

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)

STUDENT'S ATTENDANCE CHART

Room No. 8 Date 31 March 2017 Session M
 Name of Teacher Ramesh Singh A-2 Class/Classes _____
 Total No. of Students Allotted 40 Present 28 Absent 12
 Roll No. of Absentees 6331703, 56, 77, 11-13, 15-18

Roll No.	Signature	Roll No.	Signature
6331703	A-1	727	Nancy
704	Harsudeep Singh	728	Kajal
705	A-2	729	Kajal Nancy
706	A-3	730	Chahat
707	A-4	731	Minakshi
708	Sanjay Kumar	732	Nancy
709	A-5	733	Harsudeep Kaur
710	Sujan Kumar	734	Jyoti
711	A-6	735	SUKSHI
712	A-7	736	Tannu Verma
713	A-8	737	Kajal Devi
714	Surinder	738	Harit
715	A-9	739	Mahab
716	A-10	740	Ritu
717	A-11	741	Sniwani
718	A-12	742	sa Nisha
719	Neha		
720	Mahak		
721	Swati		
722	Kajal		
723	Abhita Devi		
724	Sandhya Ravi		
725	Shalini		
726	Aanchal		

Signature of Teacher
31/3/2017

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)

STUDENT'S ATTENDANCE CHART

Room No. 05 Date 31-3-2017 Session 2nd 19
 Name of Teacher Prof. Subhinder Singh Class/Classes B.A./B.Sc./B.Ed
 Total No. of Students Allotted 41 Present 28 Absent 13

Roll No.	Signature	Roll No.	Signature
6331581	Mohit Khatwa	6331605	Sahil
6331582	Mejora Singh	6331606	Amit Kumar
6331583	Premal	6331607	X
6331587	Ajay Kumar	6331608	X
6331588	Amit Kumar	6331609	X
6331586	Swati	6331610	X
6331587	Swati	6331611	X
6331588	Swati	6331612	X
6331589	Amit Jashwantrao	6331613	Aman
6331590	Himanshu Sharma	6331614	X
6331591	Swati	6331615	Amit Kumar
6331592	Deepak	6331616	Sandeep Kumar
6331594		6331617	X
6331595	Neeraj	6331618	Karamdar
6331596	Kshatant Singh	6331619	X
6331597	Sandeep Singh	6331620	X
6331598		6331621	Amit Kumar
6331599	VIJAY KUMAR		
6331600			
6331601	Amit Kumar		
6331602			
6331603	Amit Kumar		
6331604			

Signature of Teachers
Sahil

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)

STUDENT'S ATTENDANCE CHART

Room No. 12 Date 31/03/17 Session 2016-17
 Name of Teacher Dr. Mahan Lal Class/Classes B Com Ist
 Total No. of Students Allotted 50 Present 50 Absent 0
 Roll No. of Absentees None

Roll No.	Signature	Roll No.	Signature
6892221	Renu Bala	6892245	Neelam
222	222	246	Shivani
223	Muskan	247	Sandeep Kaur
224	Pallavi	248	Satvinder Kaur
225	Kajal	249	Hastineet
226	Ruchi	250	Surjit
227	Amanjeet Kaur		
228	Deekar Kumar		
229	Manya		
230	Lehita		
231	Hunny		
232	Shiv Kumar		
233	Nitin		
234	Nani		
235	Dilpreet Kaur		
236	Utkal Saini		
237	Neha		
238	Parvdeep Kaur		
239	Mansal Kaur		
240	Ajaya Kumar		
241	Mandeep Kaur		
242	Anju		
243	Komal		
244	Sivangi		

[Signature]
Signature of Teachers

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3/17

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)

STUDENT'S ATTENDANCE CHART

Room No. 14 Date 31-3-2017 Session 2016-17
 Name of Teacher Dr. Vandana Gupta Class/Classes B Com Ist
 Total No. of Students Allotted 36 + 1 = 37 Present 31 Absent 06
 Roll No. of Absentees 6892285, 286, 303, 305, 306, 308

