

INDIAN INSTITUTE OF ECOLOGY AND ENVIRONMENT

New Delhi



e-Prospectus
for Online
Certificate Courses



INDIAN INSTITUTE OF ECOLOGY AND ENVIRONMENT

A 14-15-16, Paryavaran Complex, New Delhi – 110030, India

e-Prospectus for Online Certificate Courses

Duration : 3 Months

Eligibility : There is no eligibility criteria. Anybody with any educational qualification may get admitted with a view to acquiring necessary skills in the environment related fields.

Fee : Rs. 3500 or US \$ 85 only to be transferred electronically in the Institute's Bank Account through RTGS etc. Online money transfer is also possible by using our link for payment through Airpay.

LIST OF CERTIFICATE COURSES

Certificate in Pandemic Disease Mitigation

Certificate in Ecology

Certificate in Environment

Certificate in Environmental Education

Certificate in India's Environment

Certificate in Natural Resources Conservation and Management

Certificate in Environmental Laws

Certificate in Environmental Impact Assessment

Certificate in Pollution Monitoring and Control

Certificate in Environmental Management

Certificate in Environmental Engineering

Certificate in Global Environmental Problems and Solutions

Certificate in Waste Minimisation and Management

Certificate in Environmental Sustainability

Certificate in Emerging Environmental Issues

Certificate in Environmental Future

Certificate in Green Computing

Certificate in Urban Planning and Development

Certificate in Glaciology

Certificate in Renewable Energy

2020

For further details, please visit our Website : ecology.edu

Send your filled up Admission Form with payment details

or ask for any clarification through Email : ecology@ecology.edu

Call on Toll Free Number – 18005714545 for seeking any further details



INTRODUCTORY DETAILS AND ORIGINS OF THE INDIAN INSTITUTE OF ECOLOGY AND ENVIRONMENT, NEW DELHI

The Indian Institute of Ecology and Environment (IIEE), New Delhi is the oldest Institution in the Indian Sub-continent for studies, research, advocacy, publications, consultancy and policy planning in the areas of ecology, environment, disaster management, sustainable development, pollution monitoring and control, natural resources conservation besides rural and urban planning, renewable energy, green business management and development. IIEE was established on the occasion of the World Environment Day on 5th June 1980. The motivation for the establishment of this institution has been based on the issues of environmental education discussed in the deliberations at Founes in 1971 and later at Stockholm in 1972 followed by the workshop on Environmental Education at Belgred in 1975 and also on the resolutions and recommendations of the Intergovernmental Conference on Environment at Tbilisi in 1977 organised by UNEP and UNESCO. The Institute has been organising since its inception different programmes having social, educational, cultural, economic and positive content for the optimum development of a sustainable society. The Institute has provided training to more than fifty thousand persons in the areas of ecology, environment, pollution control, disaster management, sustainable development, ecological tourism and environmental education. Other programmes conducted by the institute include ecological education in more than 1000 schools of Delhi in collaboration with the Government of Delhi and Clean up Delhi Campaign in collaboration with different municipal bodies and more than 3600 environmental NGOs in India, publication of more than 1550 books, occasional monographs and encyclopaedias.

The World Encyclopaedia on different subjects like (1) Ecology and Environment; (2) Disaster Management; (3) Sustainable Development; (4) Green Business Management and Development; (5) Habitat and Population Studies; (6) GIS and Remote Sensing; (7) Environmental Sustainability; (8) Geriatric Care; (9) Interfaith Studies; (10) Peace Studies; (11) Disarmament Studies; (12) Women's Development; (13) Research Methodology; (14) Biotechnology; (15) Nanotechnology; (16) Intellectual Property Rights; (17) Bioinformatics; (18) Cleanliness Hygiene and Sanitation; (19) Real Estate Management and Development; (20) Production and Operations Management; (21) Materials Management; (22) Climate Change Management and Global Warming Reduction; (23) Mass Communication Ethics; (24) Health Care and Hospital Administration; (25) Criminology; (26) Forensic Science; (27) Communication; (28) Institutional Management; (29) Behavioural Sciences; (30) Security Science and Management; (31) Pollution Control; and (32) Great Educational Thinkers published by the institute has been procured by most of the universities and research organisations in India as well as in other countries of the world.

