The book is written by two QGIS certified lecturers:

Hans van der Kwast
Hans van der Kwast is senior lecturer at IHE Delft. He received a Master’s degree in Physical Geography at Utrecht University in the Netherlands in 2002 with a specialization in GIS and Remote Sensing. In 2002 he was appointed at the Faculty of Geosciences of Utrecht University as a junior lecturer in GIS. In 2009 defended his PhD at Utrecht University on the integration of remote sensing in spatial dynamic modelling of soil moisture using data-assimilation techniques implemented in the PCEMaster Python framework. From 2007 to 2012 he worked at the Flemish Institute for Technological Research (VITO) where he was appointed as a researcher in spatial dynamic environmental modelling. He participated in projects related to water quality modelling, land-use change modelling and the use of remote sensing for urban applications. As a guest lecturer he supervised BSc students in a hydrological and geomorphological fieldwork as part of the curriculum Earth Sciences at Utrecht University. Since April 2012 he has been working at IHE Delft. In his teaching he actively promotes the use of Free and Open Source Software (FOSS) by young professionals from the Global South. He is also involved in many research and capacity development projects related to GIS, remote sensing, spatial data infrastructures, Python, open data and citizen science.

Kurt Menke
A former archaeologist, Kurt Menke is a geospatial generalist based out of Albuquerque, New Mexico, USA. He received a Master’s degree in Geography from the University of New Mexico in 2000. That same year he founded Bird’s Eye View (https://www.birdseyeviewgs.com/) to apply his expertise with GIS technology towards solving the world’s mounting ecological, economic, and social issues. His areas of focus are public health, conservation and education. Kurt Menke has a broad skillset. He is a spatial analyst, cartographer, web map developer, trainer/teacher and author. He has a long history using QGIS. He first downloaded it in 2005 when it was at version 0.7. Seamus. He is an open source GIS authority, having co-authored Mastering QGIS for Packt Publishing and authoring Discover QGIS 3.x through Locate Press. He can frequently be found speaking at FOSS4G and QGIS conferences. In 2015 he became an OsGeo Charter Member. He is an experienced FOSS4G educator and is a co-author of the GeoAcademy. He is now a QGIS Certified Instructor. His offerings range from a semester long Intro to FOSS4G course he originally developed in 2008, to short courses and professional workshops. In 2015 he was awarded the Global Educator of the Year Team Award by GeoForAll as part of the GeoAcademy team.

IHE Delft is the largest international graduate water education facility in the world and is based in Delft, the Netherlands.

Since 1957 the Institute has provided water education and training to professionals from over 160 countries, the vast majority from the global south. Also, numerous research and institutional strengthening projects are carried out throughout the world.

IHE Delft works in partnership to strengthen capacity in the water sector to achieve global sustainable development. Through our overarching work on capacity development, IHE Delft aims to make a tangible contribution to achieving all Sustainable Development Goals in which water is key.

More information about this short course can be found here:
http://www.un-ihe.org/qgis-hydrological-applications

Contact information
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h.vanderkwast@un-ihe.org

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Open Source GIS courses at IHE Delft

IHE Delft offers different options for learning open source GIS.

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All courses cover:
- Georeferencing and digitizing vectors from a scanned map
- Importing tabular data into GIS and spatial interpolation
- Using Open Data
- Styling and map design

OpenCourseWare for QGIS, GDAL and Python

IHE Delft offers several OpenCourseWare courses at https://ocw.un-ihe.org/. These courses allow for free online self-study. For QGIS you can access the courses through http://www.gisopencourseware.org.

In addition to the topics offered in all courses the GIS OpenCourseWare covers:
- Spatial planning using map algebra
- Catchment delineation
- Introduction to DOS and GDAL
- Introduction to Python 3
- Field surveys with QGIS, Mergin and Input
- YouTube channel with lectures and demonstrations

Online course to learn the basics of QGIS

The online course on QGIS as been developed in cooperation with Nieuwland Geo-information. This course gives the benefit of guidance and online assistance to participants of the course, and those who successfully complete the online course will receive an official QGIS certificate. The online course on QGIS was developed with the aim to help students and professionals to apply GIS in their own working environment and at their own pace. Register here for the online course: https://www.learning-gis.com/

The book QGIS for Hydrological Applications – Recipes for Catchment Hydrology and Water Management introduces professionals in the water sector to the state of the art functionality of QGIS 3.x for hydrological applications. The book covers georeferencing and digitizing, importing and joining spreadsheets, spatial interpolation, catchment and stream delineation, map algebra and map design. Each chapter concludes with styling recipes introducing the many features that QGIS offers. The book can also be used as a beginners course, introducing GIS concepts in a problem based learning manner. By purchasing the book you support students to attend FOSS4G and QGIS events. Order the book here http://locatepress.com/hyd

QGIS Certification Programme

IHE Delft is participating in the QGIS Certification Programme. After successful completion of our online and short courses, the participants receive an official QGIS certificate from our certified lecturers. Each certificate contributes 20 Euros to further improve QGIS. For IHE Delft this is a great way to contribute to open source software development.

Short course QGIS for hydrological applications

IHE Delft conducts a wide range of short, intensive and highly specialized courses which are aimed at upgrading and refreshing the knowledge and skills of mid-career professional and senior experts.

This course introduces QGIS as a problem-based learning approach that is centred around acquisition and (pre)processing of data for hydrological applications. The course is designed for professionals (engineers and scientists) active in the water/environment sector, especially those involved in using simulation models for water management and GIS analysts.

For many studies, models are used or developed. During modelling courses, not much attention is paid to the preprocessing of input data and parameters needed for the models. With the skills learned in this course, you will be able to find open access GIS data and more efficiently process your data for your hydrological applications using QGIS and its plugins. The course is taught by certified lecturers.

During the short course, IHE Delft also organises a mapathon in cooperation with the Dutch Red Cross. During the mapathon, you will use your GIS skills to complete mapping tasks in OpenStreetMap for humanitarian aid.

More information about this short course can be found here: http://www.un-ihe.org/qgis-hydrological-applications

For which organizations?
- Academia / knowledge centres.
- Universities and research institutes active in water or related sectors.
- Public sector: Ministries, municipalities, public water operators, river basin organizations and local/regional water authorities.
- Private Sector: Water sector institutions and private water operators.
- Non-profit organizations working in the field of water.

Order the book here http://locatepress.com/hyd

Tailor-made advice and training

IHE Delft provides tailor-made training and advisory services according to your requirements.

The advice or training can:
- Be delivered on-site, or at the IHE Delft premises in Delft, or a combination of the two.
- Range from a course lasting a limited number of days, to a more extensive educational programme.
- Be developed for groups of various sizes and can include participants from one or several organizations, sectors or regions.
- Include one to one or one to group advice; lectures; workshops; group work; presentations; role-plays; case studies and study tours to relevant sites throughout Europe or in the region where the training takes place.

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