

Tuning India

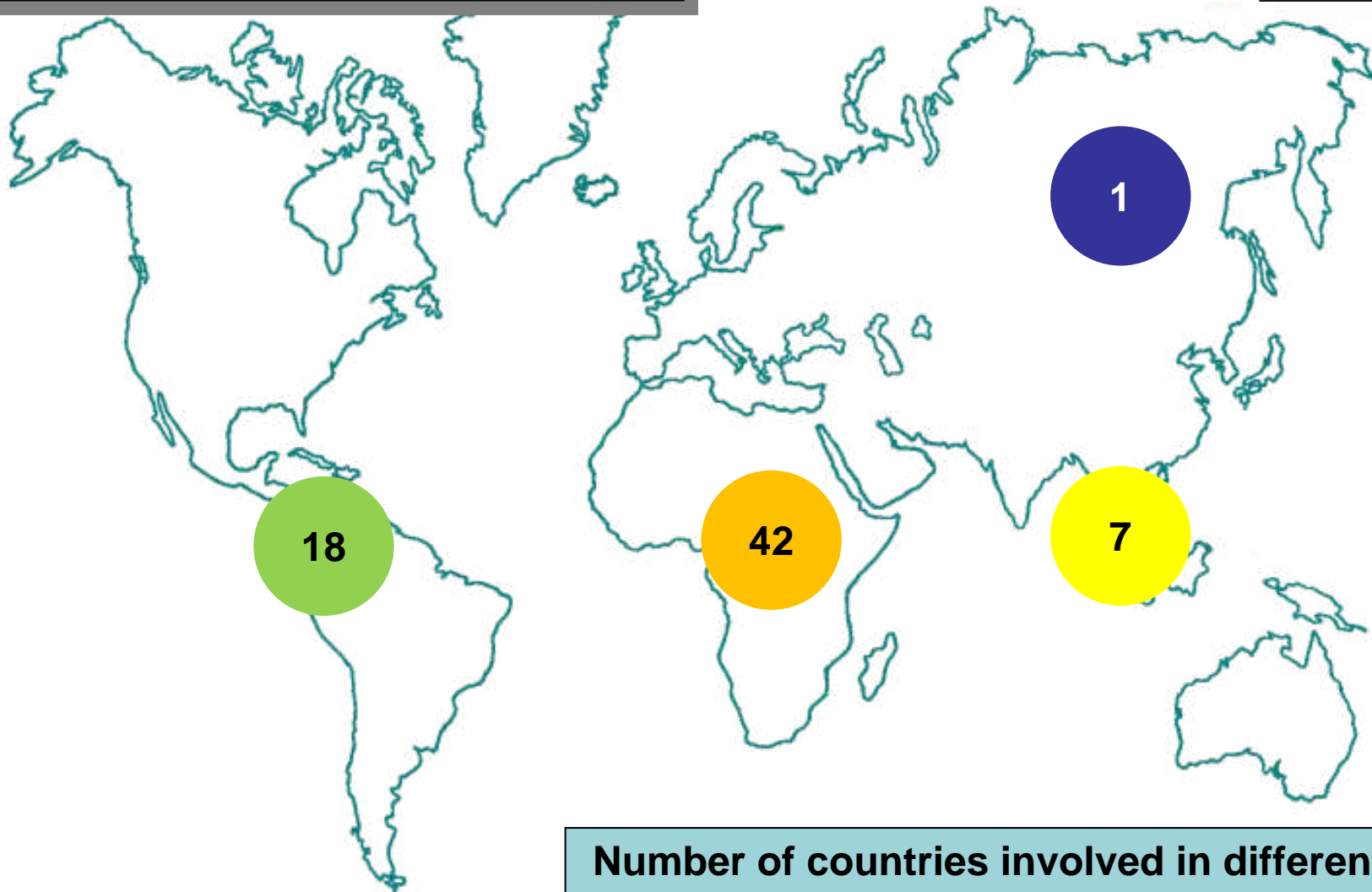
Implementation Workshop 1

**Student Workload and the length of the programme.
Some references in other regions**

Pablo Beneitone and Robert Wagenaar

Bilbao, 2 July 2019

Measure Student Workload



Number of countries involved in different Tuning studies

Context (before Tuning)



- Barriers to student mobility (within and outside the regions).
- No common credit system in Latin America and Africa.
- No credit system in many Latin American and African countries.
- Even in countries with a credit system, **only focused on contact hours.**
- **Heterogeneous measuring units**, even within countries.
- Lack of orientations to recognize the educational value of activities outside the classroom (independent work).

Contact Hours



Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agonomy and Horticultural Crop Production	6
	2nd Semester	Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
		Microbiology and Genetic Change	6
2	3rd Semester	Food Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
	4th Semester	Microbiology and Biotechnology	6
		Plant Diseases and Insect Control	6
		Animal Production and Science I	6
3	5th Semester	Plant and Crop Production	6
		Genetics, Communication Skills	6
		Microbiology and Genetics II	6
	6th Semester	Animal Science and Production II	6
		Crop Production: Technologies	6
		Business Management and Agricultural Product Processing	6
6th Semester	Project I	6	
	Agricultural Management and Marketing	6	
	Entrepreneurship for Small and Medium Enterprises	6	
6th Semester	Project II	6	
	Practical Training	12	






36 weeks

17 hours per week (**contact hours**)

612 hours per year

1836 hours in 3 years

Programme A

Day	Course	Contact hours	
Monday	Course A		3
Tuesday	Course B		4
Wednesday	Course C		4
Thursday	Course D		2
Friday	Course E		4

17 hours per week

Contact Hours

Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agriculture and Horticultural Crop Production	6
		Applied Economics, Extension and Systems	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Climate Change	6
		Cold Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
		Biotechnology and Biotechnology	6
2	3rd Semester	Animal Production and Science I	6
		Plant, Disease and Pests Control	6
		Animal Production and Science II	6
		Plant, Disease and Pests Control II	6
	4th Semester	Genetics, Communication Skills	6
		Microbiology and Genetics II	6
		Animal Science and Production I	6
		Animal Production and Science III	6
		Animal Production and Science IV	6
		Animal Production and Science V	6
3	5th Semester	Crop Production: Technologies	6
		Postharvest Management and Agricultural Product Processing	6
		Plant II	6
		Agricultural Management and Marketing	6
	6th Semester	Entrepreneurship for Small and Medium Businesses	4
		Plant III	3
		Plant IV	3
		Practical Training	10



Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agriculture and Horticultural Crop Production	6
		Applied Economics, Extension and Systems	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Climate Change	6
		Cold Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
		Biotechnology and Biotechnology	6
2	3rd Semester	Plant, Disease and Pests Control	6
		Animal Production and Science I	6
		Plant, Disease and Pests Control II	6
		Animal Production and Science II	6
	4th Semester	Genetics, Communication Skills	6
		Microbiology and Genetics II	6
		Animal Science and Production I	6
		Animal Production and Science III	6
		Animal Production and Science IV	6
		Animal Production and Science V	6
3	5th Semester	Postharvest Management and Agricultural Product Processing	6
		Plant I	6
		Agricultural Management and Marketing	6
		Entrepreneurship for Small and Medium Businesses	4
	6th Semester	Plant II	3
		Plant III	3
		Plant IV	3
		Practical Training	10



Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agriculture and Horticultural Crop Production	6
		Applied Economics, Extension and Systems	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Climate Change	6
		Cold Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
		Biotechnology and Biotechnology	6
2	3rd Semester	Plant, Disease and Pests Control	6
		Animal Production and Science I	6
		Plant, Disease and Pests Control II	6
		Animal Production and Science II	6
	4th Semester	Genetics, Communication Skills	6
		Microbiology and Genetics II	6
		Animal Science and Production I	6
		Animal Production and Science III	6
		Animal Production and Science IV	6
		Animal Production and Science V	6
3	5th Semester	Postharvest Management and Agricultural Product Processing	6
		Plant I	6
		Agricultural Management and Marketing	6
		Entrepreneurship for Small and Medium Businesses	4
	6th Semester	Plant II	3
		Plant III	3
		Plant IV	3
		Practical Training	10

Programme A

Programme B

Programme C

Contact hours



and ... how much independent work is behind these contact hours?

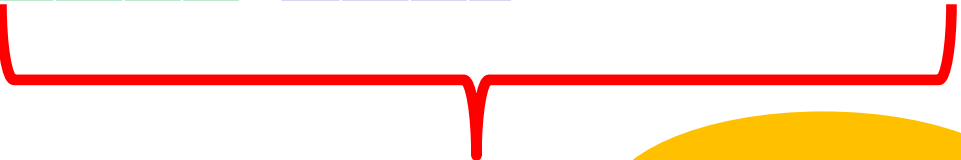
- Reading texts and literature
- Preparation and presentation of written work (essays, reports, etc.)
- Fieldwork (not supervised)
- Laboratory (not supervised)
- Preparation for interim assessment, final examination, etc.

Contact hours

Independent Work

- Reading texts and/or literature
- Preparation and presentation of written work (essays, reports, etc.)
- Fieldwork (not supervised)
- Laboratory (not supervised)
- Preparation for interim assessment, final examination, etc.

Day	Courses	Contact hours	Independent work in hours	
Monday	Course A	■ ■ ■	■ ■ ■ ■	7
Tuesday	Course B	■ ■ ■ ■	■ ■	6
Wednesday	Course C	■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■	12
Thursday	Course D	■ ■	■ ■ ■ ■ ■ ■ ■ ■	10
Friday	Course E	■ ■ ■ ■	■ ■ ■ ■	8



43 hours per week

Student Workload

Year	Semester	Course/Module	Credits	
1	1st	Agricultural Chemistry and Soil Science	6	
		Animal Production: Principles and Techniques	6	
		Agrionomy and Horticultural Crop Production	6	
		Applied Economics, Extension and Systems	6	
	2nd	Introduction and General I	6	
		Agrometeorology and Climate Change	6	
	2	3rd	Food Science and Technology	6
			Horticultural Engineering and Applications	6
		4th	Introduction Methods for Agricultural Sciences	6
			Biochemistry and Biotechnology	6
Plant Tissues and Vascular System			6	
General Production and Science I			6	
5th	Basic and Crop Physiology	6		
	Scientific Communication Skills	6		
	Microbiology and Genetics II	6		
	Plant Science and Production II	6		
3	6th	Crop Production Technologies	6	
		Production Management and Agricultural Product Processing	6	
	7th	Project I	6	
		Agriculture Management and Marketing	6	
	8th	Entrepreneurship for Small and Medium Agribusiness	4	
		Project II	6	
9th	Practice Training	60		

