Webinar #1

Organised by the Mentors (SI@FIN)

Agenda

- Scope of the webinar.
- Introduction to the Study System.
- Introduction to DKE
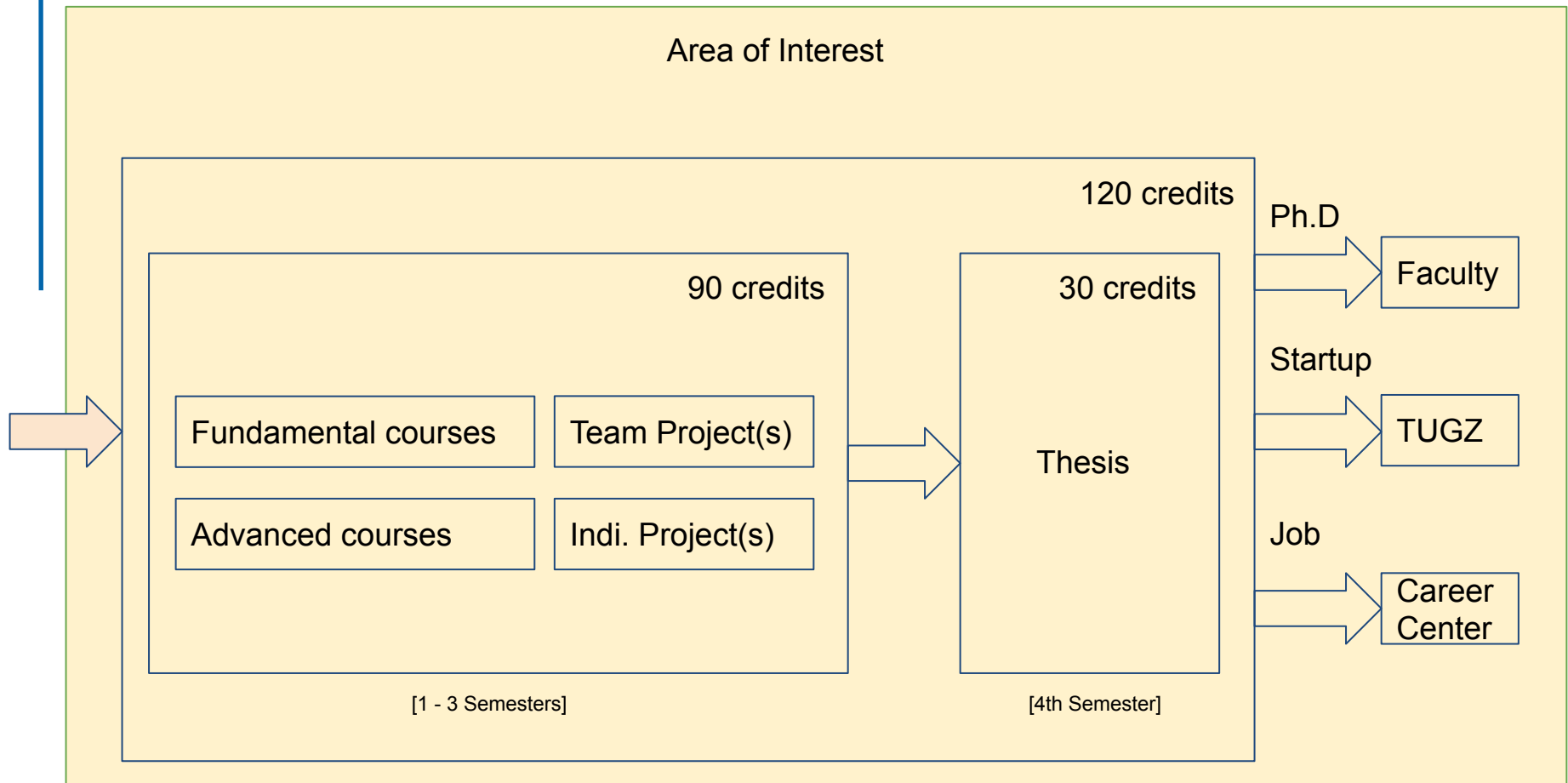- Introduction to DE
- LSF