The Institute has been pioneer in organising national and international congresses and conventions on environment. Between 1980 and 2020 more than 850 national and international seminars, symposia, workshops, summits, interaction meets, congresses and conventions have been organised. The Institute has collaborated with many Indian and foreign universities for helping them to design the latest curriculum on environment at Certificate, Diploma, Post Diploma, Post Graduate Diploma, Bachelor's and Master's Degree levels. The Institute has implemented many programmes at the global level for making the world citizenry aware regarding the need to protect our

mother earth. In this connection many workshops have been conducted by the institute in Sri Lanka, Italy, Spain, South Korea, Mongolia, Mauritius, USA, Tunisia, Russia, Poland, Uganda, Zambia, Ethiopia, United Kingdom (UK), Nepal and The Netherlands.

The Institute has conducted more than 3500 researches and consultancy assignments on different environment related topics. The institute has developed its own campus at Paryavaran Complex, New Delhi in the neighbourhood of Saket on Maidangarhi Marg in South Delhi and is equipped with computer centre, library, conference halls, class rooms, guest houses, administrative block and related infrastructure for conducting web-based and online courses.

The idea behind establishing the Indian Institute of Ecology and Environment (IIEE) in selected States of India is to reach the grassroot level with a view to implement the programme of "*CATCH THEM YOUNG*" by 2030 AD by reviving the planet ecologically through environmental policing of the global commons and setting up of a global environmental legislative wing, regeneration for eco-restoration of eco-fragile areas on the verge of irreversible decline, ecotone restoration of river systems as well as biodiversity for managing the third millennium and the twentyfirst century.

SALIENT FEATURES OF THE ONLINE AND OFFLINE TRAINING AND RESEARCH PROGRAMMES IN ENVIRONMENT RELATED SUBJECTS AT THE INDIAN INSTITUTE OF ECOLOGY AND ENVIRONMENT (IIEE)

TRAINING PHILOSOPHY AT THE IIEE, NEW DELHI

Our philosophy is to help the participants to :

- ❖ acquire, retain and be able to use knowledge
- ❖ understand, analyse, synthesize and evaluate
- ❖ achieve skills
- ❖ establish habits
- ❖ develop attitudes

TRAINING APPROACH AT THE IIEE, NEW DELHI

- ❖ talk to students
- ❖ talk with students
- ❖ have them talk together
- ❖ supervise them
- ❖ provide opportunities for practice

ENVIRONMENT AT THE IIEE, NEW DELHI

- ❖ encourages trainees to be active
- ❖ emphasizes the personal nature of learning
- ❖ accepts that difference is desirable



- ❖ recognises student's right to make mistakes
- ❖ tolerates imperfection
- ❖ encourages openness of mind and trust in self
- ❖ makes feel respected and accepted
- ❖ facilitates discovery
- ❖ puts emphasis of self evaluation in cooperation
- ❖ permits confrontation of ideas

LEARNING AT THE IIEE, NEW DELHI

- ❖ is primarily controlled by the learner
- ❖ is unique and individual
- ❖ is effected by the total state of the learner
- ❖ is cooperative and collaborative
- ❖ is a consequence of experience
- ❖ is not directly observable
- ❖ is both an emotional and intellectual process



The details of the 20 Certificate Courses in different areas of Environment and related fields along with the fee and the payment details etc. have been mentioned coursewise besides the curriculum and syllabus to be covered in these Certificate courses.

The study materials are ready and the same will be emailed to the admitted participants along with the assignments to be answered by them for getting the same evaluated by our experts for declaring the results and for issuing the Certificates.

ELIGIBILITY : Any person from anywhere in the world having keen interest in the developmental field are eligible to get admitted.

FEE : Rs. 3500 or US\$ 85 only to be paid on account of admission, registration and evaluation fee.

This amount is to be transferred to our Bank Account having the following details :

Name of the Account : Indian Institute of Ecology and Environment
Bank Name : Indian Bank, Saket Branch, New Delhi, India
Account Number : 441884588
IFS Code : IDIB000S097
PAN : AAATI2925G

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Step by step method of learning at the Indian Institute of Ecology and Environment.

