

## Environmental Management: Course Content

This course provides an overview of the key concepts and principles in environmental management, areas of global and national environmental concern, and strategies and tools for effective environmental management. Attempt to understand the genesis of environmental problems; the concerns that lead to various international and national initiatives to tackle them have been made in this course. Various tools, which can be used to address environmental problems and the role that the professionals can play in managing environment in their respective areas would be discussed.

1. Principles of Environmental Management.
2. Principles of Ecology, Environment & Environmental Management.
3. Municipal Solid Waste Management – Principle and case studies
4. Policies and Legal Aspect of Environmental Management.
5. Overview of Environmental Impact Assessment (EIA); Preparation and Review of Environmental Impact Assessment Report.
6. Environmental Audit.
7. Life Cycle Assessment as EM Tool.
8. Environmental Management Systems Standards: ISO 14000 (EMS).
9. Environmental Design.
10. Environmental Economics.
11. Application of Geoinformatics (Geographic Information System (GIS) and Remote Sensing) in Environmental Management.
12. Carrying capacity assessment

Each of the self-learning format versions of the course complies with high quality standards and includes a tutor's guide. A comprehensive list of references (and suggested reading) is provided at the end of each course to enable the learners to pursue relevant further reading.

The methodology involved through course packaging (i.e., development, design and materials production).

**Procedure to apply:** The application procedure is outlined below.

Course: **Environmental Management**  
Applicants must submit application online at

<http://iisc.online/shortterm/home.html>  
**Last date for submission of application form with course fee: 07 August 2023**  
Successful applicants will be informed (email and online @CCE) by 15<sup>th</sup> August 2023.

Also, Candidate need to submit (i) curriculum vitae along with brief description of current work (if employed) or their area of work / specialization; (ii) an outline of individual project: especially skills likely to gain in the course and how it will be applied in a project that will be helpful in future career. This is to be sent through email to the Course Co-ordinator at [emram.ces@courses.iisc.ac.in](mailto:emram.ces@courses.iisc.ac.in)

**Accommodation:** Limited single room accommodation is available on the campus. The lodging charges will be

CCE- Hoysala House*	Rs. 1500 per day (for Industry participants); Rs 1000 per day (for faculty) & employed fresh graduates Rs 300 per day (for PG students – need to provide document proof)
CVH: Centenary Visitors/Guest House*	Rs 1200 + 12% GST (faculty) Rs 1500 +12% GST (Industry participants)

\*subject to availability of the accommodation.

The participants have to request in advance (while doing online submission) for accommodation (room rent may be paid later). The introductory session of six days is during 01-6<sup>th</sup> September 2023 and Final session of six days will be during December 2023 (01-07 Dec 2023).

## Internet Courses: 2023-24 Course offered [XXI<sup>th</sup> Session]: Environmental Management

Apply online:

<http://iisc.online/shortterm/home.html>  
Last date for submission of Applications: 07-08- 2023

Course Faculty:

**Dr. T. V. Ramachandra**  
Energy & Wetlands Research Group,  
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Indian Institute of Science  
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Indian Institute of Science,  
Bangalore-560012

<http://cce.iisc.ernet.in>

Telephone: 91-080-2292247/2491/2055  
E mail: [office.cce@iisc.ac.in](mailto:office.cce@iisc.ac.in);  
[emram.ces@iisc.ac.in](mailto:emram.ces@iisc.ac.in) [08022933099]

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## Course Schedule

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- Course material (is available in self learning format: <http://wgbis.ces.iisc.ernet.in/energy/books/index.htm>).
- Class room briefing and introductory sessions at the beginning of the courses (5 days: **During 1-6<sup>th</sup> September 2023 @ CCE Lecture Hall**) followed by first term test (covering 5 chapters, on 4<sup>th</sup> Sept 2023, 2-5 PM).
- **October and November 2023:** Interactive session through internet (web and email) for two months. The course will be active only as online study through Internet and interaction with course faculty by chat sessions, Internet discussion forums and e-mail. Participation in online tests and assignments are mandatory.
- **November and December 2023:** Announcement of dissertation and implementation by participations.
- **December 2023:** Final Contact session (01-07 Dec 2023, interactive session, project presentations, guest lectures), Final exam (4<sup>th</sup> Dec 2023 and 7<sup>th</sup> Dec 2023, 2-5 PM).