Scope of the Webinar

- Introduction to study system (DKE,DE)
- Choosing your courses
- Summary on LSF
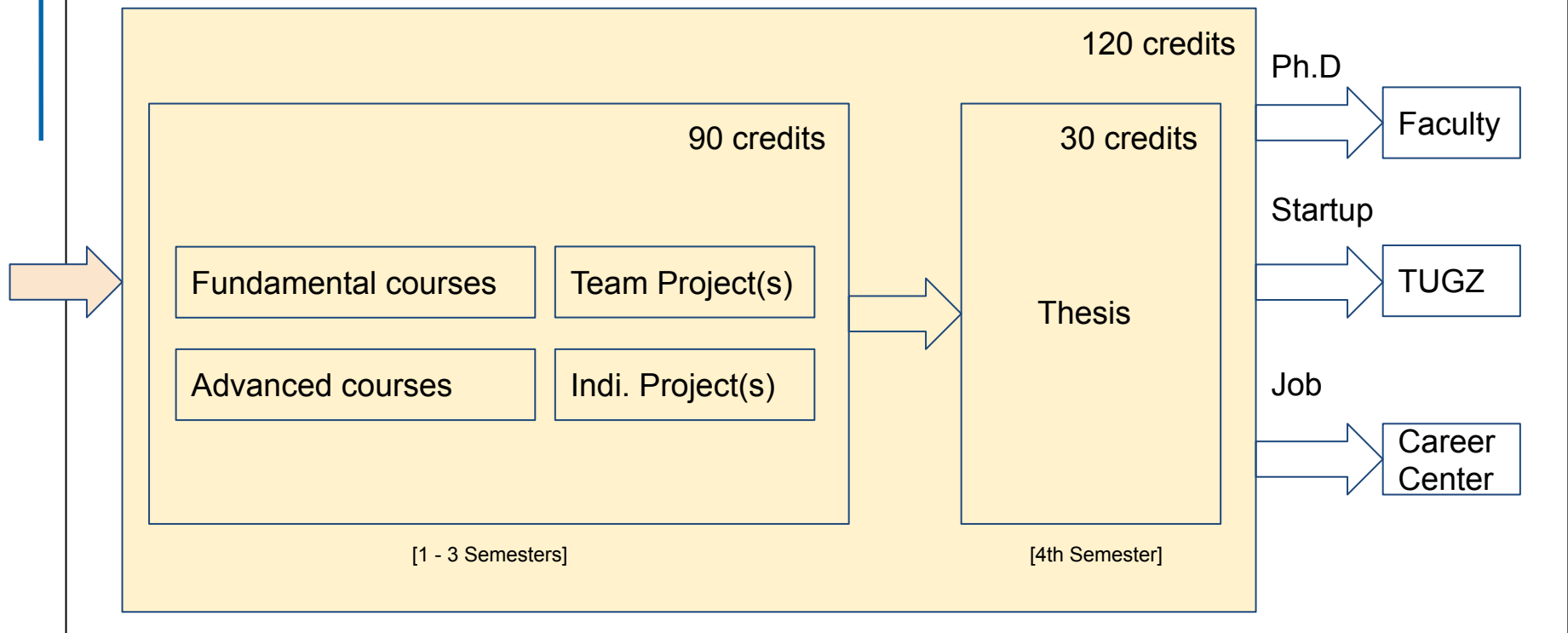
- Visa
- Enrollment
- Accommodation
- student jobs

Introduction to the Study System

Area of Interest

120 credits

90 credits

30 credits

Fundamental courses	Team Project(s)
Advanced courses	Indi. Project(s)

Thesis

Ph.D → Faculty

Startup → TUGZ

Job → Career Center

[1 - 3 Semesters]

[4th Semester]

Note:
What if a student does not have an area of interest?

