

Annual Course Report

University: Zagazig **Faculty:** Pharmacy

Department: Pharmacognosy

A – Basic Information:

1- Title and Code: Natural Products Biotechnology M113

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

3- Year / Level of programs: Pre-master

4- Credit hours: -----

Lectures 4hrs/week

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

- Prof. Ass. Dr. / Maged Abo-Hashem
- Dr. Rehab Hamed

6- Course coordinator:

- Prof. Ass. Dr. / Maged Abo-Hashem

7- External evaluator:

- Prof. Dr. / Mona Goda Zaghlol (Professor of Pharmacognosy, Mansoura 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	0	0%
Grading of successful students:					
A+	-	0%	A	-	0%
B+	-	0%	B	-	0%
C+	3	75%	C	1	25%
D+	-	0%	D	-	0%

C- Professional Information:**1- Course Teaching:**

Topic	No of hours	Lecturers
Fundamentals of NP biotransformation and green biocatalysis, Enzyme immobilization, Phytoremediation and enzyme debittering, Plant genetic engineering.	30	<ul style="list-style-type: none"> Prof. Ass. Dr. / Maged Abo-Hashem
Horizontal and vertical gene transfer, Components and procedures of a typical cloning experiment, Application of genetic engineering in the field of natural products.	30	<ul style="list-style-type: none"> Dr. Rehab Hamed

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. Ass. Dr. / Maged Abo-Hashem
- Dr. Rehab Hamed

- **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
The course includes some refining and update.	References are updated and course include activities.

7- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Updating learning materials	completed

8- Action plan for academic year 2020-2021:

Action required	Completion date	Person responsible
Revision of course content for any required updates	2020-2021	Course Coordinator Head of Department Post- Graduate Vice Dean of Faculty

Course Coordinator:

- Prof. Ass. Dr. / Maged Abo-Hashem

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

