

## **Annual Course Report**

**University:** Zagazig

**Faculty:** Pharmacy

**Department:** Pharmacognosy

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### **A – Basic Information:**

**1- Title and Code:** Biosynthesis of natural products      **GSP5**

**2- Program(s) on which this course is given:** PhD

**3- Year / Level of programs:** PhD

**4- Credit hours:** -----

<b>Lectures</b>	4hrs/week
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**5-Names of lecturers contributing to the delivery of the course:**

- Prof.Dr. / Samih Eldahmy
- Prof.Dr. / Wafaa Hasan Badr

**6- Course coordinator:**

- Prof.Dr. / Samih Eldahmy

**7- External evaluator:**

- Prof.Dr. / Mona Zaghlool (Faculty of Pharmacy – Mansoura University )

### **B- Statistical Information:**

No. of students attending the course:	2	100%
No. of students completing the course:	2	100%

**Results:**

Passed	2	100%	Failed	0	0%
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**Grading of successful students:**

A+	-	-	A	-	-
B+	-	-	B	-	-
C+	-	-	C	2	100%
D+	-	-	D	-	-

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

Topic	No of hours	Lecturers
Plant Cell, Plant Physiology, Types of Enzymes and Mechanism of Enzymes, Photosynthesis, 1ry and 2nd metabolites, Isotopes, Acetate Pathway: Polyketides, Acetate-Acetate , Acetate Pathway: Acetate-malonate, Irregular acetates, Acetate Pathway: Oxidative phenol coupling, Applications, Shikimate Pathway: Simple Phenols, Coumarins, Shikimate Pathway : Flavonoids, Shikimate Pathway : Other aromatics, Mixed Origin Compounds	60	Ass.Prof.Dr. / Wafaa Hasan Badr  Dr.May Al-Sayed

, Alkaloids Pathway : General aspects, Oxidative phenol coupling in alkaloid biosynthesis, Alkaloids Pathway : Mevalonate origin, Alkaloids Pathway : Terpenoid alkaloid		
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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: -----  
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### **2- Teaching and learning Methods:**

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

### **3- Student assessment:**

Method of Assessment	Percentage of total %
<b>Written examination</b>	75
<b>Oral examination</b>	15
<b>Activity</b>	10

### **Members of examination committee:**

- Prof.Dr. / Samih Eldahmy
- Prof.Dr. / Wafaa Hasan Badr

#### 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
Well structured course content	-----

#### 7- Course Enhancement:

Action required	State whether or not complete and give reasons for any non-completion
Evaluation methods should include marks for assignment, practical, seminars and other activities.	Complete

#### 8- Action plan for academic year 2020– 2021:

Action required	Completion date	Person responsible
Adding new Advanced topics to the course	<b>2020– 2021</b>	Course coordinator
Training of examination committee for development of written exam structure to	<b>2020– 2021</b>	Examination committee member

cover ILOS		Training Unit
Continuous development of course content to cope with program ILOS and labour market needs.	<b>2020– 2021</b>	Course coordinator & head of department

**Course Coordinator:**

- Prof.Dr. / Samih Eldahmy

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