Garnet
GLOBAL TRAINING CENTER

GGT-GI-133
Course brochure

GIS, Geospatial & Remote Sensing

Spatial Statistics and Geostatistics

الإحصاء المكاني والإحصاء الجيولوجي

Duration	Format	Language	Level
5 days (35 h) or 10 days (70 h)	**Classroom / online / in-house**	**English or Arabic**	**Advanced**

Overview

Spatial Statistics and Geostatistics is a practical GIS, Geospatial & Remote Sensing program. Measure spatial patterns and interpolate surfaces with spatial statistics, variograms and kriging. Every day pairs short theory sessions with hands-on exercises on real data and case studies, so participants leave with methods and templates they can use at work straight away. Join a public session in one of 20 cities or live online, in English or Arabic, or run it in-house with examples from your own projects.

What you will be able to do

- Apply spatial patterns and autocorrelation (Moran's I) at work.
- Apply hot spot and cluster statistics at work.
- Apply spatial regression (OLS, GWR) at work.
- Apply variograms and kriging at work.
- Apply uncertainty and validation at work.

Who should attend

GIS analysts and technicians, surveyors, planners, engineers, environmental specialists and managers who use spatial data.

5-day outline

Day 1 — **Spatial patterns and autocorrelation (Moran's I)**
- Concepts, methods and standards
- Hands-on exercise

Day 2 — **Hot spot and cluster statistics**
- Worked examples from real projects
- Practical workshop

Day 3 — **Spatial regression (OLS, GWR)**
- Tools, templates and best practice
- Case study and group discussion

Day 4 — **Variograms and kriging**
- Concepts, methods and standards
- Hands-on exercise

Day 5 — **Uncertainty and validation**
- Worked examples from real projects
- Capstone exercise and action plan

10-day option: adds Advanced methods and tools, Industry case studies, Integration with other systems and data, Quality, standards and governance, Capstone project and presentation.

Fees per participant

5-day classroom	**USD 4,750**
5-day online	**USD 2,950**
10-day classroom	**USD 8,950**
10-day online	**USD 5,450**
In-house at your premises	**Quotation per group**

Fees exclude VAT and include materials and the certificate of completion; classroom fees include lunch and refreshments.

Certificate

Certificate of completion stating 35 or 70 contact hours for participants who attend at least 90% of sessions and pass the final assessment.

Upcoming sessions

Dates	Format	City	Language
18–22 Jan 2027	5-day classroom	Kuala Lumpur	English
7–11 Jun 2027	5-day classroom	Amsterdam	English
11–22 Jul 2027	10-day classroom	Doha	English
2–6 Aug 2027	5-day online	Live online	English
12–16 Mar 2028	5-day classroom	Kuwait City	Arabic
23–27 Jul 2028	5-day classroom	Riyadh	English

Full schedule to 2030 on the course page. We can also run it on your dates, in your city or in-house.

Register or ask
WhatsApp +971 56 674 7382

training@garnettrainings.com
info@garnettrainings.com

garnettrainings.com
Sharjah Publishing City Free Zone, UAE