Introduction to the Study System.

Area of Interest

120 credits

90 credits

Fundamental courses

Team Project(s)

Advanced courses

Indi. Project(s)

30 credits

Thesis

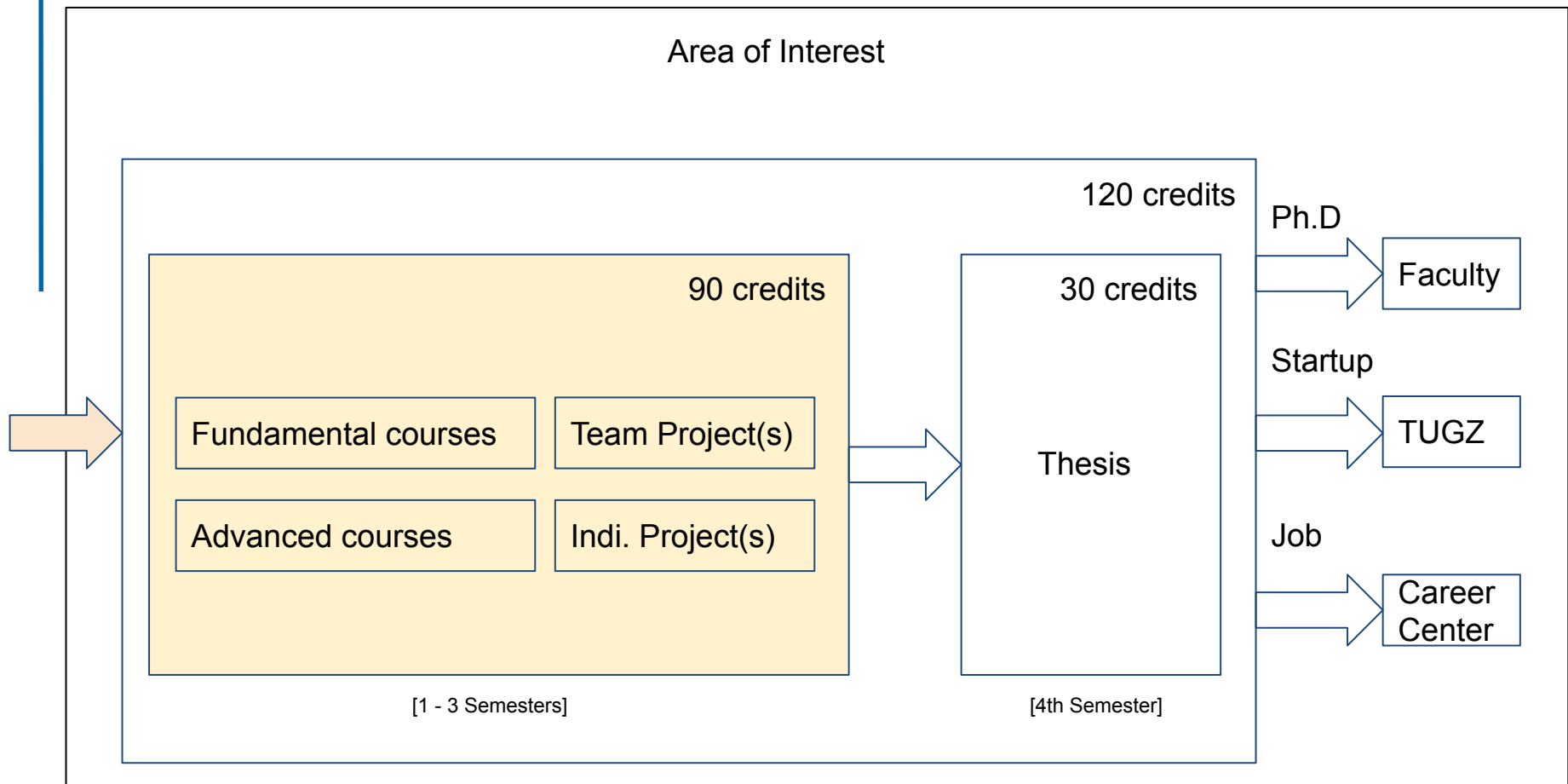[1 - 3 Semesters]