1. Get the Admission Form downloaded and complete the same
2. Email the filled-up Admission Form
3. Pay the Admission Fee by Cheque / Draft / Electronic Transfer
4. Receive the Roll Number and Study Materials
5. Go through the e-book carefully
6. Complete the assignments and send the same to the Institute by Email / Post
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24-Hours Helpline : Toll Free Number - 18005714545

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CERTIFICATE IN PANDEMIC DISEASE MITIGATION

SYLLABUS

- Chapter 1 What is Pandemic ?
- Chapter 2 Pandemic Severity Assessment Framework
- Chapter 3 Mathematical Modelling of Infectious Disease
- Chapter 4 Contact Tracing
- Chapter 5 Disease Surveillance
- Chapter 6 Epidemiology of HIV/AIDS
- Chapter 7 Coronavirus Disease 2019
- Chapter 8 Severe Acute Respiratory Syndrome Coronavirus 2
- Chapter 9 COVID-19 Testing
- Chapter 10 COVID-19 Pandemic
- Chapter 11 COVID-19 Pandemic by Country and Territory
- Chapter 12 COVID-19 Pandemic Cases
- Chapter 13 COVID-19 Pandemic Deaths
- Chapter 14 List of Deaths Due to COVID-19
- Chapter 15 List of Epidemics
- Chapter 16 Columbian Exchange
- Chapter 17 Globalization and Disease
- Chapter 18 Cholera Outbreaks and Pandemics
- Chapter 19 Influenza Pandemic
- Chapter 20 Pandemic Prevention



- Chapter 21 Antimicrobial Resistance
- Chapter 22 Infection Prevention and Control
- Chapter 23 Covid-19 Pandemic in India
- Chapter 24 Timeline of the Covid-19 Pandemic in India
- Chapter 25 Covid-19 Pandemic Lockdown in India
- Chapter 26 Essential Services Maintenance Act
- Chapter 27 Evacuations by India related to the COVID-19 Pandemic
- Chapter 28 Government of India's Response to the COVID-19 Pandemic
- Chapter 29 Economic Impact of the COVID-19 Pandemic in India
- Chapter 30 PM Cares Fund
- Chapter 31 2020 Tablighi Jamaat Coronavirus Hotspot in Delhi
- Chapter 32 COVID-19 Drug Development
- Chapter 33 What is the difference between a Pandemic, an Epidemic, an Endemic, and an Outbreak?



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CERTIFICATE IN ECOLOGY

SYLLABUS

Chapter 1	What is Ecology ?	7
Chapter 2	History of Ecology	39
Chapter 3	Biological Organisation	53
Chapter 4	Taxonomy in the Context of Biology	58
Chapter 5	Biodiversity	69
Chapter 6	Habitat	98
Chapter 7	Ecological Niche	109
Chapter 8	Niche Construction	115
Chapter 9	Ecosystem Engineer	122
Chapter 10	Biome	127
Chapter 11	Biosphere	140
Chapter 12	Earth Science	144
Chapter 13	Life History Theory	151
Chapter 14	Ecophysiology	159
Chapter 15	Metabolic Theory of Ecology	165
Chapter 16	Population Ecology	168
Chapter 17	Organisms by Population	181
Chapter 18	Metapopulation	184
Chapter 19	Animal Migration	188
Chapter 20	Human Migration	194
Chapter 21	Community Ecology	201
Chapter 22	Ecosystem Ecology	204
Chapter 23	Food Web	211
Chapter 24	Food Chain	225
Chapter 25	Trophic Level	228
Chapter 26	Keystone Species	23
Chapter 27	Complexity	240
Chapter 28	Emergence	247
Chapter 29	Holism	263
Chapter 30	Evolutionary Ecology	272
Chapter 31	Behavioural Ecology	274
Chapter 32	Social Ecology	295
Chapter 33	Coevolution	297
Chapter 34	Biogeography	306
Chapter 35	<i>r/K</i> selection Theory	314