Roll No.	Signature	Roll No.	Signature
6892275	Shivani Kaur	6892300	Shalu
6892276	Muskan	301	Sapna
277	Mulhar	302	Karajit
278	Sneetal	303	ABSENT
280	Pallavi Sharma	304	Hosha
281	SHUBHAM	305	ABSENT
282	Jyoti Kaur	306	ABSENT
283	Gurdeep Singh	307	Moni
284	Paatibha	308	ABSENT
285	ABSENT	309	Anu
286	ABSENT	310	Shriti
287	Sapna	311	SAPNA Anjali
288	Pohit	6892278	Sakshi
289	Kajal		
290	Parvinder		
291	Ramandeep		
292	Mohit		
293	Snehlata		
294	Simran		
295	Lovely		
296	Neetu Devi		
297	Kajal		
298	Sahil - Shams		
299	Jaspreet Singh		

[Signature]
Signature of Teachers

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INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)

STUDENT'S ATTENDANCE CHART

Room No. 10 Date 31/3/17 Session Morning
 Name of Teacher Dr. Yashpal Singh Class/Classes B.A. P. 1st
 Total No. of Students Allotted 40 Present 37 Absent 03
 Roll No. of Absentees 219, 811, 824

Roll No.	Signature	Roll No.	Signature
6331785	SUNAM	6331809	Kavita Devi
786	Ranjit Kaur	810	Absent
787	Barbi	811	Absent
788	Rajni Devi	812	Sonia
789	Kavita Devi	813	Kusum Lata
790	Sukhvinder Kaur	814	Pooja
791	Renu Devi	815	Jyoti
792	Manpreet	816	Flora Devi
793	Neha Rani	817	Pinki Devi
794	Surgeesh	818	Aarti
795	Manjeet Kaur	819	Shweta
796	Jyoti	820	Sushmita
797	Maninder Kaur	821	Sujata
798	Sudesh	822	Sheetal Rani
799	Muskan	823	Seeta Rani
800	Ravinder Kaur	824	Absent
801	Sangeeta		
802	Komal		
803	Pooja		
804	Manjeet Kaur		
805	Naveksha		
806	Deepika		
807	Aarti Devi		
808	Auchana		

Signature of Teachers

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)

STUDENT'S ATTENDANCE CHART

Room No. 7 Date 31-3-2017 Session Morning
 Name of Teacher Dr. Sandeep Bansi Class/Classes B.A. P. 1st
 Total No. of Students Allotted 42 Present 21 Absent 21
 Roll No. of Absentees 6331661, 64, 65, 67, 68, 69, 72, 74, 75, 77, 81, 87, 89, 90

Roll No.	Signature	Roll No.	Signature
6331661	A	6331685	Ankur Sahni
6331662	Simple	6331686	Ankur
6331663	Harman Singh	6331687	A
6331664	A	6331688	Yogesh Kumar
6331665	A	6331689	A
6331666	Shubham	6331690	A
6331667	A	6331691	A
6331668	A	6331692	A
6331669	A	6331693	Sagar
6331670	Vikas Kumar	6331694	A
6331671	Rohit Kumar	6331695	A
6331672	A	6331696	Sagar
6331673	Yashbir	6331697	Rohit
6331674	A	6331698	A
6331675	A	6331699	A
6331676	Divdeep Singh	6331700	A
6331677	A	6331701	Anam Kumar
6331678	Sachin Kumar	6331702	Raman Kumar
6331679	Gaurav Kumar		
6331680	Gourav		
6331681	A		
6331682	Naveed Singh		
6331683	Surjeet Singh		
6331684	Sulbhar		

Signature of Teachers

Dr. Sandeep Bansi
31-3-17

**INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)**

STUDENT'S ATTENDANCE CHART

Room No. 3 Date 31/03/2017 Session Morning
 Name of Teacher P. L. Chugh Class/Classes B.A. Ist
 Total No. of Students Allotted 40 Present 20 Absent 20
 Roll No. of Absentees 6331502, 6331503, 6331504, 6331505, 6331506, 6331507, 6331508, 6331509, 6331510, 6331511, 6331512, 6331513, 6331514, 6331515, 6331516, 6331517, 6331518, 6331519, 6331520, 6331521, 6331522, 6331523

