

# **Tuning India**

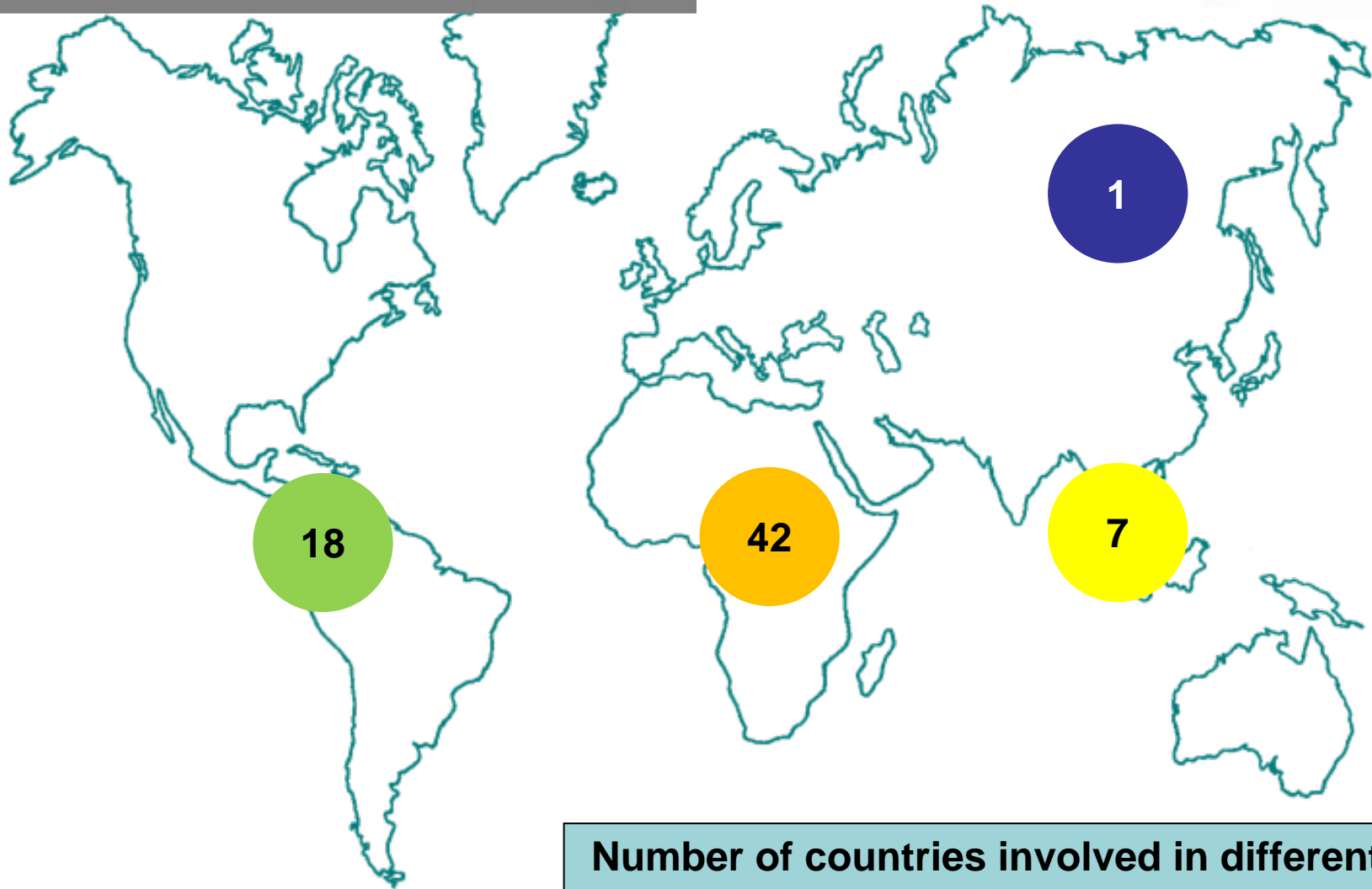
## **Implementation Workshop 1**

**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
		Applied Economics, Extension and Systems	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Genetic Change	6
		Food Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
		Biometrics and Biotechnology	6
2	3rd Semester	Plant Diseases and Insect Control	6
		Animal Production and Science I	6
	4th Semester	Plant and Crop Production	6
		General Communication Skills	6
		Microbiology and Genetics II	6
		Animal Science and Production II	6
3	5th Semester	Crop Production: Technologies	6
		Business Management and Agricultural Product Processing	6
	6th Semester	Project I	6
		Entrepreneurship for Small and Medium Enterprises	6
7th 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
		Agronomy and Horticultural Crop Production	6
		Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Genetics II	6
		Plant Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
2	3rd Semester	Biotechnology and Food Science	6
		Plant, Disease and Weeds Control	6
		Animal Production and Science I	6
		Animal Production and Science II	6
		Animal Production and Science III	6
	4th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
3	5th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
	6th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6



Year	Semester	Course/Module	Credits
1	1st Semester	Agricultural Chemistry and Soil Science	6
		Animal Production: Principles and Techniques	6
		Agronomy and Horticultural Crop Production	6
		Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Genetics II	6
		Plant Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
2	3rd Semester	Biotechnology and Food Science	6
		Plant, Disease and Weeds Control	6
		Animal Production and Science I	6
		Animal Production and Science II	6
		Animal Production and Science III	6
	4th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
3	5th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
	6th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6



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		Animal Production: Principles and Techniques	6
		Agronomy and Horticultural Crop Production	6
		Applied Economics, Extension and Systems	6
		Microbiology and Genetics I	6
	2nd Semester	Microbiology and Genetics I	6
		Microbiology and Genetics II	6
		Plant Science and Technology	6
		Agricultural Engineering and Applications	6
		Statistical Methods for Agricultural Sciences	6
