



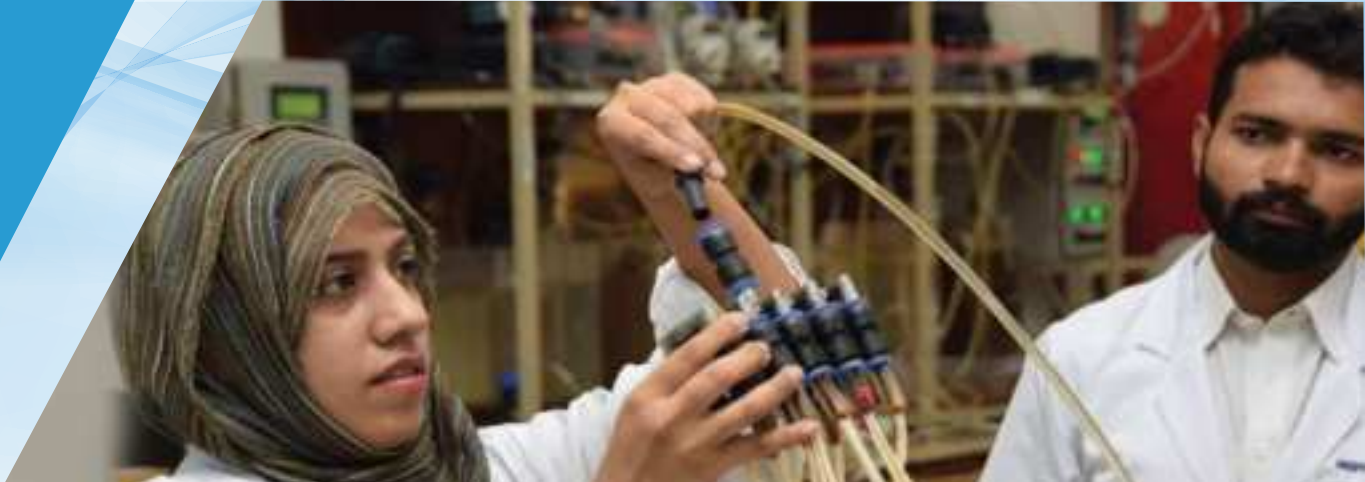
**FORMAN  
CHRISTIAN  
COLLEGE**  
(A CHARTERED UNIVERSITY)

## Department of Environmental Sciences

The BS Environmental Sciences degree program was introduced at Forman Christian College (A Chartered University) by the Department of Biological Sciences in 2008. The subject of Environmental Science is interdisciplinary in nature, and the program was, therefore, managed by the core faculty with support from allied departments, such as Biology, Chemistry, Geography and Physics. Catering to the increased demand by the students for postgraduate qualifications, a full-fledged Department of Environmental Sciences was established in the University in 2016. The Department has a highly experienced PhD faculty, including foreign faculty from Australia, Portugal and South Korea.

**Merit-based financial  
awards available**

**PEEF scholarships available  
for eligible students**



## MPhil Environmental Sciences

The MPhil Environmental Sciences is a two-year evening program consisting of 2 semesters of coursework of 30 credit hours followed by 2 semesters of research of 12 credit hours. To be eligible to undertake research, a student must achieve a minimum of 2.75 CGPA in the coursework. For their research work the students have access to laboratories with equipment like AAS, HPLC, GC-MS, UV-Vis Spectrometer, NMR, Ion Chromatography (IC), CHN Auto Analyzer, Total Organic Carbon (TOC) Analyzer etc.

## Current Research Themes

- Life Cycle Assessment (LCA)
- Soil carbon stock estimation
- Bioremediation/Phytoremediation of contaminated soil
- Occupational health risk assessment
- Environmental Nanotechnology
- Membrane Biological Reactor (MBR) use for wastewater treatment
- Carbon sequestration
- Impacts of climate change on Pakistan

## Admission Criteria

- A 4-year BS (Hons) degree from an HEC-recognized university with major in Environmental Sciences or related fields such as Biological Sciences, Chemistry, Agricultural Sciences, Forestry, MBBS, BDS, DVM, Pharmacy, or relevant Engineering disciplines with a minimum of 2.5 CGPA and 130 credit hours

OR

- A conventional MSc in Natural Sciences (Physics, Chemistry, Botany, and Zoology) with a minimum of 60% marks

## NOTE

Acceptance is based upon the 1) Departmental test, 2) Interview and 3) An overall evaluation of the candidate, including: academic achievements, statement of purpose and English language proficiency.

Provisional admission can be sought by students awaiting final results. Their admission will only be confirmed once they have submitted their complete official Transcript within the due dates.



## Courses for the MPhil Program

### Semester I

- ENVR 502: Water and Wastewater Management (3)
- ENVR 503: Advanced Environmental Analytical Techniques (3)
- ENVR 509: Industrial Ecology (3)
- ENVR 504: Remote Sensing and GIS Applications (3)
- ENVR 507: Strategic Environmental Assessment (3)

### Semester II

- ENVR 506: Climate Change: Adaptation and Mitigation (3)
- ENVR 601: Alternative Energy Sources (3)
- ENVR 602: Cleaner Production and Pollution Control Technologies (4)
- ENVR 604: Eco-Entrepreneurship (1)
- ENVR 605: Research Methods and Scientific Writing (3)

### Semester III

- ENVR 696: Environmental Science Seminar (1)
- ENVR 699: Thesis Research (6)

### Semester IV

- ENVR 699: Thesis Research (6)





## Faculty

Headed by Dr Ishtiaq A Qazi, ex-Associate Dean, Institute of Environmental Sciences and Engineering (IESE), National University of Sciences and Technology (NUST), Islamabad; the Department of Environmental Sciences at FCCU has a well-qualified and highly experienced, local and foreign faculty that enables the students to excel in their studies.

### **Dr Ishtiaq A Qazi**

Professor and Chairperson  
PhD (University of Aston, UK)  
MSc (University of Birmingham, UK)



### **Dr Hamid Saeed**

Professor Emeritus and Registrar  
Meritorious  
PhD (Punjab University, Lahore)



### **Dr Shin-Ho Chung**

Associate Professor  
PhD (University of Seoul, South Korea)  
MS (University of Seoul, South Korea)



### **Dr Derk M Bakker**

Associate Professor  
PhD (University of Queensland, Australia)  
BEng (College of Land and Water  
Management, The Netherlands)



### **Dr Sohaib Aslam**

Assistant Professor  
PhD (AgroParisTech, France)  
MPhil (Aix-Marseille University,  
France)



### **Silvia M Machado**

Lecturer  
PhD (Ongoing) (NOVA University  
of Lisbon, Portugal)  
MPhil (Polytechnic Institute of  
Viana do Castelo, Portugal)



### **Sara Ali**

Lecturer  
PhD (Ongoing) (Punjab  
University, Lahore)  
MPhil (Lahore School of  
Economics, Lahore)



Parents and prospective students are welcome to visit the Admissions Office, Room No 009, Ahmad Saeed Administration Building, Forman Christian College (A Chartered University), Ferozpur Road, Lahore



Tel: (042) 99231581-8 Ext: 566, 377, 317

Email: [admissions@fccollege.edu.pk](mailto:admissions@fccollege.edu.pk)