

January 16 to 19, 2009

# FINISHING SCHOOL ON ENVIRONMENTAL MANAGEMENT



Environmental Management Centre &  
National Institute of Industrial Engineering  
(NITIE)

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## **Acknowledgement**

The first Finishing School for Environmental Management was fortunate to have the support of Prof S D Awale Director, NITIE.

We would like to extend our heartfelt gratitude towards Dr Anju Singh and Dr Seema Unnikrishnan who acted as Course Coordinators and to Prof. Neelima Naik Group Coordinator, Industrial Safety & Environmental Management (ISEM) for all the support and contributions.

We would like to extend sincere thanks to Dr. Ram Babu, Mr. Debi Goenka, Dr. Ajay Deshpande, Dr. Rakesh Kumar, Dr. L. Ramakrishnan, Dr. Shirish Sangle, Dr. Deepak Kantawala, and Mr. Arvind Sharma who acted as resource persons.

Last but not the least; we record contributions from Mr. Shantanu Roy, Ms. Pratima Raykar, Ms Preeti Agarwal and Ms. Anvita Bisaria of the EMC Team in the conduct of the School.



**Dr Prasad Modak**  
**Principal Mentor and Executive President**  
**Environmental Management Centre**

## 1.0 Background

**The Environmental Management Centre (EMC)** was founded by Dr. Prasad Modak, in 1996. EMC is an Environmental Management consultancy that has positioned itself as a niche player both nationally and internationally. It has a strategic consulting focus in frontier areas, intertwined with training, research and knowledge management (**Visit <http://www.emcentre.com/>**)

**Post Graduate Diploma in Industrial Safety and Environmental Management (PGDISEM)** is a course at **NITIE** aligned to industry's needs. It's a sustainability-focused programme with emphasis on EHS along with Operations and General Management. It equips the students with the necessary expertise to manage industrial safety and environmental problems, thereby effectively paving the way for cleaner and safer industrial practices. (**Visit <http://www.nitie.edu/>** to learn more about NITIE and the PGDISEM)

EMC and Industrial Safety and Environmental Management (ISEM), NITIE jointly cooperated and organized the first Finishing School on Environmental Management.

## 2.0 Concept

**The Finishing School on Environmental Management** was organized from 16<sup>th</sup> January 2009 to 19<sup>th</sup> January 2009 at NITIE campus, Mumbai to provide students/ professionals a connect between "**Theory**" and "**Practice**".

The idea and thought behind conducting this workshop is to provide a rounded exposure to participants by "**updating**" their knowledge and filling up the "**gaps**".

## 3.0 Programme Design and Conduct

The School was designed on a residential format to allow more interaction between participants and resource faculty.

The School was open for both students and professionals. The programme structure was flexible. Out of the four days, the first and last day of the School (viz.16<sup>th</sup> January and 19<sup>th</sup> January) was more interactive and assignment oriented while the other two days (17<sup>th</sup> January and 18<sup>th</sup> January) were

more focused on lecture presentations. The School was structured into two modules viz. Module A (all 4 days i.e. from 16<sup>th</sup> January 2009 to 19<sup>th</sup> January 2009) and Module B (two days i.e. 17<sup>th</sup> January, 2009 and 18<sup>th</sup> January 2009). The fees were charged according to the Module. The participants for Module A were more of students while the Module B was opted by working professionals (refer Annexure 2 for list of participants).

All participants were provided with a Resources CD ROM of well organized electronic resources including the presentations made by the Resource Persons (refer Annexure 4 for list of resources). A Certificate of Attendance was jointly issued by EMC and NITIE to all participants. (refer to Annexure 6)

The School used a blended learning methodology by applying elements such as lectures, case studies, discussion sessions, role playing interactive, audio-visuals etc. (refer Annex I for Programme details).

