

**Course: Environmental Management (3+0) September to December 2015**

Department: **Centre for Continuing Education** (<http://cce.iisc.ernet.in>)

**Course URL: <http://wgbis.ces.iisc.ernet.in/em2015>**

**Course Details (Announcement, etc.)**

[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet\\_course\\_2015/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet_course_2015/index.php)

**September – December (E-learning Sessions)**

**Internet Session:** Discussion of 10 chapters through Chat session moderated by respective participants

Dates, time (7.00-8.30 pm, 1900 – 2030 hrs)	Chapters	Moderator I	Moderator II	Moderator III
16 <sup>th</sup> September 2015	1	Anurag Kulshrestha	Vidya Raghavan	Sincy V
17 <sup>th</sup> September 2015	1	Sharavan Kumar S	Illa Santosh Kumar	Sincy V
23 <sup>rd</sup> September 2015	2	Sanjeev Kumar Mishra	Subramaniam Iyer	Asulabha K S
24 <sup>th</sup> September 2015	2	Jagadeesh M.	Sumita Singhal	Asulabha K S
30 <sup>th</sup> September 2015	3	Sejal Sangwal	Asulabha K S	Sincy V
1 <sup>st</sup> October 2015	3&4	Vishwajith M M	Jagadeesh G	Sincy V
2 <sup>nd</sup> October 2015	4	Shesha M	Anandan B	Sincy V
7 <sup>th</sup> October 2015	5	Ajay Kumar	Akshay Hulgol	Asulabha K S
8 <sup>th</sup> October 2015	5	Bijaya B K Sahu	Roopesh Kumara K	Asulabha K S
14 <sup>th</sup> October 2015	6	R Kumar	Roopa Chatra	Sincy V
15 <sup>th</sup> October 2015	6	Srinivasan C	M P Thanigaivelan	Sincy V
21 <sup>st</sup> October 2015	7	Mukesh Kumar	Shasank Burli	Dhamsaniya Ramniklal, Gordhanbhai
22 <sup>nd</sup> October 2015	7	Muhammed Areekat	Dr. Anil Kumar	Asulabha K S
28 <sup>th</sup> October 2015	8	Mahesh G B	Arjun Prasad	Sincy V
29 <sup>th</sup> October 2015	8	Pooja P. Prabhu	Bharath Sharma	Sincy V
4 <sup>th</sup> November 2015	9	Vinoda Kumara	Avinash J N	Asulabha K S
5 <sup>th</sup> November 2015	9	Faisal Mullalaiayam	C J J Daniel	Asulabha K S
11 <sup>th</sup> November 2015	10	Harikrishna B S	Sonal Agarwal	Roopa Chatra
12 <sup>th</sup> November 2015	10	Pulla Teja	Vijayadas S J	Roopa Chatra
26 November 2015	Project progress discussion		Dr. Anil Kumar	Harikrishna B S
16 December 2015	Chapters 1-5		Sonal Agarwal	Subramaniam Iyer
17 December 2015	Chapters 6-10		Harikrishna B S	Sumita Singhal

1. **Assignments:** At the end of each chat session, an assignment would be announced to be submitted as email attachment within a week (From the announcement date) to [ram@ces.iisc.ernet.in](mailto:ram@ces.iisc.ernet.in) (and copies to moderators).
2. **Tests:** Quiz with random questions would be arranged once we complete significant number of chapters (after 4/5 chapters) [TVR and TEAM]
3. **Role of moderators:** Co-ordinate a session, section-wise discussion, ensure fruitful discussion without much deviation,
4. **E-session Evaluation:** Moderators will evaluate each participant's performance (based on activeness, level on interactions, quality of discussions – value additions: 10 per session). This consolidated list to be sent at the end of each chapter (by respective moderators) to [ram@ces.iisc.ernet.in](mailto:ram@ces.iisc.ernet.in); [etutor@ces.iisc.ernet.in](mailto:etutor@ces.iisc.ernet.in); [durgamadhab@ces.iisc.ernet.in](mailto:durgamadhab@ces.iisc.ernet.in), [tara@ces.iisc.ernet.in](mailto:tara@ces.iisc.ernet.in)

