	<p><b>Dr. T. V. Ramachandra</b>                  Energy and Wetlands Research Group, TE 15                  Center for Ecological Sciences, New Biology Building, Near D Gate  <b>Indian Institute of Science</b>, Bangalore 560012                  Web: <a href="http://wgbis.ces.iisc.ernet.in/energy">http://wgbis.ces.iisc.ernet.in/energy</a>  <a href="http://wgbis.ces.iisc.ernet.in/biodiversity">http://wgbis.ces.iisc.ernet.in/biodiversity</a>                  Web: <a href="http://cce.iisc.ernet.in">http://cce.iisc.ernet.in</a>,                  Email: <a href="mailto:emram.ces@courses.iisc.ac.in">emram.ces@courses.iisc.ac.in</a>; <a href="mailto:tvr@iisc.ac.in">tvr@iisc.ac.in</a>                  Phone: 91-080-22933099/22933503 extn 107</p>
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**Course: Environmental Management 3+0**

Department: **Centre for Continuing Education** (<http://cce.iisc.ernet.in>)  
 September to December 2019

**Course URL: <http://wgbis.ces.iisc.ernet.in/em2019>**

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


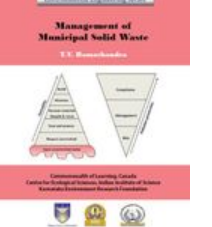
[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet\\_course\\_2019/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet_course_2019/index.php)  
[http://wgbis.ces.iisc.ernet.in/energy/distance\\_education\\_courses/internet-course-2019/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet-course-2019/index.php)

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

Tel: 91-080-2293 3099/2293 3503

**Reference Book:**

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

	<p>Author: <b>Vijay Kulkarni and T V Ramachandra</b>                  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:  <a href="http://bookstore.teriin.org/book_inside.php?material_id=557">http://bookstore.teriin.org/book_inside.php?material_id=557</a>  <b>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)</b>                  Ramachandra T.V., 2006. <b>Management of Municipal Solid Waste</b>, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press, New Delhi.</p>

**Important Dates**

Contact Session	3-8 <sup>th</sup> September 2019 (8 30 am to 6pm)
Midterm exam	8 <sup>th</sup> Sept 2019 (2-5 pm)
Internet sessions	October and November 2019
Final Contact session**	23-28 December 2019*
Final Exam	28 December 2019 (2 – 5 pm)

\*schedule will be finalized in consultation with all participants (during September 2019 session)

\*\*during December (23-28<sup>th</sup>) 2019.

Course Announcement & updates/details:

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

**Course Schedule:**

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

**Registration: 3<sup>rd</sup> September 2019, 8 30 am**

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

3-8 <sup>th</sup> September 2019	<b>First contact Session,</b> Mid term Exam
October to November 2019	<b>E-learning:</b> Chat session, E mail, Interaction through discussion via E mail
December 2019*	Final Contact session: Presentation of 10 units by participants (23-27 <sup>th</sup> December 2019) Final Examination (28 <sup>th</sup> December 2019)

\*Schedule will be finalized in consultation with all participants (during September 2019 session).

**E. Tutors:**

	E Mail	Role
Dr. T. V. Ramachandra	emram.ces@courses.iisc.ac.in	Co-ordinator
Asulabha K S	asulabhas@iisc.ac.in	Subject Expert
Bharath H Aithal	bharath@ces.iisc.ernet.in	Subject Expert
Sincy V	sincyv@iisc.ac.in	Subject Expert
Bharath Settur	setturb@iisc.ac.in	Subject Expert
Vinay S	svinay@iisc.ac.in	Subject Expert
Sudarshan P. Bhat	sudarshanb@iisc.ac.in	Subject Expert
	so.cce@iisc.ac.in	Administration

**Internet Course:**

**Environment Management (3:0), Sept - Dec 2019**

Programme Outline

1. **First Contact Session** : First week of September 2019 (3-8 Sept 2019), 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 2019)

**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 / Centenary Visitors Guest 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-2019/route-CVH-HH-to-CCE-HALL.png](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet-course-2019/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\\_2019/index.php](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet_course_2019/index.php)

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

**Dates will be finalised 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 15<sup>th</sup> November 2019

**Format for Dissertation**

<b>Format for Dissertation</b>
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 2019**

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

**Indian Institute of Science**

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

Dates	
23-25 December 2019	Presentation of 10 chapters by participants
26-27 December 2019	Presentation of Dissertation, Guest lectures
28 December 2019	Final Exam
25 <sup>th</sup> January 2020	Announcement of Results
15 <sup>th</sup> March 2020	Dispatch of graded certificates by CCE office

**Contact person: @cce**

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)**

**Food availability** in the campus; Closer to Hoysala House Hotel/Restaurant – **NESARA Restaurant** (8 am to 9 30pm), Kabini Canteen (8 am to 9 30 pm)  
**Prakruthi Canteen** (7 am to 10 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)

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-2019/route-CVH-HH-to-CCE-HALL.png](http://wgbis.ces.iisc.ernet.in/energy/distance_education_courses/internet-course-2019/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 (BMTTC), 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) <http://earth.google.com>