

Course: **Environmental Management 3+0**

August to December 2011

Co-coordinator: Dr. T. V. Ramachandra
Energy and wetlands Research Group
Center for Ecological Sciences
Indian Institute of Sciences
Bangalore 560012

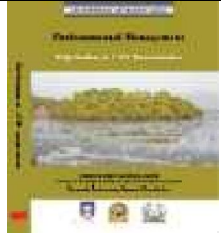
Web: <http://wgbis.ces.iisc.ernet.in/energy>
<http://wgbis.ces.iisc.ernet.in/biodiversity>

Web: <http://cce.iisc.ernet.in>
Email: ram@ces.iisc.ernet.in

Course URL: <http://wgbis.ces.iisc.ernet.in/em2011>

Reference Book:

Vijay Kulkarni and Ramachandra T.V., 2009. Environmental Management, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press, NewDelhi.

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|---|--|
|  | <p>Author: Vijay Kulkarni and T V Ramachandra Year: 2009 Size: 18.4 x 24 cm; 375pp; (Hardbound) Language: English ISBN: 978-81-7993-184-4 Cover price: Rs 550.00 / US \$112.00 Special price: Rs 495.00 / US \$101.00</p> <p>Available on line: http://bookstore.teriin.org/book_inside.php?material_id=557</p> |
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Important Dates

| | |
|-------------------------------------|-----------------------|
| Contact Session Midterm exam | August/September 2011 |
| Internet sessions | October/November 2011 |
| Final Contact session Final Exam | December 2011 |

Course Announcement: <http://wgbis.ces.iisc.ernet.in/energy>

Course Schedule:

**Venue: L 10 Lecture Hall Complex, Centre for Continuing Education
Indian Institute of Science
Registration: August 2011**

Class Schedule: 9 am to 6 pm

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|--------------------------|--|
| August / September 2011 | First contact Session, Mid term Exam |
| October to November 2011 | E-learning: Chat session, E mail, Interaction through discussion via E mail |
| December 2011 | Presentation of 10 units by participants (Dec 2011), Project presentation by participants (Dec 2011), Final Examination (Dec 2011) |

E. Tutors:

| | E Mail | Role |
|------------------------|-------------------------------|-------------------------------|
| | | Internet – chat session, etc. |
| Dr. T. V. Ramachandra | ram@ces.iisc.ernet.in | Co-ordinator |
| Durga Madhab Mahapatra | durgamadhab@ces.iisc.ernet.in | Subject Expert |
| Uttam Kumar | uttam@ces.iisc.ernet.in | Subject Expert |
| Bharath H Aithal | bharath@ces.iisc.ernet.in | Subject Expert |
| Shwetmala | shwetmala@ces.iisc.ernet.in | Subject Expert |
| Harish Bhat | harishrbhat@gmail.com | Subject Expert |
| Vatsala | vatsala@cce.iisc.ernet.in | Administration |
| | office@cce.iisc.ernet.in | |

Internet Course:**Enviroment Management (3:0), Aug - Dec 2011**

Programme Outline

1. **First Contact Session** : Aug - Sept 2011, Topics Covered: All ten chapters, Guest lectures – Urban solid waste management, Processing techniques, aquatic ecosystems monitoring – diatoms, economic valuation, landscape ecology, unplanned urbanization and consequences on the local environment, Mid term exam