- **Lecture Presentation:** The lecture topics covered essentials of modern environmental management strategies and tools with case studies. Dr Prasad Modak was the principal mentor and faculty. In addition there were faculty and resource persons from NITIE, EMC, business organizations, financing institutions and regulators (refer Annexure 3 for list of resource Faculty)



**Dr. Amitabh De inaugurating Finishing School**



**Ms. Pratima Raykar presenting on GIS/RS**



**Dr. Rakesh Kumar presenting on Environmental Monitoring    Dr. Prasad Modak presenting on EIA**

- **Assignments and case studies:** The participants went through various exercises and case studies. Module A participants were divided into groups and given various assignments which included making PowerPoint presentations, discussion on a court case, and using Internet effectively. (refer Annexure 5)



**Participants doing Group assignment on a Supreme Court Case**

- **Role Playing session:** A role playing game is a training session where a scenario is set and participants are assigned different roles. The play gives the training participants opportunities to act out various roles chosen to represent actual roles that would be in the field situation.

For the session on New Models for Environmental Governance, **Pune city's Air Quality Action Plan** was the focus of Role Playing. The participants were divided into three groups to play any one role – Government / Business / Community and the participants were asked to present their findings.



**Participants preparing for role playing session on Pune's Air Quality Management**

At the end of the Role Playing session, Excel based model **SimAIR** was demonstrated as a decision support system.



**Dr. Modak explaining the SimAIR Model to Participants**

- **Audio visuals:** On 17<sup>th</sup> January 2009, participants were shown the film “**An Inconvenient Truth**” directed by Davis Guggenheim. This film eloquently weaves the science of global warming with Mr. Gore's personal history and lifelong commitment to reversing the effects of global climate change. An Inconvenient Truth is not a story of despair but rather a rallying cry to protect the one earth we all share.
- **Environmental Quiz:** An Environmental Quiz was organized by students of Post Graduate Diploma in Industrial Management, NITIE on **17<sup>th</sup> January 2009**. The participants were

divided into three groups. The Quiz consisted of 5 rounds which included objective questions, Audio visuals etc.

- **Nature Walk:** On 18<sup>th</sup> January 2009 Nature walk was organized from 6:30 AM to 9:00 AM by **Bombay Natural History Society** in around NITIE campus and Vihar Lake. Participants were guided by BNHS members and shown flora and fauna of the area.



**Participants enjoying the scenic beauty of Vihar Lake and NITIE campus during their Nature Walk**

- **Career planning:** There was a session on the last day i.e. 19<sup>th</sup> January 2009 dedicated to career planning – both in research as well as in the professional practice. Dr. Deepak Kantawala was the speaker moderator for this session. Participants also met young professionals, some of the alumni of PGDISEM, who shared their inspirational story with them.



## Beyond the Finishing School

- All participants to the Finishing School were registered at EMC's e-learning portal <http://www.ekonnnect.net/>. On this website, Dr Modak and faculty at the Finishing School will continue to serve as mentors for a period of one month and extend the Finishing School on a virtual basis.(refer Annexure 7). Here all participants get benefit of the job-provider feature of [ekonnnect.net](http://www.ekonnnect.net/) as well as that of networking for this period.

## 4.0 Profile of Participants

In all, 41 participants registered at the School covering both Modules A and B.

The participants represented an excellent mix of key stakeholders including postgraduate students & research fellows from academic and research organizations.

These represented Indian Institute of Technology Bombay, Indian Institute of Technology, Chennai, National Environmental Engineering Research Institute, NITIE, TERI University, Pune University etc. There were participants from government and regulatory bodies such as Maharashtra Pollution Control Board, Municipal Corporation of Greater Mumbai, Maharashtra Jeevan Pradhikaran etc.

From the business and financing institutions, representatives from various corporates like IL&FS Ltd, Crystal Indl. Syndicate P. Ltd. and Asian Paints were also present (refer Annexure 2 for the participants list). Figure 1 gives the participants profile.

