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Faculty of Arts and Social Sciences

## Programme Syllabus

Reg.no. HS 2023/1184

### Study Programme in IT, Project Management and ERP Systems

<b>Programme Code:</b>	SGIPA
<b>Programme Title:</b>	Study Programme in IT, Project Management and ERP Systems IT, projektledning och affärssystem
<b>Credits:</b>	180 ECTS
<b>Programme Approval:</b>	The programme syllabus was approved by the Faculty Board of Arts and Social Sciences on 26 October 2023 and applies as of the autumn semester of 2024.
<b>Language of Instruction:</b>	Swedish and English
<b>Education Cycle:</b>	First cycle
<b>Degree Type:</b>	General
<b>Entry Requirements</b>	General entry requirements, plus Mathematics 2a or 2b or 2c and Civics 1b or 1a1 + 1a2.

#### General Information

The programme gives the student a comprehensive foundation in the IT field with a specialisation in systems development, project management and enterprise systems. Studies are based on the principle that information systems are constituted by the interaction between humans, IT systems, and organisations. The potential and limitations of digitalisation are studied theoretically and practically through the application of various methods and models.

Completing the programme prepares the student for working in and eventually managing projects in which information systems are analysed, designed, developed, adapted, acquired, implemented and modified according to specific organisational needs.

The programme is offered by Information Systems at Karlstad Business School. An overall objective at Karlstad Business School is for students to develop their ability to apply academic

skills. Teaching related to sustainable development and gender equality is integrated into all courses at Karlstad Business School. Programme courses are therefore based on course components, assignments and literature that further the development of knowledge about sustainable development and gender equality.

A student can opt to complete the programme with a Higher Education Diploma in Information Systems after two years or move on to a third year for a Degree of Bachelor in Information Systems.

Students who aim for a Degree of Bachelor are able to choose a specialisation in Project Management and Information Systems. The student can customise their studies given the large proportion of optional courses, totalling 30 ECTS credits in semester 5 and 5. Graduates also qualify for second-cycle studies in Information Systems.

### **Programme Outcomes**

For programme completion, students must meet the national degree requirements.

#### National Higher Education Diploma Outcomes

##### *Knowledge and understanding*

For a Higher Education Diploma the student shall

- demonstrate knowledge and understanding in the principal field (main field of study) of the study programme, including awareness of the disciplinary foundation of the field and knowledge of some applicable methodologies in the field.

##### *Competence and skills*

For a Higher Education Diploma the student shall

- demonstrate the ability to search for, gather and critically interpret the relevant information in order to formulate answers to well defined issues in the main field of study,
- demonstrate the ability to present and discuss his or her knowledge with different audiences, and
- demonstrate the skills required to work autonomously with specific tasks in the main field of study.

##### *Judgement and approach*

For a Higher Education Diploma the student shall

- demonstrate knowledge about and be equipped to deal with ethical issues in the main field of study.

##### *Independent project (degree project)*

A requirement for the award of a Higher Education Diploma is completion by the student of an independent project (degree project) in the main field of study.

#### National Degree of Bachelor Outcomes

##### *Knowledge and understanding*

For a Degree of Bachelor the student shall

- demonstrate knowledge and understanding in the main field of study, including knowledge of the disciplinary foundation of the field, knowledge of applicable methodologies in the field, specialised study in some aspect of the field as well as awareness of current research issues.

##### *Competence and skills*

For a Degree of Bachelor the student shall

- demonstrate the ability to search for, gather, evaluate and critically interpret the relevant information for a formulated problem and also discuss phenomena, issues and situations critically,
- demonstrate the ability to identify, formulate and solve problems autonomously and to complete tasks within predetermined time frames,

- demonstrate the ability to present and discuss information, problems and solutions in speech and writing and in dialogue with different audiences, and
- demonstrate the skills required to work autonomously in the main field of study.

#### *Judgement and approach*

For a Degree of Bachelor the student shall

- demonstrate the ability to make assessments informed by relevant disciplinary, social and ethical aspects,
- demonstrate insight into the role of knowledge in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the need for further knowledge and undertake ongoing development of his or her skills.

#### *Independent project (degree project)*

A requirement for the award of a Degree of Bachelor is completion by the student of an independent project (degree project) for at least 15 credits in the main field of study.

### **Programme Structure**

Instruction is provided via web-based distance education.

The programme includes mandatory and optional courses. An optional course is any course offered at Karlstad University or elsewhere. An independent project concludes the programme and is preferably carried out in partnership with a company in the private sector, an organisation in the public sector et cetera.

Students have the opportunity to study optional courses abroad (max. 37.5 ECTS credits).

Different forms of teaching are used within the programme to promote student-centred learning.

