

# HAS UNIVERSITY OF APPLIED SCIENCES

### STUDY PROGRAMME

INTERNATIONAL FOOD & AGRIBUSINESS (IFA)

ACADEMIC YEAR 2017-2018

**COURSE CATALOGUE** (v.0617)

#### **Course catalogue**

The IFA course catalogue lists all courses offered for the 2017-2018 academic year in the International Food & Agribusiness (IFA) programme at the HAS University of Applied Sciences.

The catalogue gives specific information about the courses provided during the 2017-2018 academic year including course content, credits, learning outcomes, activities and methods, assessment, course coordinator and study materials.

The information presented in the catalogue was composed in May 2017 and is subject to minor changes. The final and leading information is published in the course study manual for each module within the IFA study program.

For more information about the IFA study programme and enrolment, please visit our website <a href="https://www.hasinternational.nl">www.hasinternational.nl</a>.

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Version: 0617

#### Curriculum International Food & Agribusiness - ACADEMIC YEAR 2017/18

	Curriculum International Food & Agribusiness - ACADEMIC YEAR 2017/18							
	Term 1 Term 2		Term 3	Term 4				
	IF1401 Global Food Systems (6)	IF1402 Agri- Food Business (6)	IF1405 Biobased Economy (6)	IF1414 & IF1415 Work Experience				
Year 1	IF1412 Crop Production (6)	IF1413 Animal Production (6)	IF1404 Food (6)	Placement (Internships) (12)				
	IF1416 Coaching & Skills IF1.1 (3)	IF1417 Coaching & Skills IF1.2 (3)	IF1418 Coaching & Skills IF1.3 (3)	IF1419 Coaching & Skills IF1.4 (3)				
	IF2416 Supply Chain Management (6) IF2438 Food Governance (5)		IF2418 Sustainable Trade (5)	IF2439 Business Plan 2 (6)				
Year 2	IF2435 Circular Economy I (4)	IF2417 Business & Marketing (5)	IF2437 Business Plan 1 (4)	- IF2409 Extension on Sustainability (8)				
reur 2	IF2421/IF2423/IF2424 Domain	Track (Food, Animal or Crop) (6)	IF2436 Circular Economy II (3)	ii 2409 Extension on Sustainability (6)				
	IF2431 Coaching & Skills IF2.1 (2) IF2432 Coaching & Skills IF2.2 (2)		IF2433 Coaching & Skills IF2.3 (3) incl. International Excursion	IF2440 Coaching & Skills IF2.4 (1)				
Year 3	IF3(various c	nor(s) (45-60)	Optional: MN3403 International Business Development (15)					
Year 4	MN4411 Future F	Food Systems (30)	IF4450 Profession	al Assignment (28)				
rear 4	Wilveri	ood systems (so)	IF4403 Profession	nal Assessment (2)				

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YEAR 2	28
YEAR 3	60
YEAR 4	64

Per year, the modules are in numbered order. See table for full overview of curriculum.

## YEAR 1

Course information system			Year of students	udy: 2017 i: draft 05			
Study Programme International F	Food and A	gribusin	ess				
Course unit code IF1401							
Course unit title Global Food Sy	Global Food Systems						
<b>Location</b> Den Bosch							
<b>Coordinator</b> Jeannette van	de Steeg (	SteJ)					
Type of course unit							
Language of English							
instruction							
Credits (ECTS) 6							
Moment of delivery Year 1	Term 1						
Prerequisites None	-						
<b>Application deadline</b> 1-5-2017							
Content In this module	Global Foo	od Svste	ms (GFS) dive	erse eleme	nts of		
the global food							
security, envir	•		•	•			
in agri-food ch	nains and s	<u>ustainab</u>	oility.				
<b>Learning outcomes</b> The module co	ontributes t	o the fo	llowing progra	m qualifica	ations:		
1. Improving s			e Global Agri-fo	ood systen	n		
6. Networking	& influenci	ng					
8. Project mar		PBL)					
9. Doing Resea							
After successfu	ul completi	on, the	student is able	e to:			
Ad 1:							
	e concept o						
	e concept o	f agri-fo	od supply cha	ins and pla	ayers		
herein;							
- Describe th							
- Explain the							
			onmental issu	es in relati	on to		
the agri-fo							
	basıc princi	pies or s	systems thinki	ng to a giv	en en		
case.							
Ad 7:	lovent stale	مه ما ط م س	a and thair ral	ام ماج ما	a h a l		
- Identify re		enolaers	s and their role	e in the gi	obai		
food system Ad 8 +9:	111.						
- See PBL ru	ibric (level	1 hegini	ner)				
Learning activities Method	ibric (icver	1 begiiii	ici)	Stuc	ly load		
and teaching					hours)		
methods Lectures, relat	ted activitie	s nriva	te study	•	93		
PBL (Problem					75		
Total	Dasea Lear	mig/ 5	casesy		168		
Test matrix							
uc		<u>o</u>	< ¥	nc			
tic D	cal cal (n)						
of tir	n ritir na los						
	. E	Š	ਰ >	of na tio			
m i gh	tom de	ing se	ividt up v	e of mina ratio	it		
art ype c xami	ottom rade	ating so	ndividt roup v	ime of xamina Juratio	esit		
Part  Type of examination  Weighting	factor Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit		
Written Test (on reader, WRT 1	ractor 25 Bottom 29 grade	Rating Sc	DVI Individe Group v	K Time of examina (duration	<b>Resit</b>		
Written Test (on reader, URT 1 lectures and PBL cases)	5.5						
Written Test (on reader, WRT 1	5.5			Wk 9	Next		

Study materials					
Title	Author	Status	Туре	Code/comme nt	
Reader Global Food	Bekkers, N.	Required	Via	Updated each	
Systems			Blackboard	year	
Study Manual Global	Steeg, J. van	Required	Via	Updated each	
Food Systems	de, Bekkers, N.	-	BlackBoard	year	
Estimated cost					
Cost item	Approximate co	ost in €	Comments		
	€				
Remarks	-				

Study Programme	Course information sys		study: 2017-2018 ion: draft 5-2017					
Course unit title	Study Programme	·	Toni aran 5 2017					
Location								
Location	Course unit title	Agri-Food Business						
Type of course unit  Language of instruction  Credits (ECTS)  Moment of delivery  Prerequisites  Application deadline  Content  This course offers students an insight into the affairs of international agri-food supply chains; general aspects are addressed and three chains are dissected into detail (tomato, poultry, beer). Students will explore business opportunities in emerging countries. In the 'Introduction to Marketing'-section students will learn the basic principles of strategic marketing.  Learning outcomes  Learning outcomes  The module contributes to the following program qualifications 1. Improving sustainability of the Global Agri-food system; 4. Contributing to international business development.  After successful completion, the student is able to: Ad 1:  - explain the concept of agri-food supply chains and players herein  o lidentify consecutive processes and corresponding companies throughout the supply chain of a food produc omap a simple agri-food chain and quantify product flows within this chain  - explain the main global issues in relation to the agri-food system and the chains  o identify sustainability issues in preselected supply chains  Ad 4:  - recognize and apply on a basic level the fundamentals of marketing  o recognize demands and needs of consumers define the concepts of adding value, external analysis, market segmentation and positioning define the elements of a marketing mix (4P's)  understand the basic elements of logistics understand the importance of economies of scale in logistics	Location							
Language of instruction   Find the content of the	Coordinator	Peter van Schie (ScPe)						
Language of instruction   Find the content of the	Type of course unit							
Instruction   Credits (ECTS)   6   Moment of delivery   Year 1   Term 2		· · · · · · · · · · · · · · · · · · ·						
Prerequisites		g						
Moment of delivery   Year 1   Term 2     Prerequisites   None     Application deadline   1-5-2017     Content   This course offers students an insight into the affairs of international agri-food supply chains; general aspects are addressed and three chains are dissected into detail (tomato, poultry, beer). Students will explore business opportunities in emerging countries. In the 'Introduction to Marketing'-section students will learn the basic principles of strategic marketing.    Learning outcomes   The module contributes to the following program qualifications 1. Improving sustainability of the Global Agri-food system; 4. Contributing to international business development.    After successful completion, the student is able to: Ad 1:    - explain the concept of agri-food supply chains and players herein    - identify consecutive processes and corresponding companies throughout the supply chain of a food produce of map a simple agri-food chain and quantify product flows within this chain    - explain the main global issues in relation to the agri-food system and the chains    - identify sustainability issues in preselected supply chains    - Ad 4:    - recognize and apply on a basic level the fundamentals of marketing    - recognize demands and needs of consumers    - define the concepts of adding value, external analysis, market segmentation and positioning    - define the elements of a marketing    - define the elements of a marketing mix (4P's)    - understand the basic elements of logistics    - onderstand the basic elements of scale in logistics    - onderstand the importance of economies of scale in logistics	Credits (ECTS)	6						
Prerequisites   None		Year 1 Term 2						
This course offers students an insight into the affairs of international agri-food supply chains; general aspects are addressed and three chains are dissected into detail (tomato, poultry, beer). Students will explore business opportunities in emerging countries. In the 'Introduction to Marketing'-section students will learn the basic principles of strategic marketing.  The module contributes to the following program qualifications 1. Improving sustainability of the Global Agri-food system; 4. Contributing to international business development.  After successful completion, the student is able to: Ad 1:  - explain the concept of agri-food supply chains and players herein  o identify consecutive processes and corresponding companies throughout the supply chain of a food produce map a simple agri-food chain and quantify product flows within this chain  - explain the main global issues in relation to the agri-food system and the chains  o identify sustainability issues in preselected supply chains  Ad 4:  - recognize and apply on a basic level the fundamentals of marketing  o recognize demands and needs of consumers define the concepts of adding value, external analysis, market segmentation and positioning define the elements of a marketing mix (4P's)  understand the basic elements of logistics  make calculations regarding the bull whip effect understand the importance of economies of scale in logistics		None						
This course offers students an insight into the affairs of international agri-food supply chains; general aspects are addressed and three chains are dissected into detail (tomato, poultry, beer). Students will explore business opportunities in emerging countries. In the 'Introduction to Marketing'-section students will learn the basic principles of strategic marketing.  The module contributes to the following program qualifications 1. Improving sustainability of the Global Agri-food system; 4. Contributing to international business development.  After successful completion, the student is able to: Ad 1:  - explain the concept of agri-food supply chains and players herein  o identify consecutive processes and corresponding companies throughout the supply chain of a food produce map a simple agri-food chain and quantify product flows within this chain  explain the main global issues in relation to the agri-food system and the chains  identify sustainability issues in preselected supply chains  Ad 4:  recognize and apply on a basic level the fundamentals of marketing  recognize demands and needs of consumers define the concepts of adding value, external analysis, market segmentation and positioning define the elements of a marketing mix (4P's)  understand the basic elements of logistics make calculations regarding the bull whip effect understand the importance of economies of scale in logistics		1-5-2017						
The module contributes to the following program qualifications 1. Improving sustainability of the Global Agri-food system; 4. Contributing to international business development.  After successful completion, the student is able to: Ad 1: - explain the concept of agri-food supply chains and players herein o identify consecutive processes and corresponding companies throughout the supply chain of a food product on map a simple agri-food chain and quantify product flows within this chain explain the main global issues in relation to the agri-food system and the chains o identify sustainability issues in preselected supply chains  Ad 4: - recognize and apply on a basic level the fundamentals of marketing o recognize demands and needs of consumers define the concepts of adding value, external analysis, market segmentation and positioning define the elements of a marketing mix (4P's) understand the basic elements of logistics make calculations regarding the bull whip effect understand the importance of economies of scale in logistics	Content	international agri-food supply chains; genera addressed and three chains are dissected into poultry, beer). Students will explore business emerging countries. In the 'Introduction to M	l aspects are o detail (tomato, o opportunities in arketing'-section					
Ad 1: - explain the concept of agri-food supply chains and players herein - identify consecutive processes and corresponding companies throughout the supply chain of a food product map a simple agri-food chain and quantify product flows within this chain - explain the main global issues in relation to the agri-food system and the chains - identify sustainability issues in preselected supply chains  Ad 4: - recognize and apply on a basic level the fundamentals of marketing - recognize demands and needs of consumers - define the concepts of adding value, external analysis, market segmentation and positioning - define the elements of a marketing mix (4P's) - understand the basic elements of logistics - make calculations regarding the bull whip effect - understand the importance of economies of scale in logistics	Learning outcomes	ram qualifications: -food system; elopment.						
- understand the basic elements of logistics o make calculations regarding the bull whip effect o understand the importance of economies of scale in logistics		Ad 1:  - explain the concept of agri-food supply charein  o identify consecutive processes and correcompanies throughout the supply chair  map a simple agri-food chain and quant within this chain  explain the main global issues in relation system and the chains  identify sustainability issues in presel chains  Ad 4:  recognize and apply on a basic level the finarketing  recognize demands and needs of considering define the concepts of adding value, a market segmentation and positioning	responding n of a food product ntify product flows to the agri-food ected supply undamentals of sumers external analysis,					
Learning activities   Method   Study lo		<ul> <li>define the elements of a marketing mix (4P's)</li> <li>understand the basic elements of logistics</li> <li>make calculations regarding the bull whip effect</li> <li>understand the importance of economies of scale in logistics</li> </ul>						
	Learning activities	Method	Study load (hours)					
methods Theory is provided in weekly instruction			28					
Excursion. Students will visit a tomato, chicken and/or beer company to experience the activities of a link in the chain and to		chicken and/or beer company to experience the activities of a link in the chain and to						
learn about the rest of the chain.  For the group project, tutor meetings are scheduled		For the group project, tutor meetings are	12					
			58					

	Private st	tudv	46					
	Total	.uu y				168		
Test matrix	Total							
T a a	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit	
Written exam on supply chains	WRT	2	4.0	1-10	IND	Wk 9 (2 hrs)	Next term	
Assignment on supply chains	ASSI	2	5.5	1-10	GRP	Wk 8	Next year	
Written exam on marketing	WRT	1	4.0	1-10	IND	Wk 9 (2 hrs)	Next term	
Portfolio marketing	ASSI	1	5.5	1-10	GRP	Wk 8	Next term	
Attendance/participation excursions	EXCU	0	pass	pass/ fail	IND		Next year	
Study materials								
Title	Author		Status		Туре	Code/c	omments	
Global Value Chains – Linking Local Producers from Developing Countries to International Markets (selected chapters)	M.P. van Dijk and J. Trienekens		Required		Book (digital)	Amsterd Universi via Black website		
Agro-industrial supply chain management: concepts and applications	J. van der C.A. da Sa J. Trienek	alva and	Recommended		Occasional paper	ISBN 978-92-5- 105831-2 FAO		
Marketing Fundamentals - An International Perspective, Second edition 2013	B.J. Verha	ge	Required		Book	ISBN 97 81866-1 Noordho Uitgevei	off	
Study Manual (Agri-Food Business)	Muijlwijk, en P. van		Required		Via Blackboard	Updated make a	l each year, print!	
Lecture hand-outs, additional literature and articles	various		Required		Via Blackboard	Indicate	d per year	
Estimated cost								
Cost item	Approxi	mate co	st in €		Comments	5		
Literature/books	€100				Book Market used through			
Group Excursions (by bus)	€20			-				
Other travel					Group work, by own transportation. Based on estimated costs for public transport.			
Other study material	€5							
Remarks	Supply ch	ain assigı	nment ha	s been r	edesigned.			

Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017				
Study Programme	International Food and Agribusin					
Course unit code	IF1404					
Course unit title	Introduction Food					
Location	Den Bosch					
Coordinator	Barbara van Mossevelde (MoB)					
Type of course unit	Mandatory □ Not mandatory					
Language of	English					
instruction						
Credits (ECTS)	6					
Moment of delivery	Year 1 Term 3					
Prerequisites	None					
Application deadline	1-11-2017					
Content	In the 'Food processing' part the general production and processin learn about the main component application for food.  In the lectures about 'Nutrition', dietary patterns, food products a They will learn about macronutric the recommendations on daily for guidelines and how to interpret the being.  Throughout the course students ingredients and processes for a finder become familiar with the necessary.	s of ingredients and their students will get insight into nd their consequences on health. ents, micronutrients, and water, od intake, the purpose of dietary he nutritional needs of a human work on a group project analysing ood production chain. They will				
Learning outcomes	<ul> <li>map a simple agro-food chain describe the Global Food System restate factors that influence</li> <li>explain the main global issues in the chains identify sustainability issues food commodity product</li> <li>Ad 3:         <ul> <li>interpret how the (chemical) strue food components influences the interpret how product composition effect the functional quality (micostability)</li> <li>recognise the purpose of various environment</li> <li>describe different types of food strood safety</li> </ul> </li> </ul>	bbal Agri-food system; ation in a sector (food  dent is able to:  rity nutrient perspective supply chains and players herein of a food commodity product  individual eating habits and food culture relation to the agri-food system and or the researched supply chain of a  ucture of macronutrients and other functional properties of a food product on, processes and storage conditions robial, physical, sensory, and chemical a processing steps when in a production spoilage and categories of hazards to inportance of personal hygiene in food				

	- 20000	s the nuti	ritional va	lue of a	food or simple	meal in r	elation to	
		<ul> <li>assess the nutritional value of a food or simple meal in relation to nutritional requirements and based on various nutrient</li> </ul>						
	recom		ons and d					
	Ad 8:	, a cimple	and wall	ctructu	rad praiact pla	n		
			ements o		red project pla ect plan	111		
					n (with project	t descripti	on, activities,	
	pla	nning an	d team ro	les) in a	predefined sit	uation		
		ting	n mootine	ic and ai	rive on time			
					e and stick to	agreemer	nts	
			o group d			agi como		
		monstrate	e a coope	rative ar	nd supportive a			
Learning activities	Method					Study	load (hours)	
and teaching					is provided		Lectures: 32	
methods					nments and the theory.		Practicals: 10	
	For the gr					Tutor me	eetings: 3	
	scheduled						Group work: 40	
					ssignments.	ı	Presentations: 3	
			ssed by m	neans of	a report and			
	presentati		on studer	nts will v	risit a food		8	
					roduction		0	
	processes							
	Private st	udy				72		
	Total						168	
Test matrix								
	Ę.			<u>o</u>	<u> </u>	uc		
	g gal				Hic (			
	sc c lua							
	of inat	ıtin	E	g sc	dua	of inat tior		
	e of minat	ightin tor	tom	ing sc	ividua up we	e of minat ratior	it	
art	ype of xaminat	Veightin actor	sottom	kating sc	ndividua iroup wa	ime of xaminat duratior	tesit	
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examinatio (duration)	Resit	
Written test on Processing	Type of examinat	Weightin factor	o grade	Rating so	OM Group we	Wk 9	Next term	
Written test on Processing and Nutrition Project 'Commodity to								
Written test on Processing and Nutrition Project 'Commodity to consumer product'	WRT PROJ	7	4.0	1-10	IND GRP	Wk 9 (2 hrs) Wk 10	Next term  Next year	
Written test on Processing and Nutrition Project 'Commodity to	WRT	7	4.0	1-10 1-10 pass/	IND	Wk 9 (2 hrs) Wk 10	Next term	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation	WRT PROJ	7	4.0	1-10	IND GRP	Wk 9 (2 hrs) Wk 10	Next term  Next year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials	WRT PROJ ASSI	7	4.0 4.0 pass	1-10 1-10 pass/ fail	IND GRP IND	Wk 9 (2 hrs) Wk 10 Wk 1- 10	Next term  Next year  Tbd	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation	WRT PROJ	7 3 0	4.0	1-10 1-10 pass/ fail	IND GRP	Wk 9 (2 hrs) Wk 10 Wk 1- 10	Next term  Next year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems	WRT PROJ ASSI  Author R. Parker Pace	7 3 0	4.0 4.0 pass Status Required	1-10 1-10 pass/ fail	IND GRP IND Type Book	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4	Next term  Next year  Tbd  comment 8-1-4354-	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A	WRT PROJ ASSI  Author R. Parker	7 3 0	4.0 4.0 pass	1-10 1-10 pass/ fail	IND GRP IND	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4 ISBN 97	Next term  Next year  Tbd  comment	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach	WRT PROJ ASSI  Author R. Parker Pace R. Gritt	7 3 0	4.0 4.0 pass  Status Required	1-10 1-10 pass/fail	IND GRP IND Type Book Book	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/C ISBN 97 8939-4 ISBN 97 5054-8	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018-	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A	WRT PROJ ASSI  Author R. Parker Pace	7 3 0	4.0 4.0 pass Status Required	1-10 1-10 pass/fail	IND GRP IND Type Book	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/C ISBN 97 8939-4 ISBN 97 5054-8	Next term  Next year  Tbd  comment 8-1-4354-	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs,	WRT PROJ ASSI  Author R. Parker Pace R. Gritt B. van	7 3 0	4.0 4.0 pass  Status Required	1-10 1-10 pass/fail	IND GRP IND Type Book Book Via	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018-	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature	WRT PROJ ASSI  Author R. Parker Pace R. Gritt B. van Mosseveld	7 3 0	4.0 4.0 pass  Status Required Required	1-10 1-10 pass/fail	IND  GRP  IND  Type  Book  Book  Via  Blackboard	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018- each year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles.	WRT PROJ ASSI  Author R. Parker Pace R. Gritt B. van Mosseveld	7 3 0	4.0 4.0 pass  Status Required Required	1-10 1-10 pass/fail	IND  GRP  IND  Type  Book  Book  Via  Blackboard  Via	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018- each year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles. Estimated cost	WRT PROJ ASSI  Author R. Parker Pace R. Gritt B. van Mosseveld Various	7 3 0 and M.	4.0 4.0 pass  Status Required Required Required	1-10 1-10 pass/fail	IND GRP IND Type Book Book Via Blackboard Via BlackBoard	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated Indicate	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018- each year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles. Estimated cost Cost item	WRT PROJ ASSI  Author R. Parker Pace R. Gritt B. van Mosseveld Various  Approxi	7 3 0 and M.	4.0 4.0 pass  Status Required Required Required	1-10 1-10 pass/fail	IND  GRP  IND  Type  Book  Book  Via  Blackboard  Via  BlackBoard	Wk 9 (2 hrs) Wk 10 Wk 1- 10 Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated Indicate	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018- each year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles. Estimated cost	WRT PROJ ASSI  Author R. Parker Pace R. Gritt B. van Mosseveld Various	7 3 0 and M.	4.0 4.0 pass  Status Required Required Required	1-10 1-10 pass/fail	IND  GRP  IND  Type  Book  Book  Via  Blackboard  Via  BlackBoard  Comments  Project Mana	Wk 9 (2 hrs) Wk 10 Wk 1- 10  Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated Indicate	Next term  Next year  Tbd  Comment 8-1-4354- 8-9-0018- each year d per year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles. Estimated cost Cost item	WRT  PROJ  ASSI  Author  R. Parker Pace R. Gritt  B. van Mosseveld Various  Approxi €30	7 3 0 and M.	4.0 4.0 pass  Status Required Required Required	1-10 1-10 pass/fail	IND  GRP  IND  Type  Book  Book  Via  Blackboard  Via  BlackBoard	Wk 9 (2 hrs) Wk 10 Wk 1- 10  Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated Indicate	Next term  Next year  Tbd  Comment 8-1-4354- 8-9-0018- each year d per year	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles. Estimated cost Cost item Literature/books  Group Excursion (by bus)	WRT  PROJ  ASSI  Author  R. Parker Pace R. Gritt  B. van Mosseveld Various  Approxi €30 €75 €20	7 3 0 and M.	4.0 4.0 pass  Status Required Required Required	1-10 1-10 pass/fail	IND  GRP  IND  Type  Book  Book  Via  Blackboard  Via  BlackBoard  Via  Project Mana Intro to Food	Wk 9 (2 hrs) Wk 10 Wk 1- 10  Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated Indicated Indicated Indicated Indicated	Next term  Next year  Tbd  comment 8-1-4354- 8-9-0018- each year d per year  kmans)	
Written test on Processing and Nutrition Project 'Commodity to consumer product' Attendance/participation  Study materials Title Introduction to Food Science & Food Systems Project Management, A practical Approach Study Manual, 1718  Lecture hand-outs, additional literature and articles. Estimated cost Cost item Literature/books	WRT  PROJ  ASSI  Author  R. Parker Pace R. Gritt  B. van Mosseveld Various  Approxi €30 €75  €20  ASSI is ch	7 3 0 and M.	4.0 4.0 pass  Status Required Required Required Required	1-10 1-10 pass/fail dddddddddddddddddddddddddddddddddddd	IND  GRP  IND  Type  Book  Book  Via  Blackboard  Via  BlackBoard  Comments  Project Mana	Wk 9 (2 hrs) Wk 10 Wk 1- 10  Code/c ISBN 97 8939-4 ISBN 97 5054-8 Updated Indicated Indicated Indicated Indicated Indicated Indicated	Next term  Next year  Tbd  Comment 8-1-4354- 8-9-0018- each year d per year  kmans) e is added as	

Course information sys	tem		tudy: 2017-2018 ion: draft 5-2017					
Study Programme	International Food and Agribusin							
Course unit code	IF1405							
Course unit title	Biobased Economy							
Location	Den Bosch							
Coordinator	Jeannette van de Steeg (SteJ)							
Type of course unit								
Language of	English							
instruction	Liigiisii							
Credits (ECTS)	6							
Moment of delivery	Year 1 Term 3							
Prerequisites  Application deadline	None							
Application deadline Content	1-5-2017							
	Nowadays, most of our fuels and from fossil resources. Fossil resources their use results in emissions that human health. Therefore, there is towards a Biobased Economy (BE biomolecules are the building blo such as colorants, fuels, and considerable biomass/biomolecules are only sustabiomass/biomolecules are product focusses on renewable production cycling of essential elements that Biomass is complex and can be uproducts. The student will learn the theory to indicate business opport there are discussions whether the both feed the world population A student will identify and list all bid available to answer this question	urces are, ho t affect the es a tendency BE). In a BBE cks for (nonstruction mainable when ced sustainable of biomass tare needed is are needed to produce a pply the stunities in the ere is sufficient by for fuel pomass/biom	owever, finite and environment and to change E, biomass and E-)food products, terials. However, the Coly. This course to grow biomass. Lice multiple value vs. volume the BBE. Finally, ent biomass to production. The colecule streams					
Learning outcomes	The module contributes to the forms.  2. Applying bio-based & circular systems.  8. Project management (PBL).  9. Doing Research (PBL).  After successful completion, the second completion, the second completion.  Explain the relevance of a Biom (biobased) processes occurring.  Explain the Biobased Econom give an overview of biomass, bio-energy/biomaterials.  Explain the economic principle.  Quantify the food versus fuel possible solutions.  Quantify the nutrient balance specific location and come up.  Understand the basics of the components of food and biom and fat.  Ad 8+9:  See PBL rubric (level 3, achies.)	student is abobased Economy printers abobased Economy on planet y in the past conversion to dilemma and (N-P-K) of a with possible chemistry of pass: carbobase	nciples in agri-food  le to: omy and the main earth and present and echnologies and ersus Volume; d come up with a specific crop at a e solutions; the main					
Learning activities and teaching methods	Method  PBL (Problem Based Learning, 5	cases)	Study load (hours) 75					

	Lectures a			57			
	Intro Chei	mistry s	seminars	(4), in	cl. private		28
	study Practical (	hiodios	ation		8		
	Total	biodies	acion		168		
Test matrix							
						_	
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written test Biobased Economy - Lectures - PBL cases	WRT	4	4.0	1-10	IND	Wk 9 (2 hrs)	Next term
Written test Chemistry	WRT	1	4.0	1-10	IND	Wk 9 (2 hrs)	Next term
PBL + attendance	ASSI	0	pass	pass/ fail	IND	Wk 1-8	Next year
Study materials							
Title	Author		Status		Туре	Code/comment	
Various articles	-		Require	ed	Via Blackboard	Updated ea	ch year
Study Manual Biobased Economy	Eerten-Jai Steeg	nsen,	Require	d	Via BlackBoard	Updated each year	
The Biobased Economy	Langeveld	Langeveld et al. Recommended			Book	€40	
Estimated cost							
Cost item	Approximate cost in € Comments						
Book	€40			The book is not require		ded,	
Group Excursion (by bus)	€20						
Remarks	Written te separate t		nistry wa	s part	of the writter	test, is no	w a

Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017					
Study Programme	International Food and Agribusin						
Course unit code	IF1412						
Course unit title	Crop Production Systems						
Location	Den Bosch						
Coordinator	Roger Watts (WaR)						
Type of course unit	Mandatory □ Not mandatory						
Language of	English						
instruction	English						
Credits (ECTS)	6						
Moment of delivery	Year 1 Term 1						
Prerequisites	None						
	1-5-2017						
Application deadline Content	Global crop production is a broad	and diverse leak at the					
Content	requirements for crop production and the demographics on how th The module will look at how we le how the agro ecology plays an imfor producers and how this impact be grown.	and the impact of the region is impacts crop production. book at cropping systems and apportant role on the decisions of the types of crops that can					
Learning outcomes	This module also includes introdu which looks at how to interpret a documents. The module will give business can determine its overa the impact of business decisions of a business.  This module contributes to the fo	nd develop basic financial practical knowledge of how a ll financial position and look at on the financial sustainability					
	sustainability	usiness development student is able to: systems of agricultural ainable crop production. layed a role development of and its impact on cology on crop production and					
	<ul> <li>describe the production challed developing nations</li> <li>illustrate the factors that determined form crop production systems</li> <li>describe the role of greenhout</li> <li>Ad 4:</li> <li>Read and interpret the basics</li> <li>read a balance sheet</li> <li>read a profit and loss according explain how a cost calculated</li> <li>Make simple calculations on independent make break even calculations</li> <li>calculate payback period</li> </ul>	ermine different practices that s. se production of crops  of a SME administration  unt, and cashflow statement ion is built up nvestment decisions					