Chapter 36	Molecular Ecology	319
Chapter 37	Human Ecology	328
Chapter 38	Restoration Ecology	337
Chapter 39	Natural Resource Management	346
Chapter 40	Natural Environment	356
Chapter 41	Ecological Resilience	374
Chapter 42	Aquatic Ecosystem	381
Chapter 43	Fire Ecology	387
Chapter 44	Soil Ecology	400
Chapter 45	Biogeochemistry	402
Chapter 46	Nutrient Cycle	404
Chapter 47	Climate	414
Chapter 48	Cultural Ecology	424
Chapter 49	Political Ecology	430
Chapter 50	Chemical Ecology	435
Chapter 51	Ecological Psychology	436
Chapter 52	Information Ecology	438
Chapter 53	Digital Ecology	440
Chapter 54	Agroecology	442
Chapter 55	Systems Ecology	453
Chapter 56	Landscape Ecology	457
Chapter 57	Historical Ecology	466
Chapter 58	Microbial Ecology	481
Chapter 59	Paleoecology	484
Chapter 60	Plant Ecology	486
Chapter 61	Benthic Zone	493
Chapter 62	Desert Ecology	496
Chapter 63	Forest Ecology	497
Chapter 64	Marine Ecosystem	501
Chapter 65	Urban Ecology	502
Chapter 66	Arctic Ecology	513
Chapter 67	Polar Ecology	522
Chapter 68	Tropical Ecology	528
Chapter 69	Deep Ecology	531
Chapter 70	Festive Ecology	544
Chapter 71	Industrial Ecology	547



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CERTIFICATE IN ENVIRONMENT

SYLLABUS

Chapter 1	What is Environment ?	7
Chapter 2	Natural Environment	9
Chapter 3	Environmental Epidemiology	29
Chapter 4	Environmental Science	30
Chapter 5	Atmospheric Sciences	35
Chapter 6	Environmental Chemistry	39
Chapter 7	Freshwater Environmental Quality Parameters	42
Chapter 8	Environmental Monitoring	50
Chapter 9	Ecological Sanitation	60
Chapter 10	Environmental Movement	71
Chapter 11	Environmental Impact Statement	87
Chapter 12	Environmental Planning	93
Chapter 13	Environmental Health	108
Chapter 14	Environmental Disease	113
Chapter 15	Environmental Medicine	116
Chapter 16	Environmental Racism	118
Chapter 17	Environmental Psychology	130
Chapter 18	Environmental Art	142
Chapter 19	Environmental Policy	156
Chapter 20	Environmental Governance	160
Chapter 21	Environmental Politics	188
Chapter 22	Environmental Ethics	193
Chapter 23	Green Politics	198
Chapter 24	Environmental Quality	208
Chapter 25	Environmental Law	209
Chapter 26	Social Environment	224
Chapter 27	Environmental Issues in India	226
Chapter 28	Environmental Impact of Irrigation	236
Chapter 29	Environment of India	243
Chapter 30	Environmental Issues	248
Chapter 31	Human impact on the Environment	251



Chapter 32	Human–Wildlife Conflict	268
Chapter 33	Environmental Impact of Agriculture	272
Chapter 34	Environmental Impact of Fishing	277
Chapter 35	Environmental Impact of Meat Production	280
Chapter 36	Social and Environmental Impact of Palm Oil	289
Chapter 37	Environmental Impact of the Energy Industry	298
Chapter 38	Environmental Impact of Biodiesel	306
Chapter 39	Environmental Impact of the Coal Industry	310
Chapter 40	Environmental Impact of Electricity Generation	320
Chapter 41	Environmental Impact of Nuclear Power	334
Chapter 42	Environmental Impact of the Oil Shale Industry	357
Chapter 43	Environmental Impact of the Petroleum Industry	360
Chapter 44	Environmental Impact of Reservoirs	365
Chapter 45	Environmental Impact of Wind Power	370
Chapter 46	Ecological Light Pollution	386
Chapter 47	Environmental Impact of Cleaning Agents	391
Chapter 48	Environmental Impact of Nanotechnology	392
Chapter 49	Environmental Impact of Leather	398
Chapter 50	Environmental Impact of Paint	412
Chapter 51	Environmental Impact of Paper	415
Chapter 52	Environmental Impact of Pesticides	426
Chapter 53	Env. Impact of Pharmaceuticals and Personal Care Products	440
Chapter 54	Environmental Impact of Mining	452
Chapter 55	Environmental Impact of Transport	461
Chapter 56	Environmental Impact of Aviation	467
Chapter 57	Environmental Impact of Roads	481
Chapter 58	Environmental	