36 weeks

43 hours per week (student workload)

1548 hours per year

4644 hours in 3 years

Programme A

Student Workload

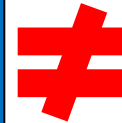
Year	Semester	Course/Module	Credits	
1	1st Semester	Agricultural Chemistry and Soil Science	6	
		Animal Production: Principles and Techniques	6	
		Agromony and Horticultural Crop Production	6	
		Applied Economics, Extension and Systems	6	
	2nd Semester	Microbiology and Genetics I	6	
		Entomology and Plant Pathology	6	
	2	3rd Semester	Food Science and Technology	6
			Agricultural Engineering and Applications	6
		4th Semester	Statistical Methods for Agricultural Sciences	6
			Biotechnology and Bioprocessing	6
Plant Tissues and Vascular Control			6	
Animal Production and Science I			6	
3	5th Semester	Genetics and Crop Physiology	6	
		Scientific Communication Skills	6	
	6th Semester	Microbiology and Genetics II	6	
		Plant Science and Production I	6	
4	7th Semester	Crop Production Technologies	6	
		Post-harvest Management and Agricultural Product Processing	6	
	8th Semester	Agricultural Management and Marketing	6	
		Entrepreneurship for Small and Medium Businesses	4	
5	9th Semester	Project II	4	
		Practical Training	10	

Programme A



Year	Semester	Course/Module	Credits	
1	1st Semester	Agricultural Chemistry and Soil Science	6	
		Animal Production: Principles and Techniques	6	
		Agromony and Horticultural Crop Production	6	
		Applied Economics, Extension and Systems	6	
	2nd Semester	Microbiology and Genetics I	6	
		Entomology and Plant Pathology	6	
	2	3rd Semester	Statistical Methods for Agricultural Sciences	6
			Biotechnology and Bioprocessing	6
		4th Semester	Plant Tissues and Vascular Control	6
			Animal Production and Science I	6
Genetics and Crop Physiology			6	
Scientific Communication Skills			6	
3	5th Semester	Microbiology and Genetics II	6	
		Plant Science and Production I	6	
	6th Semester	Crop Production Technologies	6	
		Post-harvest Management and Agricultural Product Processing	6	
4	7th Semester	Agricultural Management and Marketing	6	
		Entrepreneurship for Small and Medium Businesses	4	
	8th Semester	Project I	4	
		Practical Training	10	

Programme B



Year	Semester	Course/Module	Credits	
1	1st Semester	Agricultural Chemistry and Soil Science	6	
		Animal Production: Principles and Techniques	6	
		Agromony and Horticultural Crop Production	6	
		Applied Economics, Extension and Systems	6	
	2nd Semester	Microbiology and Genetics I	6	
		Entomology and Plant Pathology	6	
	2	3rd Semester	Statistical Methods for Agricultural Sciences	6
			Biotechnology and Bioprocessing	6
		4th Semester	Plant Tissues and Vascular Control	6
			Animal Production and Science I	6
Genetics and Crop Physiology			6	
Scientific Communication Skills			6	
3	5th Semester	Microbiology and Genetics II	6	
		Plant Science and Production I	6	
	6th Semester	Crop Production Technologies	6	
		Post-harvest Management and Agricultural Product Processing	6	
4	7th Semester	Agricultural Management and Marketing	6	
		Entrepreneurship for Small and Medium Businesses	4	
	8th Semester	Project II	4	
		Practical Training	10	

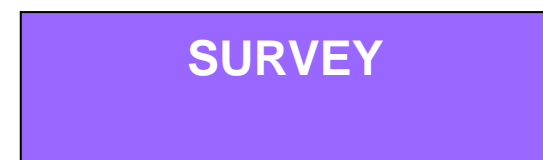
Programme C

ENCUESTA A ESTUDIANTES



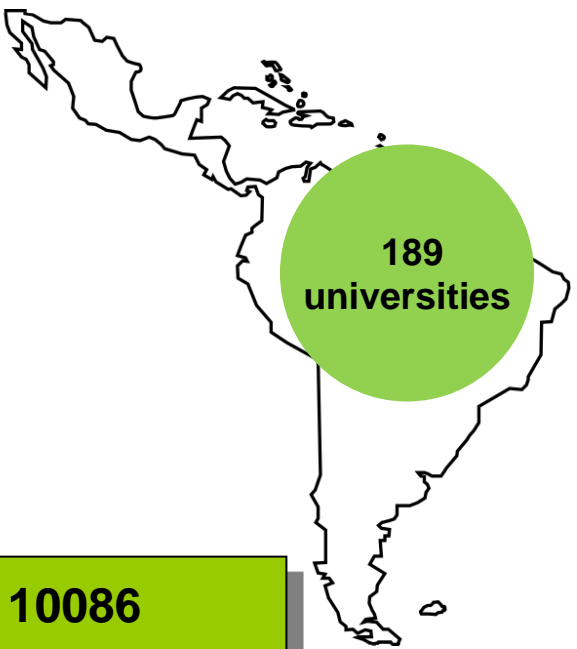
1. Área:
2. Universidad:
3. Carrera:
4. Asignatura:-----
5. Duración en SEMANAS del período académico (trimestre, cuatrimestre, semestre, anual) según el plan de estudios): -----