Learning activities and teaching	Method		Study load (hours)				
methods	roduction ly instrud study.		56				
	Lab pract	ical	•				20
	Project C						36
	Lectures Economic	•		•	ess t business		56
	Total						168
Test matrix							
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written test Crop production systems	WRT	5	4.0	1-10	IND	Wk 9 (2 hrs)	Next term
Written test Business economics	WRT	3	5.5	1-10	IND	Wk 10 (2 hrs)	Next term
Project Crop (presentation and participation)	PROJ	2	4.0	1-10	GRP	Wk 10	tbd
Assignment Business assignment (Presentation and participation)	ASSI	0	pass	pass/ fail	GRP	Wk 10	tbd
Practical (worksheet and participation)	PRAC	0	pass	pass/ fail	GRP	Wk 10	Next year
Study materials							
Title	Author		Status		Туре	Code/	comment
Study Manual (Crop Production Systems)	Watts, R		required	i	Via Blackboard	Updated	l each year
Introduction Crop Production Systems	Vugt, D. van		required		Reader Available in bookstore	Updated	l each year
Introduction in Accounting	Muijlwijk, T. van		required		Reader Available in bookstore	Updated	l each year
Practical Manual: Crop Production Systems	Watts, R.		required		Reader Available in bookstore	Updated	each year
Estimated cost							
Cost item	Approxi	mate co	st in €		Comments		
Literature/books	€21				For 3 readers	S	
Remarks	Code for	Crop Pro	oject cha	nged fr	om ASSI to I	PROJ	

Course information sys	stem		tudy: 2017-2018 ion: draft 5-2017					
Study Programme	International Food and Agribusin	•	iom draft 5 2017					
Course unit code	IF1413							
Course unit title	Animal Production System							
Location	Den Bosch							
Coordinator	Gerben Hofstra (HoG)							
Type of course unit	Mandatory □ Not mandatory							
Language of	English							
instruction	Liigiisii							
Credits (ECTS)	6							
Moment of delivery	Year 1 Term 2							
Prerequisites	None							
Application deadline	1-5-2017							
Content	This module covers animal (Life	cyclo analyci	s hoalth food)					
	farm, and the sectors on dairy cogoats. These animals and sectors international setting and compar number of PBL cases are handled organised in which different farm and goat farm.  In addition, the basics of Excel a	ows, pigs, po s are looked ison. Next to d. Also two e ns are visited	ultry and dairy at in an lectures, a xcursions will be ; dairy cow, pig					
	an online course, and/or Q&A se	ssions.						
	<ul> <li>2. Applying bio-based &amp; circular systems</li> <li>3. Contributing to sustainable in production)</li> <li>4. Contributing to international bearing to the project management (PBL)</li> <li>9. Doing Research (PBL)</li> </ul>	novation in a	sector (animal					
	After successful completion, the Ad 2:  o explain the principle of agro- production systems and feed	ecology appli						
	Ad 3: • describe the animal production countries	•						
	<ul> <li>relate generic farm lay-out, proposed production data</li> <li>describe the main nutritional repigs, dairy goats and poultry</li> </ul>							
	<ul> <li>restate the main relevant aspe diseases</li> </ul>							
	animals	<ul> <li>describe the sustainability issues at animal husbandry across the world</li> </ul>						
	<ul> <li>perform basic operations in E and sheets, making use of for processing and visualising da Ad 8+9:</li> </ul>	rmula's and f ta	_					
	- See PBL rubric (level 2, in pro	JCC35).	Chudy load					
	Method		Study load (hours)					

Learning activities	Lectures	Lectures								
and teaching	Private s	tudy		50						
methods	PBL (Prol	olem Ba		75						
	Excel lec	tures an	•		14					
	Excursion	าร					14			
	Total						168			
Test matrix										
Part	Type of examination	Weighting factor	<b>Bottom</b> grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit			
Written test Animal	WRT	9	5.5	1-10	IND	Wk 9 (2 hrs)	Next term			
Written test Excel	WRT	1	5.5	1-10	IND	Wk 10 (2 hrs)	Next term			
PBL + Excursions	ASSI	0	pass	pass/ fail	IND	Wk 1- 8	Next term			
Study materials		<u>'</u>	,	•						
Title	Author		Status		Туре	Code/o	comment			
Study Manual, 1718			required		Via Blackboard	Updated	each year			
Readers Cows, Pigs, Poultry (to be decided)	Jacobs, P.	et al.	required		Reader					
Lecture hand-outs, additional literature and articles.	various				Via BlackBoard	Indicate	d per year			
Estimated cost										
Cost item	Approxi	mate co	st in €		Comments	5				
Literature/books	€ 20									
Group Excursion (by bus)	€ 30				Paid through					
Remarks	internatio	nal orient	tated and	high inp	and the reader but and low inp d are compare	ut animal				

Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017
Study Programme	International Food and Agribusines	S
Course unit code	IF1414 and IF1415	
Course unit title	Work Experience Placement (WEP)	
Location	Den Bosch	
Coordinator	Neeltje Bekkers (BeN)	
Type of course unit	☑ Mandatory □ Not mandatory	
Language of	English	
instruction		
Credits (ECTS)	12 (IF1414 6 ECTS / IF1415 6 ECT	S)
Moment of delivery	Year 1 Term 4	
Prerequisites	None	
Application deadline	1-11-2017	
Content	During this module, the student wi a company or organisation in the a takes place on a full-time basis, on Students may choose to do either: placements of 4 weeks. The placen Netherlands or abroad.	gri-food sector. The placement the company's premises. I placement of 8 weeks, or 2
Learning outcomes	The module contributes to the follo 1. Improving sustainability of the 0 3. Contributing to sustainable innorproduction, crop production or food 4. Contributing to international bus 6. Networking & influencing 7. (Self)-reflection and judgement 8. Project management	Global Agri-food system vation in a sector (animal I processing/nutrition)
	After successful completion, the store Ad 1:  • map the supply chain of the corrorganisation within the agri-food including the main stakeholders Ad 3:  - describe the daily operations of a agri-food sector (animal, crop an Ad 4:  - read and interpret the basics of a make a budget for an existing State Ad 6:  • find a suitable work experience Ad 7:  - formulate and reflect on persona oreflect on (learning) experience Ad 8:  • write a well-structured internsh	mpany or the position of the d system they are working for, is a company/organisation in the d/or food)  a SME administration SME  placement post I learning objectives
Learning activities	Method	Study load (hours)
and teaching	Preparation lectures	2
methods	Execution of work placement experience	
	weeks, 36h/week	200
	Report writing	40
	Assessment day	6
	Total	336

**Test matrix** 

Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
IF1414 WEP	ASSI	1	5.5		IND		
- Report		80%	5.5	1-10		Wk 5	Wk 10
- Process		20%	5.5	1-10		Wk 10	Next year
- Presentation		0%	pass	pass/ fail		Wk 10	Wk 10
- Company Assessment		0%	5.5	1-10		Wk 5	Next year
IF1415 WEP	ASSI	1	5.5		IND		
- Report		80%	5.5	1-10		Wk 9	Wk 10
- Process		20%	5.5	1-10		Wk 10	Next year
- Presentation		0%	pass	pass/ fail		Wk 10	Wk 10
- Company Assessment		0%	5.5	1-10		Wk 9	Next year
Study materials							
Title	Author		Status		Туре	Code/cor	nments
A Writer's Reference	Diana Hacker 8 Nancy Sommer edition)		Requir	ed	Book	ISBN 13:97 6676-6	78-1-4576-
Study Manual	Bekkers, N., Lieshout, E. va	n	Requir	ed	Via Blackboard	Updated ea	ich year
Estimated cost							
Cost item	Approximate	e cost	in €		Comments		
Literature/books	€ 60				Book is used	throughout	the
		C 00				purchased a les.	lready for
Other travel	By own/public transportation				Costs dependence p		
Remarks							

Course information sys	tem	Year of study: 2017-2018 Version: draft 6-2017					
Study Programme	International Food and Agribusine						
Course unit code	IF1416						
Course unit title	Coaching & Skills 1						
Location	Den Bosch						
Coordinator	Janine Jalving (JaJa)						
Type of course unit	✓ Mandatory □ Not mandatory						
Language of	English						
instruction	Liigiisii						
Credits (ECTS)	3						
Moment of delivery	Year 1 Term 1						
Prerequisites	None						
	1-5-2017						
Application deadline Content	The main goal of the module Coad	shing & Ckills is to touch the					
Content	student how to instigate his or he on self-knowledge, personal motive reflection, and feedback. The modern reflect on personality, behaviour, students with tools for change and them guidelines for reaching personal their talents and ambitions.  Moreover, the Coaching & Skills mimprove their language and common well as their intercultural sensibility. In term 1, the focus lies on information of the coaching with the coaching well as their intercultural sensibility.	er personal development based vation, learning goals, self-dule offers opportunities to and attitude. It supplies d improvement and offers onal objectives and explore modules stimulate students to nunication skills in English, as ty.					
Learning outcomes	meeting skills. Much attention is p Learning as a method to analyze of solutions. Moreover, students par- introduction week, including a trip The module contributes to the foll 6. Networking & influencing	challenges and find creative ticipate in an intensive to the Wadden island Texel.					
	7. (Self)-reflection and judgement 8. Project management 9. Doing research	t					
	After successful completion, the s Ad 6:  participate in teambuilding act						
	o connect with co-students effered Ad 7:	ectively					
	<ul> <li>formulate a personal developm ounderstand the purpose of a</li> <li>give and receive feedback, and leading to the formation of an</li> <li>reflect on team activities in a real Ad 8:</li> </ul>	personal development plan d judge external information opinion multicultural setting					
	<ul> <li>contribute to a successful meet oparticipate in and chair a meet oset-up an agenda for a meet owrite meaningful minutes ouse appropriate English voca</li> <li>write a structured report oproduce text structures in the groups)</li> <li>Ad 9:</li> </ul>	eting ing bulary in meetings					
	<ul><li>gather secondary data</li></ul>						

	<ul> <li>search for literature in the (HAS) library, GreenI, and online</li> <li>assess secondary data</li> <li>judge quality of data sources (secondary)</li> <li>interpret secondary data</li> <li>analyse texts by means of structures and signposting language in texts</li> <li>set up a simple research report for an identified problem in a guided setting</li> <li>describe the elements and structure a (research) report</li> <li>use APA-style in referencing, including citing &amp; referencing</li> </ul>							
Learning activities	Method			229	.,	Study		
and teaching							urs)	
methods	Language assignme		etings (2 v	worksh	ops &		12	
			ls 1 (lectu d Report	•	orkshops,		28	
			on progra				16	
	3-day ex	cursion	Texel				24	
		consulta	ations & p	ersonal			4	
	Total	.c.rc pic	(1 51 )				84	
Test matrix								
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit**	
Coaching	ASSI	0	pass	pass/ fail	IND	Wk 1-10	tbd	
Language of Meetings	ASSI	0	pass	pass/ fail	IND	Wk 1-10	tbd	
Information Skills	ASSI	0	pass	pass/ fail	IND	Wk 1-10	tbd	
** The retake options depor coach therefore decide does this in consultation study materials	s upon the with the m	e exact	substitute coordinato	ailing ti assign	nment or re-s ner staff men	sit possibility, and the sinvolved	and I.	
Title Study Manual	<b>Author</b> Various		Status Required		<b>Type</b> Via	Code/comn Updated each		
(Coaching & Skills IF1)	various		Required		BlackBoard	opuateu eatii	ycai	
A Writer's Reference	Hacker &		Required		Book			
(8th edition)	Sommers							
Quality E-E dictionary			Recomme	ended	Digital			
Estimated cost	Ammuni		oct in C		Commont			
Cost item Literature/books	Approxi €70 (A Wr				Comments The student			
Literature, books	€10 (Read		ici ciice)			ok throughout t	he	
Excursion Texel	€10 (Reac	,			Jean's progra			
Remarks					•			

Course information sys	stem		tudy: 2017-2018 ion: draft 5-2017					
Study Programme	International Food and Agribusin							
Course unit code	IF1417							
Course unit title	Coaching & Skills 2							
Location	Den Bosch							
Coordinator	Janine Jalving (JaJa)							
Type of course unit								
Language of								
instruction	Eligiisii							
Credits (ECTS)	3							
Moment of delivery	Year 1 Term 2							
	None							
Prerequisites  Application doubling								
Application deadline Content	1-5-2017 The main goal of the module Coa	ahina 0 Ckill	la ia ta tanah tha					
	student how to instigate his or he on self-knowledge, personal moti reflection, and feedback. The mo reflect on personality, behaviour, students with tools for change ar them guidelines for reaching personal their talents and ambitions.  Moreover, the Coaching & Skills improve their language and commediate their intercultural sensibil.  In term 2 each student fills out the Finder and draws up personal leady year based on the outcomes.  Students are challenged to extending awareness, and to understand he affects doing business in an interest students also learn how to give printed in English.	er personal divation, learry dule offers of and attitude of improvem sonal objection of the Buckingham of their intercovers into a their intercovers into a their intercovers into a their intercovers into a their intercovers interculturational environal environational environation, learry dule of their province of the environation of the environ	levelopment based hing goals, self-pportunities to e. It supplies ent and offers wes and explore hulate students to kills in English, as am Strengths or the first study cultural ral differences ironment.					
Learning outcomes	The module contributes to the fo 5. Providing Advice 7. (Self)-reflection and judgemen After successful completion, the second Ad 5:  - give a professional presentation ostructure a presentation ouse (visual) aids to create an ouse appropriate English vocate indicate differences between cucommunication in and between agri-food context oapply theoretical knowledge of and business cultures in analyculture Ad 7:  - formulate a personal developm odraw up personal learning ain based on the outcomes of the give and receive feedback, and leading to the formation of an eleating to the eleating to the eleating to the eleating to the eleati	nt  student is about a student is about a student plan  nent plan nes for the first e Strengths F  judge exter	esentation sentations ow this affects an international ral communication in (business)					
	Method	۰	Study load					
			(hours)					

Learning activities and teaching methods  Test matrix	Language assignme Interculte (worksho Talent-Ba (worksho 1 coach o orientatio	ents) ural Bus pps & pr ased & s pps & ase consulta		28 28 25 3			
T ad	Type of examination	Weighting factor	<b>Bottom</b> grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Coaching	ASSI	0	pass	pass/ fail	IND	continuous	Next term
Language of Presentations	PRES	1	5.5	0-10	IND	Wk 7-10	Next term
Intercultural Business Communication	ASSI	1	5.5	0-10	GRP	Wk 7-10	Next term
Study materials			,				
Title	Author		Status		Туре	Code/com	ment
Study Manual (Coaching & Skills IF1)	Various		Required		Via BlackBoard	Updated eac	h year
A Writer's Reference (8th edition)	Hacker & Sommers		Require	d	Book	Already in possession	
Cultures and Organisations – software of the mind	G.J. Hofst G. Hofsted M. Minkov	de &	Require	d	Book	3rd revised version	
Strengths Finder 2.0	Tom Rath		Require	d	Book+code		
Estimated cost							
Cost item	Approxi	mate c	ost in €		Comments		
Literature/books	€10 (reader) €35 (Hofstede) €20 (Rath)						
Remarks							

