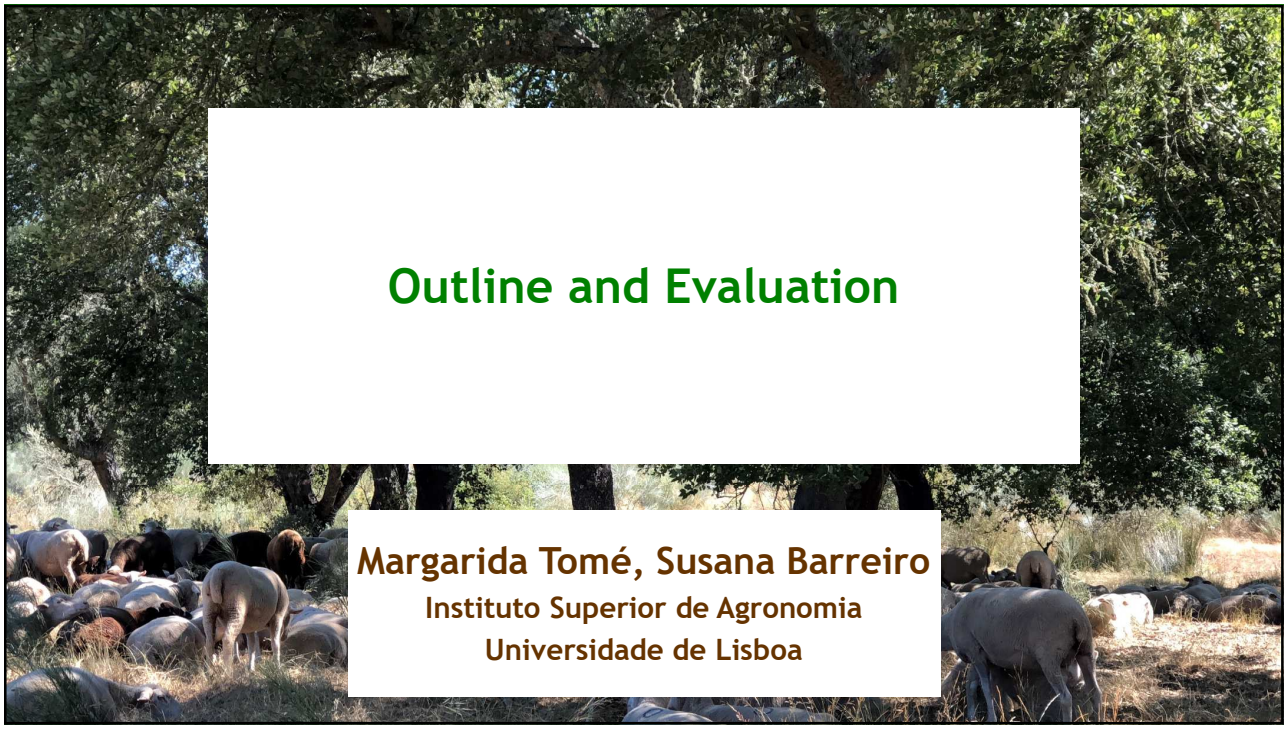


Outline and Evaluation

Margarida Tomé, Susana Barreiro
Instituto Superior de Agronomia
Universidade de Lisboa

▪ Professors

Margarida Tomé
Forest Models Coordinator

Susana Barreiro
Forest Models professor

Joana A. Paulo
Forest Models professor

Outline

- ✓ *(Forest Inventory)*
- ✓ Overview of forest models
- ✓ Data for the development of forest models
- ✓ Tree and stand growth modelling
- ✓ Forest productivity and productivity management
- ✓ Forest Models Typology
- ✓ Growth functions
- ✓ Empirical models:
  - Site quality evaluation
  - Modelling stand basal area growth and evolution of N
  - Modelling diameter and height distribution
  - Modelling inter-tree competition
  - Modelling diameter increment and tree mortality
  - Modelling new plantations and natural regeneration
- ✓ Process-based models:
  - the 3-PG

