

School of Environmental Sciences
E-Notification (dated May 5, 2020)

MPhil/PhD Environmental Sciences (Revised Syllabus) w.e.f Monsoon 2020 semester onwards.

The M.Phil./Ph.D. coursework would consist of 3 core courses, 2 optional courses from the respective Area of admission only, and 3 optional courses from any Areas as per the distribution given below. All these courses are of 2 credits each. According to the JNU Ordinance, all the M.Phil./Ph.D. students need to complete 16 credits coursework in first two semesters. Only M.Phil. dissertation of 8 credits is to be carried out in the subsequent two semesters leading to total 24 credits for M.Phil. degree.

Semester wise distribution of the courses is proposed as below-

- The M.Phil./Ph.D. coursework will be of 16 credits to be completed in two semesters.
- It is mandatory and compulsory for all the students to opt 3 core courses (total 6 credits) offered in the I-Semester.
- It is mandatory and compulsory for the Area students to opt 2 Area optional courses (total 4 credits) offered from the respective Area of admission in the I-semester.
- It is mandatory and compulsory for the student to opt rest of the 3 courses (total 6 credits) offered from any Areas in the II-Semester.

M . Phil . /Ph.D. 1 St Semester: 3 Core courses (6 credits) + 2 Area Optional courses (4 credits)

= Total 10 credits. }

16 credits

M.Phil./Ph.D. 2nd Semester: 3 Optional courses (6 credits)

= Total 6 credits.

M.Phil. 3 rd and 4 th Semester: Dissertation (8 credits)

= Total 8 credits.

Semester I			
Core Courses (Mandatory for all): total 6 credits			
Code	Course Nomenclature	Credits	Course In-charge
ES 601R	Research Methodology I* -	2	APD
ES 602R	Research Methodology II* -	2	UCK
ES 603R	Research and Publication Ethics (RPE)*	2	PKJ
Optional Courses: total 4 credits. Choose 2 courses only, from the Area of admission			
Area-I			
	Atmospheric Processes	2	APD
	Statistical Methods	2	KK
	Remote Sensing of Air Quality	2	AKS
	Air Pollution Meteorology	2	RP
Area-II			
	Earth Processes	2	NSS
	Remote Sensing in Geosciences	2	SM
Area-III			
	Sustainable Environmental Management	2	PSK
	Water Pollution Chemistry	2	DM
	Limnology	2	JKT

Area-IV			
	Ecosystem Processes	2	PKJ
	Environmental Toxicology	2	IG
	Advances in molecular biology	2	RM
	Applied Environmental Biotechnology	2	IST
	Environment and Carcinogenesis	2	PR
Semester II			
Optional Courses: total 6 credits. Choose 3 courses from any area			
Area I			
	Climate Dynamics	2	APD
	Urban Climate and Air Quality	2	KK
	Aerosol and Cloud Physics	2	AKM
Area II			
	Cryosphere Studies	2	ALR
	Engineering Geology	2	NJR
	Soil Geochemistry	2	NSS
	Geochemical Cycles	2	AKT
Area III			
	Bio-renewable Resources and Technology	2	DM
	Air Pollution	2	UCK
	Chemical Speciation in Environment	2	SY
Area IV			
	Rehabilitation Ecology	2	KGS
	Host-Pathogen Interaction and Environment	2	KM
	Man and Tropical Forest Ecosystem Function	2	SCG
	Himalayan Ecology	2	PKJ
	Cell and Environment	2	IG
	Environmental Microbial Genomics	2	MD
	Climate Change and Air Pollution Implications on Plant Biodiversity	2	UM
	Radiation and molecular biophysics	2	RM

*Course will be shared by at least two teachers which will be decided by the Area Conveners and Dean. Course code will be carrying usual number followed by `R` suffix.

The evaluation process for each of the course work would be as follows:

10 marks - sessional evaluation (Quiz, Term Paper, Presentation etc.) before the mid-semester examination.

30 marks - mid semester examination

10 marks - sessional evaluation (Quiz, Term Paper, Presentation etc.) after the mid-semester examination.

50 marks - end semester examination

It is recommended that the nature of sessional evaluation before and after the mid-semester examination should be different.



Dean SES
May 5, 2020