Course information sys	stem							
Study Programme	International Food and Agribusi							
Course unit code	International Food and Agribusiness  IF1418 Coaching & Skills 3 Den Bosch Danine Jalving (JaJa)  Mandatory □ Not mandatory English  Term 3 None 1-11-2017 The main goal of the module Coaching & Skills is to teach the student how to instigate his or her personal development based on self-knowledge, personal motivation, learning goals, self-reflection, and feedback. The module offers opportunities to reflect on personality, behaviour, and attitude. It supplies students with tools for change and improvement and offers them guidelines for reaching personal objectives and explore their talents and ambitions.  Moreover, the Coaching & Skills modules stimulate students to improve their language and communication skills in English, as well as their intercultural sensibility.  In term 3, students focus on their applied writing skills and learn how to write essays. The focus lies again on information skills. However, this term these skills are more applied to the use of scientific papers and creating an infographic.  The module contributes to the following program qualifications: 7. (Self)-reflection and judgement 8. Project management 9. Doing research  After successful completion, the student is able to:  Ad 7:  formulate a personal development plan (coaching) oidentify personal skills and strengths (colour) ('Who am I?') give and receive feedback, and judge external information leading to the formation of an opinion							
Course unit title	Coaching & Skills 3							
Location								
Coordinator								
Type of course unit								
Language of								
instruction								
Credits (ECTS)	3							
Moment of delivery	Year 1 Term 3							
Prerequisites	None							
Application deadline								
Content	The main goal of the module Costudent how to instigate his or lon self-knowledge, personal moreflection, and feedback. The moreflect on personality, behavious students with tools for change at them guidelines for reaching pertheir talents and ambitions. Moreover, the Coaching & Skills improve their language and conwell as their intercultural sensition.  In term 3, students focus on the learn how to write essays. The skills. However, this term these	her personal obtivation, lear podule offers or, and attitude and improvent ersonal object of modules stirulation solility.  The personal object of the personal	development based rning goals, self- copportunities to le. It supplies nent and offers ives and explore mulate students to skills in English, as riting skills and nin on information ore applied to the					
Learning outcomes	The module contributes to the first (Self)-reflection and judgement 8. Project management 9. Doing research  After successful completion, the Ad 7:  - formulate a personal developed oidentify personal skills and selection of an Ad 8:  - write and receive feedback, and leading to the formation of an Ad 8:  - write a structured report owrite a clear text with the use vocabulary oset-up various report structure with appropriate elements (in project/assignment report, and 9:  - interpret secondary data (ad 9:  - visualise the main points from	collowing progent  e student is and ment plan (collowing the collowing extending exten	ble to:  baching) our) ('Who am I?') rnal information  iate English rent purposes and ort, rt) c paper					
Learning activities and teaching methods	Writing Skills, Report writing (wassignments)	orkshops &	Study load (hours) 30					

	Informat assignme		vorkshops,		30		
	1 coach orientation			24			
	Total						84
Test matrix							
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Coaching	ASSI	0	pass	pass/ fail	IND	continuous	Next term
Writing skills	ASSI	1	5.5	0-10	IND	Wk 7 - 10	Next term
Information Skills	ASSI	0	pass	pass/ fail	IND	Wk 1-10	Next term
Study materials							
Title	Author		Status		Туре	Code/comr	nent
Study Manual (Coaching & Skills IF1)	Various		Require	d	Via BlackBoard	Updated each	year
A Writer's Reference (8th edition)	Hacker & Sommers		Require	d	Book	Already in possession	
Estimated cost							
Cost item	Approxi	mate	cost in	€	Comments		
Literature/books					Already in p	ossesion	
Remarks							

Course information sys	stem					study: 2017- sion: draft 5-					
Study Programme	Internati	onal F	ood and	l Agribusi		nom arare 5	2017				
Course unit code	IF1419	Onan i	ood and	i Agribusi	11033						
Course unit title	Coaching	1 & SV	ille 4								
Location	Den Bos		III3 T								
Coordinator			(1212)								
Type of course unit		Janine Jalving (JaJa)  Mandatory □ Not mandatory									
* *		Mandatory □ Not mandatory									
Language of instruction	English	English									
Credits (ECTS)	3	2									
Moment of delivery	Year 1										
Prerequisites	None		rem	14							
Application deadline	1-11-20	1 7									
Content			of the n	aadula C	paching & Skil	la ia ta tanah	tho				
Content	student on self-k reflection reflect or students them gu Coaching further ed internshi personal developr year 1 (tfurther dimeans o students year. The with their	now to nowled a nowle	instigation instigation dispenses for reaction their tasks are scool students are scool scool students are scool scool students are scool scool students are scool students are scool students are scool scool scool students are scool scoo	te his or resonal mock. The mock thange aching per change aching per change are doing heduled tents contents and discusse are also alents and ment action person freflection final contents.	her personal optivation, learn odule offers our, attitude, et and improvemersonal objection personal objection described ambitions.  In their orient of their offered the opid explore their offered the opid explore. At the opid explore, which is activities under the opid explore their original developme on the opid explores their original developme.	development I ning goals, se opportunities to c. It supplies nent and offer ives. Within th jectives and ation internsh vever, in this on developing personal bach at the st oportunity to r opportunitie end of term 4 nt over the pa ch they discus e coach assess	ips, itheir art of sthe				
Learning outcomes	The mod 7. (Self) After suc Ad 7: – Formu	ule co -reflec ccessfu	ntribute tion and ul compl persona	s to the find the fin	following prog ent e <i>student is al</i> oment plan (co	ram qualificat					
Learning activities	Method					Study	load				
and teaching						(h	ours)				
methods				vities yea			40				
				on); dom			44				
				tion repo	rt;						
	internshi	p activ	vities								
	Total						84				
Test matrix											
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit				

Coaching (incl. self-	ASSI	0	pass	pass/	IND	Wk 10	Wk			
reflection report)				fail			11			
Self-management	ASSI	0	pass	pass/	IND	Wk 10	Next			
				fail			term			
Study materials										
Title	Author		Status		Туре	Code/comr	Code/comment			
Study Manual	Various		Required		Via	Updated eac	:h			
(Coaching & Skills IF1)					BlackBoard	year				
<b>Estimated cost</b>										
Cost item	Approxi	mate	cost in	€	Comments					
Literature/books	-				-					
Remarks						_				

#### YEAR 2

YEAR Z						
Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017				
Study Programme	International Food and Agribusing					
Course unit code	IF2409					
Course unit title	Extension on Sustainability					
Location	Den Bosch					
Coordinator	Jeannette van de Steeg (SteJ)					
Type of course unit						
Language of	English					
instruction	3					
Credits (ECTS)	8					
Moment of delivery	Year 2 Term 4					
Prerequisites	Coaching & skills (IF1416-1419, 2 experience in a agri-food environ and IF1415 Work Experience Place	ment (f.i. by means of IF1414				
Application deadline	1-11-2017					
Content  Learning outcomes	In many of the jobs IFA graduate colleagues, organisations and entissues will be of vital importance; resources, food and/or residues. confronted with a real-life situation these skills. In small groups (appostudents take on the role of a confagri-food business. The company issue. Students will interview the analyse the issue thoroughly. The sustainability of the company, an advice to the company regarding. In this project, supervised by a transplied. The lectures are on Sustainable Effootprint? Four footprints are discovered workshops, several aspects of confidence of the module contributes to the following supervised by the company of the section of the module contributes to the following supervised by a transplication of the module contributes to the following supervised by a transplication of the module contributes to the following supervised by a transplication of the module contributes to the following supervised by a transplication of the module contributes to the following supervised by a transplication of the module contributes to the following supervised by a transplication of the module contributes to the following supervised by a transplication of the company o	repreneurs on sustainability e.g. the efficient use of In this module, students are on in which they can develop proximately 3 students), insultant for a company in the is facing a sustainability owner or manager and ey will quantify the id use this as the basis for the the options for improvement. Sutor, both knowledge and skills Engineering; how to calculate cussed; CO <sub>2</sub> , N, P, water. In insultative selling are covered.				
Learning outcomes	<ul> <li>2. Applying bio-based &amp; circular esystems</li> <li>5. Providing advice</li> <li>8. Project management</li> <li>After successful completion, the standard completion, the standard completion and systems</li> <li>calculate a simple carbon, nitro agri-food products or processes</li> <li>discuss the environmental impagement</li> </ul>	student is able to: pact of simple agri-food gen, water or land use footprint of sect of human intervention in cycles, fresh water use and land ampany to decrease its calculated by an external client to own performance scussion efficiently ltation with the client, using				

Learning activities and teaching methods	<ul> <li>formulate a project proposal in alignment with the client</li> <li>write an advisory report with findings, proper conclusions and a first step towards an advice</li> <li>Ad 8:</li> <li>compose a project plan for a real-life assignment (including planning/budgeting/risk assessment)</li> <li>draw up and work with a project plan</li> <li>execute a real life, well guided, project according to a project plan and together with peers</li> <li>act as a project leader (name, oversee and divide tasks, and coordinate the process) (or within another Y2 module)</li> <li>Method</li> <li>Study load (hours)</li> <li>Lectures Sustainable Engineering</li> <li>Private study and written test on</li> </ul>						
	Sustaina Worksho			on Skills	5		14
	Private s				unication		28
	Group Pr Total	oject Fo	ot-print	ing			140 <b>224</b>
Test matrix	TOLAI						224
Part	Type of examination	Weighting factor	<b>Bottom</b> grade	Rating scale	Individual / Group work	Time of examination (duration)	Resit
Written test Sustainable	WRT	1	4.0	1-10	IND	Wk 9	Next term
Engineering Oral exam Communication	ORAL	1	4.0	1-10	IND	(2 hrs) Wk 10	Wk 11
Project	PROJ	1	4.0	1-10	GRP	Wk 10	Next year
Attendance/Attitude	ASSI	0	pass	pass/ fail	IND	Wk 9	Next year
Study materials				Tall			
Title	Author		Statu	s	Туре	Code/	comment
Study Manual	Various		Require		Via Blackboard		each year
Reader Sustainable Engineering	M. van Ee	rten	Require	ed	Reader	Via Hurk	rmans
How to Do Research	Grit, R. and Required Julsing, M.		Book, website, templates	30. Alre	390018612 ady in ion (yr 2)		
Project Management	Grit, R. Required		Book, website, templates	29. Alre	390017909 ady in ion (yr 1)		
Strengths Finder 2.0	Rath, T. Required			Book + code	Already possessi	in	
Lecture hand-outs, add. literature, articles.	Various			Via BlackBoard		d per year	
Estimated cost							
Cost item	Approxi		st in €		Comments		
Literature/books Other travel	€20 (reader) €75			Cost for own transportation is depending on where client is located.			
Remarks	-						

Course information sys	tem Year of study: 2017-2018 Version: draft 5-2017							
Study Programme	International Food and Agribusiness							
Course unit code	IF2416							
Course unit title	Supply Chain Management (SCM)							
Location	Den Bosch							
Coordinator	Marnix Wolters (WoMa)							
Type of course unit	✓ Mandatory ☐ Not mandatory							
Language of	English							
instruction	Liigiisii							
Credits (ECTS)	6							
Moment of delivery	Year 1 Term 1							
Prerequisites	IF1401, IF1402							
	1-5-2017							
Application deadline Content	This module covers the following topics:							
Content	<ul> <li>Procurement logistics</li> <li>Quality management systems and auditing</li> <li>Processing logistics</li> <li>Warehousing and distribution logistics</li> <li>Reverse logistics</li> <li>Sustainability</li> <li>Statistics</li> <li>Lectures cover the theory of SCM and are illustrated by guest</li> </ul>							
	lectures and excursions, and applied during tutorials. In addition, instruction lectures on statistics are given. The module is assessed by means of two written tests, one on the theory of SCM, one on statistics, as well as a series of individual assignments.							
Learning outcomes	The module contributes to the following program qualifications:  1. Improving sustainability of the Global Agri-food system 4. Contributing to international business development 7. (Self)-reflection and judgement  After successful completion, the student is able to: Ad 1:  - analyse a supply chain on sustainability aspects  o define the main aspects of sustainability in supply chain management  o relate sustainability aspects to a particular supply chain Ad 4:  - implement logistical principles and concepts in agri-food chains  o explain main logistical principles and concepts in agri-food chains  o calculate the financial and operational impact of logistical processes and decisions  o apply descriptive statistics, normal distribution and sample taking in a supply chain setting  understand international trade agreements and trade documentation  explain international trade agreements in relation to ownership and risk management (INCO terms, insurances, MRP)  give examples of necessary trade documentation  draft simple product specifications  explain the rationale behind quality management systems  give examples of quality management systems and their purpose							

Learning activities and teaching methods	<ul> <li>draft a basic HACCP plan</li> <li>execute and interpret the outcomes of a supplier audit</li> <li>analyse risks and responsibilities for all stakeholders in international supply chains</li> <li>Ad 7:</li> <li>give and receive constructive feedback to and from peers</li> <li>Method</li> <li>Study load (hours)</li> <li>Theory is provided in weekly instruction lectures. Context is provided by guest lectures by professionals.</li> <li>Private study</li> <li>100</li> <li>For the assignments and further application of the theory, tutorials are scheduled.</li> </ul>						
	Exam and		tion				3
	Excursion	1					12
_	Total						168
Test matrix							
Part	Type of examination	<b>Weighting</b> factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written exam on the theory of SCM	WRT	9	4.0	1-10	IND	Wk 9 (2 hrs)	Next term
Written exam on statistics	WRT	5	5.5	1-10	IND	Wk 10 (2 hrs)	Next term
Assignments	ASSI	6	4.0	1-10	IND	Wk 8	tbd
Attendance/participation	ASSI	0	pass	pass/ fail	IND	Wk 8	tbd
Study materials							
Title	Author		Status		Туре	Code/	comment
Study Manual Supply Chain Management	M. Wolters		Require		Via Blackboard	Updated	each year
Purchasing and Supply Chain Management, A sustainability perspective	Howard, M	Johnsen, T., Required Howard, M. & Miemczyck, J.					
Statistics for International Food and Agribusiness	Almalik, O. & Required Via Gerritse, G. BlackBoard						
Lecture hand-outs, add. literature and articles	Various Required or Via				Via BlackBoard	Indicate	d per year
Estimated cost							
Cost item	Approximate cost in €				Comments		
Literature/books	€50						
Group Excursion (by bus)	€20						
Other travel (one company visit)	€15			Based on pul depends on I of your own	ocation o		
Remarks		or your own choice					