2	3rd Semester	Biotechnology and Food Science	6
		Plant, Disease and Weeds Control	6
		Animal Production and Science I	6
		Animal Production and Science II	6
		Animal Production and Science III	6
	4th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
3	5th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
	6th Semester	Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6
		Animal Production and Science III	6

**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.

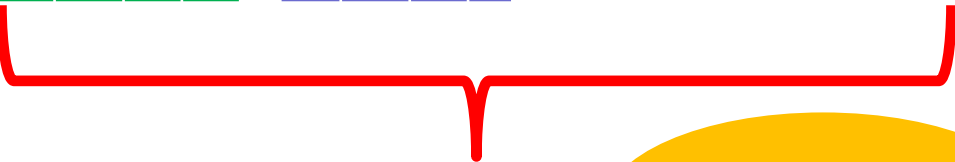
# Contact hours

## 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	
		Agonomy and Horticultural Crop Production	6	
		Applied Economics, Extension and Systems	6	
	2nd	Introduction and General I	6	
		Agrometeorology and Climate Change	6	
	3rd	Food Science and Technology	6	
		Horticultural Engineering and Applications	6	
	2	3rd	Introduction Methods for Agricultural Sciences	6
			Biochemistry and Biotechnology	6
Plant Tissues and Vascular System			6	
General Production and Science I			6	
4th		Basic and Crop Physiology	6	
		Scientific Communication Skills	6	
		Microbiology and Genetics II	6	
		Plant Science and Production II	6	
5th	Crop Production Technologies	6		
	Production Management and Agricultural Product Processing	6		
	Project I	6		
	Agriculture Management and Marketing	6		
3	6th	Entrepreneurship for Small and Medium Agribusiness	4	
		Project II	6	
	7th	Project III	6	
		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 Climate Change	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
3	5th Semester	Plant Tissues and Vascular Control	6	
		Animal Production and Science I	6	
	6th Semester	Genetic Communication Skills	4	
		Microbiology and Genetics II	6	
	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		
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 Climate Change	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
3	5th Semester	Plant Tissues and Vascular Control	6	
		Animal Production and Science I	6	
	6th Semester	Genetic Communication Skills	4	
		Microbiology and Genetics II	6	
	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		
9th 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 Climate Change	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
3	5th Semester	Plant Tissues and Vascular Control	6	
		Animal Production and Science I	6	
	6th Semester	Genetic Communication Skills	4	
		Microbiology and Genetics II	6	
	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		
9th Semester	Project II	4		
	Practical Training	10		

