Hanze

Programme

Qualification awarded
Bachelor of Science

Length of the programme
48 months

ECTS credits
240

Level of qualification
Bachelor

Mode
Full-time

Language
Dutch, with parts in English

School
Engineering, Life Sciences & ICT

Locations
Groningen

Major Medical Diagnostics

Profile of the programme

No content available

Learning outcomes

Graduates in Biology & Medical Laboratory Research are employed as research or diagnostic technicians in biological and medical laboratories of universities, hospitals, research institutes, industry and public health organizations

The graduate of the Bachelor of Biology & Medical Laboratory Research programme can demonstrate that s/he has achieved the ability to:

Conduct experiments in the Applied Science domain in a way that ensures that demonstrably reliable results are obtained by:
- accurately managing both data and samples;
- making proposals for reagents and equipment and formulate recommendations for future research;
- practicing a range of laboratory techniques and computer software skills;
- establishing a work plan for a number of experiments and apply this plan effectively and efficiently, and make appropriate adaptations;
- conducting experiments accurately and responsibly within a predefined time period.

Perform research in the Applied Science domain which either helps to solve a problem or develop a method, or provides a greater understanding of a subject within his specific working environment, by
- explaining the aim of a study and the research methods used;
- demonstrating research and information retrieval skills and using relevant bibliographic literature;
- independently drafting a work plan and accounting for the preconditions;
- logically and orderly combining results and drawing conclusions in relation to the research question;

The graduate demonstrates various generic competences by:
- taking initiatives to contact colleagues in order to exchange information and communicate conclusions to different levels in the organisation;
- contributing to the guidance and/or development of colleagues;
- showing professional attitude by being a motivated, flexible and valuable colleague;
- interpreting professional and ethical dilemmas and making decisions accordingly;
- critically evaluating own points of view and actions and taking responsibility for them;
- improving his own performance by self-reflection and receiving feedback.

Programme

Major Medical Diagnostics	**credits**
	60
Theme 1 - Cells and Tissues	*15*
BOVP23MDANALIST - The Medical Technician	*5*
BOVP23MDCEL - The Cell	*5*
BOVP23MDWEEFSELS - Tissues	*5*
Theme 2 - Metabolic System	*15*
BOVP23MDSPIJSVRT - Digestion	*5*
BOVP23MDMICROBM - Microbiome	*5*
BOVP23MDURINEWEG - Urinary System	*5*
Theme 3 - Homeostasis and Regulation	*15*
BOVP23MDADEM - Respiration	*5*
BOVP23MDIMMUUN - Immune System	*5*
BOVP23MDHORMONEN - Hormones	*5*
Theme 4 - Blood and DNA	*10*
BOVP23MDBLOED - Blood	*5*
BOVP23MDERFELIJK - Heredity	*5*
Electives	*5*
selection of following courses	

- LSVX23ANATOMIE - Human Anatomy and Physiology: The Human Body under the Magnifying Glass 5
- LSVX23OCTAVEMATL - Programming in Octave/MATLAB 5
- LSVX23PYTHON - Introduction Programming in Python 5
- LSVX24COMMUNICAT - Communication Skills 5
- LSVX24CREATIEF - Creative Writing 5
- LSVX24INDUSTRBIO - Introduction to Industrial Biotechnology 5
- LSVX24INFECTIE - Infectious Diseases 5
- LSVX24INLENERGIE - Introduction to the Energy Transition 5
- LSVX24INLPSY - Introduction to Psychology 5
- LSVX24KLIMAAT - Climate Change and Saline Soils 5
- LSVX24MEDICIJN - Drug Discovery 5
- LSVX25PATIENT - Preparing patients for surgery: diagnostics and care at Nij Smellinghe 5
- LSVX25VOEDING - Healthy, Durable and Safe Food 5

Year 2 60

- Theme 5 - Medical Microbiology 15
  - BOVH24MDPRMICRO - Practical Microbiology 5
  - BOVH24MDMEDMICRO - Medical Microbiology 5
  - BOVH24MDBEROEP1 - Professional Competences 1 5
- Theme 6 - Clinical Chemistry/Hematology 15
  - BOVH24MDPRLABGEN - Practical Laboratory Medicine 5
  - BOVH24MDLABGEN - Laboratory Medicine 5
  - BOVH24MDBEROEP2 - Professional Competences 2 5
- Theme 7 - Medical Genetics 15
  - BOVH24MDPRGEN - Practical Genetics 5
  - BOVH24MDMEDGEN - Medical Genetics 5
  - BOVH24MDBEROEP3 - Professional Competences 3 5
- Theme 8 - Pathology 10
  - BOVH24MDPRHISCYT - Practical Histology and Cytology 5
  - BOVH24MDPATH - Pathology 5
- Electives 5

  selection of following courses
  - LSVX23ANATOMIE - Human Anatomy and Physiology: The Human Body under the Magnifying Glass 5
  - LSVX23OCTAVEMATL - Programming in Octave/MATLAB 5
  - LSVX23PYTHON - Introduction Programming in Python 5
  - LSVX24COMMUNICAT - Communication Skills 5
  - LSVX24CREATIEF - Creative Writing 5
  - LSVX24INDUSTRBIO - Introduction to Industrial Biotechnology 5
  - LSVX24INFECTIE - Infectious Diseases 5
  - LSVX24INLENERGIE - Introduction to the Energy Transition 5
  - LSVX24INLPSY - Introduction to Psychology 5
  - LSVX24KLIMAAT - Climate Change and Saline Soils 5
  - LSVX24MEDICIJN - Drug Discovery 5
  - LSVX25PATIENT - Preparing patients for surgery: diagnostics and care at Nij Smellinghe 5
  - LSVX25VOEDING - Healthy, Durable and Safe Food 5

Year 3 60

- Theme 9 - Medical Diagnostics 15
  - BOVH26MDPROJECT1 - Project 1 10
  - BOVH26MDPATHONC - Oncology and Pathology 5
- Theme 10 - Medical Diagnostics 2 15
  - BOVH26MDPROJECT2 - Project 2 10
  - BOVH26MDHEMAKLIN - Hematology en Clinical Immunology 5
- Electives 30

Year 4 60

- Practical placement 30
  - BOVH26MDSTAGE - Work Placement 30
- Final Project 30
  - BOVH26MDAFST - Final Project 30

Extra Curricular 0

electives

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