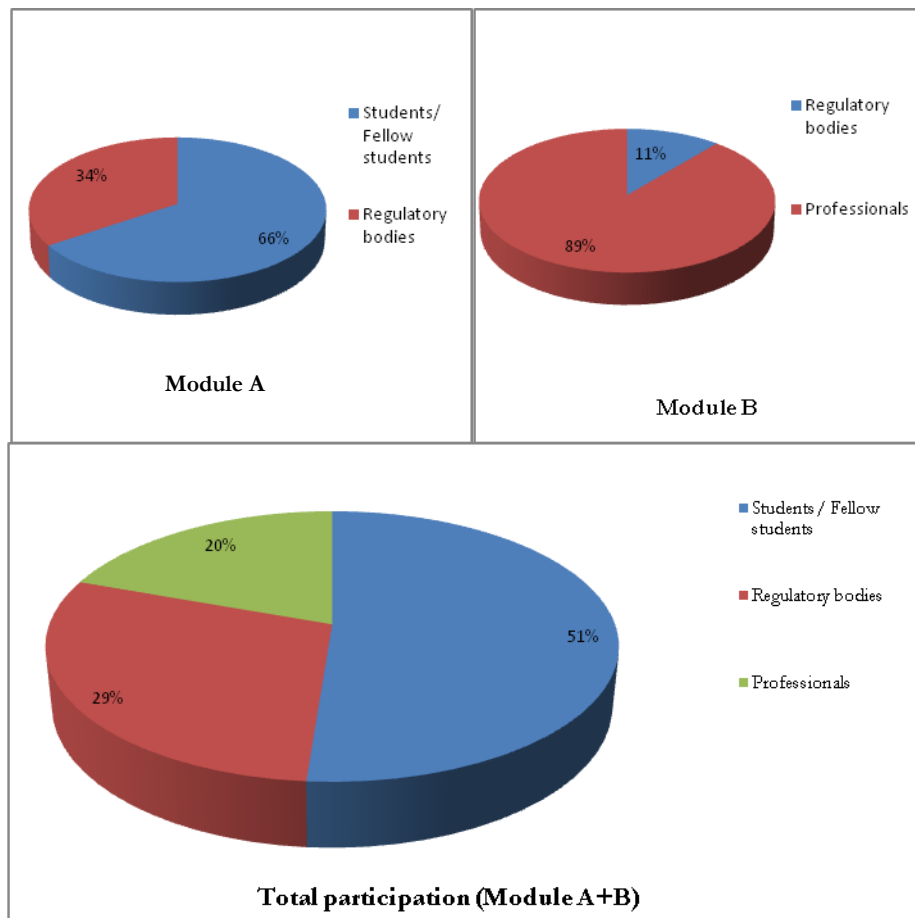
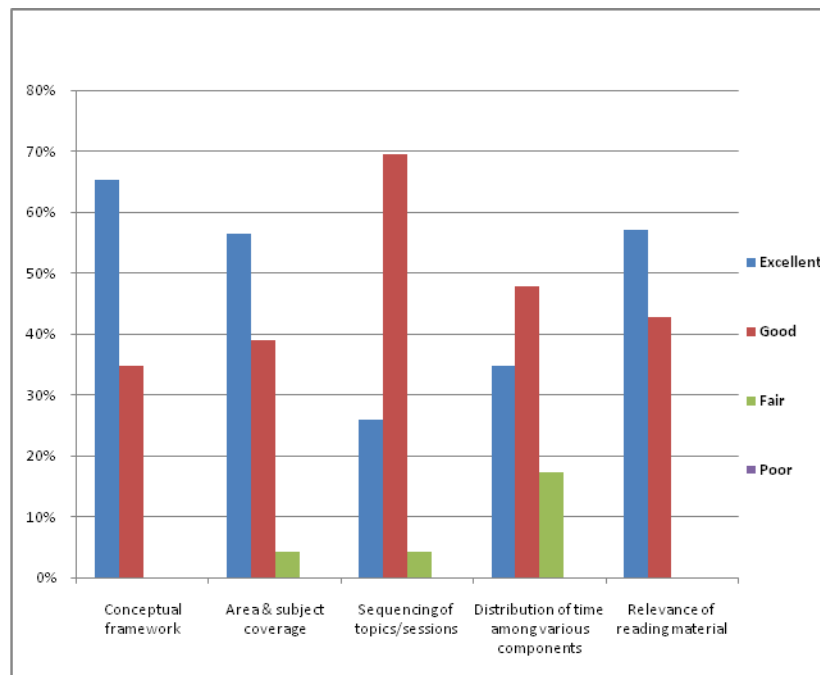