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CERTIFICATE IN ENVIRONMENTAL EDUCATION

SYLLABUS

Chapter 1	Environmental Education	7
Chapter 2	Citizen Science	14
Chapter 3	Education for Sustainable Development	31
Chapter 4	Science Education	38
Chapter 5	Outdoor Education	47
Chapter 6	Experiential Education	54
Chapter 7	Garden-based Learning	65
Chapter 8	Inquiry-based Learning	70
Chapter 9	Arts-based Environmental Education	79
Chapter 10	Environmental Adult Education	87
Chapter 11	Environmental Studies	90
Chapter 12	Environmental Ethics	91
Chapter 13	Bioethics	96
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Chapter 20	Environmental Communication	127
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Chapter 25	Environmental Archaeology	140
Chapter 26	Ecophysiology	141
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CERTIFICATE IN INDIA'S ENVIRONMENT

SYLLABUS

Chapter 1	Environment of India	7
Chapter 2	Wildlife of India	13
Chapter 3	Fauna of India	22
Chapter 4	Flora of India	35
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Chapter 6	Indo-Gangetic Plain	150
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Chapter 27	Impact of Climate Change on Mountain Ecosystems of India	299
Chapter 28	'Eco-feminism' and Save the Girl Child Movement in India	304
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Chapter 33	Present <u>Status</u> of Waste Management Practices in India	318
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Chapter 44	Social Forestry in India	398
Chapter 45	Common and Community Forests of India	402
Chapter 46	Conservation Reserves and Community Reserves of India	406
Chapter 47	Private Protected Areas of India	407
Chapter 48	Top 10 Green Cities of India	411
Chapter 49	Impact of Building Regulations on Indian Hill Towns	417
Chapter 50	Eco-cities in India	434
Chapter 51	10 Major Environmental Challenges Faced by India	438
Chapter 52	Ministry of Environment, Forest and Climate Change	441
Chapter 53	Noise Pollution in India	443
Chapter 54	8 Major Environmental Movements in India	448
Chapter 55	Bhopal Disaster	456
Chapter 56	2017 Ennore oil Spill	479
Chapter 57	Indian Vulture Crisis	482
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Chapter 60	Bhitarkanika Mangroves	509
Chapter 61	Indian Birds	511
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CERTIFICATE IN NATURAL RESOURCES CONSERVATION AND MANAGEMENT

SYLLABUS

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CERTIFICATE IN ENVIRONMENTAL LAWS

SYLLABUS

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CERTIFICATE IN ENVIRONMENTAL IMPACT ASSESSMENT

SYLLABUS

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CERTIFICATE IN POLLUTION MONITORING AND CONTROL

SYLLABUS

Chapter 1	What is Pollution ?	7
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CERTIFICATE IN ENVIRONMENTAL MANAGEMENT

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CERTIFICATE IN ENVIRONMENTAL ENGINEERING

SYLLABUS

Chapter 1	What is Environmental Engineering ?	7
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Chapter 38	Environmental Impact of Aviation	354
Chapter 39	Environmental Impact of Concrete	368
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Chapter 47	Vehicle Emissions Control	426
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Chapter 49	Leather Production Processes	445
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Chapter 51	Environmental Impact of Mining	455
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CERTIFICATE IN GLOBAL ENVIRONMENTAL PROBLEMS AND SOLUTIONS

SYLLABUS

Chapter 1	What is Globe ?	7
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Chapter 18	Countries by Carbon Dioxide Emissions	238
Chapter 19	Solar Activity and Climate	242
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Chapter 45	Resource Depletion	488
Chapter 46	Human Extinction	492
Chapter 47	Timeline of the Far Future	499
Chapter 48	Future of Earth	513
Chapter 49	Ultimate Fate of the Universe	529



