



Department of Chemical Engineering	LP: OE18302 Rev. No: 00 Date: 12.01.2023
B.E/B.Tech/M.E/M.Tech : B.Tech Regulation:2018 PG Specialisation : N/A Sub. Code / Sub. Name : OE18302 INDUSTRIAL POLLUTION PREVENTION Unit : I	

Unit Syllabus

Basics of Jurisprudence-Environmental law relation with other disciplines-Criminal law - Common Law-Relevant sections of the code of civil procedure, criminal procedure code, EPA

Objective: To gain knowledge in pollution prevention and environmental laws & regulations.

Session No *	Topics to be covered	Ref	Teaching Aids
1.	Introduction and Basics of Jurisprudence- focuses on law and its social value.	T1, Ch-0, P – 1	BB, Chalk & PPT
2.	Environmental law relation with other disciplines	R3, Ch-1, P – 23	BB, Chalk & PPT
3.	Criminal law- Most breaches of environmental law are criminal offences.	T1, Ch-0, P – 190	BB, Chalk & PPT
4.	Common Law-Relevant sections of the code of civil procedure	T1, Ch-1, P –105	BB, Chalk & PPT
5.	criminal procedure code- Section 133 of the Code of Criminal Procedure	T1, Ch-0, P –248, Ch-0, P-653	BB, Chalk & PPT
6.	EPA-Clean Air Act, Clean water Act	R1, Ch-0, P –274	BB, Chalk & PPT
7.	Emergency Planning and Community Right-to-Know Act	R1, Ch-1, P –432	BB, Chalk & PPT
8.	Toxic Substances Control Act (TSCA,) Resource Conservation and Recovery Act	T1, Ch-1, P –510	BB, Chalk & PPT
9.	Pollution Prevention Act (PPA) & Review	T1, Ch-1, P 1 –692	BB, Chalk & PPT

Content beyond syllabus covered (if any): -

* Session duration: 50 minutes



Sub. Code / Sub. Name: OE18302 INDUSTRIAL POLLUTION PREVENTION
Unit : II

Unit Syllabus:

Fundamental Rights-Directive principles of state policy-Article 48(A) and 51-A (g) Judicial enforceability Constitution and resources management and pollution control-Indian forest policy (1990) –Indian Environmental policy (1992).

Objective: To impart knowledge of Fundamental Rights-Directive principles of state policy

Session No *	Topics to be covered	Ref	Teaching Aids
10.	Fundamental Rights- provides for prevention, control and abatement of air pollution	T1, Ch-2, P – 244,260	BB, Chalk & PPT
11.	Directive principles of state policy- standard of life and full enjoyment of leisure and social and cultural opportunities	T1, Ch-2, P – 317,399,436	BB, Chalk & PPT
12.	Article 48(A) and 51-A (g) Judicial enforceability	T1, Ch-2, P –267-268 532-535	BB, Chalk & PPT
13.	Constitution and resources management- Legal Framework	T1, Ch-2, P –122-132	BB, Chalk & PPT
14.	pollution control- State Pollution Control Board constituted under Section 4 of the Water (P&CP) Act	T1, Ch-2, P-683-692	BB, Chalk & PPT
15.	-Indian forest policy (1990)- Govt. of India resolution	T1, Ch-2, P-294-305	BB, Chalk & PPT
16.	Indian Environmental policy (1992)- Environment policies of the Government of India includes	T1, Ch-2, P –480	BB, Chalk & PPT
17.	Forest Policy Analysis-social scientific theory for forest policy	T1, Ch-2, P –294-305	BB, Chalk & PPT
18.	Constraints of Government Policy and Act	T1, Ch-2, P –43	BB, Chalk & PPT

Content beyond syllabus covered (if any): -

* Session duration: 50 minutes



Sub. Code / Sub. Name: OE18302 INDUSTRIAL POLLUTION PREVENTION

Unit : III

Unit Syllabus:

Administration regulations-constitution of pollution control Boards Powers, functions, Accounts, Audit etc.-Formal Justice Delivery Mechanism Higher and Lower of judiciary- Constitutional remedies writ jurisdiction Article 32,226,136 special reference to mandamus and certiorari for pollution abatement-Equitable remedies for pollution control.

Objective: To obtain knowledge on environmental law & regulations.

Session No *	Topics to be covered	Ref	Teaching Aids
19.	Administration regulations - constitution of pollution control Boards Powers	T1, Ch-10, P – 291,328-329, 367	BB, Chalk & PPT
20.	Powers of state pollution control board- direction to state boards under section 18 (1) (b).	T1, Ch-10, P – 7-76, 128	BB, Chalk & PPT
21.	Functions of Central Pollution control Board-Technical Assistance and Guidance to state board.	T1, Ch-10, P – 783-785 808,812	BB, Chalk & PPT
22.	Wild life & Biological Diversity Act- India enacted the Biodiversity Act 2002.	T1, Ch-10, P – 328-330, 598-600	BB, Chalk & PPT
23.	Audit- Environmental Audit schemes & Components	T1, Ch-10, P – 274-278	BB, Chalk & PPT
24.	Formal Justice Delivery Mechanism Higher and Lower of judiciary.	T1, Ch-10, P – 153,224-245	BB, Chalk & PPT
25.	Constitutional remedies writ jurisdiction Article 32,226,136	T1, Ch-10, P – 231-235,525	BB, Chalk & PPT
26.	Special reference to mandamus and certiorari for pollution abatement.	T1, Ch-122-126,369	BB, Chalk & PPT
27.	Equitable remedies for pollution control & Case Studies	T1, Ch-145,543	BB, Chalk & PPT

Content beyond syllabus covered (if any): -

* Session duration: 50 minutes



Sub. Code / Sub. Name: OE18302 INDUSTRIAL POLLUTION PREVENTION

Unit : IV

Unit Syllabus:

Administrative regulation under recent legislations in water pollution control, Water (prevention and control of pollution) Act 1974 as Amended by amendment act 1988 Water (prevention and control of pollution) Rules 1975 Water (prevention and pollution) Cess Act 1977 as amended by amendment act 1991. Air (prevention and control of pollution) Act 1981 as amended by Amendment act 1987 and relevant notifications.

Objective: To impart the knowledge on the concepts of recent legislations in water pollution control and air pollution control

Session No *	Topics to be covered	Ref	Teaching Aids
28.	Administrative regulation under recent legislations in water pollution control	T1, Ch-3, P –58-86	BB, Chalk & PPT
29.	Water (prevention and control of pollution) Act 1974.	T1, Ch-3, P – 144,167-241	BB, Chalk & PPT
30.	Pollution control laws in India & punishment on violation of water act.	T1, Ch-3, P –112-122	BB, Chalk & PPT
31.	Water (prevention and control of pollution) Rules 1975 Water (prevention and pollution) Cess Act 1977 as amended by amendment act 1991.	R3, Ch-9, P –197-205	BB, Chalk & PPT
32.	Air (prevention and control of pollution) Act 1981 as amended by Amendment act 1987.	T1, Ch-11, P – 614-624	BB, Chalk & PPT
33.	Environmental Protection Act & Occupational safety and health.	T1, Ch-11, P – 672-682	BB, Chalk & PPT
34.	Relevant Notifications – Standard and Technical measures	T1, Ch-3, P –89	BB, Chalk & PPT
35.	Environmental Policy & legalizations and protection measures	T1, Ch-10, P – 23,39,42	BB, Chalk & PPT
36.	Effective enforcement of Environmental regulations .	T1, Ch-19, P -1-4 ,40,49	BB, Chalk & PPT

Content beyond syllabus covered (if any): -

* Session duration: 50 minutes



Sub. Code / Sub. Name: OE18302 INDUSTRIAL POLLUTION PREVENTION

Unit : V

Unit Syllabus:

Relevant notifications in connection with Hazardous Wastes (Management and handling), Biomedical Wastes (Management and Handling), Noise pollution, Eco labeling, and EIA.

Objective: To emphasize the fundamental knowledge on waste management as well as EIA.

Session No *	Topics to be covered	Ref	Teaching Aids
37.	Hazardous Wastes (Management and handling) – Classification, Handling and control measures.	T1, Ch-2, P –692	BB, Chalk & PPT
38.	Biomedical Wastes (Management and Handling)-Regulatory compliance management of BMW facilities	T1, Ch-5, P-518	BB, Chalk & PPT
39.	Noise pollution – Sources, Control measures and solution	T1, Ch-5, P –764-765, 816-819	BB, Chalk & PPT
40.	Eco labeling- Role of Eco labeling and certifications.	R3, Ch-12, P -503-506	BB, Chalk & PPT
41.	Environmental Legalizations in India, Environmental Precautions and practical implementations	T1, Ch-20, P –58-86	BB, Chalk & PPT
42.	EIA – flow diagram for the EIA processes	T1, Ch-20, P –267	BB, Chalk & PPT
43.	EIA- Data Requirements , EIA in india and Benefits	T1, Ch-20, P –347-352	BB, Chalk & PPT
44.	IEE in the overall EIA process & Project undergoing EIA	R3, Ch-19, P –674-675	BB, Chalk & PPT
45.	ISO 14000 EMS and Review	R3, Ch-19, P –579-604	BB, Chalk & PPT

Content beyond syllabus covered (if any:-

* Session duration: 50 minutes



SRI VENKATESWARA COLLEGE OF ENGINEERING

COURSE DELIVERY PLAN - THEORY

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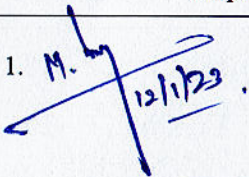
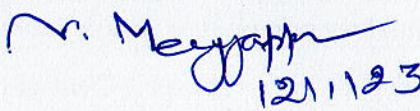
Sub Code / Sub Name: OE18302 Industrial Pollution Prevention

TEXTBOOKS:

1. Tiwari, H.N., Environmental Law, Allahabad Law. Agency 1997..
2. Pandey, J.N., Constitutional Law of India, (31st Edition) Central Law of Agency, Allahabad, 1997.

REFERENCES:

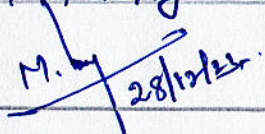
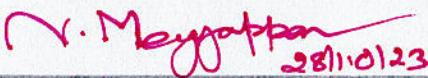
1. Shyam Divan and Armin Roseneranz "Environmental law and policy in India "Oxford University Press, New Delhi, 2001.
2. Constitution of India Eastern Book Company Lucknow Twelfth Edition.1997.
3. Kesari, U.P.D, Administrative Law, Universal Book Trade, Delhi, 1998.

	Prepared by	Approved by
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Designation	Assistant Professor	Professor and Head of the Department
Date	12.01.2023	12.01.2023

Remarks *:

Remarks*

* If the same lesson plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD

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Signature	M.  28/12/23	 28/12/23
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Remarks*		