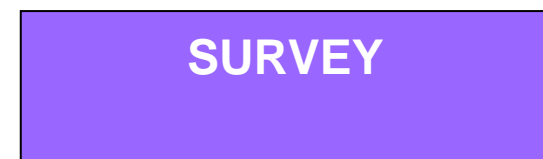
Programme C

## ENCUESTA A ESTUDIANTES



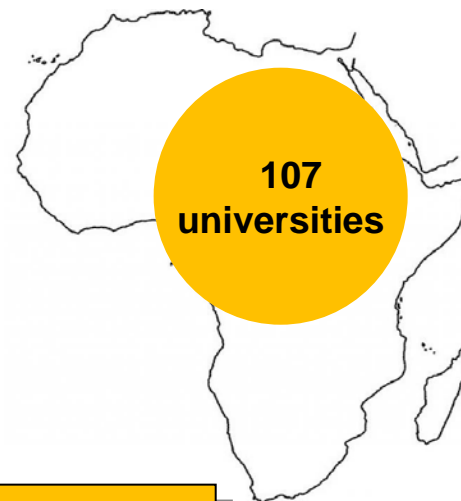
1. Área:
2. Universidad:
3. Carrera:
4. Asignatura:-----
5. Duración en SEMANAS del período académico (trimestre, cuatrimestre, semestre, anual) según el plan de estudios): -----

6. ¿Cuántos minutos tiene la hora académica en su asignatura	.....minutos	...no sabe/ no contesta		
7. ¿Cuántas horas académicas de actividades docentes <b>presenciales</b> tuvo la asignatura?	.....horas	...no sabe/ no contesta		
8. ¿Cuántas semanas de actividades docentes <b>presenciales</b> reales tuvo la asignatura, contando las evaluaciones?	.....semanas	...no sabe/ no contesta		
9. ¿Cuántas horas de actividades docentes <b>presenciales</b> 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 <b>TODAS las actividades presenciales y no presenciales</b> ?	.....horas	...no sabe/ no contesta		
11. De las siguientes <b>actividades no presenciales</b> , 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 <b>actividades presenciales y no presenciales</b> en la asignatura?			.....horas	...no sabe/ no contesta
13. ¿Planificó el número de horas <b>no presenciales</b> 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**

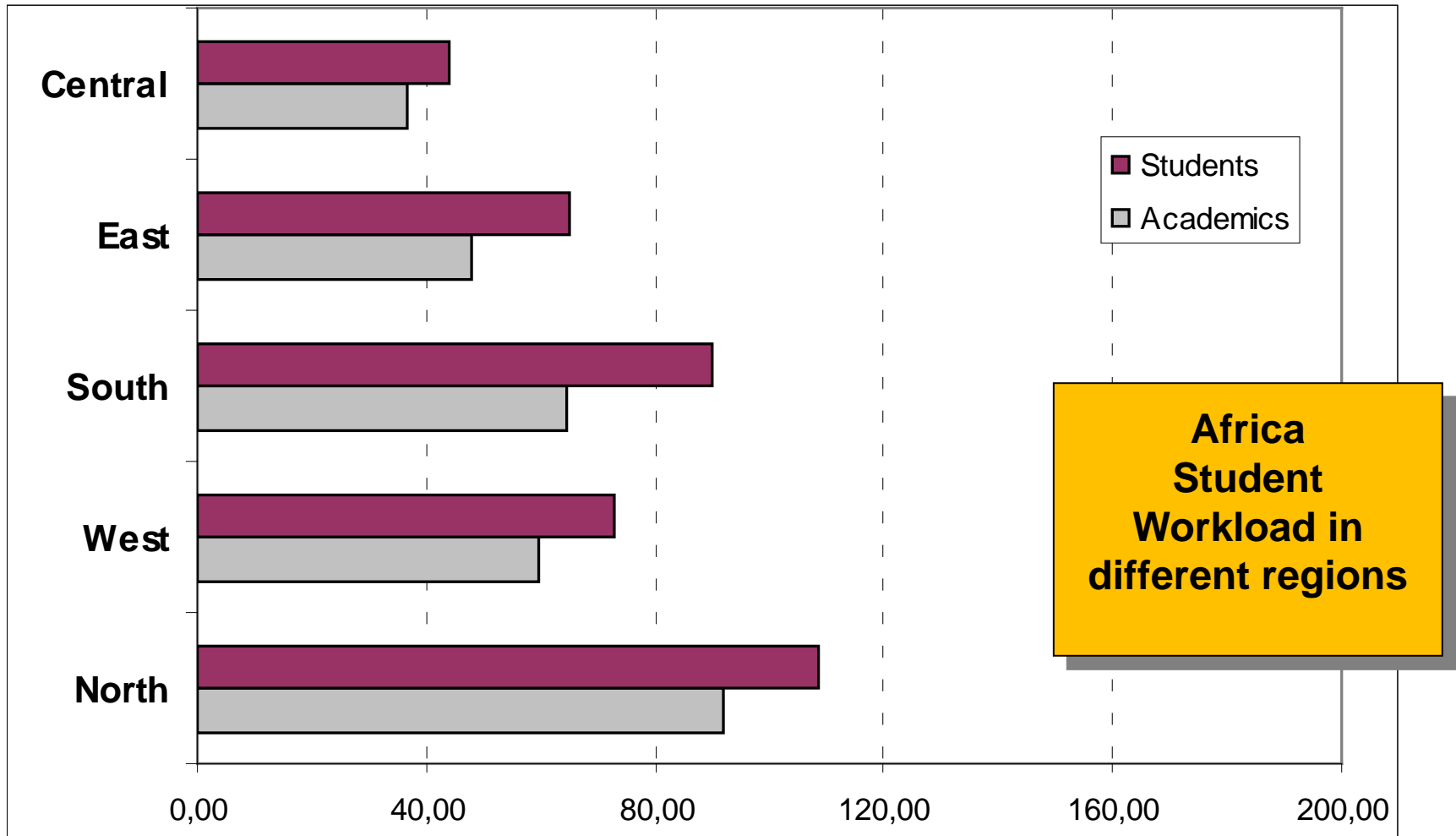
**5837  
responses**

**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)
<b>Nicaragua</b>	624.25	296.76	460.51	<b>921.01</b>
<b>Honduras</b>	457.35	479.62	468.49	<b>936.97</b>
<b>Panama</b>	564.5	443.17	503.84	<b>1007.67</b>
<b>Chile</b>	613.81	497.2	555.51	<b>1111.01</b>
<b>Bolivia</b>	602.6	574.74	588.67	<b>1177.34</b>
<b>Venezuela</b>	473.39	727.06	600.23	<b>1200.45</b>
<b>Peru</b>	612.67	605	608.84	<b>1217.67</b>
<b>Brazil</b>	650.13	570.42	610.28	<b>1220.55</b>
<b>Uruguay</b>	574.27	679.76	627.02	<b>1254.03</b>
<b>Guatemala</b>	586.89	682.21	634.55	<b>1269.1</b>
<b>Paraguay</b>	599.5	709	654.25	<b>1308.5</b>
<b>Costa Rica</b>	667.92	658.84	663.38	<b>1326.76</b>
<b>Mexico</b>	603.63	730.01	666.82	<b>1333.64</b>
<b>Ecuador</b>	694.25	650.2	672.23	<b>1344.45</b>
<b>Colombia</b>	683.14	673.33	678.24	<b>1356.47</b>
<b>El Salvador</b>	783	604.86	693.93	<b>1387.86</b>
<b>Argentina</b>	740.57	697.47	719.02	<b>1438.04</b>
<b>Cuba</b>	932.06	714.87	823.47	<b>1646.93</b>