In all these modes of teaching, structuring of course is done to fuse all the three core components of competency like attitude behaviors, skills and knowledge.

**Assignments:** Assignment submission can be done through email: [emram.ces@iisc.ac.in](mailto:emram.ces@iisc.ac.in), within the specified date.

**Feedback:** Participant who would like to have the feedback from the tutor can pose their queries in the discussion forum or through chat sessions or through e-mail or by post.

**Tutors /Resource Persons:** The tutors will act as catalysts, emphasized on participatory style of learning and providing ample scope for discussions, and the resource persons facilitate the learning process. Successful realization of Competence Based Education heavily depends on the teachers' contribution to the curriculum reform. Teachers involved here have wide scope from the lesson

level to the level of curriculum development, and adapt new role of coach of the students' learning processes. Faculties and course coordinators are from Indian Institute of Science.

**Venue:** The classroom sessions and examinations will be held at CCE Lecture Hall (Next to IISc Students Hostel office), IISc, Bangalore-560012

**Entry Requirements:** In-service professionals (Post-graduates/ graduates with 1 year work experience), fresh graduates, PG course students are eligible for this course. *Participants are expected to take part in all activities that form part of course in addition the participants should work on individual projects. During course, participants should compulsorily attend to interactive chat session, which is considered while grading.* Participants should actively participate in the course for best results. A certificate along with grades will be given to all the successful participants.

**Study schedule:** Course would be completed within 4 months. Candidates are required to spend time in reading and carrying out the assignments. The number of weeks of study for the course, will of course, depend on candidate's chosen rate of study. This allows sufficient time for study, submission and returns of assignments and also provides the opportunity for two courses to be taken parallel with in 4 months.

**Reward of participation:** Candidates will be graded as A+, A, B+, B, C and D according to the performance from Centre for Continuing Education, Indian Institute of Science, Bangalore-560012.

**Levels of Evaluation:** At concept level, after candidates go through each concept, will be evaluated online by randomly displaying multiple-choice questions. Each question carries some weightage of marks. Based on the test performance, system checks the number of correct answers and the performance is evaluated. At course level, after completing all the concepts, candidates are given final exam, which will be held at CCE. Concept level evaluation marks will also be considered for grading. Completion of a project is a partial requirement for the course. Apart from this, candidates will be assessed on the basis of assignment submission, active

participation in chat sessions, contact sessions and quizzes, project report submission and presentation, mid term and final exams scoring. Facility to communicate among participants: Sharing experiences and establishing contacts is an important aspect of learning. Registered participants can contact other participants during contact sessions, in Internet discussion forum and chat sessions and through personal e-mail id, and also a Course e-mail id allotted by the coordinator.

### Course Fee:

Category	Course fee	Accommodation
Participants from industries and independent consultants	Rs.30,000+18% GST	INR 1500 per day at Hoysala
Nominated from academic institutions and government agencies	Rs. 20,000 +18% GST	INR 1000 per day at Hoysala
ISTE Members with work experience of 2 years as teaching faculty and nominated from academic institutions	Rs. 18000+18% GST	INR 1000 per day at Hoysala
PG students– include certificate), <b>unemployed FRESH graduates</b> (graduated after 2020)	Rs. 10000+18% GST	INR300 per day for students at Hoysala

Number of registrants is restricted to 50 students. Admission is based on first come, first serve basis. Along with the application, the course fee has to be paid online.

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### Course registration details, please contact:

Course Co-ordinator  
[COURSE: ENVIRONMENT MANAGEMENT]  
Centre for Continuing Education, Indian Institute of Science Bangalore 560 012, INDIA  
Phone: 91 080 2293 2055/2491/2247, Fax:  
91 080 23600911, E-mail:  
[office.cce@iisc.ac.in](mailto:office.cce@iisc.ac.in), [emram.ces@iisc.ac.in](mailto:emram.ces@iisc.ac.in)

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