[4th Semester]

Ph.D → Faculty

Startup → TUGZ

Job → Career Center

Note:
- Information about courses: Module Handbook, SI@FIN videos, Course websites.
- At least 90 credits to register thesis. A student can do additional courses, projects.
- As per study regulations, a student should do a minimum of 16 credits in first 2 semesters.
- More about "tracks" → Prof. Spiliopoulou's!

Introduction to the Study System

Area of Interest

120 credits

90 credits

| Fundamental courses | Team Project(s) |
| Advanced courses | Indi. Project(s) |

[1 - 3 Semesters]

30 credits

Thesis

[4th Semester]

Ph.D → Faculty

Startup → TUGZ

Job → Career Center

Note:
- It's a course of 4 semesters in theory. A student can pursue the course till 8 semesters for free.
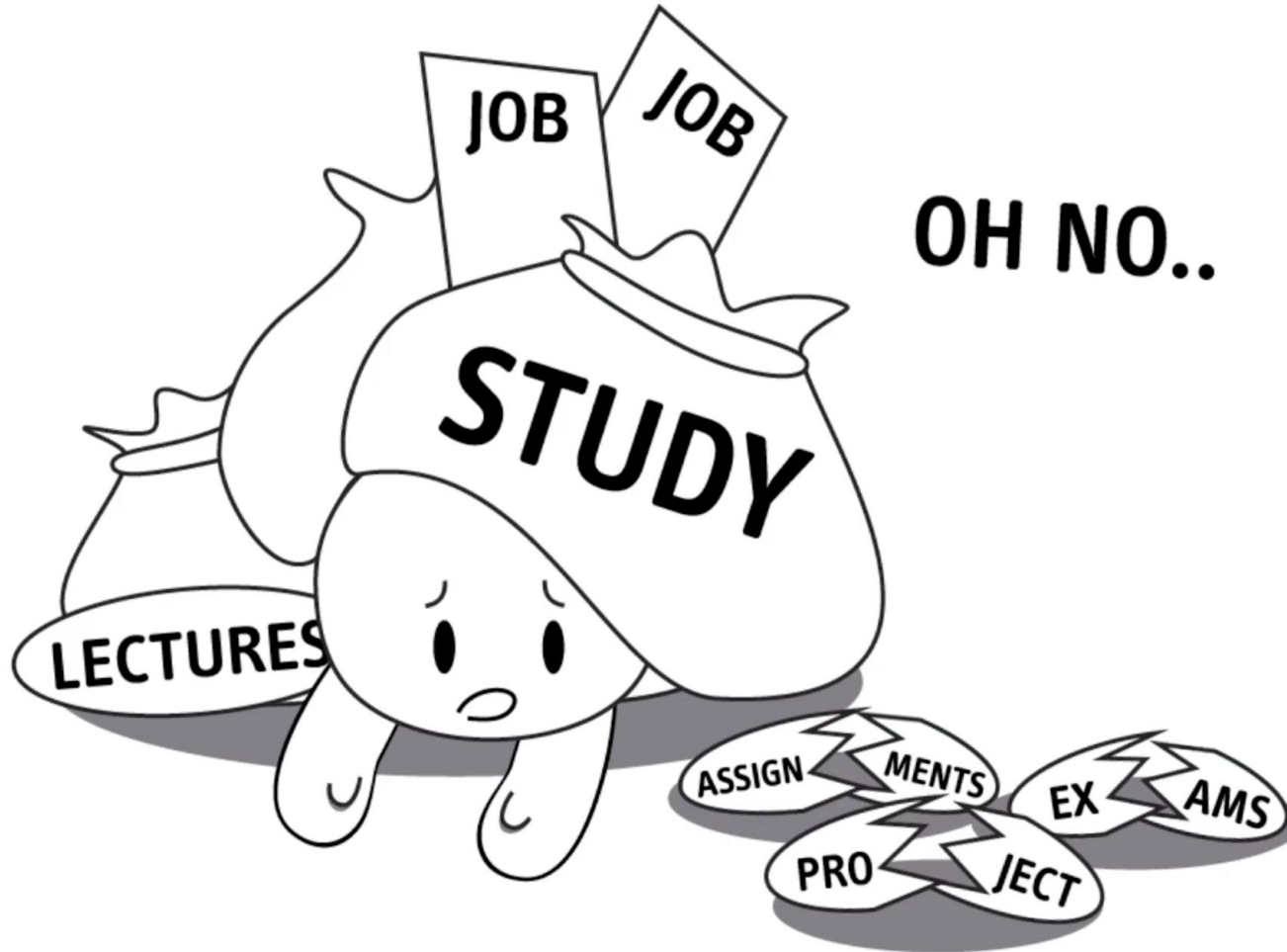
Academic Integration to FIN [SI@FIN]