6. ¿Cuántos minutos tiene la hora académica en su asignatura	.....minutos	...no sabe/ no contesta		
7. ¿Cuántas horas académicas de actividades docentes presenciales tuvo la asignatura?	.....horas	...no sabe/ no contesta		
8. ¿Cuántas semanas de actividades docentes presenciales reales tuvo la asignatura, contando las evaluaciones?	.....semanas	...no sabe/ no contesta		
9. ¿Cuántas horas de actividades docentes presenciales tuvo la asignatura por semana?	.....horas	...no sabe/ no contesta		
10. ¿Cuántas horas totales estima Usted que empleó en el período académico para aprobar la asignatura, teniendo en cuenta TODAS las actividades presenciales y no presenciales?	.....horas	...no sabe/ no contesta		
11. De las siguientes actividades no presenciales , indique cuáles realizó Usted en el transcurso de la asignatura. Indique las horas reloj que estima que necesitó para realizarlas.				
a. Lectura de textos o bibliografía	... si	... no	.....horas	...no sabe/ no contesta
b. Preparación y desarrollo de trabajos	... si	... no	.....horas	...no sabe/ no contesta
c. Trabajo de campo	... si	... no	.....horas	...no sabe/ no contesta
d. Laboratorio	... si	... no	.....horas	...no sabe/ no contesta
e. Preparación y desarrollo de trabajos escritos	... si	... no	.....horas	...no sabe/ no contesta
f. Actividades virtuales	... si	... no	.....horas	...no sabe/ no contesta
g. Estudio para la evaluación	... si	... no	.....horas	...no sabe/ no contesta
h. Otros: Especificar: .....	... si	... no	.....horas	...no sabe/ no contesta
i. Otros: Especificar: .....	... si	... no	.....horas	...no sabe/ no contesta
j. Otros: Especificar: .....	... si	... no	.....horas	...no sabe/ no contesta
12. ¿Cuántas horas en promedio por semana considera que dedicó a las actividades presenciales y no presenciales en la asignatura?			.....horas	...no sabe/ no contesta
13. ¿Planificó el número de horas no presenciales que invertiría para la realización de las actividades?	... si	... no	...no sabe/ no contesta	
14. ¿Contrastó el profesor la estimación de horas no presenciales con Ustedes?	... si	... no	...no sabe/ no contesta	



