



Maulana Azad
NATIONAL INSTITUTE OF TECHNOLOGY, Bhopal-462003
DEPARTMENT OF CIVIL ENGINEERING

M. Tech. in Civil Engineering
With Specialization in: Environmental Engineering (Revised April 2020)

SCHEME OF STUDY

FIRST SEMESTER

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
MTH101 EN	Advanced Mathematics	3	1	-	4
EN102	Physico-Chemical Treatment Processes	3	1	-	4
EN103	Air and Noise Pollution	3	1	-	4
EN104	Biological Treatment Processes	3	1	-	4
	Elective 1(A)	3	1	-	4
	Elective 2(B)	3	1	-	4
EN105	Lab - 1	-	-	2	1
EN106	Seminar - 1	-	-	2	1
EN107	Communication Skills NPTEL/MOOC/Humanities Deptt.	2	-	-	2
Total Hours 30		Total Credits			28
Total Credits (Cumulative) 28					

SECOND SEMESTER

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
EN201	Sustainable Development, Ethics and Global Environmental Issues	3	1	-	4
EN202	Solid Waste Management	3	1	-	4
EN203	Environmental Impact Assessment & Legislation	3	1	-	4
	Elective 3(A)	3	1	-	4
	Elective 4(A)	3	1	-	4
	Elective 5(C)	3	1	-	4
EN204	Lab – 2	-	-	2	1
EN205	Research Methodology, Technical Report and Paper Writing	-	2	-	2
EN206	Seminar – 2	-	-	2	1
Total Hour 30		Total Credits			28
Total Credits (Cumulative) 56					

THIRD SEMESTER

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
EN301	Dissertation Phase - 1	-	-	24	12
Total Hours 24		Total credits			12
Total Credits (Cumulative) 68					

FOURTH SEMESTER

Course No.	Subject	Scheme of studies periods per week			Total Credits
		L	T	P	
EN401	Dissertation Phase - 2	-	-	24	12
Total Hours 24		Total credits			12
Total Credits (Cumulative) 80					

LIST OF ELECTIVES

Group A Program Electives

- EN 501 Environmental Chemistry
- EN 502 Environmental Quality Monitoring
- EN 503 Noise Pollution & Its Control
- EN 504 Environmental Legislation
- EN 505 Principles of Ecology
- EN 506 Environmental Auditing & Management System
- EN 507 Advanced Treatment Methods
- EN 508 Industrial Waste Management
- EN 509 Hazardous Waste Management & Risk Analysis
- EN 510 Global Warming and Climate Change

Group B Department Electives (for other programs of same department only)

- EN 601 Physico-Chemical Treatment Processes
- EN 602 Air and Noise Pollution
- EN 603 Biological Treatment Processes
- EN 604 Environmental Quality Monitoring

Group C Institute Electives (for other departments only)

- EN 701 Sustainable Development, Ethics and Global Environmental Issues
- EN 702 Solid Waste Management
- EN 703 Environmental Impact Assessment & Legislation
- EN 704 Advanced Treatment Methods
- EN 705 Industrial Waste Treatment and Disposal