



King Saud University  
College of Science  
Vice Dean Academic Affairs  
Study Plans

# **PhD Botany Study Plan**

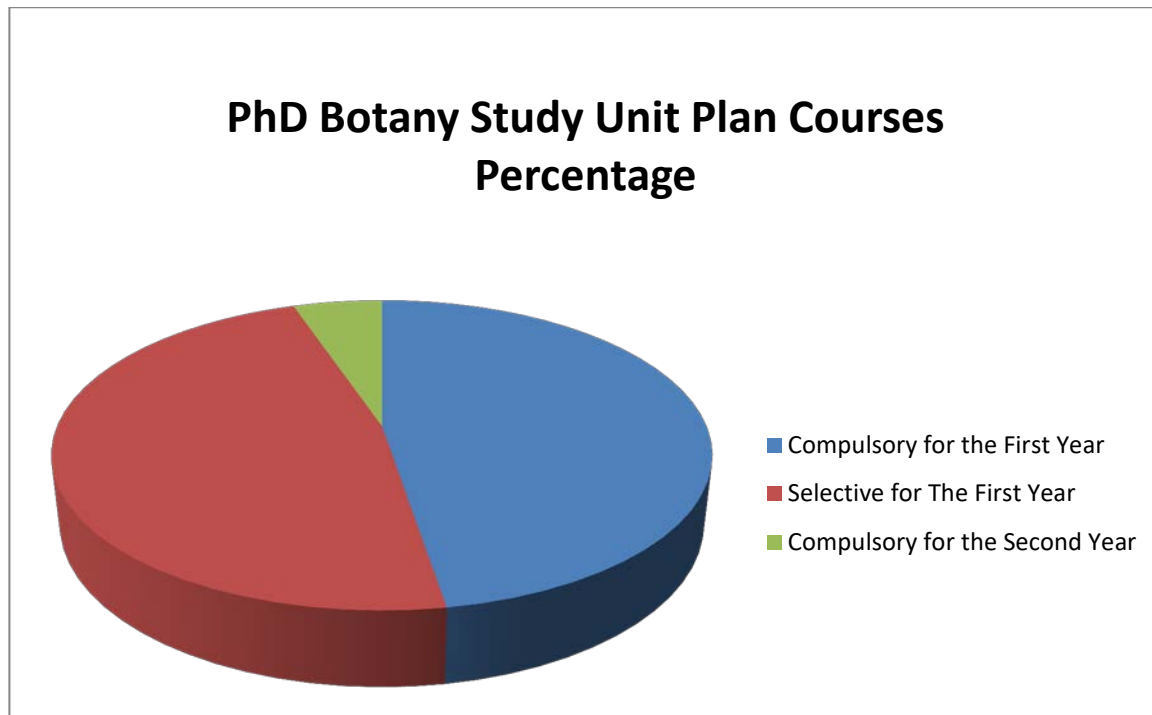
## **Botany and Microbiology Department**

**2019 – 1441H**

### PhD Botany Study Unit Plan Courses Percentage

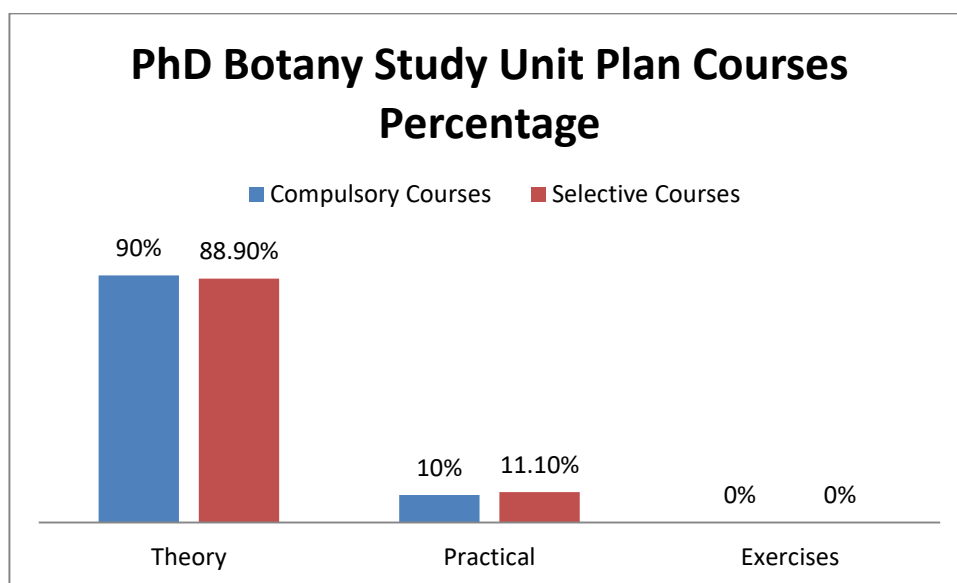
Required Study Courses	Number of Courses	Total Study Unit	Percentage from 19 Unit
Compulsory for the First Year	5	9	47.4%
Selective for The First Year	4	9	47.4%
Compulsory for the Second Year	3	1	5.2%
<b>Total</b>	<b>12</b>	<b>19</b>	<b>100</b>