Course information sys	stem		tudy: 2017-2018 ion: draft 6-2017				
Study Programme	International Food and Agribusine						
Course unit code	IF2417						
Course unit title	Business & Marketing						
Location	Den Bosch						
Coordinator	Hielke van der Meulen (MeHi)						
Type of course unit							
Language of instruction	English						
Credits (ECTS)	5						
Moment of delivery	Year 2 Term 2						
Prerequisites	None						
Application deadline	1-5-2017						
Content	This module covers:						
	- Small & Medium Enterprises (SI	MEs) analysi	S				
	- Strategic Marketing: buying be						
Learning outcomes	The module contributes to the fol 4. Contributing to international bu	lowing progr	am qualifications:				
	5. Providing advice	usiness deve	портнети				
	After successful completion, the s	student is ab	le to:				
	Ad 4						
	- recognize and apply theory on s	strategic ma	rketing, marketing				
	planning, and buying behaviour	_					
	ouse relevant models						
	oanalyse a company in its marketing environment						
	ouse a SWOT analysis, including a confrontation matrix						
	oapply the marketing theory to a given case						
	- reproduce the basics of setting up a simple market survey						
	o explain the basics of market and marketing research						
	odistinguish a good from a poor survey question						
	- explain the basics of general and SME management						
	odescribe the major theories and models in business						
	management						
	ounderstand the main family business matters osuccessfully negotiate with a SME for a small assignment						
	oanalyse an SME in the agri-foo						
	structured format	ou sector, ac	column to a semi-				
		a company o	r organisation				
	- understand the role of HRM in a company or organisation Ad 5						
	oformulate an advice for an SME on a marketing assignment						
Learning activities	Method Study load						
and teaching	(hours)						
methods	Thematic lectures		5				
	Working lectures (interactive)		25				
	Guest lectures 5						
	Company visit 15						
	Group project: analysis SME + marketing 60						
	assignment						
	Private study / exam 30						
	Total		140				
Test matrix							

Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written exam on SMEs	WRT	3	4.0	1-10	IND	Wk 9 (2 hrs)	Next term
Written exam on Strategic Marketing	WRT	2	5.5	1-10	IND	Wk 9 (2 hrs)	Next term
Project (Report + Presentation)	PROJ	5	4.0	1-10	GRP	Wk 10	tbd
Attendance and excursion(s)	EXCU	0	pass	pass/ fail	IND	Wk 1- 10	tbd
Study materials							
Title	Author		Status		Type	Code/	comment
Study Manual, 1718	H. van der Meulen		Require	d	Via Updated each Blackboard		each year
Marketing Fundamentals	B. Verhage		Require	d	Book	ISBN 97 81866-1	8-9001-
Organisation & Management; an International Approach	J. Marcus & N. van Dam 2012. Noordhoff (NL)		To be determi	ned	handbook	ISBN 97 80966-9	
Lecture hand-outs, add. literature and articles	various Required			Via BlackBoard	Indicate	d per year	
Estimated cost							
Cost item	Approxi	mate co	st in €		Comments		
Literature/books	€75 €55			Marketing Fu used in the A module, and handbook the programme) Organisation other	Agri-food I useful as e entire II	Business a =A	
Group Excursion (by bus)	€15					<u> </u>	
Other travel	€20			Small excurs own transport estimated contransport.	rtation. Ba	ased on	
Remarks							

Course information sys	stem	Year of study: 2017-2018					
Study Programme	International Food and Agribusir	Version: draft 5-2017					
Course unit code	IF2418	1033					
Course unit title	Sustainable Trade						
Location	Den Bosch						
Coordinator	Bram van Helvoirt (HeBr)						
Type of course unit	✓ Mandatory ☐ Not mandatory						
Language of	English						
instruction	Liigiisii						
Credits (ECTS)	5						
Moment of delivery	Year 2 Term 3						
Prerequisites	None						
Application deadline	1-11-2017						
Content	After this module, students under the transformation of markets at learn about the drivers for sustainternational trade, and trade po	nd sustainability. Students inability, certification systems, blicy.					
Learning outcomes	The module contributes to the formation of the formation	ollowing program qualifications: e Global Agri-food system					
	<ul> <li>discuss the market transform different phases in a specific</li> <li>explain the concept of social</li> <li>interpret certification in relation development</li> <li>interpret ISO26000 in relation and certification</li> <li>discuss the concept of certific market development</li> <li>compare and select appropriated discuss contradictions in issue inclusiveness</li> <li>reflect on power division in some reflect on inclusion and exclusion an</li></ul>	ustainability in a specific market nation model including the sector responsibility on to sustainable market in to drivers of sustainability cation as a tool for sustainable at certification schemes is related to certification and supply chains sion in supply chains sion in supply chains in each of trade policy and the relations influence todays olicy and instruments of futures currencies and oil prices and chin another Y2 module)					

Learning activities and teaching	Method					Study load (hours)		
methods	(Guest) l Project m			22 20				
	Exam an	d evalua			3			
	Self-stud	y, includ	ding proje	ect wor	k		95	
	Total						140	
Test matrix								
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit	
Written test on Sustainable Trade	WRT	3	5.5	1-10	IND	Wk 9 (2 hrs)	Next term	
Attendance project meetings & guest lectures	ASSI	0	pass	pass /fail	IND		Next year	
Company project	PROJ	2	5.5		GRP	Wk 10	Next year	
- Report		75%	4.0	1-10	GRP	Wk 9		
- Presentation (combined with IF2433)		25%	4.0	1-10	GRP	Wk 9		
Study materials								
Title	Author		Status		Туре	Code/comment		
Study Manual	Van Helvo	,	Require		Via Blackboard	Updated e year	very	
Changing the Food Game (2014)	Simons, L	•	Require		Book	ISBN 97817835		
Sustainable sourcing of agricultural raw materials. A practitioner's guide (2015)	SAI		Required	d	Article, via Blackboard	Article UR	L	
Lecture hand-outs, add. literature and articles	Various Required Via BlackBo				Via BlackBoard	Indicated	per year	
Estimated cost								
Cost item	Approximate cost in € Comments							
Literature/books	€ 35				Book (Simon			
Other travel	€ 20			Company vis transportation estimated contransport.	n. Based or	า		
Remarks	1 · · · · r · ·							

Course information sys	Year of study: 2017-2018 Version: draft 5-2017						
Study Programme	International Food and Agribusin						
Course unit code	IF2421 (2 terms)						
Course unit title	Food Domain Track						
Location	Den Bosch						
Coordinator	Barbara van Mossevelde (MoB)						
Type of course unit							
Language of	English						
instruction	English						
Credits (ECTS)	6						
Moment of delivery	Year 2 Term 1+2						
Prerequisites	IF1404 Intro Food						
Application deadline	1-5-2017						
Content	In term 1 'Product safety and Int	cornational Food Cafety 9:					
	Integrity Issues' students learn as in food production by analysing a addition, they learn about an integrity issue, by building a dost relevant information. Topics coverelevant information and microlevant international food safety organization. International food safety organization. International food safety organization. Topics consumer perception of food Dossier building & Developing collecting and selecting information. In term 2 'Health & Nutrition' student intervention strategy, based on formation in an international containtervention strategy, based on formation to food intervention strategies. Nutrients and nutritional values. Food in relation to human health food intervention strategies. Fortification	about food safety and hazards a processed food product. In ternational food safety or food sier; collecting and selecting ered are:  Id analysis piological contamination safety g a point of view based on mation adents learn about health & text by developing a food fortification, to reduce a sig country. This food d through an advisory report, sation.					
Learning outcomes	The module contributes to the fo 3. Contributing to sustainable introcessing/nutrition)  9. Doing research  After successful completion, the Ad 3  - analyse a food safety or integrated as well as consumers  o explain in general terms, by a giving examples, how hazards prevented  o illustrate the impact of unsafe	student is able to: grity issue at various ernments, to food companies asing categories of measures and in food processing can be erfood on global society trategy to improve nutritional deficiency) leas to combat malnutrition in a					

	<ul> <li>demonstrate awareness that cultural differences are present between different societies</li> <li>Ad 9</li> <li>initiate a research question and hypothesis based on a given case</li> <li>compose a research proposal</li> <li>apply various research methodologies for collection of (primary)data of acceptable quality</li> <li>describe relevant research methodologies (experiments)</li> <li>indicate elements of a research report</li> </ul>						
Learning activities	Method					Stud	ly load
and teaching						(	hours)
methods	Theory is	•		•	ruction		56
	lectures, For the a				d aroun		96
	project ir	_			•		50
	schedule						
	project						
	Practicals Total	s + prep	aration i	n term	1+2		16 <b>168</b>
Test matrix	IUlai						100
	_						
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Assignment, attendance, practical (term 1)	ASSI	2	4.0	1-10	IND	Wk 10 T1	Next term
Project (report incl. research proposal + presentation), attendance, practical (term 2)	PROJ	3	4.0	1-10	GRP	Wk 8 T2	Next year
Oral exam (on term 1+2)	ORAL	5	4.0	1-10	IND	Wk 10 T2	Next
Chudu makariala						(30 min.)	term
Study materials Title	Author		Status		Туре	Code/cor	nment
Study Manual Food Domain Track	B. van Mosseveld	le	Require		Via Blackboard	Updated ea	
Introduction to Food Science & Food Systems	R. Parker Pace	and M.	Require	d	Book	ISBN97814 94 (in posse from yr 1)	ession
How to Do Research	Grit, R. ar Julsing, M		Require	d	Book, website, templates	ISBN97890 30 (used throughout curriculum)	018612
Project Management	Grit, R. Required			Book, website, templates	ISBN97890 29 (in posse from yr 1)	ession	
Lecture hand-outs, add. literature, articles.	various		Require	d	Via BlackBoard	Indicated p	er year
Estimated cost							
Cost item	Approxi	mate co	st in E		Comments		
Literature/books Remarks	€26 Module is	reformul	ated from	3 to 2 t	How to do Re		
	i inoudie 15	Module is reformulated from 3 to 2 terms. Assessment units altered.					

Course information sys	stem		tudy: 2017-2018 ion: draft 5-2017					
Study Programme	International Food and Agribusin							
Course unit code	IF2423 (2 terms)							
Course unit title	Animal Production Domain							
Location	Den Bosch							
Coordinator	Gerben Hofstra (HoG)							
Type of course unit								
Language of	English							
instruction								
Credits (ECTS)	6							
Moment of delivery	Year 2 Term 1+2							
Prerequisites	IF1413 Animal Production Syster	ns						
Application deadline	1-5-2017							
Content	The Animal Production Domain in	n vear 2 focus	ses on:					
	<ul> <li>Term 1: Feed, Forages and Leg Diseases. Also, the subject of a covered.</li> <li>Term 2: Housing, Climate, Clim subject of health programmes</li> </ul>	guminosis, Fe animal breedi nate related I	eed related ing programmes is					
	The main question during the monoproduction sustainable for the checountry, outside Europe?  Lectures, together with excursion an individual research on the top	osen animal ns and cases ics.	in a chosen are the input for					
Learning outcomes	The module contributes to the fo 3. Contributing to sustainable inr production) 9. Doing research  After successful completion, the Ad 3	novation in a	sector (animal					
	<ul> <li>apply information on feed and feed related diseases in an international animal surroundings</li> <li>apply information on housing, thermo-comfort zone, climate and climate related diseases in an international animal surroundings</li> <li>apply information on breeding and health programmes in an international animal surroundings</li> <li>identify possibilities for sustainable intensification and agroecological solutions for challenges in the international animal production chains</li> </ul>							
	<ul> <li>Ad 9</li> <li>initiate a research question and hypothesis based on a given case</li> <li>compose a research proposal</li> <li>apply various research methodologies for collection of (primary)data of acceptable quality         <ul> <li>describe relevant research methodologies (experiments)</li> <li>indicate elements of a research report</li> </ul> </li> </ul>							
Learning activities	Method Study load							
and teaching	Lockumos (ha musuida blassina da	not six = ==	(hours)					
methods	Lectures (to provide theory, at le	east six per	28					
	term)	to provide						
	Guest lectures by professionals ( context)	to brovide						
			20					
	Private study		28					

	Tutor meetings (by lecturer focused on individual report, appr. 3 per term)						14
	Assignme project (	ent(s) ar	ction		84		
	Excursion	ns (1 pe	r term)				14
	Total						168
Test matrix							
Part	Type of examination	Weighting factor	<b>Bottom</b> grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Assignment(s) & attendance	ASSI	2	4.0	1-10	IND	Wk 10 T1, 2	Next year
Project (report incl. research proposal + presentation)	PROJ	3	4.0	1-10	GRP	Wk 10 T2	tbd
Oral exam (on term 1+2)	ORAL	5	4.0	1-10	IND	Wk 10 T2 (30 min.)	Next term
Study materials							
Title	Author	_	Status		Туре	Code/cor	
Study Manual Animal Domain Track	G. Hofstra Bouwman	•	Require	Required Via Blackboa		Updated ea	ch year
How to Do Research	Grit, R. ar Julsing, M		Required		Book, website, templates	ISBN97890 30 (used throughout curriculum)	
Project Management	Grit, R.		Require	d	Book, website, templates	ISBN97890 29 (in poss from yr 1)	017909
Lecture hand-outs, additional literature and articles	various		required	I	Via BlackBoard	Indicated p	er year
Estimated cost							
Cost item	Approxi	mate co	ost in €		Comments		
Literature/books	€26				How to do Re		
Other travel	€40	€40 Sm owr esti				ion / group v rtation. Base ests for public	d on
Remarks	There will animals in compariso recommer for the given	Module is reformulated from 3 to 2 terms. Assessment units altered. There will be one research report with information about one or two animals in one high input country and one low input country. Thus a comparison can be made. Also the research report should lead to a recommendation for further research; how to improve sustainability for the giving animal in the two countries? The final chapter will be a project proposal for further research.					r two hus a to a bility

Course information sys	stem		study: 2017-2018 ion: draft 5-2017					
Study Programme	International Food and Agribusin							
Course unit code	IF2424 (2 terms)							
Course unit title	Crop Production Domain							
Location	Den Bosch	Den Bosch						
Coordinator	Roger Watts (WaR)							
Type of course unit								
Language of	English							
instruction								
Credits (ECTS)	6							
Moment of delivery	Year 2 Term 1+2							
Prerequisites	IF1412 Crop Production Systems							
Application deadline	1-5-2017							
Content	This module with give student and development of plants in the constant presented looks at how requirements on a macro and minsights on why crop production module highlights the steps grow successful crop production and the overcome to optimize production	text of crop plants develor de	production. The op and the gain greater developed. The follow for					
	The module will include self-guid assignments and group projects are presented during lectures. In the students firsthand experience plant growth and development.	to apply the n addition pr	knowledge they actical's will give					
Learning outcomes	The module contributes to the fo 3. Contributing to sustainable inr production) 9. Doing research							
	After successful completion, the standard as:  - illustrate how plant morpholgy production  - demonstrate how plant physiol  - illustrate the stages for crop productivity  - demonstrate knowledge of pessions.	and anatom ogy impacts oduction and	y impact crop crop production d their importance					
	for crop production  - demonstrate the requirements and characteristics that define organic agricultural production  - explain the basics of the methods of plant improvement  - compare and contrast agro-ecology and environment on crop productivity							
	Ad 9 - initiate a research question and case - compose a research proposal - apply various research method (primary)data of acceptable questions of a research method indicate elements of a research	ologies for coality	ollection of (experiments)					
	Method		Study load (hours)					

Learning activities and teaching methods  Test matrix	Theory is provided in weekly instruction lectures, plus private study Practical (lab) Crop Blog Assignment Crop Production Project Total						26 22 56 168 hrs
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Weblog Assignment Practical	ASSI	2	4.0	1-10	IND	Wk 10	Next term
Project (report incl. research proposal +presentation)	PROJ	3	4.0	1-10	GRP	Wk 10	tbd
Written test (on term 1+2)	WRT	5	4.0	1-10	IND	Wk 9 T2 (2 hrs)	Next term
Study materials						(2 1113)	CCITIT
Title	Author		Status		Туре	Code/co	mment
Study Manual Crop Domain Track	R. Watts		Required		Via Blackboard	Updated e	each year
Introduction to Agronomy 2nd edition	Shaeffer,	Craig C	Required		Textbook	ISBN 978- 1233-6	-1-1113-
How to Do Research	Grit, R. ar Julsing, M		Required		Book, website, templates	ISBN9789 30 (used throughou curriculum	ıt
Project Management	Grit, R.		Required		Book, website, templates	ISBN9789 29 (in pos from yr 1)	session
Lecture hand-outs, additional literature and articles.	various		Required	d	Via BlackBoard	Updated 6	each year
Practical Manual			Required	d	Via Blackboard	Updated e	each year
Estimated cost							
Cost item	Approxi	mate co	st in €		Comments	;	
Literature/books Other travel	€26 €98	€98			How to do Re Intro to Agro	esearch/Gri nomy	
		€30			Small excurs own transport estimated contransport.	rtation. Bas sts for publ	ed on ic
Remarks	Module is	Module is reformulated from 3 to 2 terms. Assessment units altered.					

Course information sys	stem		tudy: 2017-2018 ion: draft 5-2017			
Study Programme	International Food and Agribusi					
Course unit code	IF2431					
Course unit title	Coaching & Skills 2.1					
Location	Den Bosch					
Coordinator	Janine Jalving (JaJa)					
Type of course unit						
Language of instruction	English					
Credits (ECTS)	2					
Moment of delivery	Year 2 Term 1					
Prerequisites	None					
Application deadline	1-5-2017					
Content	The main goal of the module Co	aching & Skill	s is to teach the			
Content	student how to instigate his or lon self-knowledge, personal more reflection, and feedback. The more reflect on personality, behavior, students with tools for change at them guidelines for reaching per Moreover, the module Coaching improve their language and conwell as their intercultural sensitions lies on developing the studevel C1, according to CEFR) and In term 1 the students are train business communication skills stelephoning.	ther personal destivation, learn odule offers of attitude, etc. and improvements on all objectives and improvements on all objectives at the second of the s	evelopment based ling goals, self-pportunities to It supplies ent and offers ves. Ulates students to kills in English, as econd year, the language (up to cion skills.			
Learning outcomes	The module contributes to the f 5. Providing advice  After successful completion, the Ad 5:  - use the English language flexi academic and professional pu and including argumentation ouse text, video and other mainformation for debates, but increase their vocabulary (vorespond to work-related emacolleagues and complaints from communication)	e student is ab ibly and effect rposes, both v (business com aterials as a so also as an eff erbal commun ails, such as fo	le to:  ively for social, verbal and written, munication) ource of fective means to ication) eedback from			
Learning activities and teaching methods	Practicals (5x 2hrs) Homework assignments, incl. programments and control preparation Writing Exam (incl. preparation) Total		Study load (hours)  10 36 4 6			
Test matrix						

Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Oral exam Business Communication	ORAL	1	4.0	1-10	IND	Wk 7 or 8	Next term
Written exam Business Communication	WRT	1	4.0	1-10	IND	Wk 9	Next term
Study materials							
Title	Author		Statu	S	Туре	Code/d	comment
Study Manual (Coaching & Skills IF2)	Various		Required		Via Blackboard	Updated year	d each
Materials for Business English	Various		Required		Via Blackboard	Updated year	d each
Estimated cost							
Cost item	Approxi	mate c	ost in	€	Comments		
n.a.							
Remarks	-						

Course information sys	tem					tudy: 2017- ion: draft 5-	
Study Programme	Internati	onal Foo	d and A	aribusin			
Course unit code	IF2432						
Course unit title	Coaching	& Skills	2 2				
Location	Den Boso						
Coordinator	Janine Ja		ala)				
Type of course unit	⊠ Manda			datory			
		tory $\square$ iv	iot iliai	iuatoi y			
Language of instruction	English						
Credits (ECTS)	2						
Moment of delivery	Year 2		Term 2	)			
Prerequisites	None						
Application deadline	1-5-2017	7					
Content			dents s	tart mak	ing plans for	their third st	udv
	year, wh or Minors for possi lies on w	ich consi s (at HAS ole appli riting let edia in no	sts of to or oth cations ters of etworki	raineesh er Unive and job application	ips, exchangersities). To pinterviews, thon, drawing u	e programs a roperly prepa he focus this up CVs, using ne job search	ind/ are term
Learning outcomes		ule conti rking & i	ributes influenc	ing		am qualificat	ions:
Learning activities	Ad 6:  - commuowrite busin ouse s ohave and h Ad 7:  - show i oansw consu oreflect - formul (asses	unicate e a letter ess Engl ocial me a job int is USP's nsight in er the qu ultant?' et on teal ate SMA sed term	effective of appli ish dia in n erview his/he uestion m dyna RT pers	ely cation are etworkin in Englis r persona 'Who am mic and onal lear	g activities 8 h, in which h al strengths ( I as an entr own persona ming aims fo	n CV in propose online job so the presents however, assessed terments the control of the control	earch imself m 4) d lour') future
and teaching	method					_	
methods	Dractical	: (2) \ o+	tors of	Applicati	on'	(II	ours)
methous	Practicals Worksho				UII		4
	Homewo			•	stuay		36
	Oral exa			tion)			2
	Writing a	ssignme	nt				10
	Total 56						56
Test matrix							
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit

Letters of Application	ASSI	1	4.0	1-10	IND	Wk 6 or 7	Next
							term
Job Interview	ORAL	1	4.0	1-10	IND	Wk 7, 8 or	Next
						10	term
Study materials							
Title	Author		Statu	S	Туре	Code/com	ment
Study Manual	Various		Requir	ed	Via	Updated eac	h year
(Coaching & Skills IF2)					Blackboard		
Quality E-E dictionary			Requir	ed	Online	n.a.	
Estimated cost							
Cost item	Approximate cost in €			Comments			
n.a.						·	
Remarks							

Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017				
Study Programme	International Food and Agribusi					
Course unit code	IF2433					
Course unit title	Coaching & Skills 2.3					
Location	Den Bosch					
Coordinator	Janine Jalving (JaJa)					
Type of course unit						
Language of	English					
instruction	Liigiisii					
Credits (ECTS)	3					
Moment of delivery	Year 2 Term 3					
	None					
Prerequisites  Application deadline						
Application deadline Content	1-11-2017 In term 3 the students learn ho	to sive an authorizational a				
	pitch, in which they present the investors. They also practice ho By doing so they enhance their presentation techniques, and deperformance.  To determine their individual level their studies, the students also language test of the British Cou Based on that, they develop a sindividual language skills.	by business idea to possible by to pitch their financial plan. business vocabulary, train their evelop their personal evel of English at this point in take the APTIS General encil at the end of this term. Etrategy to develop their en an International Excursion to distudy the agri- and foode e destinations differ per year,				
Learning outcomes	1. Improving sustainability of th 4. Contributing to international 5. Providing advice 6. Networking & influencing 7. (Self)-reflection and judgeme  After successful completion, the Ad 1:  orecognise sustainability asper food system in practise Ad 4:  oreflect on opportunities in as chains in the country visited excursion  Ad 5:  use the English language flexi academic and professional put and including argumentation ogive a proper sales pitch and English (verbal communication successfully complete an Enfor details)  Ad 6:  proactively get in contact with	business development  ent estudent is able to: ects with actors within a agri- gri-food markets and supply during the international ibly and effectively for social, proses, both verbal and written, d presentation in business ion) glish test at C1 level (see CEFR				
	<ul><li>apply basic networking skills</li><li>apply acquisition skills</li><li>arrange an internship for ye</li></ul>	-				

Learning activities and teaching methods	oansw consu - formul - reflect <b>Method</b> Business presenta Worksho Coaching IF3)	<ul> <li>show insight in his/her personal strengths (assessed of answer the question 'Who am I as an entreprened consultant?'</li> <li>formulate SMART personal learning aims for the (note of the consultant) of the consultant of the consul</li></ul>					nd future		
Test matrix									
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual / Group work	Time of examination (duration)	Resit		
International Excursion (Participation, preparatory sessions)	EXCU	0	pass	pass/ fail	IND	Wk tbd (1 wk)	tbd		
Business Communication	ASSI	0	pass	pass/ fail	IND	Wk 8 or 10	Next term		
Coaching (incl. Study plan)	ASSI	0	pass	pass/ fail	IND	Wk 1-10	tbd		
APTIS Test	ASSI	0	pass	pass/ fail	IND	Wk tbd (3 hr)	Yr 4		
Study materials									
Title	Author		Statu		Туре	Code/cor			
Study Manual (Coaching & Skills IF2) Quality E-E dictionary	Various Required Via Blackboard Required Online				Updated e year n.a.	ach			
Estimated cost									
Cost item	Approxi	mate c	ost in	€	Comments				
International excursion Remarks	€ 650-850 -					estination / t	Depends on destination / tbd		

Course information sys	tem Year of study: 2017-2018 Version: draft 5-2017
Study Programme	International Food and Agribusiness
Course unit code	IF2435
Course unit title	Circular Economy 1
Location	Den Bosch
Coordinator	Mieke van Eerten-Jansen (EeMi)
Type of course unit	
Language of	English
instruction	
Credits (ECTS)	4
Moment of delivery	Year 1 Term 1
Prerequisites	None
Application deadline	1-5-2017
Content	Food in a bio-based and circular economy comprises three aspects: - Efficient use of resources
	- Efficient use of food - Efficient use of residuals  This module focuses on 'Efficient use of resources' and 'Efficient use of residuals', centralised around four core themes:  Efficient use of resources  Our current food production system – with a focus on primary production – gives high yields per hectare, but also requires high inputs and gives a lot of emissions. In this module, agroecology is covered as an alternative to current food production systems. Also, soil quality and its role in sustainable food production is covered.  Efficient use of residuals  About 1/3 <sup>rd</sup> of our food produced is either lost or wasted.  Although there are efforts to lower these numbers, it is inevitable that there will be food losses and waste in the future (e.g. non-edible parts of plants). Therefore, in this module the focus is on valorising these residuals. With anaerobic digestion – a mature technology applied worldwide – residuals can be converted into biogas and mineral-rich digestate (soil amendment). Bio-refinery aims to use residuals at its full potential; e.g. as alternative protein source.  In an assignment, students will specialise themselves in one of
Learning outcomes	these four themes.  The module contributes to the following program qualifications:  2. Applying bio-based & circular economy principles in agri-food systems  9. Doing research
	After successful completion, the student is able to:  Ad 2:  - interrelate basic knowledge on agro-ecology, soil quality and organic residue  - apply the principles of agro-ecology to an agri-food company  - apply the principles of soil quality conservation and improvement to an agri-food company  - discuss composting and anaerobic digestion as valorization option for organic residues for an agri-food company

Course information sys		study: 2017-2018 ion: draft 5-2017					
Study Programme	International Food and Agribusiness						
Course unit code	IF2436						
Course unit title	Circular Economy 2						
Location	Den Bosch						
Coordinator	Mieke van Eerten-Jansen (EeMi)						
Type of course unit	☑ Mandatory □ Not mandatory						
Language of	English						
instruction							
Credits (ECTS)	3						
Moment of delivery	Year 1 Term 3						
Prerequisites	None						
Application deadline	1-11-2017						
Content	Food in a bio-based and circular economy coraspects:  - Efficient use of resources - Efficient use of food - Efficient use of residuals This module focuses on 'Efficient use of residuals  Efficient use of residuals In this module, focus is on valorisation of ligromaterials; converting wheat and rice straw in bioplastics. Globally, rice straw is the third larresidue, and currently it is mostly burnt in the	uals'. nocellulosic nto bio-ethanol and rgest agricultural e fields or					
	mulched. Rice straw, however, could be turned into bio-ethanol or bioplastics.  Students calculate on a bio-based business case, and thereby practice their excel skills. Besides, they will learn about important unit operations, such as fermentation, in converting by-products into bio-based products.						
Learning outcomes	The module contributes to the following programs.  2. Applying bio-based & circular economy prince systems  After successful completion, the student is about Ad 2:  - determine the techno-economic feasibility be basic technological and economical knowled explain the unit operations used in biobat processes  - calculate a simple business case using calculate a simple	ole to:  oly interrelating lige sed production  apacity and cost oliers  oliers  oliers  oliens					
Learning activities	Method Study load						
and teaching methods	Theory is provided in weekly instruction lectures. Context is provided by guest lectures by professionals.	(hours) 20					
	Private study 28						
	Work lectures on business case and unit operations	28					
	Excursion; visit an agri-food company applying bio-based and circular economy	8					

	principles, to learn about bio-based and circular economy in practice.						
	Total	conomy	in pract	ice.			84
Test matrix	1000						
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Test on bio-based business case	ASSI	1	5.5	1-10	IND	Wk 10	Next term
Assignment on bio-based business case (excel)	ASSI	0	pass	pass/ fail	IND	Wk 8	Next year
Attendance/participation	ASSI	0	pass	pass/ fail	IND	Wk 8	tbd
Study materials		•	•	•		•	
Title	Author		Status		Туре	Code/comment	
Study Manual Circular Economy 2	V. Eerten- and Van d		Require	d	Via Blackboard	Updated year	every
Lecture hand-outs, additional literature and articles.	various Required			Via BlackBoard	Indicate	d per year	
Estimated cost							
Cost item	Approxi	Approximate cost in € Comments					
Literature/books	0						
Group Excursion (by bus)	€15						
Remarks	This is a new module, and partly based on IF2422 Biobased Economy Domain 2016-2017.						