## Projects - Last date for submission 5<sup>th</sup> December 2015

Sl.NO	Candidate	Dissertation title
1	Ajay Kumar	Environmental Auditing of an electronic industry
2	Akshay Hulgol	Environmental auditing of coal industry
3	Dr. Anil Kumar	Pedagogy – environmental education (focus on solid waste at TVM) at school levels
4	Anurag Kulshrestha	Bioremediation and prospects of biofuel in Yamuna River
5	Arjun Prasad	Pedagogy – environmental education (Status of water--bodies in Kerala) at school levels
6	Asulabha K S	Bioremediation potential and biofuel prospects of Algae grown in Bangalore wetlands
7	Avinash J N	Scope for reuse and recycle in a engineering industry (construction and mining products)
8	Bharath Sharma	Renewable energy prospects in Rajasthan
9	Bijaya B K Sahu	Environmental auditing of open cast mines in Odisha
10	C J J Daniel	‘VASTU’ concepts in the design of environment friendly building
11	Faisal Mullalaiayam	Optimal municipal wastewater treatment option for Trivandrum
12	Harikrishna B S	Environmentally friendly building material for sustainable design (residential)
13	Illa Santosh Kumar	Alternate energy technologies in rural households (shelter, cooking, water heating, agri products processing)
14	Mahesh G B	Air quality modeling in Baramati
15	Pooja P. Prabhu	Insights to – Environment quality and Farmers suicides in Maharashtra
16	Pulla Teja	Environmental auditing of an electrical industry (infrastructure perspective)
17	R Kumar	Environmental auditing of an electrical industry
18	Roopa Chatra	Spatial Decision support System for water quality monitoring
19	S Lakshminarayanan	Eco-restoration in an electricity manufacturing sector: Current approaches and prospects for improvments
20	Sanjeev Kumar Mishra	Cumulative environmental impact assessment of coal bed projects
21	Sejal Sangwal	Modelling of GHG emission in an Indian city (considerins IPCC guidelines)
22	Shasank Burli	LCA of onshore drilling – oil and Gas apparatus
23	Shesha M	Water quality auditing in Cuddaph, AP
24	Sharavan Kumar S	Resposnible reporting of environmental status
25	Sincy V	Fish diversity in Bangalore wetlands
26	Sonal Agarwal	Auditing and Management of Municipal solid Waste in Jaipur (scope for Biotech interventions)

27	Srinivasan C	LCA of mobile
28	Subramaniam Iyer	Green defence (cantonments)
29	Sumita Singhal	Air quality monitoring and agent based modeling
30	M P Thanigaivelan	LCA of Municipal solid waste – Chennai city
31	Vidya Raghavan	Auditing of Environment Education Module - Green Teacher
32	Vijayadas S J	Carbon footprint in infrastructure sector of Kerala
33	Anandan B	Environment auditing of defence establishments (air operations)
34	Mukesh Kumar	Environment auditing - road development and scope for green technologies and concepts
35	Jagadeesh G	LCA of wireless technologies
36	Vinoda Kumara	Environmental auditing of aviation industry
37	Roopesh Kumara K E	LCA of polymer based products in the aviation sector
38	Jagadeesh M.	EMS of Aviation products
39	Vishwajith M M	Environmental management of hazardous products in aviation sector (at Bangalore)
40	Muhammed Areekat	LCA of rejects from a chemical industry
41	Dhamsaniya Ramniklal, Gordhanbhai	LCA of e –wastes
42	Gopinath	Environmental auditing of Municipal solid waste

## Format for Dissertation

### Format for Dissertation

Title

Author

Summary

Keywords

Introduction

Literature Review

Objectives

Methods

Study Area

Results

Discussion

Scope for further work

Conclusions

Acknowledgement

References

Journal Article:

Author/s, year, Title of the article, Journal title, Vol (Issue), Page no's

Book:

Author/s, year, Title of the book, publisher, place

Vijay Kulakarni and Ramachandra, T.V. 2009, *Environmental Management*, Commonwealth of Learning, Canada and IISc, Printed by TERI Press New Delhi

Note: the report be submitted in e-version as well as one hard copy (no plastics for cover page, etc.)

**Final contact Session –23-28 December 2015**

**Venue: CCE Lecture Hall (next to IISc Students' Hostel office, NEASRA)  
Indian Institute of Science**

**Class Schedule: 9 am to 6 pm (IISc time)**

Dates	
23-24 December 2015	Presentation of 10 chapters by participants
25-26 December 2015	Presentation of Dissertation, Guest lectures
27 December 2015	Final Exam
28 December 2015	Field Visit (will be finalized on 25 <sup>th</sup> Dec)
25 <sup>th</sup> January 2016	Announcement of Results
25 <sup>th</sup> February 2016	Dispatch of graded certificates by CCE office