

Annexure: I

Faculty of Science
Department of Environmental Science
Ordinance, Curriculum & Syllabus
Master of Science (Environmental Science)
(2020-21)



Shree Guru Gobind Singh Tricentenary
University, Gurugram (Haryana)- 122505, India


Registrar
SGT University
Budhera, Gurugram

M.Sc. (Environmental Science)										
Syllabus (2020-21)										
Programme Structure under Choice Based Credit System (CBCS)										
SEMESTER	COURSE CODE	COURSE NAME	L	T	P	Contact hours/ week	Credits	Max. Marks	Formative Assessment	Summative Assessment
I	Core Course (CC)									
	17090101	Ecology	3	0	0	3	3	100	40	60
	17090102	Water Chemistry and Pollution	3	0	0	3	3	100	40	60
	17090103	Instrumentation and Analytics	3	0	0	3	3	100	40	60
	17090104	Ecology -Lab	0	0	4	4	2	100	60	40
	17090105	Water Chemistry and Pollution- Lab	0	0	4	4	2	100	60	40
	17090106	Instrumentation and Analytics Lab	0	0	4	4	2	100	60	40
	Skill Enhancement Course (SEC-I)									
	17090107	Environmental Legislations and policies	2	0	0	2	2	100	40	60
	Ability Enhancement Compulsory Course (AECC)									
	17090108	Professional Ethics & Human Values	2	0	0	2	2	100	40	60
			13	0	12	25	19	800	380	420
II	Core Course (CC)									
	17090201	Biodiversity and conservation	3	0	0	3	3	100	40	60
	17090202	Environmental Geology and Natural Resources	3	0	0	3	3	100	40	60
	17090203	Atmospheric Chemistry and Pollution	3	0	0	3	3	100	40	60
	17090204	Biodiversity and conservation- Lab	0	0	4	4	2	100	60	40
	17090205	Environmental Geology and Natural Resources- Lab	0	0	4	4	2	100	60	40
	17090206	Atmospheric Chemistry and Pollution Lab	0	0	4	4	2	100	60	40
	Skill Enhancement Courses (SEC-II)									
	17090207	Environmental Toxicology & Health	2	0	0	2	2	100	40	60
	Ability Enhancement Compulsory Courses (AECC)									
	17090208	Research Methodology and Statistics	2	0	0	2	2	100	40	60
Total Credits		Core Courses	13	0	12	25	19	800	380	420
	17090209	Summer Training (4/6 weeks)					4	200	100	100
III	Core Courses									
	17090301	Environmental Modeling & Simulations	3	0	0	3	3	100	40	60
	17090302	Soil Chemistry and Solid waste Management	3	0	0	3	3	100	40	60
	17090303	Fundamentals of Meteorology and Climatology	3	0	0	3	3	100	40	60
	17090304	Environmental Modeling & Simulations- Lab	0	0	4	4	2	100	60	40
	17090305	Soil Chemistry and Solid waste Management- Lab	0	0	4	4	2	100	60	40
	17090306	Fundamentals of Meteorology and Climatology Lab	0	0	4	4	2	100	60	40
	Skill Enhancement Course (SEC-3)									
	17090307	Environmental Impact Assessment and Risk Analysis	2	0	0	2	2	100	40	60
	Open Elective Course (From University Basket)									
	17090308	OEC	3	0	0	3	3	100	40	60
Total Credits			14	0	12	26	20	800	380	420
IV	Research Training (Mandatory) (Common for all the specializations)									
	17090401	Project Work	0	0	20	20	20	400	200	200
		Grand Total	40	0	56	96	82	3000	1440	1560

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***Project Work:** The project work may be carried out at in-house labs or some outside agency having required facilities for the specified work. On successful completion of the project, every candidate has to submit a final dissertation/report to their concerned department.

Semester (Credits)	Core Courses	DSE Courses	SE Courses	AEC Courses	Research Training	Open Elective	Total
I	15	-	2	2	-	-	19
II	15	-	2	2	-	-	19
III	15	-	2	-	-	3	20
IV	-	-	-	-	20	-	20
Total	45	-	6	4	20	3	78
Summer Training (4/6 Weeks) after second semester							04
Online courses from MOOC (Sem - I to Sem - III) Maximum							09
Grand Total							91
Minimum Credits for award of degree							82

Category	Credits	%
Core Course(CC)	45	49%
Discipline Specific Elective Course(DSEC)	-	-
Skill Enhancement Course (SEC)	6	7%
Ability Enhancement Compulsory Course (AECC)	4	4%
Research Training	20	24%
Open Elective	3	3%
Summer Training after second semester	4	4%
Online courses from SWYAM (Sem - I to Sem - III)	9	10%
Total	91	

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