### PhD Botany Study Unit Plan Courses Percentage



## PhD Botany Study Unit Plan Courses Percentage

	Number of Courses	Total Study Units	Theory	Percentage of 96 Units	Practical	Percentage of 96 Units	Exercises	Percentage of 96 Units
Compulsory Courses	8	10	9	90%	1	10%	0	0%
Selective Courses	4	9	8	88.9%	1	11.1%	0	0%
<b>Total</b>	<b>12</b>	<b>19</b>	<b>17</b>	<b>89.5</b>	<b>2</b>	<b>10.5%</b>	<b>0</b>	<b>0%</b>



## PhD Botany Study Plan

(Lect – Exer. – Pract.) = (Lecture – Exercise – Practical)

First Semester (COMPULSORY)				
Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.- Exre.-ract.)
BOT 611	ADVANCED PLANT ANATOMY	-	-	2(2+0+0)
BOT 641	BASIC CHARACTERISTICS OF HABITATS & THEIR PLANTS IN SAUDI ARABIA	-	-	2(2+0+0)
BOT 651	GENE REGULATION & DEVELOPMENT PATTERNS	-	-	2(2+0+0)
BOT 671	ADVANCED STRESS PHYSIOLOGY	-	-	2(2+0+0)
BOT 691	SEMINAR	-	-	1(1+0+0)
<b>Total of Credit Hours</b>				<b>9</b>

Second Semester (COMPULSORY)				
Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.- Exre.-ract.)
BOT 699	RESEARCH PROPOSAL PREPARATION	-	-	1(1+0+0)
<b>Total of Credit Hours</b>				<b>9</b>

Third Semester (COMPULSORY)				
Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.- Exre.-Pract.)
BOT 700	COMPREHENSIVE EXAM	-	-	0(0+0+0)
<b>Total of Credit Hours</b>				<b>1</b>

Fourth Semester (COMPULSORY)				
Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.- Exre.-Pract.)
BOT 700	RESEARCH (THESIS)	-	-	1(0+0+6)
<b>Total of Credit Hours</b>				<b>1</b>

**Group 1: ELECTIVE COURSES (9 CREDIT HOURS) according to student minor specialization**

Second Semester				
Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.- Exre.-Pract.)
BOT 621	ADVANCED EXPERIMENTAL TAXONOMY	-	-	2(2+0+0)
BOT 642	SEED ECOLOGY	-	-	2(1+0+2)
BOT 652	GENETIC ENGINEERING	-	-	2(2+0+0)
BOT 672	ADVANCED STUDY IN PLANT GROWTH REGULATORS	-	-	2(2+0+0)
BOT 673	PLANT CELL METABOLISM	-	-	2(2+0+0)
BOT 674	SEED PHYSIOLOGY	-	-	2(2+0+0)
BOT 692	SPECIAL TOPICS	-	-	3(3+0+0)
<b>Total of Credit Hours</b>				<b>15</b>

### List of PhD Compulsory Courses

Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.-Exre.-Pract.)
BOT 611	ADVANCED PLANT ANATOMY	-	-	2(2+0+0)
BOT 641	BASIC CHARACTERISTICS OF HABITATS & THEIR PLANTS IN SAUDI ARABIA	-	-	2(2+0+0)
BOT 651	GENE REGULATION & DEVELOPMENT PATTERNS	-	-	2(2+0+0)
BOT 671	ADVANCED STRESS PHYSIOLOGY	-	-	2(2+0+0)
BOT 691	SEMINAR	-	-	1(1+0+0)
BOT 699	RESEARCH PROPOSAL PREPARATION	-	-	1(0+0+0)
BOT 700	COMPREHENSIVE EXAM	-	-	1(0+0+0)
BOT 700	RESEARCH (THESIS)	-	-	1(0+0+6)

### List of PhD Elective Courses

Course Code	Course Title	Pre-Req.	Co-Req.	Credits (Lect.-Exre.-Pract.)
BOT 621	ADVANCED EXPERIMENTAL TAXONOMY		-	2(2+0+0)
BOT 642	SEED ECOLOGY	-	-	2(1+0+2)
BOT 652	GENETIC ENGINEERING	-	-	2(2+0+0)
BOT 672	ADVANCED STUDY IN PLANT GROWTH REGULATORS	-	-	2(2+0+0)
BOT 673	PLANT CELL METABOLISM	-	-	2(2+0+0)
BOT 674	SEED PHYSIOLOGY	-	-	2(2+0+0)
BOT 692	SPECIAL TOPICS	-	-	3(3+0+0)