



# The Islamia University of Bahawalpur

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## Tentative Course Plan DEPARTMENT OF BOTANY

Class: BS Botany

Semester-8th (Botany)

Session: 2016-20

<b>Instructor</b>	<b>Ghulam Sarwar</b>	<b>Email: <a href="mailto:lifesci.flora786@gmail.com">lifesci.flora786@gmail.com</a></b>	
<b>Course Title</b>	<b>Economic Botany</b>	<b>Program</b>	<b>BS Botany</b>
<b>Course Number</b>	<b>BOTA- 01804</b>	<b>Credit Hours</b>	<b>3(2+1)</b>
<b>Lecture</b>	.....day: ..... period (00:00a.m to 00: 00a.m), Room# 00		
<b>Course Objective:</b>			
To provide students with brief introduction to fundamental concepts Ethnobotany.			
To elucidate the basic utilization of plants for human welfare.			
To introduce the basic tools used in extraction and administration of valuable plants products.			
<b>Methods of Teaching</b>			
<ul style="list-style-type: none"> <li>• Assigned readings ✓</li> <li>• Group activities &amp; Discussion ✓</li> <li>• Audiovisual aids lectures ✓</li> <li>• Web-assisted instruction ✓</li> <li>• Student-Directed Teaching ✓</li> </ul>			
<b>Resource Material</b>	<b>Books Prescribed:</b>		
	1. Harper, R. M. 2010. Economic Botany of Alabama, General Books LLC.		
	2. John, H. B. 2010. Second Book of Botany, Nabu Press.		
	3. Goodale, G. L. 2010. Useful Plants of the Future; Some of the Possibilities of Economic Botany, General Books LLC.		
	4. Boulger, G. S. 2009. The Uses of Plants: A Manual of Economic Botany, Biblio Bazaar.		
	2.Reference Book		3.Research Papers
i		i	
ii		ii	
4.Hot Research Papers		5.Web Resources	
i		I	
ii		Ii	
<b>Office Help Hours</b>	.....day: ..... period (00:00a.m to 00: 00a.m), Room# 00		
<b>Grading</b>	Exam (Date to be announced) Mid- Exam (30%) Final Exam (50%) Problem Session/Assignments (20%)		
<b>Problem Session</b>	.....day: ..... period (00:00a.m to 00: 00a.m), Room# 00		
<b>SEQUENCE OF TOPICS TO BE COVERED</b>			
<b>Session</b>	<b>Topics</b> (outline of main topics and sub topics)	<b>Chapter #</b>	<b>Tutorial /Laboratory</b>
<b>1</b>	Introduction to Economic Botany: History and Applications.		Collection, identification and preservation of the economic plants from Cryptogams and Phanerogams (field visits).
<b>2 &amp; 3</b>	Plants as sources of food, feed and fiber.		
<b>4 &amp; 5</b>	Plants as sources of timber and Vegetables.		
<b>5 &amp; 6</b>	Plants as sources of phytochemicals and medicine.		Collection, identification and preservation of the economic plants from Cryptogams and Phanerogams (Local market).
<b>7&amp; 8</b>	Study of Cryptogams for their economic uses.		
<b>9 &amp; 10</b>	Study of Phanerogams for their economic uses.		
<b>11 &amp; 12</b>	Geographic distribution, taxonomy and nomenclature of plants according to the nature and type of their economic products.		
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15, 16	Geographic distribution, taxonomy and nomenclature of plants according to the nature and type of their economic products.		
<b>Mid Term Exams</b>			
17&18	Cultural approaches to the improvement of economic plants for better yield of economic products.		Extraction and measurement of phytochemicals from important plant species collected from fields.
19&20	Physiological approaches to the improvement of economic plants for better yield of economic products.		
21&22	Molecular approaches to the improvement of economic plants for better yield of economic products.		
23 &24	Strategies for the domestication and preservation of economic plants.		
25 &26	Strategies for the domestication and preservation of economic plants.		
27	Environmental considerations of the economic plants.		
28	Eco-physiological considerations of the economic plants.		Extraction and measurement of phytochemicals from important plant species collected from Local market.
29 &30	Human and veterinary medicinal plants.		
31	Plant toxins and their applications.		
32	Course/Discussion from session 1- 30		
<b>Final Term Exam</b>			

**Student Evaluation criteria:**

Attendance	5%
Workshop / Assignments/Case study	5%
Surprise Test/Sudden Test , Quizzes	5%
Class Participation	5%
Mid Term Paper	30%
Final Term paper	50%
<b>Total</b>	<b>100%</b>

**Student Responsibilities:**

Students must attend class. Failure to attend class may result in failure in the course. Students must also arrive on time and remain in class for the entire period. Cellular Phones and Beeper must be Turned off (Proper classroom decorum [behavior] adopts, Course outlines and calendars explain requirements and assignments, students are responsible for knowing what they say. Students are also responsible for doing all assigned work on time. Excessive absences (more than 03) will result in “F Grade”. Students may prepare Sketchbook for taking notes and for references.

**Instructor/Tutor**

**Approved by:**

**Chairman**