

Curriculum

MSc Ecology
(with Specialization in Ecological Informatics)

School of Informatics
Digital University Kerala

July 2021

Semester I

SNo	Course Name	Category	Level	Lecture	Tutorial	Practical	Total Credit	Instructional time /Week (Hrs)	Assessment
1	Digital Access for Community Empowerment	U. Core	200	0	0	0	3	0	
2	Fundamentals of Ecology	P. Core	300	2	1	2	5	7	CE & WE
3	Ecological Statistics: I	P. Core	300	1	2	2	5	7	CE & WE
4	Environmental Data and Information Management	P. Core	300	1	1	1	3	4	CE & WE
5	Introduction to computer programming	P. Core	200	1	1	1	3	4	CE & WE
6	Mathematical Thinking in Ecology	P. Elective	200	1	1	0	2	2	CE,TP&VV
7	Essential Biology	P. Elective	200	1	1	0	2	2	CE,TP&VV
TOTAL				6	5	7	21	24	

Semester II

SNo	Course Name	Category	Level	Lecture	Tutorial	Practical	Total Credit	Instructional time /Week (Hrs)	Assessment
1	Digital Experience Laboratory	U. Core	300	0	0	0	4	0	
2	Population, Community and Ecosystem Ecology (Numerical ecology)	P. Core	300	2	2	1	5	6	CE & WE
3	Spatial Ecology I	P. Core	300	1	2	1	4	5	CE & WE
4	Ecological Statistics: II	P. Core	300	1	2	1	4	6	CE & WE
5	Programming in Python	P. Core	300	1	1	2	4	6	CE & WE
6	Biomimicry and Ecological Engineering	P. Core	300	1	1	0	2	2	CE & WE
TOTAL				6	8	5	23	25	

Summer Term

SNo	Course Name	Category	Level	Lecture	Tutorial	Practical	Total Credit	Instructional time /Week (Hrs)	Assessment
1	Summer Project/Internship	P.Core	300	**	**	**	6	**	**
	TOTAL						6		

Semester III

SNo	Course Name	Category	Level	Lecture	Tutorial	Practical	Total Credit	Instructional time /Week (Hrs)	Assessment
1	Design Thinking and Innovation (DTI)	U. Core	300	0	0	0	3	0	
2	Spatial Ecology II	P. Core	300	1	2	1	4	5	CE &WE
3	Ecological Data Analytics & Modelling	P. Core	300	1	2	2	5	7	CE &WE
5	Seminar /Meta Analysis	P. Core	300	0	1	0	1	1	CE,TP&VV
6	Scientific Communication	P. Core	300	1	1	0	1	2	P&VV
7*	A. Conservation Biology and Informatics B. Ecological Physics	P. Elective	300	1	2	1	4	5	CE,TP&VV
8*	A. Social Ecology B. Environmental Impact Assessment and Risk Assessment	P. Elective	300	1	2	1	4	5	CE &WE
9*	A. Environmental Legislation and Policy B. Environmental, Social and Governance	P. Elective	300	2	2	0	4	4	
10	MOOCS	P. Elective		0	0	0	4	0	
	TOTAL			7	12	5	30	30	

* Student need to opt either A or B

Semester IV

SNo	Course Name	Category	Level	Lecture	Tutorial	Practical	Total Credit	Instructional time /Week (Hrs)	Assessment
	Project	P. Core	400	**	**	**	20	**	P&VV
	TOTAL						20		