Roll No.	Signature	Roll No.	Signature
6331501	Rahul	6331504	- Ab -
6331502	- Ab -	6331525	- Ab -
6331503	- Ab -	6331526	APRESH
6331504	- Ab -	6331527	Sunny Mandhan
6331505	Rahul	6331528	- Ab -
6331506	- Ab -	6331529	Angkhar
6331507	Shishal	6331530	Rahul
6331508	- Ab -	6331531	- Ab -
6331509	- Ab -	6331532	Soni Kumar
6331510	- Ab -	6331533	Rohit Kumar
6331511	- Ab -	6331534	Rambhar Singh
6331512	Love Kumar	6331535	Amrinder Singh
6331513	Ramas	6331536	- Ab -
6331514	Rajesh Kumar	6331537	- Ab -
6331515	- Ab -	6331538	- Ab -
6331516	- Ab -	6331539	Sahil
6331517	Dinesh	6331540	Keshav Mishra
6331518	- Ab -		
6331519	- Ab -		
6331520	- Ab -		
6331521	Gaurav Kumar	6331521	
6331522	Parvati Kumari		
6331523	Surender Kumar		

Signature of Teachers

**INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)**

STUDENT'S ATTENDANCE CHART

Room No. 11 Date 31/3/17 Session 2016-17
 Name of Teacher Janneet Kaur Class/Classes B. Com I, P. A. I
 Total No. of Students Allotted 31 Present 24 Absent 7
 Roll No. of Absentees 6892203, 6892204, 6892205, 6892206, 6892207, 6892208, 6892209

Roll No.	Signature	Roll No.	Signature
6331825	Usha Rani	6892214	Anu Groel
6331826	Aarti Devi	6892215	Kamal
6331827	Saba Rani	6892216	Rupinder Devi
6331828	Pooja	6892217	Anam
6331829	Amrinder Kaur	6892218	Sonia
6331830	Anju Devi	6892219	Anchal
6331831	- Ab -	6892220	Rajbin
6331832	- Ab -		
6331833	Mandev Singh (0006331833)		
6331834	- Ab -		
6331835	- Ab -		
6892201	Kumari Shi	6892201	
6892202	Pooja Rani	6892202	
6892203	- Ab -		
6892204	- Ab -		
6892205	Simran		
6892206	Kanika Chopra		
6892207	Dilwaz Singh		
6892208	Brince		
6892209	Madana		
6892210	Kajal Rani		
6892211	Harpreet Kaur		
6892212	Shivani		
6892213	Anu		

B.A. I - 6
B. Com I - 18

Signature of Teachers

**INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)**

STUDENT'S ATTENDANCE CHART

Room No. 13 Date 31-3-2017 Session 2016-17
 Name of Teacher Sunita Rani Class/Classes B. Com I
 Total No. of Students Allotted 24 Present 20 Absent 04
 Roll No. of Absentees 6892253, 6892258, 6892260, 6892272

Roll No.	Signature	Roll No.	Signature
6892251 (161053)	Sunita		
6892252 (161054)	Payal		
6892253	ABSENT		
6892254 (161055)	Sanika		
6892255 (161057)	Sanika		
6892256 (161058)	Ajay Kumar		
6892257 (161059)	Abhinav Noel		
6892258	ABSENT		
6892259 (161061)	HARSH GUPTA		
6892260	ABSENT		
6892261 (161063)	Radhika		
6892262 (161064)	Himanshi		
6892263 (161066)	Sagar		
6892264 (161069)	Shahnaaz		
6892265 (161070)	Anamika		
6892266 (161071)	Meena		
6892267 (161072)	Anju		
6892268 (161073)	Yogesh Kumar		
6892269 (161074)	Anu Rani		
6892270 (161075)	Kiran		
6892271 (162102)	Vishal		
6892272	ABSENT		
6892273 (162104)	Vishal		
6892274 (162105)	Payal		

Signature of Teacher

**INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kurukshetra)**

STUDENT'S ATTENDANCE CHART

Room No. 4 Date 31 March Session 2016-2017
 Name of Teacher Miss Geeta Raheja Class/Classes B.A. Ist
 Total No. of Students Allotted 40 Present 16 Absent 24
 Roll No. of Absentees

Roll No.	Signature	Roll No.	Signature
6331541	Manpreet Singh	6331564	- Ab -
6331542	Dilbagh Singh	6331565	Rohit
6331543	Shubham	6331566	- Ab -
6331544	- Ab -	6331567	- Ab -
6331545	- Ab -	6331568	Raksha Sumal
6331546	- Ab -	6331569	Pandeep Singh
6331547	- Ab -	6331570	Ankit
6331548	- Ab -	6331571	- ABSENT - Anagat Singh
6331549	- Ab -	6331572	- Ab -
6331550	Pradeep Singh	6331573	- Ab -
6331551	Kalwinder Singh	6331574	- Ab -
6331552	Mandeep Singh	6331575	Kamal
6331553	- Ab -	6331576	- Ab -
6331554	- Ab -	6331577	- Ab -
6331555	- Ab -	6331578	- Ab -
6331556	- Ab -	6331579	- Ab -
6331557	- Ab -	6331580	- Ab -
6331558	Shubham		
6331559	- Ab -		
6331560	Tanuj		
6331561	Ankit Kumar		
6331562	Rajesh Sharma		
6331563	- Ab -		

Signature of Teacher

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kuruksheetra)

STUDENT'S ATTENDANCE CHART

Room No. 09 Date 31-3-2017 Session M
 Name of Teacher DR. RAJESH KUMAR Class/Classes B.A.I
 Total No. of Students Allotted 40 Present 37 Absent 03
 Roll No. of Absentees 6331765, 769, 775

Roll No.	Signature	Roll No.	Signature
6331743	Minakshi	6331767	Nancy
6331744	Pratibha	6331768	Lonepoleet
6331745	Neeraj	6331769	
6331746	Sirwan, Satal	6331770	Bheeti Devi
6331747	Rajni Devi	6331771	Kavita Devi
6331748	Pooja	6331772	KAJAL
6331749	Neeraj DEVI	6331773	Anju
6331750	Swati	6331774	Raksha
6331751	MANDEEP KAUR	6331775	
6331752	Roshani Devi	6331778	Amandeep
6331753	Monali	6331779	Summit Kaur
6331754	Rohi Devi	6331780	Kavita
6331755	Preety Devi	6331781	Neha
6331756	Bekha Devi	6331782	Naraj
6331757	Babita	6331783	Poojanika
6331758	Anis	6331784	Neeru Devi
6331759	Vanalaxa		
6331760	Bhaski Devi		
6331761	Deepa		
6331762	Poojanika		
6331763	(Shivom)		
6331764	Rima		
6331765			
6331766	Bhoulne		

Signature of Teachers

INDIRA GANDHI NATIONAL COLLEGE
LADWA (Kuruksheetra)

STUDENT'S ATTENDANCE CHART

Room No. 6 Date 31-03-2017 Session M
 Name of Teacher Dr. A.K. Garg Class/Classes B.A. Ist
 Total No. of Students Allotted 40 Present 15 Absent 25
 Roll No. of Absentees 6331622, 22, 27, 28, 29, 30, 31, 33, 35, 36, 37, 39, 40,
42, 43, 44, 45, 49, 50, 51, 52, 53, 54, 55, 58, 59

Roll No.	Signature	Roll No.	Signature
6331621	Sandeep	6331645	
22	(A)	46	Akshay
23	(A)	47	Amit Kumar
24	Ashok	48	Harminder
25	Shivomkaur	49	(A)
26	Gopal	50	(A)
27	(A)	51	(A)
28	(A)	52	Anshul
29	(A)	53	(A)
30	(A)	54	(A)
31	(A)	55	(A)
32	Rohaan Kumar	56	(A)
33	(A)	57	Akhil
34	Poojanika Singh	58	Kuldeep
35	(A)	59	(A)
36	(A)	60	Breini
37	(A)		
38	Gaurav Saini		
39	(A)		
40	(A)		
41	Ankur Kumar		
42	(A)		
43	(A)		
44	(A)		

Signature of Teachers
(Dr. A.K. Garg)

Environment Studies Paper
held on 31-3-17

Detail No. of Papers (answersheet) given as
below

	<u>No. of answersheet</u>
B.A - Ist	204
B.Com - Ist	102
B.Sc. Ist	85
B.A - IInd	41
B.A - IIInd	09
B.Com - IInd	07
B.Com. IIInd	04
B.Sc - IInd	03
B.Sc - IIInd	02
BCA - Ist	05
<hr/>	
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Received copy. Dr. Madhu Gupta
462
Munimul 31/3/17 Dr. Ashok Kumar
E.S.
(P.S.)

BC-207
ENVIRONMENTAL STUDIES (QUALIFYING PAPER)

Total Marks: 100
Time : 3 Hours

The Subject of Environmental Studies is included as a qualifying paper in all UG Courses (including professional courses also) from the session 2004-2005 and the students will be required to qualify the same otherwise the final result will not be declared and degree will not be awarded.

Annual System: The duration of the course will be 50 lectures. The examination will be conducted by the college at its own level earlier than the examination along with the Annual Examination.

Semester System: The Environment Course of 50 lectures will be conducted in the second semester and the examinations shall be conducted at the end of second semester:

Credit System: The core course will be awarded 4 credits.

Exam. Pattern: In case of awarding the marks, the question paper should carry 100 marks. The structure of the question paper being:

PART-A: Short Answer Pattern	25 Marks
PART-B: Essay type with inbuilt choice	50 Marks
PART-C: Field work	25 Marks

INSTRUCTIONS FOR THE EXAMINERS

Part-A: Questions 1 is compulsory and will contain ten short answer type question of 2.5 marks each covering the entire syllabus.

Part-B : Eight essay type questions (With inbuilt choice) will be set from the entire syllabus and the candidates will be required to answer any four of them. Each essay type question will be of 12.5 marks.

The examination will be conducted by the college concerned at its own level earlier than the annual examination and each student will be required to score minimum of 35% marks each in Theory and Practical. The marks obtained in this qualifying paper will not be including in determining the percentage of marks for the award of degree.

However, these will be shown in the detailed marks certificate of the student.

Syllabus and Course of reading

The multidisciplinary nature of environmental studies: Definition, Scope and importance need for public awareness. (2 Lectures)

Natural Resources: Renewable and non-renewable resources:

Natural resources and associated problems.

- a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
- e) Energy resources; Growing energy needs, renewable and non-renewable energy sources, case studies.

f) Land resources: Land as a resources, land degradation man induced landslides, soil erosion and desertification.

- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

(8 Lectures)

Ecosystems

- Concept of an ecosystem
- Structure and function of an ecosystem.
- Producers, Consumers and decomposers.
- Energetical flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids.
- Introduction, types, Characteristic features, structure and function *of* the following *of* the ecosystem.
 - a. Forest ecosystem
 - b. Grassm land ecosystem
 - c. desert ecosystem
 - d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).

(6 lectures).

Biodiversity and its conservation

- Introduction-Definition: genetic, species and ecosystem diversity.
- Bio-geographical classification of India. "
- Value of bioersivity: consumptive use, productive use, social, ethical; aesthetic and option values.
- Biodiversity at global, National and local levels.
- India as a mega-diversity nation.
Hot-sports of biodiversity.
- Threats to biodiversity: habitat loos, poaching *of* wildlife, man-wildlife conflicts. 1
- Endangered and endemics.
- Conservation *of* biodiversity: In-situ and Ex-situ, Conservation of biodiversity.