Figure 1: Participant Profile

## 5.0 Programme Evaluation

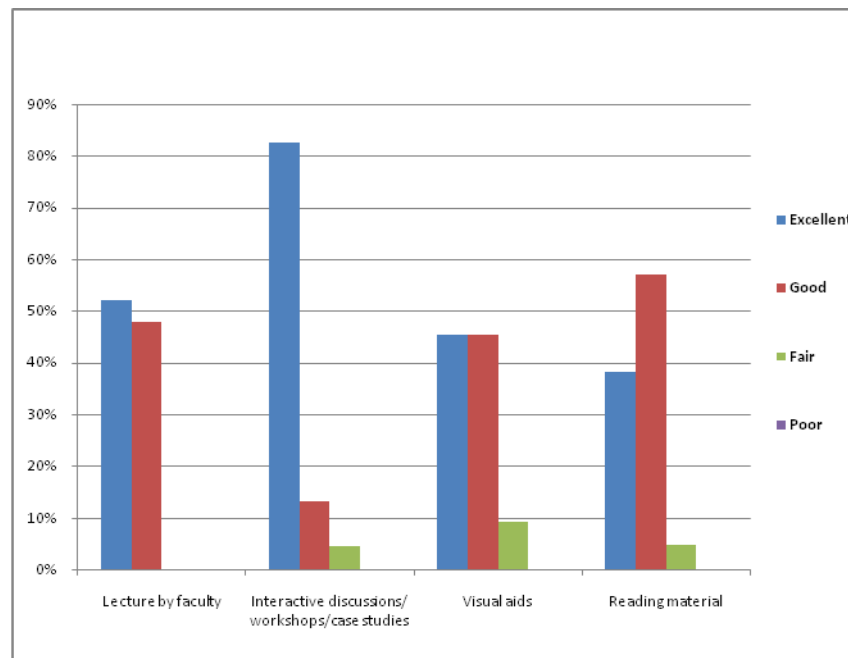
Evaluation forms were provided to each of the participant. The evaluation form consisted of six questions. Responses were rated on a scale of 1 to 4, with 4 being the highest rating. A brief analysis was done using the response from the participants. In addition, feedback was obtained through one to one discussions. The analysis of the same is shown below based on 23 respondents.



**Figure 2: Comments on the Overall Design of the Course**

Figure 2 shows that on an average, more than 50% participants found the design of course good for various criteria and indicators. None of the participant found the course design poor and very few (15% on average) rated the design as fair on indicators such as subject coverage, sequencing of topics and time distribution.