Course information sys	stem	Year of study: 2017-2018 Version: draft 6-2017							
Study Programme	International Food and Agribusing								
Course unit code	IF2437								
Course unit title	Business Plan 1 (BPlan1)	Business Plan 1 (BPlan1)							
Location	Den Bosch								
Coordinator	Hielke van der Meulen (MeHi)								
Type of course unit									
Language of	English								
instruction	9								
Credits (ECTS)	4								
Moment of delivery	Year 2 Term 3								
Prerequisites	None								
Application deadline	1-11-2017								
Content	This module covers:								
Contone	<ul> <li>Developing an own business p</li> <li>Statistical analysis of a small</li> </ul>								
Learning outcomes	The module contributes to the fol 4. Contributing to international be 9. Doing research	lowing program qualifications:							
	<ul> <li>identify potential compositions execute a market rese</li> <li>draft the financial components of draw up an investment of make a cash flow calculation.</li> <li>demonstrate entrepreneurship business plan (in IF2439 BPla of explain processes of in development)</li> <li>Ad 9:</li> <li>analyse and judge collected deformulating conclusions of perform some basic standard deviation, free square, analysis of var</li> </ul>	ific product tential for a specific product(s) petition using relevant models arch for a business idea s of a business plan t plan ulation by means of developing a n 2) novation and business  ata for discussion and atistic calculations (f.i. mean, equencies, crosstabs, Chi- iance) on a given data set making use of statistical m or comparable)							
Learning activities	Method	Study load							
and teaching	(hours								
methods	Thematic lectures 20								
	Working lectures, interactive	5							
	Guest lectures	5							
	Company visit	5							
	Project: business plan (concept)	50							
		27							
	Private study/exam 27								

	Total					112	
Test matrix							
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written exam Business	WRT	1	4.0	1-10	IND	Wk 9	Next
(entrepreneurship)	MART	_		1 10	TNID	(2 hrs)	term
Written exam Statistics	WRT	1	5.5	1-10	IND	Wk 9 (2 hrs)	Next term
Project	PROJ	2	4.0	1-10	IND	Wk 10	tbd
Attendance and excursion(s)	EXCU	0	pass	pass/ fail	IND	Wk 1-10	tbd
Study materials	Study materials						
Title	Author		Status		Туре	Code/comment	
Study Manual Business Plan 1	H. van dei Meulen	r	Required		Via Blackboard	Updated e	each year
Entrepreneurship; Starting and Operating a Small Business	S. Mariott Glackin (2 Prentice H	2014,	To be determined		Book	ISBN 978- 013278408	35
Statistics and SPSS	HAS Unive		Require	d	Reader, digitally via BlackBoard		
Lecture hand-outs, add. literature and articles	various				Via BlackBoard	Indicated	per year
<b>Estimated cost</b>							
Cost item	Approxi	Approximate cost in € Comm					
Literature/books	€ 50			Entrepreneurship book or other. Used in Business plan 1 and 2.			
Group Excursion (by bus)	€ 15			Admission/travel			
Other travel	€ 20			Project work transportation location.	n. Dependi	ng on	
Remarks	IF2403 Business plan 1 (5 ECTS/T2) and IF2426 Business plan 2 (5 ECTS/T3) are replaced by this module IF2437 BP1 (4 ECTS/T3) and IF2439 Business plan 2 (6 ECTS/T4)						

Course information sys	Year of study: 2017-2018 Version: draft 5-2017						
Study Programme	International Food and Agribusiness						
Course unit code	IF2438						
Course unit title	Food Governance						
Location	Den Bosch						
Coordinator	Bram van Helvoirt (HeBr)						
Type of course unit	☑ Mandatory □ Not mandatory						
Language of	English						
instruction	_						
Credits (ECTS)	5						
Moment of delivery	Year 2 Term 2						
Prerequisites	None						
Application deadline Content	1-5-2017 Within the Food Governance module, the following topics are						
Content	covered:  International and EU Food Law  International (food) trade regulation  Food safety regulation  Public and private governance of agri-food chains  Policy implementation and compliance  Policy (in)coherence and food politics  Governance of sustainable food production and trade  Ethics in global food trade						
Learning outcomes	The module contributes to the following program qualifications:  1. Improving sustainability of the Global Agri-food system  4. Contributing to international business development  7. (Self)-reflection and judgement  8. Project management						
	After successful completion, the student is able to:  Ad 1:  - explain the rationale behind the different elements of food governance and their interconnectivity (ad 1)  o identify the different food-related policies and involved organisations at different levels of scale  describe the processes behind food policy making and the key actors involved  discuss the implementation of food (safety) policies  understand the basic principles of European Agricultural Policy  indicate key principles of international trade and trade agreements  interpret the implications of food policies on food chain actors in different parts of the world  distinguish policy (in)coherences in global food governance and discuss its implications  conduct trade and policy research that allows to draw conclusions on the export potential of food products from a developing country  Ad 4:  demonstrate a basic understanding of trade policy and instruments  understand the logic of trade benefits  identify pros and cons of free trade and protection in food and						
	trade policy for both countries and companies  Ad 7: - reason logically on simple ethical issues (ad 7) o critically reflect upon ethical issues in a clearly defined international and intercultural setting, from a personal perspective						

Learning activities and teaching methods	Ad 8:  - write a well-structured report about a project     o write a well-structured report in cooperation with peers  - act as a project leader (name, oversee and divide tasks, and coordinate the process) (or within another Y2 module)  - show effective communication and collaboration skills as project team member  - complete tasks and prioritise within a project with multiple elements  Method  Study load (hours)  (Guest) lectures  25  Tutorials & scheduled project meetings  8  Excursion						
	Exam and		tion				3
	Ethics (le						28
	Self-stud	y, incluc	ling proje	ect assi	gnment		68
Toct matrix	Total						140
Test matrix							
Part	Type of examination	<b>Weighting</b> factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written exam on Food	WRT	2	4.0	1-10	IND	Wk 9	Next term
Governance curriculum						(2 hrs)	
Assignment Ethics Attendance excursion &	ASSI EXCU	0	5.5 pass	1-10 pass/	IND IND	Wk 7 Wk 10	Next term Next year
guest lectures	LXCO	U	pass	fail	IND	VVK 10	or tbd
Project Getting food into Europe	PROJ	2	4.0		GRP/IND	Wk 10	
- Country report		40%	4.0	1-10	GRP	Wk 9	Next year
<ul><li>Product report</li><li>Presentation</li></ul>		40% 20%	4.0	1-10 1-10	IND GRP	Wk 9 Wk 5	Next term Next year
Study materials					274		none your
Title	Author		Status		Туре	Code/c	comment
Study Manual	Van Helvo	irt, B.	Require		Via Blackboard	Updated year	,
Roadmap to EU food law (2011)	Scholten- Verheijen, al.	I., et	Required		Book	ISBN978 62, Eleve Publishir	
The Ethical Cycle (Journal of Business Ethics, 2007)	Van de Po Royakkers	, ,	Require	d	Article, via Blackboard	Article, via Article URL	
Lecture hand-outs, add. literature and articles	Various		Require	d	Via BlackBoard	Indicate	d per year
Estimated cost							
Cost item	Approximate cost in € Comments						
Literature/books Group Excursion (by bus)	€50 €20				Roadmap  Excursion to	Brussels i	(FC)
Other travel	€20 Excursion to Brussels (EC) €20 Interview with expert, by own						
					transportatio	n/public t	ransport.
Remarks	Rotterdam	Different from last year; the excursion will be to Brussels. Excursion to Rotterdam harbour is moved to IF2416 Supply Chain Management Replaces module IF2404 Food Governance (6 ECTS).					

Course information sys	stem	Year of study: 2017-2018 Version: draft 7-2017					
Study Programme	International Food and Agribusing						
Course unit code	IF2439						
Course unit title	Business Plan 2 (BPlan2)						
Location	Den Bosch						
Coordinator	Hielke van der Meulen (MeHi)						
Type of course unit	Mandatory □ Not mandatory						
Language of	English						
instruction	Liigiisii						
Credits (ECTS)	6						
Moment of delivery	Year 2 Term 4						
Prerequisites	IF2437 Business Plan 1 (BPlan1)						
Application deadline	1-11-2017						
Content	This module covers:						
Content	<ul> <li>Developing a full-fledged busi from BPlan1)</li> <li>Financial statements and final</li> </ul>						
Learning outcomes	The module contributes to the fol 4. Contributing to international be						
	The module builds on the learning Plan 1, and in addition:	g objectives of IF2437 Business					
	After successful completion, the second demonstrate entrepreneurship business plan  identify his/her entrepreneur those of fellow students and general  elaborate the management a business plan  conclude on the feasibility of idea  draft the financial components  draw up a profit and loss stated draw up a balance sheet and compose a proper financing plate financing options  explain the role of finance for behigh- and low-income economics	by means of developing a rial qualities, compare them to successful entrepreneurs in aspects of a new venture in a r a self-elaborated business of a business plan tement and draw conclusions d corresponding ratios n and compare different usiness development, both in					
Learning activities	Method	Study load					
and teaching		(hours)					
methods	Thematic lectures	25					
	Working lectures, interactive 5						
	Guest lectures 10						
	Company visit	10					
	Project: business plan	60					
	Private study/exam	58					
	Total	168					
	Total 168						

Test matrix	Test matrix						
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written exam Business	WRT	1	4.0	1-10	IND	Wk 9	Next term
(entrepreneurship) Project (incl. Financials) - Report - presentation	PROJ	2	4.0	1-10	IND	(2 hrs) Wk 10	tbd
Attendance and excursion(s)	EXCU	0	pass	pass/ fail	IND	Wk 1-10	tbd
Study materials							
Title	Author		Status		Туре	Code/co	mment
Study Manual, 1718	H. van de Meulen	r	Required		Via Blackboard	Updated each year	
Entrepreneurship; Starting and Operating a Small Business	S. Mariott Glackin ( Prentice H	2014,	To be determ see BP1		Book	ISBN 978 01327840	
Business Financials	HAS Unive		Require	d	Reader, digitally via BlackBoard		
Lecture hand-outs, add. literature and articles	various				Via BlackBoard	Indicated	per year
Estimated cost							
Cost item	Approxi	mate co	st in €		Comments		
Literature/books					Already in po		e BP1
Group Excursion (by bus)	€ 15				Admission/tr		
Other travel	€ 20			Project work transportation location.			
Remarks	IF2403 Business plan 1 (5 ECTS/T2) and IF2426 Business plan 2 (5 ECTS/T3) are replaced by IF2437 BP1 (4 ECTS/T3) and this module IF2439 Business plan 2 (6 ECTS/T4)						

Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017						
Study Programme	International Food and Agribusing							
Course unit code	IF2440							
Course unit title	Coaching & Skills 2.4							
Location	Den Bosch							
Coordinator								
Type of course unit								
Language of	English							
instruction	2.19.13.11							
Credits (ECTS)	1							
Moment of delivery	Year 2 Term 4							
Prerequisites	None							
Application deadline	1-11-2017							
Content	In term 4 the students finalise their plan for study year 3, and discuss the outcomes with their coach. They also reflect upon their personal development over the past 2 years. They evaluate their learning aims, and use the feedback received from their lecturers, coach, and fellow-students. In addition, they undertake diverse extra-curricular activities (self-management, 20 hours in total) which add to personal and/or professional development.							
Learning outcomes	The module contributes to the fol 7. (Self)-reflection and judgemen 8. Project management  After successful completion, the set Ad 7:  - show insight in his/her personation of answer the question 'Who am consultant?'  - formulate SMART personal lear reflect on his/her personal deveragive and receive feedback, and leading to the formation of a personal deverage act as a project leader (name, coordinate the process) (based 2 modules)	student is able to:  Il strengths I as an entrepreneur and  ning aims for the (near) future elopment judge external information ersonal opinion  oversee and divide tasks and						
Learning activities	Method	Study load						
and teaching		(hours)						
methods	Self-management	20						
	Coaching (Talent-Based, incl. stu							
	Total	28						

Test matrix							
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Coaching (reflection report and Study plan for IF3)	ASSI	0	pass	pass/ fail	IND	Wk 8 or 10	Next term
Self-management	ASSI	0	pass	pass/ fail	IND	Wk 8 or 10	Next term
Study materials							
Title	Author		Statu	s	Туре	Code/con	nmen
Study Manual (Coaching & Skills IF2)	Various		Required		Via Blackboard	Updated ea year	ch
Quality E-E dictionary			Required		Online	e n.a.	
Estimated cost							
Cost item	Approximate cost in €			Comments			
n.a.							
Remarks	-						

# YEAR 3

ILAK 3							
Course information sys	stem	Year of study: 2017-2018 Version: draft 5-2017					
Study Programme	International Food and Agribus						
Course unit code		23/30 (various codes depending					
	on length of internship period)						
Course unit title	IFA third-year elements: inter	nship(s), minor(s)					
Location	Den Bosch or elsewhere						
Coordinator	Peter van Schie						
Type of course unit	Mandatory □ Not mandatory						
Language of	English						
instruction							
Credits (ECTS)	60 ECTS in total; elements of (15 wks) or 30 ECTS (20 wks)	15 ECTS (10 wks), 22 or 23 ECTS					
Moment of delivery	Year 3 Term 1-4						
Prerequisites	Propaedeutic diploma						
	Minimum of 40 ECTS from IFA	second year modules					
Application deadline	1-5-2017						
Content  Learning outcomes	Practical and theoretical experience in an organisation or company in the future professional field, and at the HAS or other university.  At least one element is in the student's chosen domain, at least one element is in an international business environment, and at least one element is abroad.						
	The total of elements in year 3 contribute to the following program qualifications:  1. Improving sustainability of the Global Agri-food system 3. Contributing to sustainable innovation in the sector of student's chosen domain 4. Contributing to international business development 5. Providing advice 6. Networking & influencing 7. (Self)-reflection and judgement 8. Project management 9. Doing research						
	(animal production, crop pronutrition) in an international identify opportunities in agrin developing as well as estable contribute to business contribute to business contribute a well-argued advimprovement of operational the international agri-food second in the internation of a personal opin coordinate and execute a sir	ystems and contribute to a d situation (ad 1) ological) processes in a sector oduction, or food processing and context (ad 3) -food markets and supply chains ablished countries and with that is development in a clearly arranged ice towards sustainable management on business level in ector (ad 5) in the international food system udge external information and nical issues, leading to the					

	- formulate a research question and execute a simple, well- guided research (9)								
Learning activities and teaching	Method					Study load (1 ECTS = 28 hrs)			
methods	Internshi Minors (ii Total	min. 30 and max.45 min. 15 and max.30							
Total 60 ECT Test matrix (Internships)									
Part	Type of examination Weighting factor Bottom grade Rating scale Individual/ Group work					Time of examination (duration)	Resit		
Internship	ASSI	1	5.5	1-10	IND		tbd		
- Process/reflection (part of report)	30%		5.5	1-10	IND	within 1 wk of end	Retake entire internship		
- Report		40%	5.5	1-10	IND	within 1 wk of end	Rewrite within 1 term		
<ul> <li>Company assessment (serves as advice towards result for process)</li> </ul>		0	5.5	1-10	IND	within 1 wk of end	n.a.		
- Assessment interview		30%	6.0	1-10	IND	within 1 month of end	In consul- tation with HAS supervisor		
Study materials									
Title	Author		Stati	us	Type	Code/comment			
Study Manual 'IFA Third- year internships and minor programmes'	Esther var Lieshout	1	Requi	red	Via Blackboard	Updated each year			
Project Management, a practical approach	Grit		Required		Book	Already in possession			
How to do Research	Grit and Ju	ulsing	Requi		Book	Already in possession			
A writer's reference	Hacker & Require Sommers			red	Book	Already in possession			
Estimated cost									
Travel, accomodation, meals	Approximate cost in €				Comments  Depending on destination and length of stay				
Books, other study materials									
Remarks									

