

Annual Course Report

University: Zagazig

Faculty: Pharmacy

Department: Pharmacognosy

A – Basic Information:

1- Title and Code:Recent applications of Plant Tissue Culture techniques **M107**

2- Program(s) on which this course is given:Pre-master

3- Year / Level of programs:Pre-master

4- Credit hours: -----

Lectures4hrs

week	
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5-Names of lecturers contributing to the delivery of the course:

- Prof.Dr. / EhsanAbozaid
- Prof.Dr./Amal Al-Gendy

6- Course coordinator:

- Prof.Dr. / Ehsanabozaid

7- External evaluator:

- Prof.Dr.Mona GodaZaghlol (Professor of Pharmacognosy, mansura University)

B- Statistical Information:

No. of students attending the course:	5	100%
No. of students completing the course:	4	80%

Results:					
Passed	4	100%	Failed	-	-
Grading of successful students:					
A+	-	0%	A	-	0%
B+	-	0%	B	-	0%
C+	3	75%	C	-	0%
D+	-	0%	D	1	25%

C- Professional Information:

1- Course Teaching:

Topic	No of hours	Lecturers
Introduction: Tissue culture definition, Medium component: Macroelements, Microelements and other components, Plant growth regulators: hormones and applications, Culture types: Callus, cell suspension and protoplast, Culture types: Hairy root cultures, General plant tissue culture laboratory design	30	Prof.Dr. / Ehsan Abo Zied
Plant regeneration: somatic embryogenesis, Plant regeneration: organogenesis, Micropropagation: definition and stages, Practical techniques used for plant tissue culture, Production of the secondary	30	Prof.Dr./ Amal Al-Gendy

metabolites by tissue culture: techniques used		
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Topics taught as a percentage of the content specified:

>90 %	√	70 – 90 %		<70%	
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- Reasons in detail for not teaching any topics: -----
- If any topics were taught are not specified , give reasons in detail: -----

2- Teaching and learning Methods:

Lectures:	√
Seminar / Workshop:	√
Case study:	-
Other assignment / homework:	√

3- Student assessment:

Method of Assessment	Percentage of total %
Written examination	75
Oral examination	15
Activity	10

Members of examination committee:

- Prof.Dr. / EhsanAbozaid
- Prof.Dr./Amal Al-Gendy

4- Facilities and Teaching Materials:

Totally adequate	√
Adequate to some extent	
Inadequate	

5- Administrative Constraints: no constrain

6- Comments from external evaluator(s):

Comments from external evaluator	Response of course team
<p>1) In page 1: Practical skills (c1 to c3) were achieved by the course content 10 &11 in the Matrix.</p> <p>2) In page 4: A column for skill (d3) was added to the general and transferable skills.</p> <p>3) In page 4: The oral exam assess skills (b1 to b3) instead of (c1 to c3).</p> <p>4) In page 3: The written exam assess skills (b1 to b3) instead of (c1 to c3).</p> <p>5) In page 2: skill a4 (The verb apply was replaced by</p>	<p>All changes are done and the course specification (2019-2020) was updated updated.</p>

understanding).	
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7- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Adding some Practical Activities in tissue culture Lab.	complete
Training of examination committee for development of written exam structure to cover ILOS	complete
Continuous development of course content to cope with program ILOS and labour market needs.	complete

8- Action plan for academic year 2020– 2021:

Action required	Completion date	Person responsible
Continuous development of course content to cope with program ILOS and labour market needs.	2020- 2021	Course coordinator & head of department

Course Coordinator: Prof.Dr. / Ehsan Abo Zied

- **Head of Department:** Prof. Dr. / Amal Al-Gendy

Signature:

Date: