

**COURSE OUTLINE AND LECTURE SCHEDULE FOR**  
**FRW-712 (URBAN FORESTRY)**

By

**MUHAMMAD ATIF LATIF**  
**M.Sc. (Hons) Forestry (Silver Medal)**  
Visiting Lecturer

**Department of Forestry, Range and wildlife  
management**



**The Islamia University of Bahawalpur**

**Spring Semester 2020**

**THE ISLAMIA UNIVERSITY OF BAHAWALPUR**  
***Department of Forestry, Range and Wildlife Management***  
**COURSE OUTLINE (Major Course)**

<b>Program</b>	M.Phil. Forestry	<b>Course instructor</b>	Muhammad Atif Latif M.Sc. (Hons)
<b>Years/Semester</b>	Spring 2020/2 <sup>nd</sup>	<b>E-Mail</b>	<a href="mailto:atif1878@hotmail.com">atif1878@hotmail.com</a>
<b>Name of the Course</b>	Urban Forestry		
<b>Course No.</b>	FRW-712		
<b>Credit Hours</b>	3(2-1)		
<b>Prerequisites</b>	Mphil Forestry.		
<b>Follow up</b>	-		
<b>Category</b>	General course		
<b>Background and Aims</b>	<p>Urban trees are excellent filters for urban pollutants and fine particulates. Trees can provide food, such as fruits, nuts and leaves. Spending time near trees improves physical and mental health by increasing energy level and speed of recovery, while decreasing blood pressure and stress. Trees properly placed around buildings can reduce air conditioning needs by 30% and save energy used for heating by 20–50%. Trees provide habitat, food and protection to plants and animals, increasing urban biodiversity...planting trees today is essential for future generations. Wildlife is present even in the densest of cities. In order to preserve biodiversity, maintain ecosystem function, reduce property damage, foster safe neighborhoods, and encourage positive associations with wildlife, the study of urban animal communities seeks to understand stressors on wildlife populations, species interactions, and sources of human-wildlife conflict. Current directions in urban wildlife research are the development of more mechanistic approaches to understanding human-wildlife relationships.</p>		
<b>Objectives</b>	<p>To familiarize the students regarding:</p> <ul style="list-style-type: none"> <li>• Basic concepts of Urban Forest and Urban wildlife</li> <li>• Importance of Urban Forest and Urban wildlife</li> <li>• Types of Forest in different Ecological zones of Pakistan</li> <li>• Management of Urban Forest Areas and its problems</li> <li>• Management of Urban Wildlife and its problems</li> </ul>		
<b>Syllabus</b>	<p><b>Theory</b>  Introduction and importance of urban wildlife, Community forestry, Management and practices of social forestry, Socio-economic impacts of urban forestry, wildlife of the urban and forest areas of Pakistan and their current status, Factors reducing urban and forest areas wildlife, Benefits of Wildlife in urban areas, how to promote urban wildlife, Related rules and regulations, Role of the urban as well as forest areas in wildlife conservations, Food chain and Food web, Management problems associated with such wildlife, planning resources for urban wildlife enrichment, management of nuisance wildlife species, Role of parks , forest and recreation sites in urban wildlife. Needs for establishment of flora and fauna of urban and forest environment.</p>		

	<b>Practical</b> Visit to different urban areas and identification of urban wildlife species, studying their food and feeding habits, useful and harmful impacts of such wildlife species, Visit to local zoos and museums for wildlife identifications, Specimen collection and its preservation in laboratory, Data collection on wildlife, Visit to various nurseries, forest and forest farms, Identification of problems in these areas, suggestions and solutions, preparation of survey reports and presentations.					
<b>Books Recomend</b>	1. Hosetti,B.B.,2003, Wildlife Management in India, Pointer publishers Jaipur India. 2. Hosetti,B.B.,2005, Concepts in Wildlife Management (Revised editions.).Daya Publishing house. New Dehli. India. 3. Hudson, R.J. 1989, Wildlife production systems Cambridge University Press, UK. 4. Prabhakar, V.k., 1999. Encycopaedia of Biodiversity vol.3 Anmol publication New Dehli India. 5. S.K.Singh, 2005, Wildlife Management, International Books Distributing Co. Charbagh , India. 6. Gary ,L. R., J. M. Edington, I. I. Holland and G, C. Fortenberry, 2005. Forest and Forestry Book CO, Lucknow, India. 7. Panwar, P. and S.D. Bhardwaj. 2005, Hand Book of Practical Fotrestry. Agribios Publishling,Jodhpur, India					
<b>Internet sources</b>	1. Google , YouTube, Wikipedia 2. WWF Website, IUCN website					
<b>Instructional Aids/ Resources</b>	○ White board and erase able markers ○ Overhead Projector/Multimedia					
<b>Teaching Strategies</b>	○ Lectures ○ Group discussion					
<b>Assessment</b>	Marks	Sessional	Mid	Final	Practical	Total
	Criteria	8	12	20	20	60
	Results					

Sr. No.	Date	Course
1	25-02-2020	Introduction, Orientation, Course Outline
2	28-02-2020	Basic concepts, definitions and scope
3(P)	28-02-2020	Detailed discussion for practical
4	3-03-2020	Introduction and importance of urban wildlife
5	6-03-2020	Cont.
6(P)	6-03-2020	Identification of Urban tree Species
7	10-03-2020	Community forestry and their Management
8	13-03-2020	Cont.
9 (P)	13-03-2020	Identification of urban wildlife species
10	17-03-2020	Socio-economic impacts of urban forestry
11	20-03-2020	Socio-economic impacts of urban forestry(cont.)
12 (P)	20-03-2020	Feeding habits of main urban wildlife species
13	24-03-2020	wildlife of the urban and forest areas of Pakistan and their current status.
14	27-03-2020	Continue.
15 (P)	27-03-2020	useful and harmful impacts of urban wildlife species
16	31-03-2020	Benefits of Wildlife in urban areas
17	03-04-2020	Conti.
18 (P)	03-04-2020	Procedure how to collect urban tree leaves and preserve
19	07-04-2020	Factors reducing urban and forest areas wildlife
20	10-04-2020	continue
21 (P)	10-04-2020	Species collection
22	14-04-2020	how to promote urban wildlife
23	17-04-2020	Quiz and presentations
24 (P)	17-04-2020	Conti.
	<b>20-04-2020</b>	<b>Mid-term exams</b>
25	28-04-2020	Role of the urban as well as forest areas in wildlife conservations
26	01-05-2020	Continue
27(P)	01-05-2020	Visit to local zoos for wildlife identifications
28	5-05-2020	Food chain and Food web
29	08-05-2020	Continue
30(P)	08-05-2020	Visit to local Museums for wildlife identifications
31	12-05-2020	Management problems associated with urban wildlife
32	15-05-2020	Continue
33(P)	15-05-2020	Specimen collection and its preservation in laboratory
34	19-05-2020	Planning resources for urban wildlife enrichment
35	22-05-2020	Continue
36(P)	22-05-2020	Visit to various nurseries, forest and forest farms
37	26-05-2020	Management of nuisance wildlife species
38	29-05-2020	Continue
39(P)	29-05-2020	Identification of problems in these areas, suggestions and solutions,

39	02-06-2020	Role of parks , forest and recreation sites in urban wildlife
40	05-06-2020	Continue
41(P)	05-06-2020	preparation of survey reports
42	09-06-2020	Needs for establishment of flora and fauna of urban and forest environment.
43	12-06-2020	continue
44(P)	12-06-2020	problems
45	16-06-2020	Quiz and presentations
46	19-06-2020	Continue
47(P)	19-06-2020	Continue

**Assignments:**

1. Literature search on Urban Forest and Urban Wildlife
2. Specific assignment to individual student (1)
3. Specific assignment to individual student (2)