

## DEPARTMENT OF ENVIRONMENTAL ENGINEERING

### SCHEME OF TEACHING (Academic year 2019 – 20)

#### B.E - (ENVIRONMENTAL ENGINEERING) III SEMESTER

Course Code	Course Title	Contact hours				Credits
		L	T	P	Total Hours	
MA310	Engineering Mathematics-III (Numerical Methods)	4	0	0	4	4
EV310	Elements of Environmental Engineering- Sources and Characterization	3	1	0	4	4
EV320	Environmental Chemistry and its applications	3	1	0	4	4
EV330	Environmental Fluid Mechanics-I	3	1	0	4	4
EV340	Construction Engineering Materials	3	0	0	3	3
EV350	Survey Engineering	3	1	0	4	4
EV36L	Water Quality Analysis Laboratory	-	-	3	3	1.5
EV37L	Surveying practices for Environmental Engineering Applications	-	-	3	3	1.5
<b>Total</b>		<b>19</b>	<b>4</b>	<b>6</b>	<b>29</b>	<b>26</b>

**L: Lecture; T: Tutorial; P: Practical**

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### SCHEME OF TEACHING (Academic year 2019 – 20)

#### IV SEMESTER

Course Code	Course Title	Contact hours				Credits
		L	T	P	Total Hours	
MA410	Engineering Mathematics-IV	4	0	0	4	4
EV410	Environmental Microbiology and Ecology	3	0	0	3	3
EV420	Environmental Fluid Mechanics-II	3	1	0	4	4
EV430	Water Resources Engineering and Management	3	1	0	4	4
EV440	Geology and Geotechnical Engineering	3	0	0	3	3
EV450	Disaster Management	3	0	0	3	3
EV46L	Environmental Microbiology Laboratory	-	-	3	3	1.5
EV47L	Environmental Fluid Mechanics Laboratory	-	-	3	3	1.5
<b>Total</b>		<b>19</b>	<b>2</b>	<b>6</b>	<b>27</b>	<b>24</b>

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### SCHEME OF TEACHING

#### V SEMESTER

Course Code	Course Title	Contact hours				Credits
		L	T	P	Total Hours	
EV510	Water Treatment and Supply Engineering	4	1	0	5	5
EV520	Wastewater Treatment Engineering	4	1	0	5	5
EV530	Municipal and Bio Medical Waste Management	3	1	0	4	4
EV540	Occupational Safety and Health	3	0	0	3	3
EV550	Remote Sensing and GIS in Environmental Engineering	4	0	0	4	4
EV56D	Design and Drawing of Environmental Systems - I	-	-	3	3	1.5
EV57L	Water Treatment Process Laboratory	-	-	3	3	1.5
<b>Total</b>		<b>18</b>	<b>3</b>	<b>6</b>	<b>27</b>	<b>24</b>

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### SCHEME OF TEACHING

#### VI SEMESTER

Course Code	Course Title	Contact hours				Credits
		L	T	P	Total Hours	
EV610	Estimation, Specifications and Financial Aspects.	3	1	-	4	4
EV620	Industrial Wastewater Treatment Technologies	3	0	-	3	3
EV630	Environmental Systems Optimization	3	1	-	4	4
EV640	Environmental Impact Assessment	3	-	-	3	3
EV650	Operation and Maintenance of Environmental Facilities	3	-	-	3	3
EV66X	<b>Elective – I</b>	4	-	-	4	4
EV67D	Design & Drawing of Environmental Systems - II	-	-	3	3	1.5
EV68L	Wastewater Treatment Process Laboratory	-	-	3	3	1.5
FL	German/ French/Japanese	2			2	2
<b>Total</b>		<b>19</b>	<b>2</b>	<b>6</b>	<b>27</b>	<b>26</b>

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#### Elective - I

Sl. No.	Course Code	Course Title
1.	EV 661	Energy and Environment
2.	EV 662	Hazardous Waste Technology
3.	EV 663	Life Cycle Analysis and Environmental Risk Assessment

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### SCHEME OF TEACHING

#### VII SEMESTER

Course Code	Course Title	Contact hours				Credits
		L	T	P	Total Hours	
EV710	Computer Applications in Environmental Engineering	3	1	-	4	4
EV720	Atmospheric Environmental Engineering	3	1	-	4	4
EV73X	<b>Elective – II</b>	4	-	-	4	4
EV74L	Atmospheric and Environmental System Software Laboratory	-	-	3	3	1.5
EV75L	Industry Institute Interaction Programme- Innovative Research	-	-	3	3	1.5
<b>Total</b>		<b>10</b>	<b>2</b>	<b>6</b>	<b>18</b>	<b>15</b>

#### Elective - II

Sl. No.	Course Code	Course Title
1.	EV 731	Application of Statistics in Environmental Engineering
2.	EV 732	Environmental Economics, Legislation and Forensics
3.	EV 733	Reactor Design Technology

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#### VIII SEMESTER

Course Code	Course Title	Contact hours				Credits
		L	T	P	Total Hours	
EV810	Transport and Fate of Environmental Pollutants	3	1	-	4	4
EV820	Management Practices in Environmental Engineering	3	-	-	3	3
EV83X	<b>Elective – III</b>	3	-	-	3	3
EV840	Technical Seminar on Current Environmental Issues	-	-	4	4	2
EV850	Project Work	-	-	16	16	8
<b>Total</b>		<b>9</b>	<b>1</b>	<b>20</b>	<b>30</b>	<b>20</b>

#### Elective - III

Sl. No.	Course Code	Course Title
1.	EV 831	Natural Resources Conservation and Management
2.	EV 832	Climate Change and Emission Trading
3.	EV 833	Instrumentation and Automation in Environmental Engineering