

## M. Sc. Semester I

Course	Course code	Paper title	Exam duration (Hours)	External marks	Internal marks	Total marks	Teaching hours per week	Credit points
Paper-I	ENVCC-101	Cell Biology	2.30	70	30	100	4	4
Paper-II	ENVCC -102	Molecular Biology and Genetics	2.30	70	30	100	4	4
Paper-III	ENVCC -103	Biodiversity and Ecology	2.30	70	30	100	4	4
Paper-IV	ENVCC -104	Fundamentals of Environmental Science	2.30	70	30	100	4	4
Practical Paper-I	ENVPR-101	Cell Biology, Molecular Biology and Genetics	More than 4 hours	75		75	6	3
Practical Paper-II	ENVPR-102	Biodiversity, Ecology and Fundamentals of Environmental Science	More than 4 hours	75		75	6	3
Elective Course	ENVEC-101 <b>OR</b> ENVEC-102 <b>OR</b> ENVEC-103	Wildlife and Conservation Biology - 1  Fisheries and Aquaculture -1  Environmentally Sound Technologies-1	2.00	35	15	50	2	2
Total				465	135	600	30	24



  
 I/c. Registrar  
 Hemchandracharya  
 North Gujarat University  
 PATAN

## M. Sc. Semester II

Course	Course code	Paper title	Exam duration (Hours)	External marks	Internal marks	Total marks	Teaching hours per week	Credit points
Paper-I	ENVCC -201	Biochemistry	2.30	70	30	100	4	4
Paper-II	ENVCC -202	Instrumentation and Analytical Techniques	2.30	70	30	100	4	4
Paper-III	ENVCC -203	Biostatistics and Research Methodology	2.30	70	30	100	4	4
Paper-IV	ENVCC -204	Environmental Chemistry	2.30	70	30	100	4	4
Practical Paper-I	ENVPR-201	Biochemistry, Instrumentation and Analytical Techniques	More than 4 hours	75		75	6	3
Practical Paper-II	ENVPR-202	Biostatistics, Research Methodology and Environmental Chemistry	More than 4 hours	75		75	6	3
Elective Course	ENVEC-201 <b>OR</b> ENVEC-202 <b>OR</b> ENVEC-203	Wildlife and Conservation Biology - 2  Fisheries and Aquaculture -2  Environmentally sound technologies-2	2.00	35	15	50	2	2
Total				465	135	600	30	24



  
 I/c. Registrar  
 Hemchandracharya  
 North Gujarat University  
 PATAN

## PROGRAM : HNGU 2069

### M. Sc. Semester III

Course	Paper code	Paper title	Exam duration (Hours)	External marks	Internal marks	Total marks	Teaching hours per week	Credit points
Paper-I	ENVCC-301	Environmental Health and Disaster Management	2.30	70	30	100	4	4
Paper-II	ENVCC-302	Environmental Monitoring and Management System	2.30	70	30	100	4	4
Paper-III	ENVCC-303	Ecological Assessment Techniques, RS & GIS	2.30	70	30	100	4	4
Paper-IV	ENVCC-304	Environmental Law, Impact Assessment & Audit	2.30	70	30	100	4	4
Practical Paper-I	ENVPR-301	Lab -3 based on 301 and 302	3/4	75		75	6	3
Practical Paper-II	ENVPR-302	Lab -4 based on 303 and 304	3/4	75		75	6	3
Elective Course	ENVEC -301 <b>OR</b> ENVEC -302 <b>OR</b> ENVEC -303	Wildlife and Conservation Biology- 3 Fisheries and Aquaculture -3  Environmentally Sound Technologies-3	2.00	35	15	50	2	2
Total				480	120	600	30	24



  
I/c. Registrar  
Hemchandracharya  
North Gujarat University  
PATAN

**PROGRAM : HNGU 2069**

**M. Sc. Semester IV**

Course	Paper code	Paper title	Exam duration (Hours)	External marks	Internal marks	Total marks	Teaching hours per week	Credit points
Paper-I	ENVCC-401	Environmental Biotechnology	2.30	70	30	100	4	4
Paper-II	ENVCC-402	Industrial safety and Toxicology	2.30	70	30	100	4	4
Paper-III	ENVCC-403	Natural Resource Management	2.30	70	30	100	4	4
Paper-IV	ENVCC-404	Renewable energy and Carbon offset management	2.30	70	30	100	4	4
Practical Paper-I	ENVPR-401	Lab 5- based on 401 and 402	3/4	75		75	6	3
Practical Paper-II	ENVPR-402	Lab 6 based on 403 and 404	3/4	75		75	6	3
Elective Course	ENVEC-401	Wildlife and Conservation Biology - 4	2.00	35	15	50	2	2
	OR ENVEC-402	Fisheries and Aquaculture-4						
	OR ENVEC-403	Environmentally Sound Technologies-4						
Total				480	120	600	30	24

**OR**

Course	Code	Internal evaluation (200 marks)			External evaluation (400 marks)				Total
		Mid-term presentation	Mid-term progress report	Attendance	Thesis	Presentation	Viva-voce	Soft skill paper	
Dissertation	ENV-DI-401	50	100	50	200	50	100	50	600

**\*Mid- term Progress Report:** Mid-term progress report should contain introduction, review of literature, methodology of dissertation work and obtained results till date.



  
**I/c. Registrar**  
**Hemchandracharya**  
**North Gujarat University**  
**PATAN**