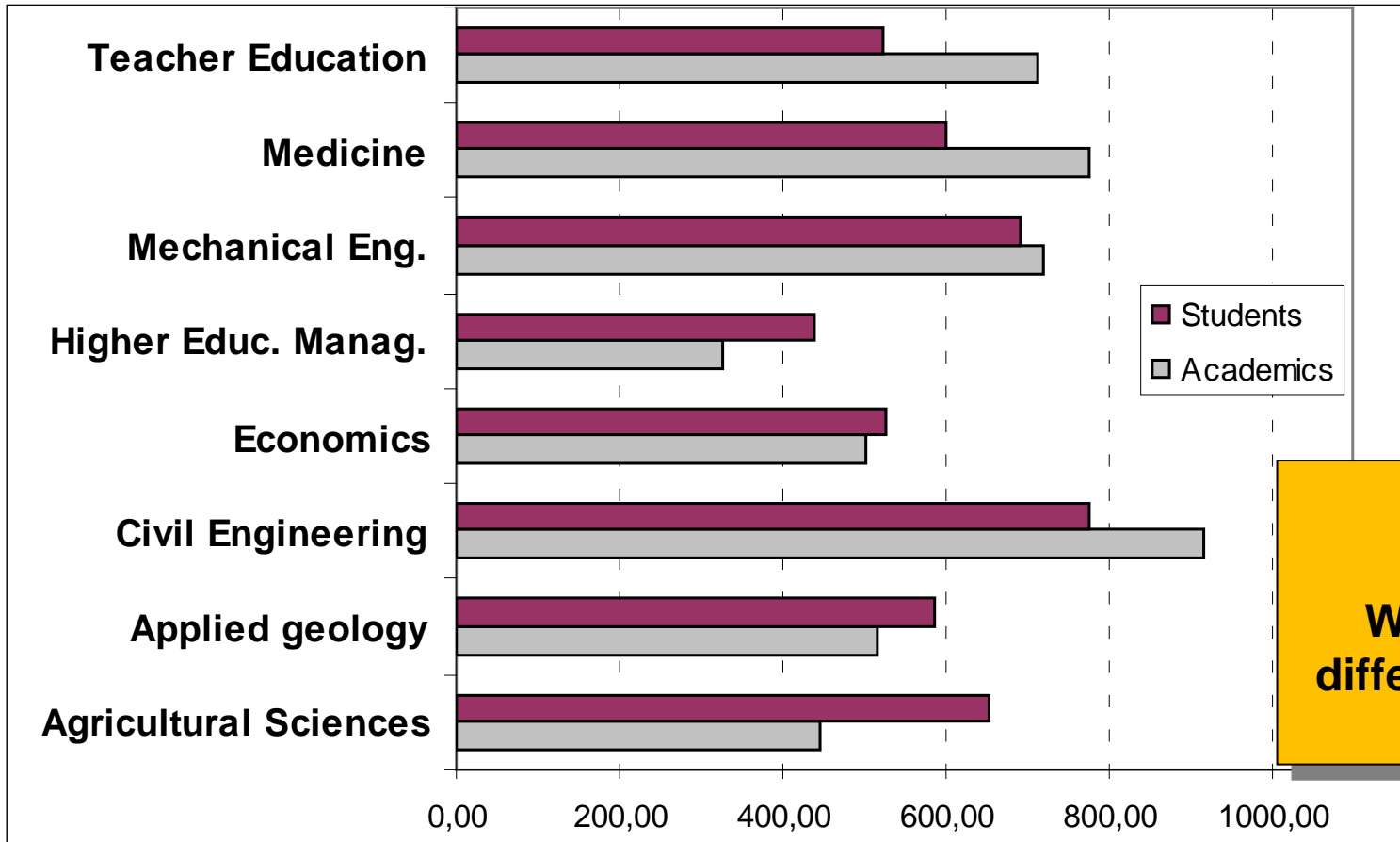
**Latin America  
Student  
Workload in  
18 countries**