Course information sys		f study 2017-2018 sion: draft 5-2017					
Study Programme	International Food & Agribusiness	Sioni diait 3-2017					
Course unit code	MN3403						
Course unit title	International Business & Development						
Location	Den Bosch						
Coordinator	Marnix Wolters (WoMa)						
Type of course unit	☐ Mandatory ☒ Not mandatory						
Language of	English						
instruction							
Credits (ECTS)	15						
Moment of delivery	Year 3 Term 4						
Prerequisites	Completed propaedeutic phase and 40 ECTS	of 2 <sup>nd</sup> year					
	bachelor program, interest in developing economies and Agri,						
	Food or Environment	•					
Application deadline	1-11-2017						
Content	The third year minor MN3403 International Education Development provides a multi stakeholder lead establishing new business in upcoming economity and literature work on a company assignment, sure and literature. The real-life project focusses of new activities in a developing country. Stubusiness aspects, the work of NGO's and good mission, vision and policies, the building of scooperatives and the influence of physical as infrastructure, IT and technology.	earning arena on omies. In a ifferent programs, upported by lectures at the development udents look at vernment, their smallholder spects such as					
Learning outcomes	After successful completion, the student is a Multidisciplinary approach  use his/her specialist knowledge and expeinterdisciplinary context, relating his know others, thus creating added value  operate in an international project setting, at long distance  Societal awareness  identify social, environmental and econom dilemmas of projects in their chosen field of the contribution they can make  demonstrate awareness of inequality problems  Business  understand the impact of the geographical business operates  understand the vision and mission of and in by international NGO's and can distinguish understand the impact of smallholder aggrebusiness operations  understand the rationale behind the BoP and apply the concept of inclusive business  know the history of economic policy, as we theories and practices  understand the practices and principles of investment	rience in an reledge to that of involving partners ic impact and of work, as well as lems and poverty  I context in which a impact generated in relevant relations regations on approach and can ell as present					

Learning activities and teaching	Method			Study load (hours)				
methods	Lectures	and gue	80					
	Tutor me						10	
	Exchange	e progra	m					40
	Self-stud			ork				290
	Total							420
Test matrix								
Part	Type of examination	Weighting factor	Bottom grade		Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written test	WRT	2	4.0	1-10		IND	Week 10 (2 hrs)	Next term
Group project	PROJ	2	4.0	1-	10	GRP	Week 8	tbd
Individual assignment	ASSI	1	4.0		10	IND	Week 8	tbd
Exchange program	ASSI	0	pass			IND	Week 7	tbd
Excursion, guest lectures, attendance	EXCU	0	pass		ass ail	IND	Week 1-10	tbd
Recommended or requ	ired read	ina						
Title	Author		Status		Ту	pe	Code	
Study Manual International Business & development	M. Wolter	S	Require	d	Via	Updated each yea		year
Economics, the users' guide	Chang, H.	J.	Require	d	Boo	ok ISBN97807181970 (paperback)		197032
Various articles	online Required Via Blackboard					Indicated per year		
Estimated cost								
Cost item	Approxi	mate co	st in €			Comme	nts	
Literature/books	€ 10							
Exchange	€ 100 Exchange visit Anh							ermany)
Other travel	transı assigr					transporta assignme	visit by public ation, dependan at (if not in pos cransportation c	ession
Remarks								

# YEAR 4

I LAK 4								
Course information sys	stem	Year of study: 2017-2018  Version: draft 6-2017						
Study Programme	International Food and Agribusing							
Course unit code	MN4411							
Course unit title	Future Food Systems							
Location	Den Bosch							
Coordinator	Erwin Bouwmans (Bouw)							
Type of course unit								
Language of	English							
instruction								
Credits (ECTS)	30							
Moment of delivery	Year 4 Term 1 + 2							
Prerequisites	HAS students and students of oth Propaedeutic diploma, plus 45+ Eyear 3, of which at least one finis are obtained in the IFA program of in Agriculture, Agribusiness, Food studies.  International admissions: Three years of higher education of the propagatory of	ECTS of year 2 and 30+ ECTS of hed internship in year 3. Credits or a related bachelors program production or Environmental on bachelor's level of which at						
	least 75% has been obtained and practical assignment or internship Credits are obtained in a program Agribusiness, Food production or Admissions are subjected to appr	has been completed. related to Agriculture, Environmental studies.						
Application deadline	1-5-2017							
Content	The current status of the agriculture misguided intention, but more of system long and not always transparent. Our for the lowest price, irrespective of the stakeholders involved.  Besides creating mainstream market support services need to be structural national government policies need to institutions need to learn to look at a and invest in its modernization. Transland, in the meantime, Innovation in are necessary and taking place.	tem failure. Our supply chains are global markets are designed to go ne longer-term consequences for demand as a driver for change, ally strengthened and rebuilt, be reformed and financial griculture as a business opportunity sformation of the current system						
	In this module students further inves up with ideas for improvement; ideas and business. The module sheds ligh the transformation into a new system enlarge their professional network.	s that enhance both sustainability t on the innovation process and on						
	<ol> <li>The Minor is divided into four main to</li> <li>Transition of a sector or country stakeholders (government, know</li> <li>Leadership and Personal leadersh</li> <li>Innovation at process and compasituation.</li> <li>Domain: crop, animal, food or bid</li> </ol>	in a wider system with other ledge institutions, civil society). hip, and development hereof. any (link) level within the current						
Learning outcomes	The module contributes to all programmers. Improving sustainability of the Glotal 2. Applying bio-based & circular econd 3. Contributing to sustainable innoval crop production or food processing/n 4. Contributing to international busin 5. Providing advice 6. Networking & influencing	m qualifications, at the final level: bal Agri-food system comy principles in agri-food systems tion in a sector (animal production, utrition)						

- 7. (Self)-reflection and judgement
- 8. Project management
- 9. Doing research

After successful completion, the student is able to:

#### Ad 1

- analyse business /sectors in the context of a global food system (past)
- to analyse future trends and to develop future scenarios
- perceive a supply chain as a system, and oversee the players in it  $\operatorname{\mathsf{Ad}} 2$
- interrelate processes and business practices regarding agri-food systems
- contribute to circular/bio-based agri-food systems

#### Δd 3

- complete analysis of production systems to identify long term trends and opportunities within the (animal, crop or food) sector
- apply insights in current developments in his/her domain to identify opportunities in his/her domain production systems that contribute to more sustainable systems

### Ad 4

- come up with new business ideas for an existing company to improve sustainability
  - o compare and select different options using a multi criteria analysis and impact analysis
- identify promising niches and new business models from future scenario studies

#### Ad 5

 provide advice on options for the implementation of a sustainability project within a production field

#### Ad 6

- contribute to transitions in a niche, business or project (internal)
- contribute to transitions in a network with stakeholders (external)

## Ad 7

- identify and understand personal and interpersonal strengths
- reflect on personal Value Based Leadership in the light of the everchanging agri-food complex
- reflect on the development of one's own talents and those of fellows in a group

## Ad 8

- select and justify project management method
- write a complete project plan in a complex situation in relation with the client
- execute a project according to planning and budget (resources and money)
- effectively manage projects showing effective project management skills
- recognize and evaluate his/her own role in a group
- place own role within the larger context
- clearly communicate within multi-stakeholder environment and manage expectations
- identify connections within a sector and determine the common objectives for projects and collaboration

### Ad 9

 design and execute a professional research which answers research questions on a topic related to sustainable innovation in his/her domain (crop, animal or food)

Learning activities and teaching
methods

Method	Study load
Thematic lectures and excursions on	2 ects
Transition and Scenarios	
Lectures Project management	1 ects
Leadership; College Tours, Workshops, Food	6 ects
Experience	
Innovation; lectures, field days	2 ects

	Domain; Research		9 ects				
	Group Procontent t	oject in	10 ects 30 (840 hrs)				
Test matrix	lotal					30	(840 nrs)
Test matrix							
Part	Type of examination	Weighting factor	Bottom grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit
Written exam Transition	WRT	2	4.0	1-10	IND	Wk 9 (2 hrs)	Wk 19
Reflection report leadership (dossier)	ASSI	3	5.5	1-10	IND	Wk 15	Wk 19
Individual research (report + defence)	ASSI	3	5.5	1-10	IND	Wk 17	Wk 19
Test on Domain lectures (oral or written)	ASSI	2	4.0	1-10	IND	Wk 15	Wk 19
Group Project	PROJ	10	5.5	1-10	GRP	Wk 19	tbd
Attendance/participation	ASSI	0	pass	pass/ fail	IND	Wk 18	tbd
Study materials							
Title	Author		Status		Туре	_	comment
Study Manual, 1718	various		Required	d 	Via Blackboard	Updated each year	
How to Do Research	Grit, R. ar Julsing, M		Required		Book, website, templates	ISBN978900186123 0. Already in possession (yr 2)	
Project Management	Grit, R.		Required		Book, website, templates	ISBN978900179092 9. Already in possession (yr 1)	
Strengths Finder 2.0	Rath, T.		Required	d	Book + code	Already in possession	
Changing the Food Game	Simons, L		Required	d	Book	Already possessi	in
The 7 Habits of Highly Effective People	Covey (20 later)	13, or	Required	d	Book	ISBN 978 147 112 9391	
Lecture hand-outs, add. literature and articles	various		Required	d	Via BlackBoard	Indicate	d per year
Estimated cost							
Cost item	Approximate cost in € Commen						
Literature/books	€ 25				Most books a possession	re alread	y in
Group Excursion (by bus) Other travel	€ 50 € 100				Travel for additional excursions / group work for project, on public transport base		
Remarks	Some changes compared to 1617. The two projects are combined in one; the business assignment will be in the same country as the transition assignment.						

Course information sys	tem	Year of study: 2017-2018 Version: draft 6-2017
Study Programme	International Food and Agribusi	
Course unit code	IF4403	
Course unit title	Professional Assessment	
Location	Den Bosch	
Coordinator	Erwin Bouwmans	
Type of course unit		
Language of	English	
instruction	Liigiisii	
Credits (ECTS)	2	
Moment of delivery	Year 4 Term 3+4	
Prerequisites	None Term 3+4	
	1-11-2017	
Application deadline Content		15 weeks working on a portfolio
	in which they reflect on their pr development. This portfolio sho development, and include data reflections. Coaching sessions a international recruiters will guid At the end of term 4, a professi	ofessional and personal uld provide the 'proof' of their and information to support their and guest lectures from le them in this process.  onal assessment interview will dent will present and discuss the terview is conducted by an IFA
Learning outcomes	The module contributes to the f 6. Network & influencing 7. (Self)-reflection & judgement  After successful completion, the Ad 6 - communicate effectively o present himself and his sking professionally o represent International Food Ambassador) - develop account management o proactively connect with period apply key concepts from notional bank account / 0 - develop acquisition skills o acquire job (professional experience)  Ad 7 - reflect on personal Value Base ever-changing agri-food complete.	e student is able to:  alls and competences and & Agribusiness program (IFA at skills eople and connect people etworking theory (e.g. Covey)  mployment after graduation)  ed Leadership in the light of the alex fone's own talents and those of a petences and personal e IFA qualifications and the ersonal and interpersonal

	<ul> <li>answer the questions 'Who am I as leader and group member in project teams?'</li> <li>demonstrate an insight into his/her ambitions and future career or career options</li> <li>answer the question 'Who am I after graduation?'</li> </ul>							
Learning activities	Method						ly load	
and teaching methods	To too aloo at			Faradlar	-1-		hours)	
methods	Introduct Leadersh		ire and	reeaba	ick		3	
	Guest led	•	ternatio	nal Re	cruitment		4	
	(2)							
	Portfolio assessme		ment &	prepar	ation		36	
	2 intervie		profess	sionals	from the		10	
	industry							
	Criterion	focused	intervi	ew		3		
	Total						56	
Test matrix								
Part	Type of examination	Weighting factor	<b>Bottom</b> grade	Rating scale	Individual/ Group work	Time of examination (duration)	Resit	
Portfolio	ASSI	0	pass	pass /fail	IND	T4	tbd	
Criterion focused interview	ORAL	0	pass	pass /fail	IND	T4	tbd	
Study materials				/ Iaii		(1 hr)		
Title	Author		Statu	S	Туре	Code/cor	nment	
Study Manual Professional Assessment					Via Blackboard	Updated ea		
Estimated cost								
Cost item	Approximate cost in €				Comments			
Domoviko								
Remarks								

Course information sys	tem					tudy: 201 ion: draft		
Study Programme	Internati	onal Foo	d and Ac	ribusin				
Course unit code	IF4450		<u></u>	,				
Course unit title		Professional Assignment (PA)						
Location	Den Boso		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,				
Coordinator	Marnix W		NoMa)					
Type of course unit	⊠ Manda			latory				
Language of	English	cory — i	iot mana	idtoi y				
instruction	Liigiisii							
Credits (ECTS)	28							
Moment of delivery	Year 4		Term 3					
Prerequisites		eutic nha		leted 4	0+ ECTS year	ar 2 all		
1 Ter equisites	internshi			ictcu,	ior Ecro yea	ai 2, aii		
Application deadline	1-11-201		.0.00					
Content			al Assian	ment t	he student de	monstrati	≏s his	
Content			_		nment, provi			
					the IFA wo			
					%) and profe			
Learning outcomes					ing program c			
					obal Agri-food			
	4. Contrib	uting to i	nternatio		ness developm			
	5. Providi							
	7. (Self)-r			ement				
	8. Project		nent					
	9. Doing r		or detaile	d learn	ing objectives	The S a	spects of	
					gram qualifica			
	Q 1, 4 - `F					10113 43 101	10773.	
					Communication	skills' (B7	)	
	Q 7 – `Ind	ependen	ce' (B6), `	Self-refl	ective ability'	(B8)		
	Q 8 - 'Pro							
				(B5), Co	ommunication	skills (B7)		
I anymin a nativition	Q 9 - 'Res	search ski	IIIS' (BZ)			Chi	ada a la a al	
Learning activities and teaching	Method					Stt	idy load	
methods	The proje	actic ba		.+	nout od		(hours)	
methous	The proje						748	
	self-stud				ys are			
	schedule	u baseu	on neces	SILY			784	
Test matrix	Total						704	
rest matrix								
	on			<u>=</u>	~ <del>*</del>	Time of examination (duration)		
	ati	Бu		Sa	<u>a</u> 0	i ii		
	Type of examination	Weighting factor	Ε	Rating scale	Individual/ Group work	of ing tio		
<b>.</b>	Type of examina	Weigh	Bottom grade	<u>.</u>	i≥ di	Time of examina (duratio	#	
Part	ур ха	/ei	ra	at	or of	m xa	Resit	
<b>Q</b>	<b>⊢</b> ∅	F <sub>0</sub>	<b>a</b> b	~	H 0	F a S	2	
Professional Assignment	ASSI	1	5.5	1-10	IND	Wk 20	tbd	
- Products (Project plan,		50%	5.5	1-10			tbd	
report, extra product(s))								
- Professionalism		50%	5.5	1-10			Tbd	
Study materials								
Title	Author		Status		Туре	Code/co		
PA Manual, 1718	Kreggemeijer, A. Required			Via Updated each year				
Ectimated cost	et al.				Intranet			
Estimated cost	Approvi	mata es	ct in C		Commont			
Cost item	Approximate cost in €				Comments			
Remarks					n.a., within F	ra budget		
Domorks —								