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

| Date | Time | Chapters | Moderators | Reporteur |
|------------|--------------|----------|--|-----------|
| 15/09/2011 | 7.00-8.30 pm | 10 | Ashwath Devaray Naik (ashwathnet@gmail.com) Pavan Kumar. B. S (bvsindane@gmail.com) Ajay Kumar (mynameajay@gmail.com) Nittoor Sukeerthi (rao.keerthil@gmail.com) Atul V. Rao (avr.2006@yahoo.com) | |
| 16/09/2011 | | | | |
| 22/09/2011 | 7.00-8.30 pm | 9 | Supraja Irukumati (suprajavenkat@yahoo.com) Itinderjot Singh (itinderjot@gmail.com) Anusha. R. Hedge (hedge.anusha23@gmail.com) Jesiya. N. P (jesynp@gmail.com) Snehal V. Verulkar (snehalverulkar@yahoo.com) | |
| 23/09/2011 | | | | |
| 29/09/2011 | 7.00-8.30 pm | 8 | Amogha Varsha. M (amoghavarsha.murthy@gmail.com) Fazil Aboobacker. P (finufazilkdy@gmail.com) Salil Sharma (salilsharma@indiatimes.com) Shirwadkar Sameeha (sameeha9@gmail.com) Lakshmi. G (melakshmigop@gmail.com) | |
| 30/09/2011 | | | | |
| 06/10/2011 | 7.00-8.30 pm | 7 | Mukesh Goel (goelmukesh0@gmail.com) Raju N (raju.nallabheem@gmail.com) Hemant Raj Patel (hemant4chemical@gmail.com) Vipin Kumar (vipiniitbhu@gmail.com) Subramanian. K (safetysubu@gmail.com) | |
| 07/10/2011 | | | | |
| 13/10/2011 | 7.00-8.30 pm | 6 | Kandasamy. S (kands1964@gmail.com) Unnikrishnan. P. P (unni_krishnanpp@yahoo.co.in) Suman Sourav Mohanty (suman.sourav.mohanty@gmail.com) | |
| 14/10/2011 | | | | |

| | | | | |
|------------|--------------|---------|---|--|
| | | | Sanjay Datta (dattsanjay@gmail.com) | |
| 20/10/2011 | 7.00-8.30 pm | 5 | Niveditha. S. R (niveditha.shastri@gmail.com) | |
| 21/10/2011 | | | Rekha Sandhu (rekhas8521@gmail.com) Devassy Christo (devachristo7@gmail.com) Reshma R. Bhat (rreshmabhat@gmail.com) Vishal Nagula (vishalvsl@gmail.com) | |
| 27/10/2011 | 7.00-9.00 pm | 3 and 4 | Vinay Shivamurthy (vinay86169@gmail.com) Parul Yadav (parulyadav29@gmail.com) | |
| 28/10/2011 | | | Ankita Misra (ankitamisra1987@gmail.com) Suman. P (nilsumanp@yahoo.co.in) Aruna Varshini | |
| 03/11/2011 | 7.00-8.30 pm | 2 | Arjunganasham. C .N (arjunghanasham@gmail.com) Sanitha William (sunil.sanitha@gmail.com) | |
| 04/11/2011 | | | Shweta (shweta.rdange@gmail.com) Ajay Kumar (mynameajay@gmail.com) Mukesh Goel (goelmukesh0@gmail.com) | |
| 10/11/2011 | 7.00-8.30 pm | 1 | Amit S. Khare (amitjikhare@gmail.com) Kavitha Rekha Sandhu (rekhas8521@gmail.com) | |
| 11/11/2011 | | | Itinderjot Singh (itinderjot@gmail.com) Fazil Aboobacker. P (finufazilkdy@gmail.com) | |

3. **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).
4. **Tests:** Quiz with random questions would be arranged once we complete significant number of chapters (after 4/5 chapters)

5. **Projects** (Titles will be finalized during the midterm contact session)

| Candidate | Dissertation title |
|----------------------|--|
| Ajay Kumar | Environment auditing at University campus |
| Amit S Khare | Environment education for busy individuals |
| Amogha Varsha. M | Environment profile of Bellary |
| Ankita Misra | Status of Wetlands in Goa (spatio-temporal, ecology) |
| Anusha. R. Hedge | Environment profile of Plains and Shayadrian - Uttara Kannada |
| Arjunganasham. C .N | Environment profile of Mysore |
| Aruna | Environment profile of Hubli and Dharwad |
| Ashwath Devaray Naik | Village Development index - Uttara Kannada |
| Atul V Rao | Bioremediation |
| Devassy Christo | Municipal Solid Waste Management of Cochin town |
| Fazil Aboobacker. P | Municipal Solid Waste Management - Calicut |
| Gandhare | Environment auditing of Pandharpur |
| Hemant Raj Patel | LCA of Effluent treatment |
| Itinderjot Singh | Environment profile of Ludhiana |
| Jesiya. N. P | Ecosanitation prospects in Kerala |
| Kandasamy. S | Environment auditing of Metro (CMR) - implementation |
| Kavitha | Environment profile of Udupi and SK |
| Lakshmi. G | Environment profile - Cochin |
| Mukesh Goel | Environment auditing of chemical industries in and around Thanjavoor |
| Nittoor Sukeerthi | Environment profile of Hyderabad |
| Niveditha. S. R | Management of biomedical waste |
| Parul Yadav | Environment quality of Koramangala-Belandur valley |
| Pavan Kumar. B. S | Environment profile of Bangalore |
| Priyanka. S | Prospects of Algae (waste water) as biofuel |
| Raju. N | LCA of coal mining |
| Rekha Sandhu | Environment auditing of Solid Waste Management in Delhi |
| Reshma R. Bhat | Environment profile of Coastal UK |
| Salil Sharma | Prospects of low cost waste water treatment in UP |
| Sanitha William | Aviation sector - Environment Management |
| Sanjay Datta | Impact of mining with mitigation and mgmt aspects |
| Shirwadkar Sameeha | Environment Profile - Pune |
| Shweta | Environment profile of Gulbarga |
| Snehal V. Verulkar | Environment profile of Nasik |
| Subramanian. K | Renewable energy prospects in Gujarath |
| Suman Sourav Mohanty | Urbansiation of Kolkatta |
| Suman Sourav Mohanty | Bangalore Ecology |
| Supraja Irukumati | Environment profile of Shimoga |
| Unnikrishnan. P. P | Environment auditing of petroleum development |
| Varshini | Environment profile of Belgaum |