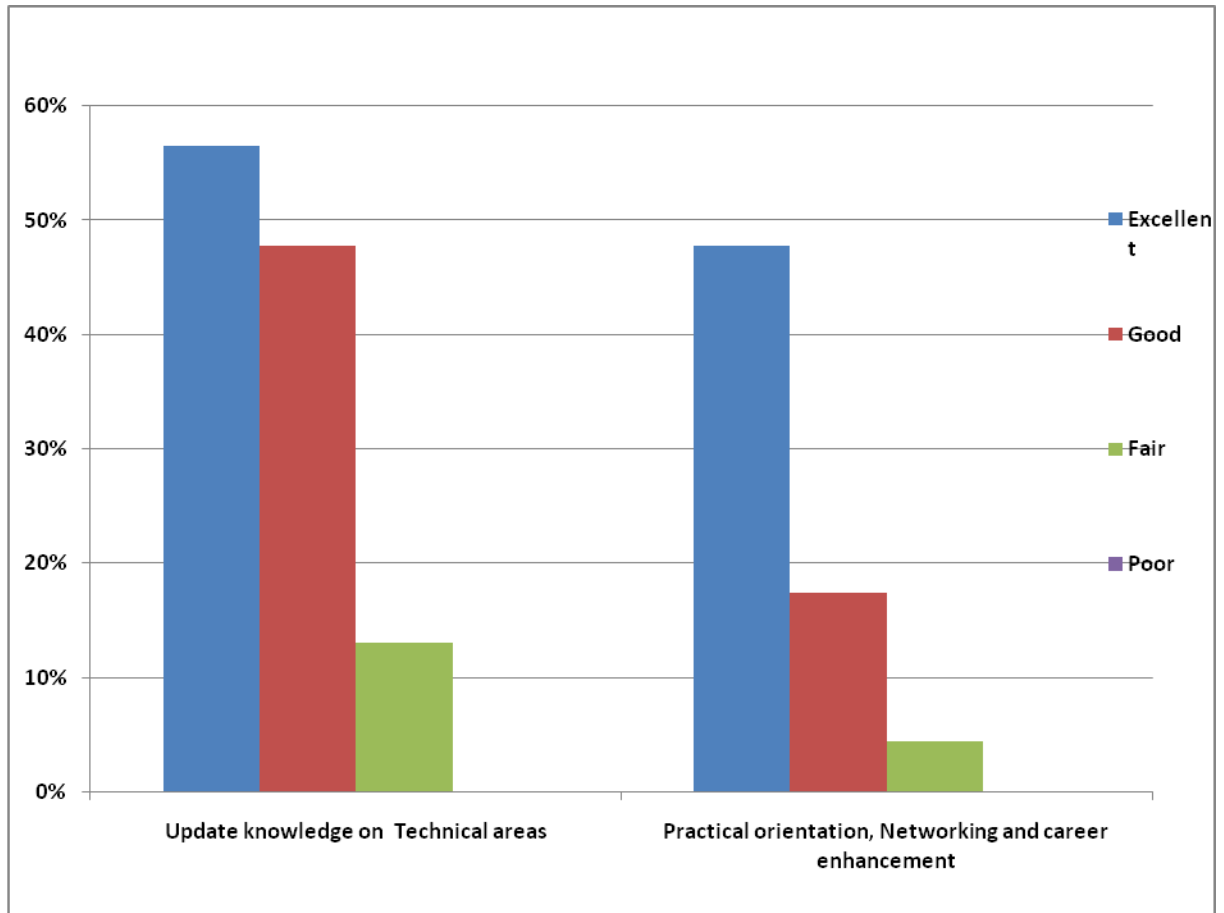
The School used blended learning technology and various pedagogical methods. Participants were asked about the effectiveness of these methods which is shown in the **Figure 3**.



**Figure 3: Effectiveness of Pedagogical Methods**

**Figure 3** shows that interactive discussions/ workshops/ case studies were really successful among participants. More than 80% of the participants found this tool to be most effective.

Participants attended the School with various objectives in mind. Hence the participants were asked to list down their objectives and rate accomplishment of the same by rating. The objectives varied from acquiring technical knowledge to networking and from professional exposure to career enhancement. **Figure 5** presents the results.



**Figure 5: Level of Achievement**

As **Figure 5** shows, then School fairly succeeded in meeting the diverse objectives and expectations of the participants.