Credits!

1 credit = 30 hours*
30 credits = 30 x 30 = 900 hours

@ 8 hours/day, 5 days/ week:
23 weeks = around 6 months.

Note:
- Assumption: You have the prerequisite knowledge.

Resource(s)

Introduction to
Data and Knowledge Engineering

Thematic areas	Credits required
Fundamentals of Data Science	[12-18 ECTS]
Learning methods and models of Data Science	[18-36 ECTS]
Data Processing for Data Science	[18-30 ECTS]
Applied Data Science	[18-24 ECTS]
Master Thesis	[30 ECTS]

Important : For "Applied Data Science", a team project (6 CP) is required.

Study Schedule

Legend for study and examination schedule:
CP = Credit Points

No		1st Semester (CP)	2nd Semester (CP)	3rd Semester (CP)	4th Semester (CP)	Σ
1.	Fundamentals of Data Science (12-18 CP)	12				12
2.	Learning Methods & Models for Data Science (18-36 CP)	12	12	12		36
3.	Data Processing for Data Science (18-30 CP)	6	6	12		24
4.	Applied Data Science (18-24 CP)		12	6		18
6.	Master's Thesis (30 CP)				30	30
	Σ CP	30	30	30	30	120

Note: This study and examination schedule is a recommendation, which considers these general requirements. Students may deviate from this recommendation by selecting modules from the areas in different order or in different intensity

Ref: https://www.inf.ovgu.de/inf_media/Studiendokumente/Studien_+und+Pr%C3%BCfungsordnung/Englischsprachige+Masterstudieng%C3%A4nge/SPO_Master_2021_04_08_Courtesy_Translation.pdf

How to choose modules?

- A module can be offered as:
  - a lecture("Vorlesung") with exercises("Übung")
  - a seminar
  - a scientific team project (minimum 2 people to considered as a team)
  - an individual project
- Different modules are offered in winter and summer semester

  https://www.inf.ovgu.de/Studium/W%C3%A4hrend+des+Studiums/Pr%C3%BCfungsamt/Studiendokumente/Modulkatalog.html

- LSF to check what is offered in that term

Introduction to Digital Engineering

Introduction to Digital Engineering

Course Objective and Expectations

- Digital Engineering is a special educational program that takes account of the increasing software penetration in technical disciplines. The Master program aims to convey such cross-disciplinary education to the students.

- Students can choose between the engineering disciplines: electrical engineering, mechanical engineering, logistics and information technology (as well as related disciplines).

- The education qualifies graduates for challenging activities and leadership roles in planning and execution of projects using modern IT solutions in industry or academic research.

- The study organization of the Master program Digital Engineering is rather self-determined. Since the program offers more freedom of choice and integrates research, students can evolve into more mature scientists.

Study Schedule

Legend for standard study plan: CP = Credit Points

No	Topics	1st Semester (CP)	2nd Semester (CP)	3rd Semester (CP)	4th Semester (CP)	Σ
1	Fundamentals of Computer Science	15 or 5				
2	Fundamentals of Engineering	15 or 5				
3	Human Factors	5				
4	Methods of Digital Engineering		10			
5	Methods of Computer Science		10			
6	Interdisciplinary Team Project		6			
7	Technical Specialization			15		
8	Digital Engineering Project			12		
9	Master's Thesis				30	
	Free Choice		12			
	Σ CP	30	30	30	30	120

❑ In the subject area "**Fundamentals of Computer Science**" a selection of modules with at least 15 CP (if no bachelor's degree in computer science exists) or at least 5 CP (if a bachelor's degree in computer science exists) must be taken.

❑ If the previous Bachelor Degree is not from Computer Science, students **must take the modules "Introduction to Computer Science for Engineers" and "Introduction to Software Engineering for Engineers" in this subject area**.

❑ Students with German language proficiency can alternatively choose 10 CP from the courses „Algorithmen und Datenstrukturen", „Einführung in die Informatik" and „Software Engineering". Students can be exempt from this if they can demonstrate equivalent qualifications otherwise.

Note : The students may deviate from this recommendation by taking modules in a different order and different semesters as well.

Study Schedule

Legend for standard study plan: CP = Credit Points

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4	Methods of Digital Engineering		10			
5	Methods of Computer Science		10			
6	Interdisciplinary Team Project		6			
7	Technical Specialization			15		
8	Digital Engineering Project			12		
9	Master's Thesis				30	
	Free Choice		12			
	Σ CP	30	30	30	30	120

❑ For DE Projects (6 and 8)
- The Project must have minimum 2 people to be considered as a team, not more than 6 people

❑ For Digital Engineering Project (8)
- It can be an intersection of hardware and software
- Two 6 CP projects or one 12 CP project

12-18 CP of projects must be completed, including a minimum of 6 CP in a Digital Engineering project, and a maximum of 6 CP in an interdisciplinary team project. Digital Engineering projects are offered as 12 CP and as 6 CP projects. If only 12 CP are taken as projects, another 6 CP are to be taken in the area of specialization.

Note : The students may deviate from this recommendation by taking modules in a different order and different semesters as well.

LSF

- Student portal - course registration,exam registration etc

- Detailed information here :
  https://www.inf-international.ovgu.de/Incoming/Academic+Integration+into+FIN/LSF+Tutorial.html

- IKUS(INTERCULTURAL STUDENTS) welcome week program including LSF workshop:
  https://www.ovgu.de/unimagdeburg_media/International/Incoming+_+Wege+aus+dem+Ausland/Programm+Willkommenswoche+SS2023+%28ENG%29.pdf

Some important links

- Course Related:
  - Study and examination regulations
  - Module list
  - Module catalogue
    https://www.inf.ovgu.de/inf/en/Study/Before+you+start+studies/Study+courses.html

- Miscellaneous:
  - Academic club:
    https://www.inf.ovgu.de/inf/en/Study/Being+a+student/Incoming/Support+Internationals+at+FIN/Academic+Club.html
  - Sports offerings at OVGU: https://www.spoz.ovgu.de/
  - Get to know Internationals:https://www.ikus.ovgu.de/
  - Language offerings at OVGU:https://www.sprz.ovgu.de/
  - RIA buddy programme:
    https://www.ovgu.de/Studium/Campus+_+Stadt/Studentische+Initiativen/RIA+_+Referat+f%C3%BCr+Internationale+Angelegenheiten.html

Q&A

Feedback form: http://bit.ly/OVGU_FIN_mentors_feedback

Thank you!