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| Vinay Shivamurthy | Environment profile of Raichur |
| Vipin Kumar | Environment audit of waste |
| Vishal Nagula | Carbon footprint of Delhi (all sectors-ward level) |

Last date for submission 10th Dec 2011

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 - December 2011

Venue: L 10 Lecture Hall Complex, Centre for Continuing Education

Indian Institute of Science

Class Schedule: 9 am to 6 pm

| Dates | |
|--|---|
| 23 rd – 25 th Dec 2011 | Presentation of 10 chapters by participants |
| 26 th – 28 th Dec 2011 | Presentation of Dissertation, Guest lectures |
| 29 th Dec 2011 | Final Exam [1 pm – 4 pm] |
| 25 th Jan 2012 | Announcement of Results |
| 25 th Feb 2012 | Dispatch of graded certificates by CCE office |

Contact person: For certificate, Accommodation (Hoysala House)

Ms.Vatsala (22932247)

vatsala@cce.iisc.ernet.in
office@cce.iisc.ernet.in

Accommodation arrangements: At Hoysala House Phone number 22932535

**Hoysala Guest House - Behind Physics Department, IISc Campus,
Bangalore-12 (Phone 22932535)**

General Info - How to reach IISc

http://www.iisc.ernet.in/content_geninfohowtoreach.html

How to reach IISc from the Airport/Railway station /Majestic?

Bangalore is connected by air, rail and road to all the metropolises and most major cities of the country. Also, one can fly direct to Bangalore from several international airports

IISc is about 35kms from the airport. One could take either a prepaid taxi (currently, costs Rs. 750, and the counter is available near the exit of the Airport Building), or a city taxi (costs about Rs. 500, and a queue for the same is just outside the airport building). The Institute is known as "Tata Institute" to the locals and is just past Mekhri circle and on the way to Yeshwantpura (one must take a right turn at Mekhri circle). [Shuttle bus service](#), operated by Bangalore Metropolitan Transport Corporation (BMTC), runs from the airport to various areas in Bangalore city every 15

minutes. Details of the schedule can be found [here](#). Additional information on the airport can also be found at its official website: (<http://www.bengaluruairport.com/>)

The city railway station is about 7 kms from IISc campus. One will have to get out of the station from platform number ONE and reach the prepaid taxi stand and hire a city taxi (costs about Rs 150). Majestic (7kms from IISc) is the central Bus stand in Bangalore which is just opposite to the City Railway station. If one happens to reach Majestic, Bangalore by bus, reach platform number 22 from where almost all buses come to the Institute.

If one plans to take a bus into town, one will have to move past Malleswaram 18th cross bus stand towards Yeshwantpura in order to reach IISc (also popularly called Tata Institute). There is also a bus stop on the highway between the yellow over bridge and Prof. CNR Rao circle, and another one at Prof. CNR Rao circle (on Sir CV Raman Road). Finally there is a bus stop at Yeshwantpura tollgate, just off campus near R block. Most buses go to one of these places.

>> [Click here](#) to view the route map

Take assistance from [Google map](#)