## 6.0 Findings and Recommendations

The participants made various suggestions towards improvement in the future design and conduct of the School. Some of the comments are reproduced below

*Include topics like*

*Interpretation of data, bio-medical waste management and disaster management, environment design (Green building etc) and a session on Environment economics*

*Allot more time to topic like EMS*

*More (more) practical exposure will be useful. Share live experiences than technical talks including hurdles faced while enforcing a regulation.*

*Include more discussions and activities.*

Based on the evaluation of feedback forms and one to one discussions, following recommendations are considered

- **Topics:** It was found that participants wanted more time for topics like EMS and CDM. So in the future design of the School, more time needs to be allotted for such topics.
- **More Interactive sessions:** More interactive sessions will be included in the design.
- **More emphasis on practical approach and experience sharing:** Focus of the School will have to be more practical than technical. The lecture presentations should emphasize more on actual experiences of implementing modern tools of environmental management
- **Thematic consideration:** To optimize time and achieve better focus, the School may be run on a thematic e.g. Finishing School on *Industrial* Environmental Management, or Finishing School on *Urban* Environmental Management

## 7.0 Next steps

Considering the success of the Finishing School and based on discussions with the participants, EMC proposes following

- Organize more of such Finishing Schools on adaptation and in participation with Academic Institutions all over India as well as in the Region.
- Promote and Publicize Finishing School for a wider outreach.
- Look for sponsorship, which will help in reducing the cost per participant.
- Develop a publication at the mid of the series to serve as a Resource Manual for participants.

## Annexure 1

### Programme of the Finishing School on Environmental Management

January 16, 2009 to January 19, 2009

Session	Time	Detail
<b>Day 1 January 16, 2009</b>		
Opening session	9 00 to 10 30	<p><b>Registration</b> of Module A Participants</p> <p><b>Welcome:</b> Dr. Amitabh De, Dean (Research), NITIE</p> <p><b>Opening Address:</b> Mr. Ajit Saraf, Regional Officer (Coordination), MPCB on behalf of the Member Secretary</p> <p><b>Introduction to the Programme:</b> Dr Prasad Modak, Executive President, EMC</p> <p>Participant Introduction and Expectations from the School</p>
I	10 45 to 11 45	<p><b>India's Environmental Issues and Challenges – A Country Environmental Analysis</b></p> <p style="text-align: right;">Dr. Prasad Modak</p> <p><b>Illustration: Degradation and Depletion of Coal as a natural resource</b></p> <p style="text-align: right;">Interjector: Mr. Shantanu Roy, Vice President, EMC</p>
II	11 45 to 1300	<p><b>Understanding New forms of Environmental Governance</b></p> <p style="text-align: right;">Dr. Prasad Modak</p>
III	14 00 to 16 00	<p><b>A Role Playing Exercise on the Regulator-Business-Community Model: Case of Pune's Air Quality</b></p> <p style="text-align: right;">Session coordinator – Dr. P. Modak &amp; Mr. Shantanu Roy</p>



Session	Time	Detail
IV	16 15 to 17 30	<b>Global Environmental Politics – Two case studies</b> <i>Biodiversity</i> By Mr. Debi Goenka, Conservation Action Trust <i>Climate Change</i> Dr. Ram Babu, MD, CantorCO <sub>2</sub>
Group Assignment	17 30 to 18 00	<b>Making 10 PowerPoint slides on an allotted topic to be submitted by the end of the workshop</b> Moderated by Dr. Anju Singh, ISEM, NITIE
<b>Day 2 January 17, 2009</b>		
Opening session	<b>9 00 to 9 30</b>	<b>Registration</b> of Module B Participants <b>Introduction to the Programme:</b> Mr. Shantanu Roy <b>Participant Introduction and Expectations from the School</b>
VI	<b>09 45 to 10 45</b>	<b>From Environmental Impact Assessment to Sustainability Appraisal: Evolution, Process and Opportunities</b> Dr. Prasad Modak <b>The Indian EIA system</b> Interjector: Dr. Neelima Naik, Professor and Group Coordinator, NITIE
VII	<b>10 45 to 11 30</b>	<b>The Toolboxes – GIS/Remote Sensing</b> Ms.Pratima Raykar, Assistant Vice President, EMC
VIII	<b>11 45 to 13 00</b>	<b>Environmental Monitoring (Routine Surveys)</b> Dr. Ajay Deshpande, Regional Officer, Maharashtra Pollution Control Board