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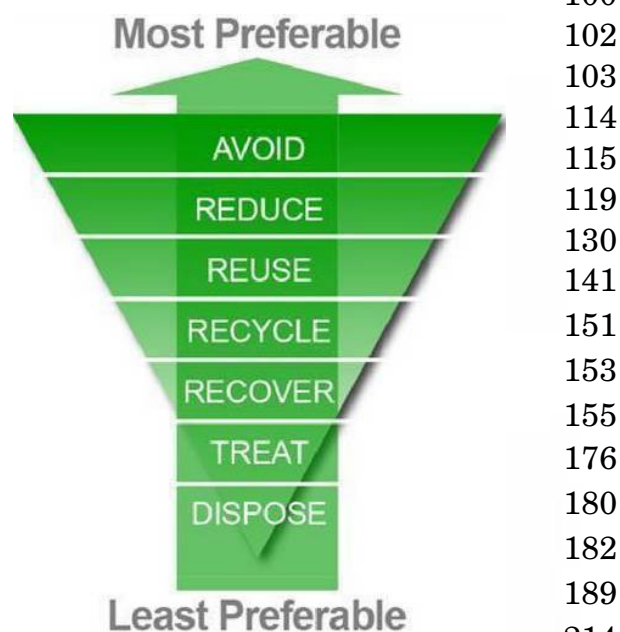
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CERTIFICATE IN WASTE MINIMISATION AND MANAGEMENT

SYLLABUS

Chapter 1	What is Waste ?	7
Chapter 2	Resource Recovery	12
Chapter 3	Food Waste	16
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Chapter 5	Biodegradable Waste	34
Chapter 6	Biomedical Waste	36
Chapter 7	Bulky Waste	42
Chapter 8	Chemical Waste	43
Chapter 9	Coffee Wastewater	49
Chapter 10	Construction Waste	55
Chapter 11	Demolition Waste	57
Chapter 12	Municipal Solid Waste	58
Chapter 13	Electronic Waste	62
Chapter 14	Green Waste	80
Chapter 15	Garden Waste Dumping	81
Chapter 16	Greywater	85
Chapter 17	Hazardous Waste	93
Chapter 18	Household Hazardous Waste	98
Chapter 19	Human Waste	100
Chapter 20	Blackwater Waste	102
Chapter 21	Sewage Sludge	103
Chapter 22	Industrial Waste	114
Chapter 23	Slag	115
Chapter 24	Fly Ash	119
Chapter 25	Litter	130
Chapter 26	Marine Debris	141
Chapter 27	Metabolic Waste	151
Chapter 28	Post-consumer Waste	153
Chapter 29	Radioactive Waste	155
Chapter 30	Low-level Waste	176
Chapter 31	High-level Waste	180
Chapter 32	Spent nuclear Fuel	182
Chapter 33	Recycling of Waste	189
Chapter 34	Sewage	214
Chapter 35	History of Water Supply and Sanitation	219
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Chapter 37	Sharps Waste	236
Chapter 38	Ship Disposal	241
Chapter 40	Toxic Waste	246
Chapter 41	Waste Heat	252
Chapter 42	Wastewater	258
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Chapter 46	Waste Management	279
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Chapter 56	Waste Sorting	366
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Chapter 58	Incineration	372
Chapter 59	Cremation	394
Chapter 60	Waste-to-energy	421
Chapter 61	Landfill Gas Utilization	427
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Chapter 64	Pyrolysis	452
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Chapter 66	Waste Minimisation	466
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Chapter 69	Sustainable Packaging	488
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Chapter 73	The Future of Waste: Five Things to look for by 2025	507
Chapter 74	Waste Characterisation	511
Chapter 75	Waste Management Outlook for India	513
Chapter 76	12 Notable Waste Management Startups in India	515
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Chapter 78	Challenges & Opportunities Associated with Waste Mgt. in India	525
Chapter 79	India's Waste Management Industry	537
Chapter 80	Urban Waste Management	540
Chapter 81	India's Waste Management Challenge	541