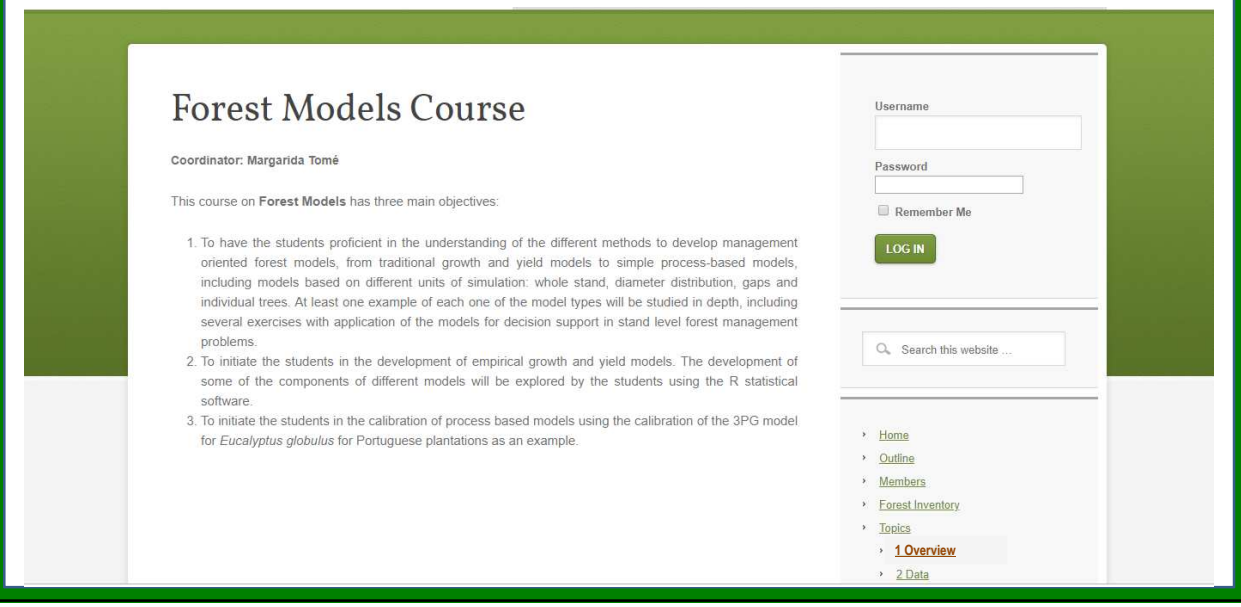
Study Material

- ✓ There is the course website where you will find:
  - A pdf version of the PowerPoint presented in class
  - Additional support material (if required)
  - The instructions and data for the exercises
  - The solutions for the exercises
  - Recommended bibliography: books chapters (and/or articles if needed)
- ✓ Burkhart and Tomé, 2012. Modelling Forest Trees and Stands, Springer