Tuning Latin America

Tuning Africa



**10086
responses**

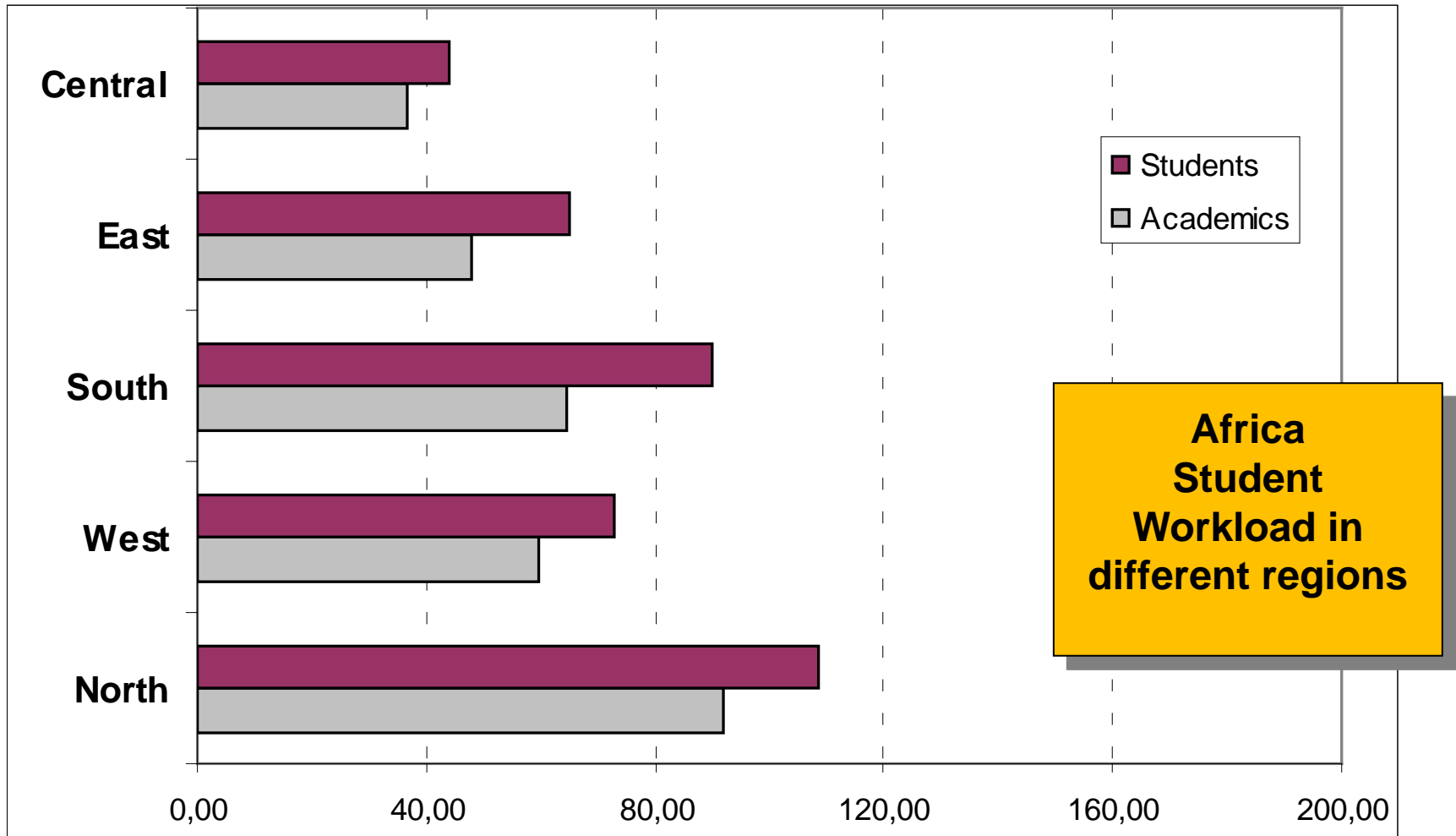
**5837
responses**

**Some examples of
RESULTS in other
regions**

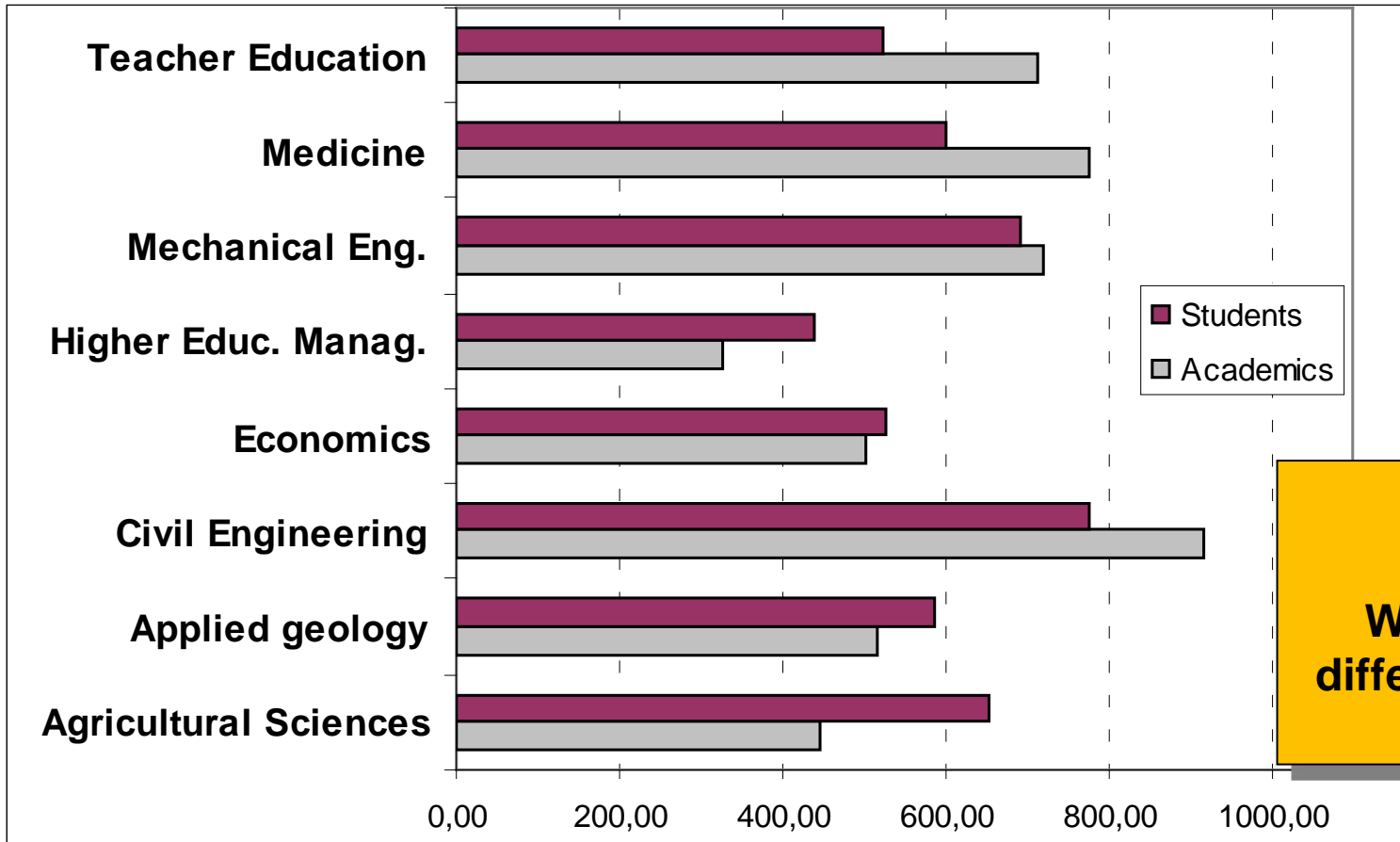
	Estimation of professors on the total workload of one semester (in hours)	Estimation of students on the total workload of one semester (in hours)	Average on the estimations of professors and students on the total workload of a semester (in hours)	Average on the estimations of professors and students on the total workload of an academic year (in hours)
Nicaragua	624.25	296.76	460.51	921.01
Honduras	457.35	479.62	468.49	936.97
Panama	564.5	443.17	503.84	1007.67
Chile	613.81	497.2	555.51	1111.01
Bolivia	602.6	574.74	588.67	1177.34
Venezuela	473.39	727.06	600.23	1200.45
Peru	612.67	605	608.84	1217.67
Brazil	650.13	570.42	610.28	1220.55
Uruguay	574.27	679.76	627.02	1254.03
Guatemala	586.89	682.21	634.55	1269.1
Paraguay	599.5	709	654.25	1308.5
Costa Rica	667.92	658.84	663.38	1326.76
Mexico	603.63	730.01	666.82	1333.64
Ecuador	694.25	650.2	672.23	1344.45
Colombia	683.14	673.33	678.24	1356.47
El Salvador	783	604.86	693.93	1387.86
Argentina	740.57	697.47	719.02	1438.04
Cuba	932.06	714.87	823.47	1646.93