Session	Time	Detail
IX	14 00 to 16 00	<b>Overview of Indian Environmental Law and Group Work</b> Prof. Seema Unnikrishnan, ISEM, NITIE
X	16 00 to 17 30	<b>Environmental and Social (E&amp;S) Safeguards at World Bank and Asian Development Bank</b> Dr. Prasad Modak
XI	17 45 to 18 30	<b>Environmental Quiz</b> Organized by NITIE Ex-Students
XII	18 30 to 20 00	<b>Screening of Environmental Film</b>
<b>Day 3 January 18, 2009</b>		
		<b>Nature Walk:</b> Organized by Bombay Natural History Society (BNHS)
XIII	09 00 to 10 00	<b>Business and Sustainability</b> Dr. Shirish Sangle, ISEM, NITIE
XIV	10 00 to 11 15	<b>Environmental Management System</b> Dr. L. Ramakrishnan, Philips
XV	11 30 to 13 00	<b>Green Products</b> Mr. Shantanu Roy <b>The Philips Experience</b> Dr. L Ramakrishnan
XVI	14 00 to 15 15	<b>Environmental Monitoring (Specialized Surveys)</b> Dr. Rakesh Kumar, NEERI

Session	Time	Detail
XVII	15 15 to 16 00	<b>Green Products – Case studies</b>  Dr. Anju Singh, ISEM, NITIE
XVIII	16 15 to 18 00	<b>The CDM Business</b>  Prof. Seema Unnikrishan  <b>Carbon markets</b>  Interjector Mr. Shantanu Roy
XIX	18 00 to 18 30	<b>Course Evaluation and Feedback for Module B Participants</b>
Group Assignment	18 30 to 18 45	<b>Fast Fingers on Internet</b>
<b>DAY 4 January 19, 2008</b>		
XXI	09 00 to 11 15	<b>Corporate Environmental and Social Reporting Practices</b>  Mr. Arvind Sharma, KPMG
XXII	11 30 to 13 00	<b>Planning Careers in Environmental Management</b>  Speaker Moderator – Dr Deepak Kantawala
XXIII	14 00 to 15 15	<b>Presentation by Participants on assignment given on 16.01.2009 and 18.01.2009</b>
XXIV	15:15 to 16 30	<b>Course Evaluation and Feedback from Module A Participants</b>
<b>Concluding Session</b>		

Session	Time	Detail

## Annexure 2

### Participant List

#### MODULE – A: 16<sup>th</sup> to 19<sup>th</sup> January 2009

Sl. No	Name of the Participants & Designation	Participant's Mailing Address
1	Mr. Narsingh H. Shivangi Sub-Regional Officer M. P. C. Board, Ratnagiri	401/3, G. N. Complex Chinchpada Road Ambarnath (W), Dist - Thane Mob. No. 9422149001 e-mail : sroratnagiri@yahoo.co.in
2	Mr. Dhananjay Baburao Patil Sub-Regional Officer M. P. C. Board, Mumbai	F-1/6, Shantivan Sector – 6, CBD , Navi Mumbai Above Hotel Meenakshi Navi Mumbai – 400 614. Mob No. 9869794058 email: dbpatilmpcb@yahoo.com

3	Mr. P. M. Joshi Sub-Regional Officer M.P.C.Board, Latur	Sub-Regional Office Maharashtra Pollution Control Board Dev Towers, Opp. Tahasil Office Barshi Road, Latur – 413512. Tel – 252672 e-mail : srompcb@yahoo.com
4	Mr. