

**INSTITUTE OF SOIL AND ENVIRONMENTAL SCIENCES**  
**UNDERGRADUATE COURSES TO BE OFFERED DURING *WINTER***  
**SEMESTER, 2014-15**  
**B.Sc. (Hons.) ENVIRONMENTAL SCIENCE**

**SEMESTER-V**

Course No.	Title of Course	Credit Hours	Name of Teacher
<b>MAJOR COURSES</b>			
SES-313	Microbial Ecology and Plant Growth	3(3-0)	Dr. Zahir Ahmad Zahir Dr. Muhammad Naveed
SES-319	Introduction to Environmental Science	3(3-0)	Dr. Saif Ullah Ms. Sadia Bibi
SES-321	Environmental Chemistry	3(2-1)	Dr. Hamaad Raza Ahmad Dr. M. Zia-ur-Rehman
<b>SUPPORTING COURSES</b>			
ERE-301	Introduction to Environmental Economics	3(3-0)	Dept. of Environmental Resource Economics
Pharm-303	Environmental Toxicology	3(2-1)	Dept. of Physiology and Pharmacology
<b>ELECTIVE COURSES*</b>			
SES-311	Plant Growth under Stress Environment	3(2-1)	Dr. Zulfiqar Ahmad Saqib Dr. M. Anwar-ul-Haq
SES-315	Municipal Waste and its Transformations	2(2-0)	Dr. M. Javed Akhatr Dr. Muhammad Khalid
SES-323	Environmental Management System	3(3-0)	Dr. Safdar Bashir Dr. Hafiz Naeem Asghar
SES-325	Environmental Laws and Policies	2(2-0)	Dr. Muhammad Saqib Dr. Muhammad Usman

**\*One course of 2 credit hours and one of 3 credit hours to be selected.**

**SEMESTER-VII**

<b>MAJOR COURSES</b>			
SES-411	Preparation of Research Project and Scientific Writing	2(1-1)	Dr. Tariq Aziz Dr. Abdul Wakeel
SES-507	Instrumentation and Laboratory Techniques	2(0-2)	Dr. M. Anwar-ul-Haq Dr. Zulfiqar Ahmad Saqib
SES-417	*Climate Change and Environment	2(2-0)	Dr. Muhammad Saqib
SES-419	Environmental Profile of Pakistan	3(3-0)	Dr. Zulfiqar Ahmad Saqib Dr. Muhammad Sabir Dr. Safdar Bashir

**\*Shared with Department of Agronomy.**

**SUPPORTING COURSES**

Stat-401	Applied Statistics for Soil and Environment	3(2-1)	Dept. of Math & Statistics
ERE-403	Management of Natural Resources	3(3-0)	Dept. of Environmental & Resource Economics
SEE-607	Industrial Pollution and its Control	3(2-1)	Dept. of Structure and Environmental Engineering

**\*\*ELECTIVE COURSES**

SES-403	Environmental Pollution and Management	3(3-0)	Dr. Muhammad Javed Akhtar Ms. Sadia Bibi Dr. Zia-ur-Rehman Dr. M. Usman
FRW-407	Biodiversity and Environment	3(2-1)	Dept. Forestry RM&W
SES-415	Pollutant Movement in Soil	3(2-1)	Dr. M. Anwar-ul-Hassan Ms. Sadia Bibi Dr. Safdar Bashir
Agron-301	Agro-Ecology	3(2-1)	Dept. of Agronomy

**\*\*One elective course to be selected.**

**(DR. ZAHIR AHMAD ZAHIR)**  
Director

**(DR. MUHAMMAD USMAN)**  
Secretary Board of Studies