**Latin America
Student
Workload in
18 countries**

Hours PER WEEK (both CONTACT HOURS AND INDEPENDENT WORK) to complete all the requirements of the unit/course/module



Hours needed to complete all the requirements of the unit/course/module in this SEMESTER (taking into account CONTACT HOURS and INDEPENDENT WORK)



**Africa
Student
Workload in
different Subject
Areas**

Planning the workload from academic and student perspective

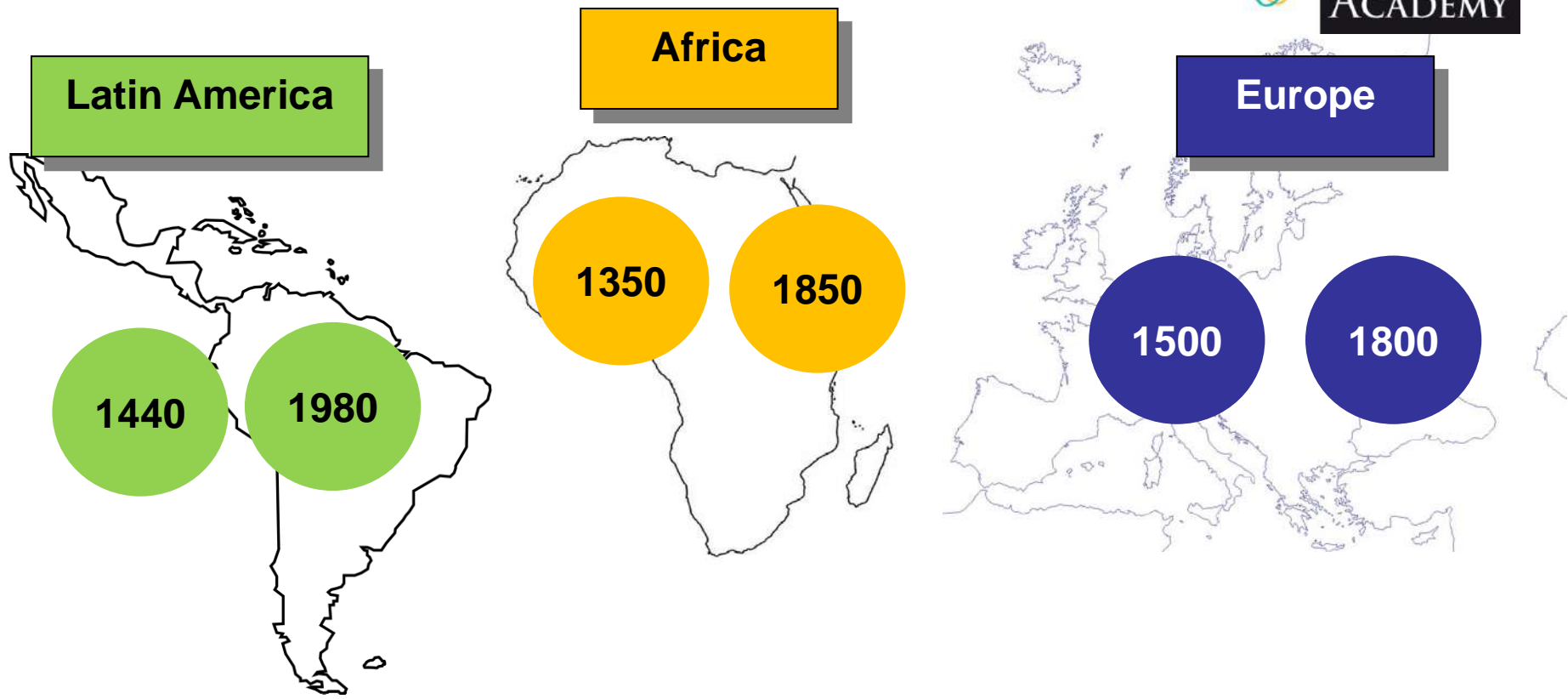


Academics

Students

	%Academics saying yes to...		%Students saying yes to...	
	Planning the workload for your unit/course/module, consider necessary to include hours for independent work	Student's expectations and evaluation into consideration when planning the workload	Aware of the number of hours planned for the students for independent work	Professor guided you at the beginning of the unit/course /module on the necessary work load of each part of the Independent work
Civil Engineering	91,78%	92,75%	58,78%	79,79%
Medicine	91,23%	89,47%	41,80%	71,31%
Teacher Education	96,67%	97,48%	78,70%	87,72%

South East Asia - Student Workload – Differences of perspectives among Students and Academics



**Contact hours +
Independent work**

1 ACADEMIC YEAR

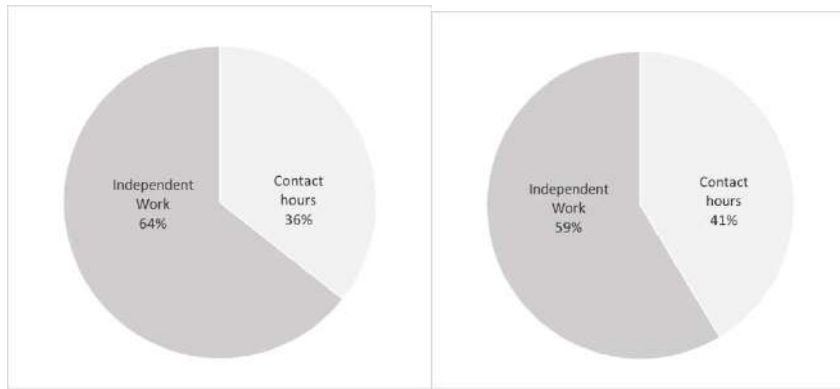
Some preliminary conclusions

- Differences among **students and academics** in relation to the student workload.
- Differences among **countries** in the same region.
- Differences among **regions** in the same continent
- Differences among **subject areas**

... but some coincidences that might contribute to further discussions...

% Contact hours vs Independent Work

Civil Engineering

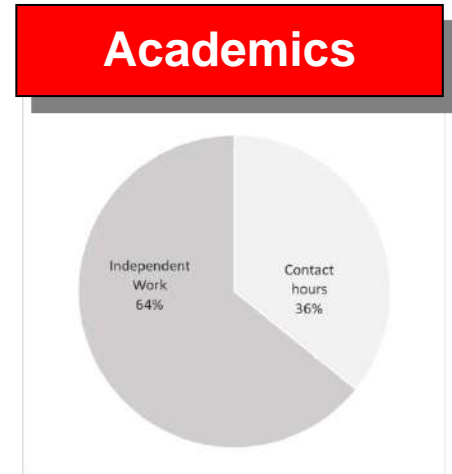


Academics

Students

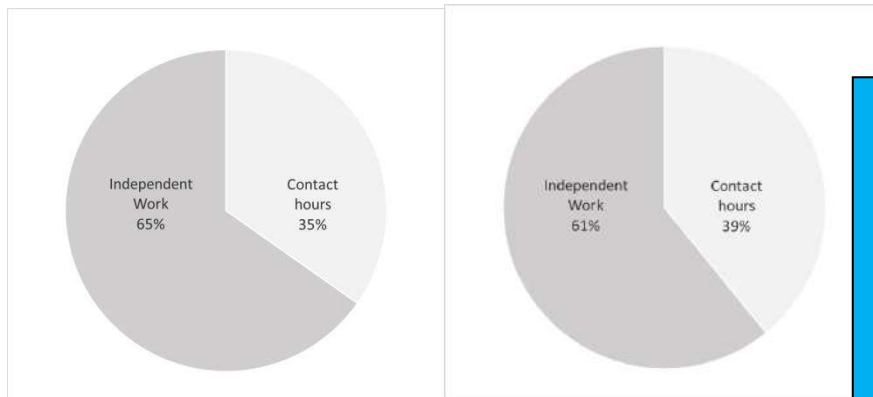
Teacher Education

Academics

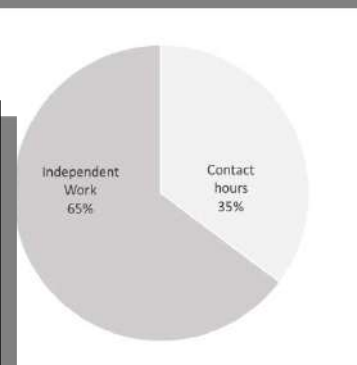


Students

Medicine



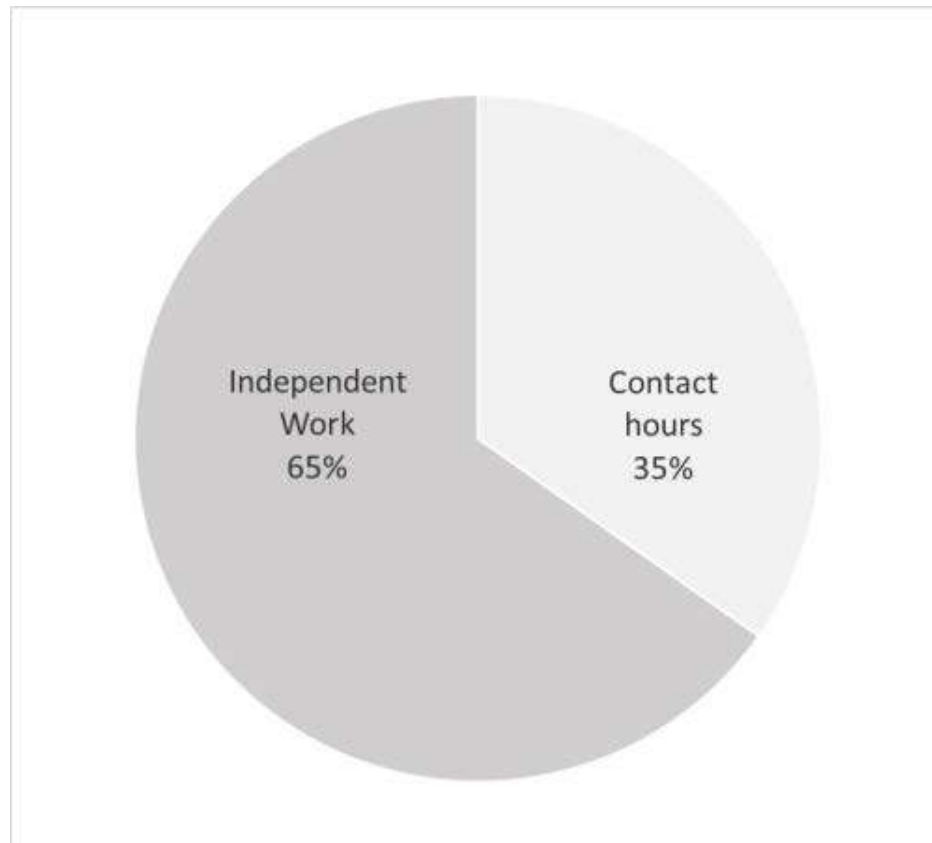
**South East Asia
Student
Workload in
different Subject
Areas**

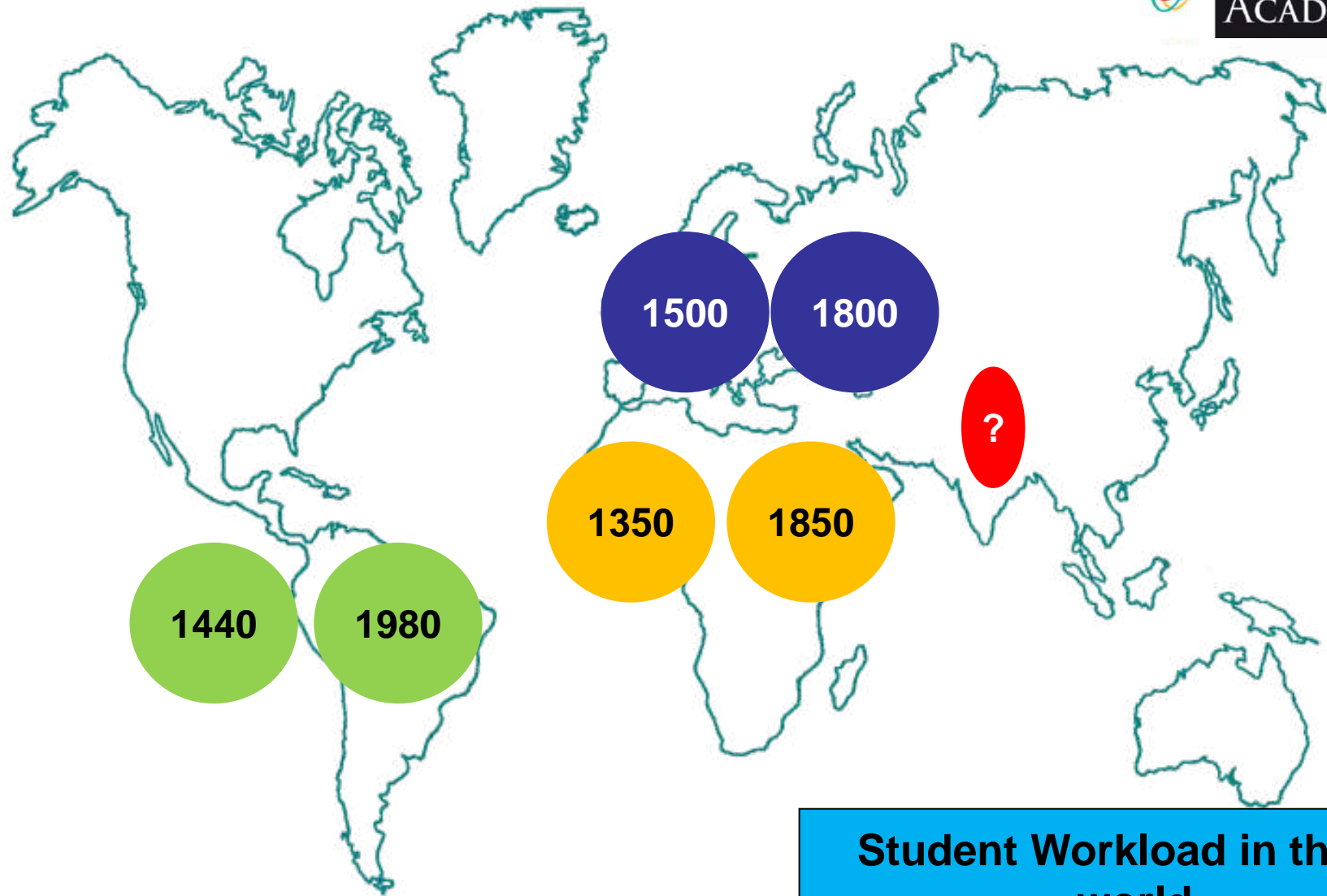


% Contact hours vs Independent Work

Students

Academics





Student Workload in the world

Thank you very much!!!!