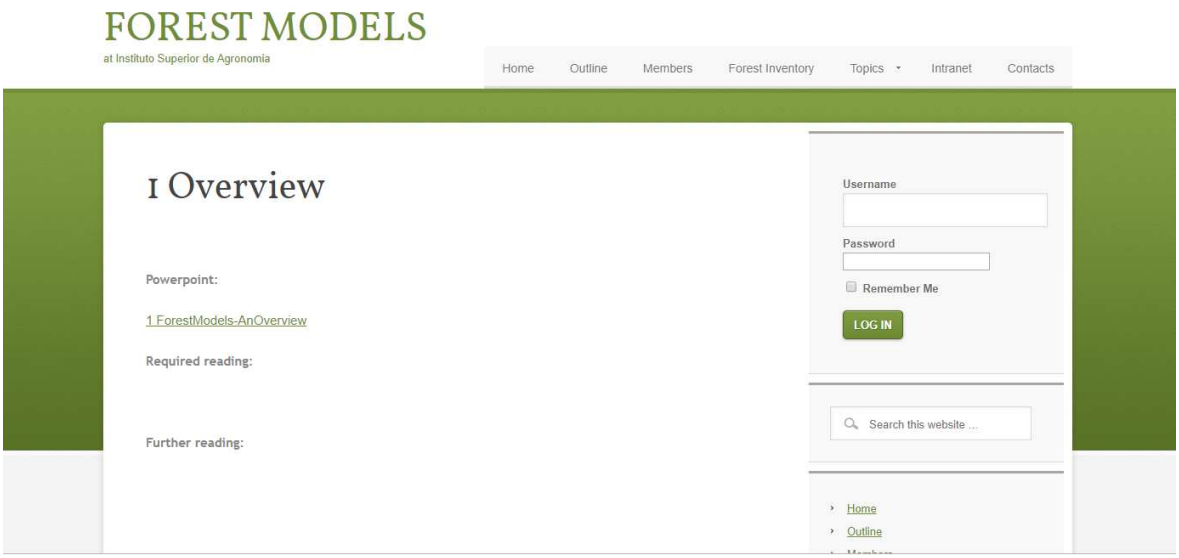
- **Study Material**

http://www.forestmodels.eu

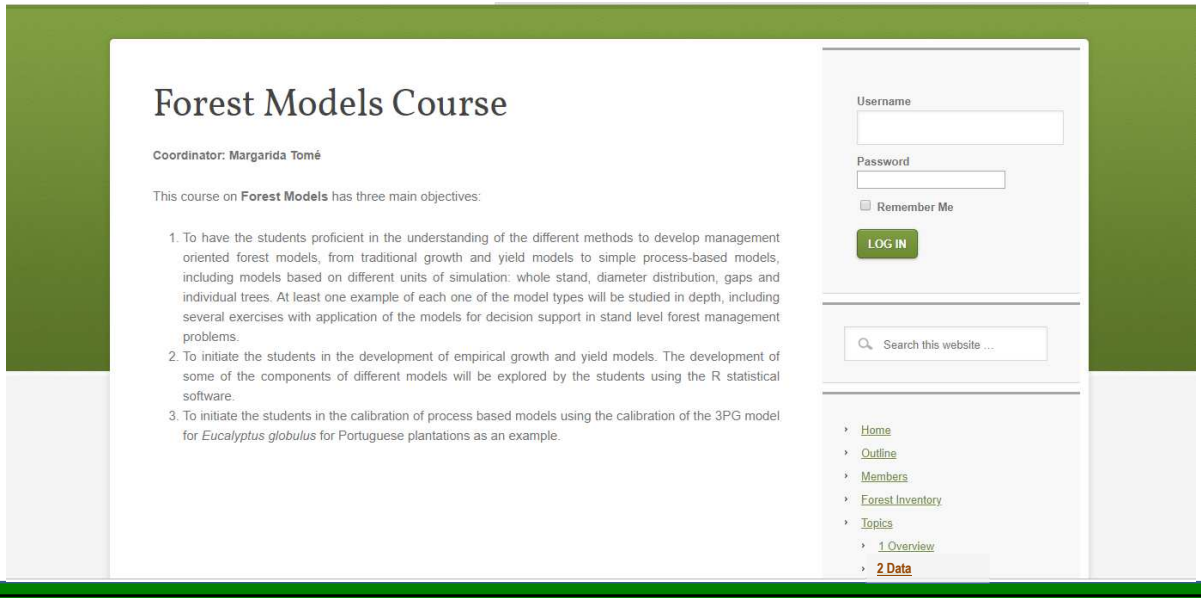
- **Study Material**



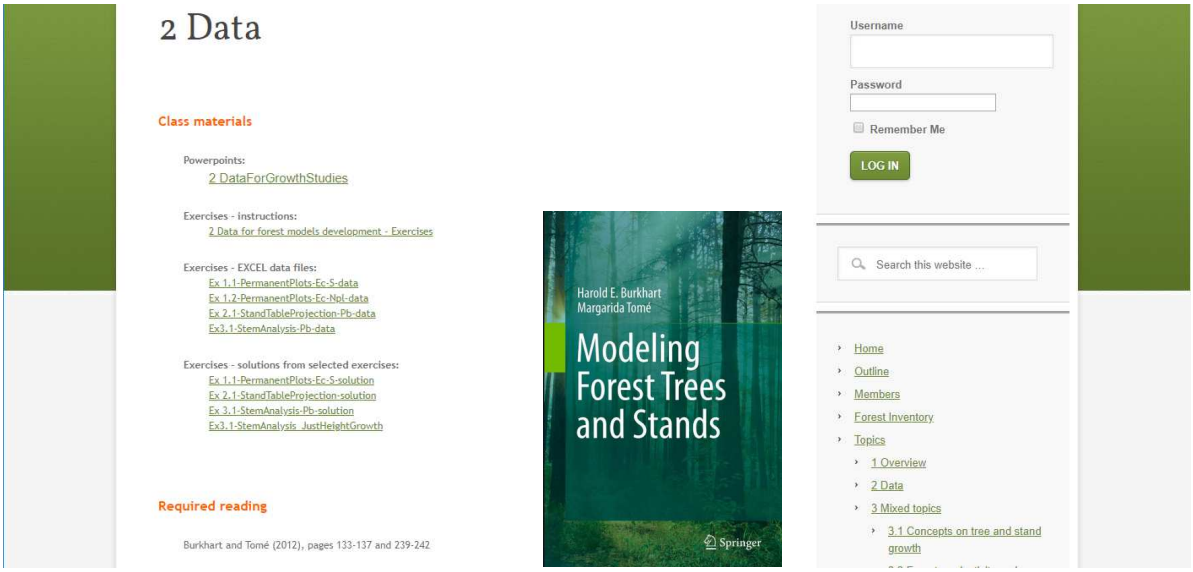
▪ Study Material



▪ Study Material



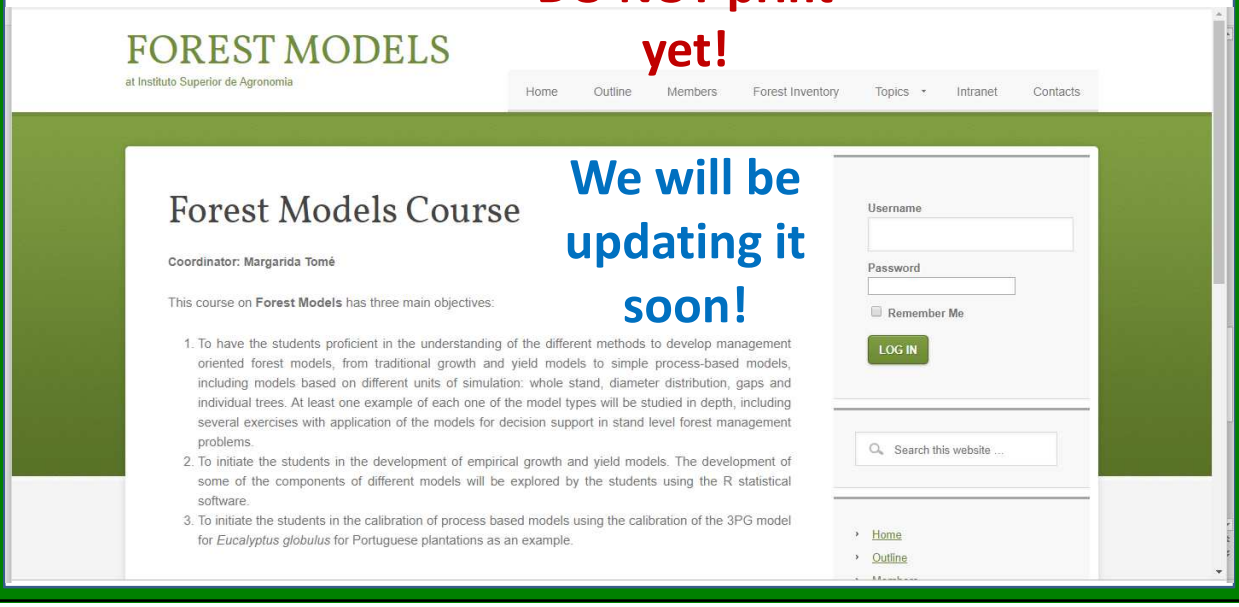
Study Material



Study Material

DO NOT print yet!

We will be updating it soon!



▪Software requirements

✓ Office

Solving the exercises

Writing some essay

Making a presentation

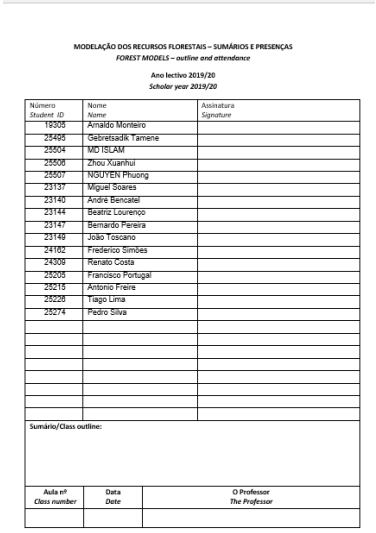
✓Additional software

Model development

Simulation runs

▪ Evaluation

Class attendance > 80 %



MODELAÇÃO DOS RECURSOS FLORESTAIS – SUMÁRIOS E PRESENÇAS
FOREST MODELS – outline and attendance

Ano lectivo 2019/20
Scholar year 2019/20

Número *Student ID*	Nome *Name*	Assinatura *Signature*
19305	Arnaldo Monteiro	
25495	Gebretsadik Tamene	
25504	MD ISLAM	
25506	Zhou Xuanhui	
25507	NGUYEN Phuong	
23137	Miguel Soares	
23140	André Bencatel	
23144	Beatriz Lourenço	
23147	Bernardo Pereira	
23149	João Toscano	
24162	Frederico Simões	
24309	Renato Costa	
25205	Francisco Portugal	
25215	Antonio Freire	
25226	Tiago Lima	
25274	Pedro Silva	