# 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



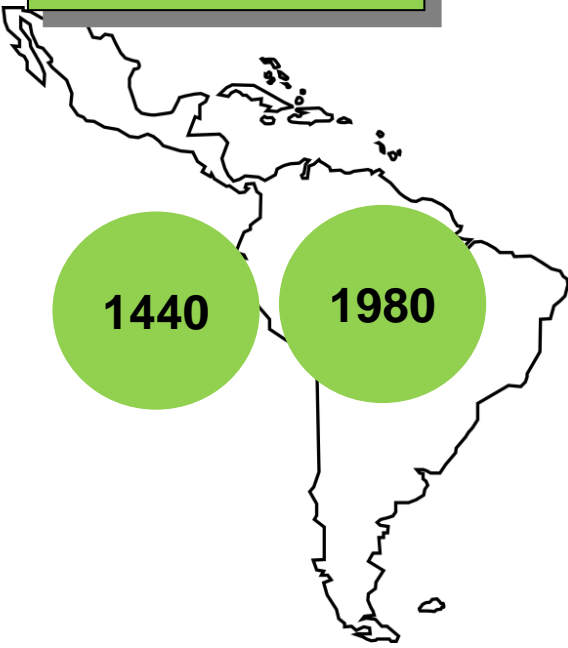
**Academics**

**Students**

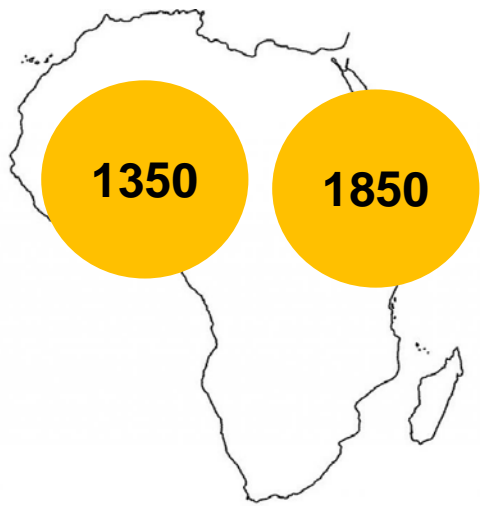
	%Academics saying yes to...		%Students saying yes to...	
	Planning the workload for your unit/course/module, consider necessary to include hours for independent work	Student's expectations and evaluation into consideration when planning the workload	Aware of the number of hours planned for the students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

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

**Latin America**



**Africa**



**Europe**



**Contact hours +  
Independent work**

**1 ACADEMIC YEAR**

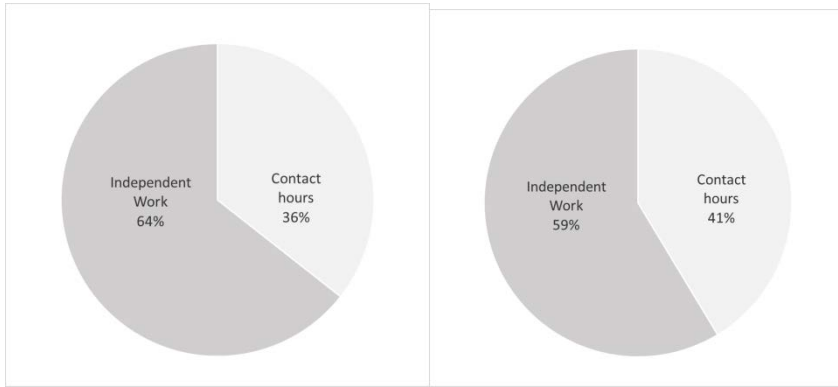
## Some preliminary conclusions

- 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

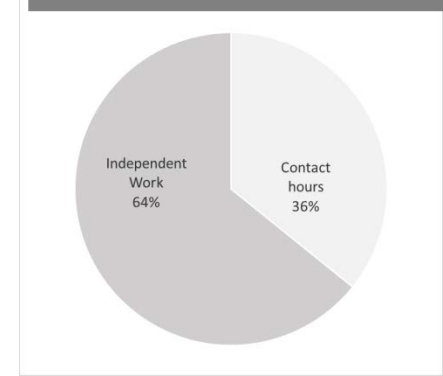


**Academics**

**Students**

## Teacher Education

**Academics**

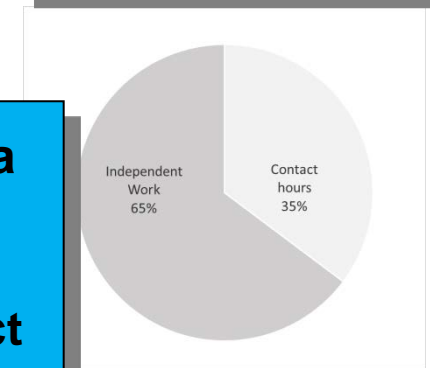


**Students**

## Medicine



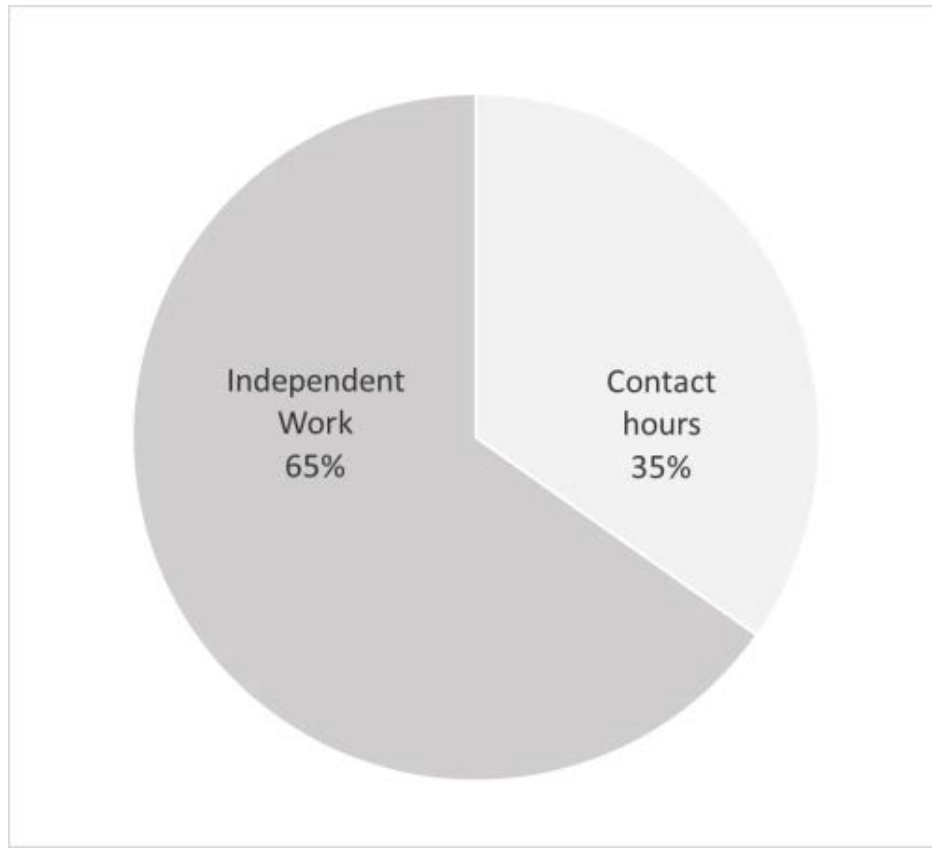
**South East Asia  
Student  
Workload in  
different Subject  
Areas**

