



**Dr. T. V. Ramachandra**

Energy and Wetlands Research Group, TE 15  
 Center for Ecological Sciences, New Biology Building, Near D Gate  
**Indian Institute of Science**, Bangalore 560012

Web: <http://wgbis.ces.iisc.ernet.in/energy>  
<http://wgbis.ces.iisc.ernet.in/biodiversity>  
 Web: <http://cce.iisc.ernet.in>,  
 Email: [emram.ces@iisc.ac.in](mailto:emram.ces@iisc.ac.in); [tvr@iisc.ac.in](mailto:tvr@iisc.ac.in)  
 Phone: 91-080-22933099/22933503 extn 107

**Course: Environmental Management 3+0**

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

September to December 2022

**Course URL:** <http://wgbis.ces.iisc.ernet.in/em2022> (will be up soon)

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

[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet\\_course\\_2021/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet_course_2021/index.php)

[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet-course-2021/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet-course-2021/index.php)

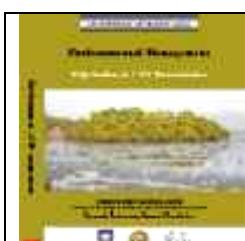
Co-coordinator: Dr. T.V.Ramachandra [[emram.ces@iisc.ernet.in](mailto:emram.ces@iisc.ernet.in)]

Tel: 91-080-2293 3099/2293 3503/23608661

**Reference Book:**

Environmental Management, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press, New Delhi

Please procure the book immediately and go through the first 5 chapters (for presentations and mid term exam)



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

Available on line:

[http://bookstore.teriin.org/book\\_inside.php?material\\_id=557](http://bookstore.teriin.org/book_inside.php?material_id=557)

**Please procure this publication quickly.** The chapters are in self- learning format and go through first five chapters (mid term exam is based on the first five chapters of this book)



Ramachandra T.V., 2006. **Management of Municipal Solid Waste**, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press, New Delhi.

**Important Dates**

Contact Session	3-8 September 2022 (9 am to 6 pm)
Midterm exam	8 <sup>th</sup> Sept 2022 (2-5 pm)
Internet sessions	September and November 2022
Final Contact session**	3-8 December 2022*
Final Exam	8 December 2022 (2 – 5 pm)

\*schedule will be finalized in consultation with all participants (during September 2022 session); \*\*during December (3-8<sup>th</sup>) 2022.

Course Announcement & updates/details:

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

**Course Schedule:**

**Venue:** CCE Seminar Hall (next to NESARA and closer to Hoysala House), Indian Institute of Science

**Registration:** 3<sup>rd</sup> September 2022, 9 am

**Class Schedule:** 9 am to 6 pm (may go beyond depending on the session)

3-8 <sup>th</sup> September 2022 <b>8<sup>th</sup> September 2022</b>	<b>First contact Session,</b> Mid term Exam
October to November 2022	<b>E-learning:</b> Chat session, E mail, Interaction through discussion via E mail
3-8 <sup>th</sup> December 2022*	Final Contact session: Presentation of 10 units by participants (3-8 <sup>th</sup> December 2022) Final Examination (8 <sup>th</sup> December 2022)

\*Schedule will be finalized in consultation with all participants (during September 2022 session).

**E. Tutors:**

	E Mail	Role
<b>Dr. T. V. Ramachandra</b>	emram.ces@courses.iisc.ac.in	Co-ordinator
<b>Asulabha K S</b>	asulabhas@iisc.ac.in	Subject Expert
<b>Bharath H Aithal</b>	bharath@ces.iisc.ernet.in	
<b>Sincy V</b>	sincyv@iisc.ac.in	
<b>Bharath Settur</b>	setturb@iisc.ac.in	
<b>Vinay S</b>	svinay@iisc.ac.in	
<b>Durga Madhab Mahapatra</b>		

**Internet Course:****Environment Management (3:0), Sept - Dec 2022****Programme Outline**

1. **First Contact Session** : First week of September 2022 (3-8<sup>th</sup> Sept 2022), 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 (8 September 2022)  
**PLEASE READ FIRST FIVE CHAPTERS – EXAMINATION WILL BE BASED ON 5 CHAPTERS AND THE SESSION WILL BE INTERACTIVE SESSIONS**

2. **Accommodation:** **All outstation participants will be accommodated at Hoysala House, IISc Campus (in case outstation participants who has not indicated in the application but require accommodation, need to inform us ([emram.ces@courses.iisc.ac.in](mailto:emram.ces@courses.iisc.ac.in))**

**[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet-course-2021/route-CVH-HH-to-CCE-HALL.png](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet-course-2021/route-CVH-HH-to-CCE-HALL.png)**

Please check your accommodation details at

[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet\\_course\\_2021/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet_course_2021/index.php)

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

**Dates will be finalized during the first contact session**

Dates, time (7.30-8.30 pm, 1930 – 2030 hrs)	Chapters	Moderator I	Moderator II

4. **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).
5. **Tests:** Quiz with random questions would be arranged once we complete significant number of chapters (after 4/5 chapters)
6. **Projects** (Titles will be finalized during the midterm contact session)

Candidate	Dissertation title

Last date for submission 10<sup>th</sup> November 2022

## 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 2022**

**Venue: CCE Lecture Hall**

**Indian Institute of Science**

**Class Schedule: 8 30 am to 6 pm (IISc time)**

Dates	
3-4 December 2022	Presentation of 10 chapters by participants
5-7 December 2022	Presentation of Dissertation, Guest lectures
8 December 2022	Final Exam
25 <sup>th</sup> January 2022	Announcement of Results
15 <sup>th</sup> March 2022	Dispatch of graded certificates by our office

**Contact person:** @cce

(22932247/2055)

office.cce@iisc.ac.in

Hoysala Guest House – 22933535

**Hoysala House - Route Map**

Behind Physics Department, IISc Campus, Bangalore-12 (Phone: 080 - 22932535)

**Centenary House - Route Map**

Near Ramaih Hospital, IISc , Bangalore (Phone: 080 22933500 / 22932100)

### **Details for Session**

**Food availability** in the campus; NESARA restaurant or at SARVAM COMPLEX

Mobile IDC Kitchen (7 am to 7 pm) near TATA Book house/IISc Security office  
Administration: CCE Office (opposite to IISc Security office/ ATM's of SBI and Canara Bank)

Breakfast and Dinner are available (on payment) closer to Hoysala House (Nesara/Kabini Restaurant). Those opted for HOYSALA house can go to **NESARA** restaurant (food on payment), which is located within 100 m from the guest house.

Breakfast and Dinner (on request and payment) are available at Centenary Visitors Guesthouse (CVH), where all outstation participants (who have asked for accommodation) have been accommodated. Details at  
[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet-course-2021/route-CVH-HH-to-CCE-HALL.png](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet-course-2021/route-CVH-HH-to-CCE-HALL.png)

### **General Info - How to reach IISc**

<http://wgbis.ces.iisc.ernet.in/energy/lake2010/information.htm>

[http://www.iisc.ernet.in/content\\_geninfohowtoreach.html](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. 900-1200, and the counter is available near the exit of the Airport arrival gate), or a city taxi (costs about Rs. 600, 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](#) <http://earth.google.com>