(8 Lectures)

Environmental Pollution

Definition

- Causes, effects and control measures *of* :-
 - a. Air pollution
 - b. Water pollution
 - c. Soil pollution
 - d. Marine pollution
 - e. Noise pollution
 - f. Thermal pollution
 - g. Nuclear hazards
- Solid Waste Management: Causes, effects and control measures *of* urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Disaster Management: floods, earthquake, cyclone and landslides.

(8 lectures)

Social Issues and the environment

- From Unsustainable to Sustainable development.
- Ur ban problems related to energy.
- Water conservation, rain water harvesting, watershed management.
- Resettlement and rehabilitation of people; its problems and concerns. Case studies.
- Environmental ethics: Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Air (prevention and Control of Pollution) Act.

- Water (prevention and control of pollution) Act.
- Wildlife Protection Act.
- Forest Conservation Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness.

(7 lectures)

Human Population and the Environment

- Population growth, variation among nations.
- . Population explosion- family Welfare Programme.
- Environment and human health.
- Human Rights.
- Value Education.
- HIV/AIDS.
- women and child welfare
- role of information technology in environment and human health
- Case Studies.

(6 lectures)

Field work

- Visit to a local area to document environmental assets: river/forest grass land/ hill/mountain.
 - Visit to a local polluted site-Urban/Rural/Industrial/ Agricultural.
 - Study of common plants, insects, birds.
 - Study of simple ecosystems pond, river, hill slopes, etc.
- (Field work Equal to 5 lecture. hours).

SIX MONTHS COMPULSORY CORE MODULE COURSE IN ENVIRONMENTAL STUDIES: FOR UNDERGRADUATES

Teaching Methodologies

The Core Module Syllabus for Environmental Studies includes class room teaching and Field Work. The syllabus divided into eight units covering 50 lectures. The first seven unit will cover 45 lectures which are class room based to enhance knowledge skills mid attitude to environment. Unit eight is based on field activities which will be covered in five lecture hours and would provide students' firsthand knowledge on various local would environmental aspects.

Field experience is one of the most effective learning to for environmental concerns. This moves out of the scope of text book mode of teaching into realm of real learning in the field where the teacher merely acts as a catalyst to interpret what student observes or discovers in his/her environment.

Fields are as essential as class work and form an irreplaceable synergistic tool in the entire learning process.

Course material provided by UGC for class room teaching and field activities be utilized.

The universities/Colleges can also draw upon expertise of outside resource persons for teaching purposes.

Environmental Core module shall be integrated into the teaching programmes of all undergraduate courses.

REFERENCES

- Agarwal, K.C. Environmental Biology, Nidi Publ. Ltd. Bikaner.
- Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad
- Brunner R.C., Hazardous Waste Incineration, McGraw Hill Inc.
- Clerk R.S., Marine Pollution; Clanderson Press Oxford(1B).
- Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M. T.
- Environmental Encyclopedia, Jaico Publishing House, Mumbai.
- De A.K., Environmental Chemistry, Wiley Esteem Ltd.
- Gleick, H.P. Water in crisis, Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute.
- Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay.
- Heywood, V.H. & Watson, R.T. Global Biodiversity Assessment. Cambridge Univ. Press.

- Jadhav, H & Dosale, V.M., Environmental Protection and Laws. Himalaya Pub. House, Delhi.
- Mhaskar A.K, Matter Hazardous, Techno-Science Publications(TB).
- Rao MN. & Datta, A.K., Waste Water treatment. Oxford & IBH Publ. Co. Pvt. Ltd.
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- Trivedi R.K, Handbook of Environmental Laws, Rules, Guidelines Compliances and Standards, Vol I and II, Envirol Media(R).
- Wagner KD., Environmental Management. W.B. Saunders Co. Philadelphia, USA. (M) Magazine (R) Reference (TB) Textbook.