Sumário/Class outline:

Aula nº *Class number*	Data *Date*	O Professor *The Professor*

- **Evaluation**

Class attendance < 80 %

Final Exam (theory)

- **Evaluation**

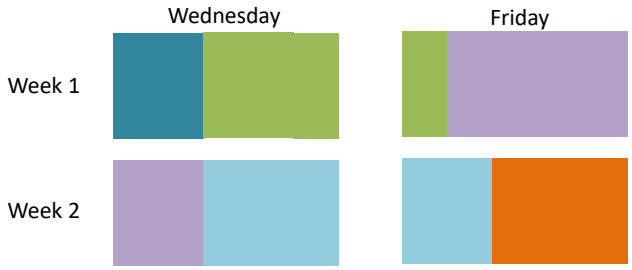
Class attendance > 80 %

Final Exam (theory)

▪ Evaluation

Class attendance > 80 % × (Final Exam (theory) 50 % + Continuous evaluation 50 %)

- ✓ In each class students will be asked to **answer question(s)** or **solve an exercise** on the topics of the previous class.

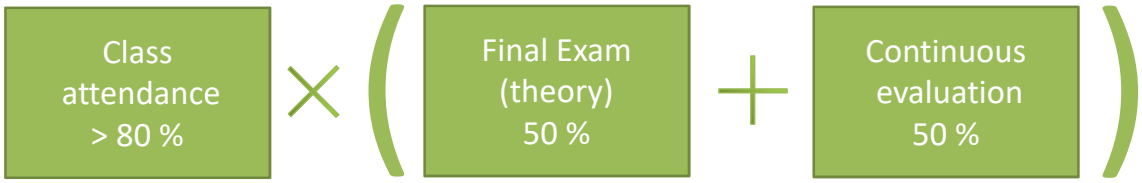


▪ Evaluation

Class attendance > 80 % × (Final Exam (theory) 50 % + Continuous evaluation 50 %)

- ✓ In each class students will be asked to **answer question(s)** or **solve an exercise** on the topics of the previous class.
- ✓ The **question(s)** are to be answered by **student A** during 10 minutes, after which these will be randomly assigned to **student B** who will have another 10 minutes to correct/comment the answer(s) provided. Each student will be graded both for the answers and the corrections/comments to their colleagues. A 10 minutes discussion will follow to clear any doubts that might arise.
- ✓ Students will be provided the **instructions and data to solve an exercise** and have 1 hour to complete it. The professor will assist the student and the student will be graded according to its performance in class and the results.

▪ Evaluation



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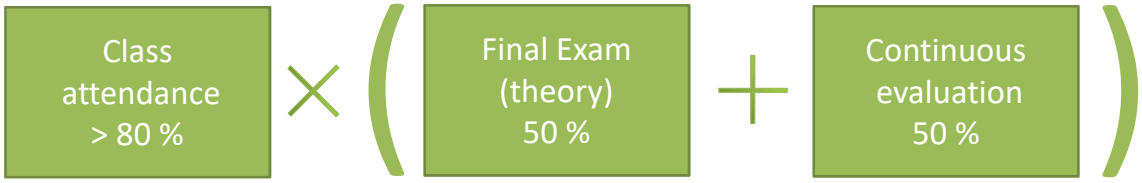
- ✓ Students are invited to take **additional assignments** of their choice to present their colleagues by the end of the semester. Alternatively, topics will be suggested in each class.

▪ Evaluation



- ✓ Students will be provided the **instructions and data to solve an exercise** and have 1 hour to complete it. The professor will assist the student and the student will be graded according to its performance in class and the results.
- ✓ Students are invited to take **additional assignments** of their choice to present their colleagues by the end of the semester. Alternatively, topics will be suggested in each class.
- ✓ All essays/exercises have to be properly identified when submitted to the professor: id_exercise_id_student.xls/.doc
- ✓ **100 % of attendance will allow the 5 lowest grades to be excluded from the average.**

▪ Any Other Business

	M	T	W	T	F	S	S
Sept	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
Oct	30	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	1	2	3
Nov	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	1
Dec	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31					

Conference

Final Exam

Assignments and presentations

After discussion with the students regarding extra classes and after-class help:

MEFRN students proposed **Wednesday 11:00-13:30**

MEDFOR students will have to check their schedules and propose a day and time by emailing me to: smb@isa.ulisboa.pt