



Biotechnology students  
4<sup>th</sup> Level / 7<sup>th</sup> semester  
Plant Biotechnology (BtBio 412)

Weeks	Dates	Theoretical	Practical	Laminar
1	Monday 1/10	Tissue culture medium constituents and calculations	----	----
	Wednesday 3/10			
2	Monday 8/10	Explants		----
	Wednesday 10/10			
3	Monday15/10	Steps of the day’s work, Sterilization	Preparation of Germination medium and tools	----
	Wednesday 17/10			
4	Monday22/10	Steps of the day’s work	Preparation of Callus medium, micropropagation medium, multiplication medium and tools	Germinating seeds
	Wednesday 24/10			
5	Monday29/10	Steps of the day’s work, Observation and calculations on germination section	Preparation of indirect regeneration medium	Callus induction, micropropagation and multiplication
	Wednesday 31/10			
6	Monday 5/11	- Problems on calculations - Explants	Synthetic seeds	----
	Wednesday 7/11			
7	Midterm 10/11-15/11			

8	Monday19/11	Steps of the day's work, Observation and calculations on callus induction	Preparation of rooting medium	Indirect regeneration
	Wednesday 21/11			
9	Monday26/11	Steps of the day's work, Observation and calculations on regeneration	Photosynthetic pigments	Rooting of regenerants
	Wednesday 28/11			
10	Monday3/12	Revision and knowledge about the exam Observation and calculations on rooting		----
	Wednesday 5/12			

**\*Agrobacterium section will be taken in lecture**

**Supervisor: Dr. Rehab Hafez**

**Good Luck**