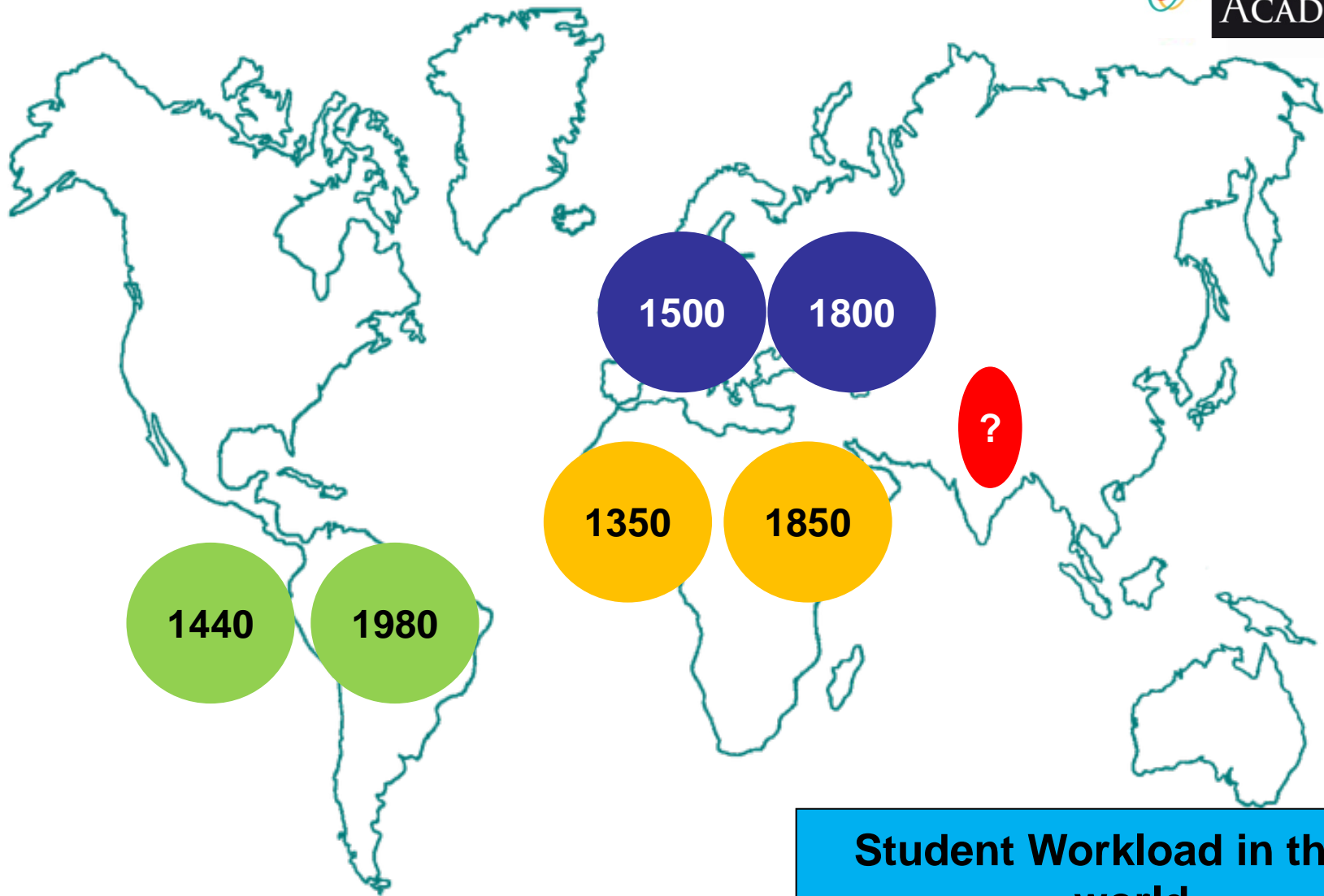


# % Contact hours vs Independent Work

**Students**

**Academics**





**Student Workload in the world**

**Thank you very much!!!!**