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CERTIFICATE IN ENVIRONMENTAL SUSTAINABILITY

SYLLABUS

Chapter 1	What is Sustainability ?	7
Chapter 2	Sustainable Development	36
Chapter 3	History of Sustainability	55
Chapter 4	Sustainability Measurement	60
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Chapter 6	Carrying Capacity	81
Chapter 7	Millennium Ecosystem Assessment	86
Chapter 8	Sustainable Development Goals	88
Chapter 9	Sustainability and Environmental Management	97
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Chapter 19	Environmental Justice	241
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Chapter 25	Sustainable Architecture	304
Chapter 26	Sustainable Art	316
Chapter 27	Sustainable Business	318
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Chapter 30	Sustainable Design	349
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CERTIFICATE IN EMERGING ENVIRONMENTAL ISSUES

SYLLABUS

Chapter 1	Vehicle Emissions Control	7
Chapter 2	Biodegradation	12
Chapter 3	Cadmium Poisoning	18
Chapter 4	Diseases of Affluence	21
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CERTIFICATE IN ENVIRONMENTAL FUTURE

SYLLABUS

Chapter 1	Mother Goddess	7
Chapter 2	Gaia Mythology	23
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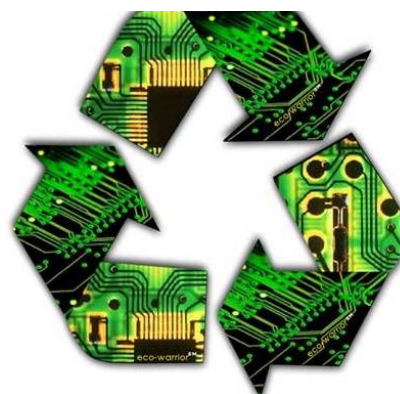
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CERTIFICATE IN GREEN COMPUTING

SYLLABUS

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Chapter 2	Algorithmic Efficiency	18
Chapter 3	Analysis of Algorithms	28
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Chapter 5	Hardware Virtualization	37
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Chapter 50	Serverless Computing	385
Chapter 51	Function as a Service	389
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Chapter 53	Cloud Computing Issues	392
Chapter 54	Cloud Collaboration	402
Chapter 55	Cloud Computing Security	406
Chapter 56	Cloud-Computing Comparison	411
Chapter 57	Cloud Management	415
Chapter 58	Cloud Research	420
Chapter 59	Cloud Robotics	422
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Chapter 61	Cloudlet	434
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Chapter 64	Fog Robotics	445
Chapter 65	Microservices	447
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Chapter 67	Personal Cloud	457
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Chapter 70	Ubiquitous Computing	470
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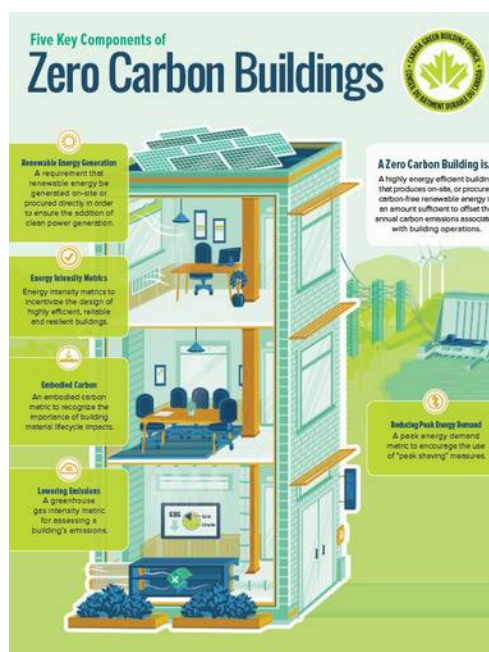
CERTIFICATE IN URBAN PLANNING AND DEVELOPMENT

SYLLABUS

Chapter 1	Urban Planning	7
Chapter 2	History of Urban Planning	42
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Chapter 12	Urban Area	196
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Chapter 26	Industrial Park	393
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