Graduates have the opportunity to pursue either a Degree of Master (60 credits) by completing another 60 credits or a Degree of Master (120 credits) by completing another 120 credits.

### **Programme Curriculum**

The programme comprises 120 ECTS credits including at least 60 ECTS credits in information systems or 180 ECTS cr. including at least 90 ECTS credits in Information Systems. Note that the programme courses listed may have somewhat different titles or be offered in a different order than stated below.

In year 1, students take basic courses in Information Systems. Year 2 is a specialisation year with courses in Project Management and ERP Systems. Students who aim for a Higher Education Diploma may conclude their studies in semester 4 with an independent project. Year 3 offers students the opportunity to specialise through optional courses.

#### Semester 1

Mandatory courses totalling 30 ECTS credits

- Business by Web and Web Analytics, 7.5 ECTS credits
- Information Systems and IT, 7.5 ECTS credits
- Introduction to Programming, 7.5 credits
- Enterprise and Information Technology (IT), 7.5 ECTS Credits

#### Semester 2

Mandatory courses totalling 30 ECTS credits

- Acquisition of Information Systems, 7.5 ECTS credits
- Database Design, 7.5 ECTS credits
- Continuation Course in Programming, 7.5 ECTS credits
- Object-Oriented Modeling, 7.5 ECTS credits

Semester 3

Mandatory courses totalling 30 ECTS credits

- Business Simulation and Analytics, 7.5 ECTS credits
- Individuals and Teams in Projects, 7.5 ECTS credits
- General Project Management Methodology, 7.5 ECTS credits
- Basic Business Management for Enterprise Systems, 7.5 ECTS credits

Semester 4

*For a Higher Education Diploma (final semester)*

Mandatory courses totalling 30 ECTS credits

- Enterprise Systems I: Models for Analysis, 7.5 ECTS Credits
- Information Systems - Smaller Thesis Work, 7.5 ECTS credits
- Leadership in Projects, 7.5 ECTS credits
- Project Governance, 7.5 ECTS credits

*For a Degree of Bachelor*

Mandatory courses for 22.5 ECTS credits and optional courses for 7.5 ECTS credits

Mandatory courses (22.5 ECTS credits)

- Enterprise Systems I: Models for Analysis, 7.5 ECTS Credits
- Leadership in Projects, 7.5 ECTS credits
- Project Governance, 7.5 ECTS credits

Optional courses (7.5 ECTS credits), recommended courses

- Enterprise Systems II: Customer-Oriented Models, 7.5 credits
- Information for Business Decisions, 7.5 ECTS credits

Semester 5

Mandatory courses for 15 ECTS credits and optional courses for 15 ECTS credits

Mandatory courses (15 ECTS credits)

- Agile Project Management, 7.5 ECTS credits
- Managing Digital Transformation, 7.5 credits

Optional courses (15 ECTS credits), recommended courses

- Design Patterns, Java, and UML, 7.5 ECTS credits
- Informations Systems: Practical Training, 7.5 ECTS Credits
- Interaction Design, 7.5 ECTS credits

Semester 6

Mandatory courses for 15 ECTS credits and optional courses for 15 ECTS credits

Mandatory courses (15 ECTS credits)

- Information Systems - Bachelor's Thesis, 15 ECTS credits

Optional courses (15 ECTS credits), recommended courses

- Business Development from a Process and Partnership Perspective, 7.5 credits
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- HTML and CSS for Web Development, 5 ECTS credits
- JavaScript for Web Development, 5 ECTS credits
- Serverside Programming in JavaScript, 5 ECTS credits
- Software Architecture, 7.5 ECTS credits
- Informations Systems: Practical Training, 7.5 ECTS Credits

**Title of Qualification**

Higher Education Diploma  
Specialisation: Information Systems

Högskoleexamen  
Inriktning: Informatik

Degree of Bachelor of Science  
Main field of study: Information Systems

Filosofie kandidatexamen  
Huvudområde: Informatik

**Credit Transfer**

According to the Higher Education Ordinance Ch. 6 Sec. 6–8 students have the right to transfer credits and have prior learning recognised upon approval.

**Additional Information**

The local regulations for first and second cycle education at Karlstad University stipulate the obligations and rights of students and staff.

Previous versions of the programme syllabus have been approved:

14 December 2006, reg.no. FAK1 2006/193, applies from the autumn semester 2007

5 March 2008, reg.no. FAK1 2008/43, applies from the autumn semester 2008

5 May 2011, reg.no. FAK1 2011/88, applies from the autumn semester 2011

25 February 2013, reg.no. HS 2013/118, applies from the autumn semester 2013

4 March 2020, reg.no. HS 2020/217, applies from the autumn semester 2020

4 February 2021, reg.no HS 2021/34, valid from the autumn semester of 2021