Weeks	4-29	USD 1700
	AFREF and Data Processing for Precise Applications	1 Week	11-15	425 USD
	Principles of Earth Observation (Remote Sensing)	2 weeks	18-29	USD 850
	Global Positioning System(GPS) for general applications & Mobile Mapping	1 week	18-22	USD 425
	Application of Remote Sensing, GIS and GPS in Natural Resources Management.	4 Weeks	4-29	USD 1700
	Geospatial database development and management for use in Planning	4 weeks	4-29	USD 1700
October				
	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	2-13	USD 850
	Principles of Earth Observation (Remote Sensing)	2 weeks	16-27	USD 850
	Tailored Geographic Information System (GIS) using ArcGIS or QGIS	1 week	2-13	USD 425

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	Relational Data base Management Systems(RDBMS) MS Access/SQL Sever	2 weeks	9-20	USD 850
	Principles of Earth Observation (Remote Sensing)	2 weeks	16-27	USD 850
November	Geographic Information System (GIS) using ArcGIS or QGIS	2 weeks	6-17.	USD 850
	Global Positioning System(GPS) for general applications & Mobile Mapping	1 week	20-24	USD 425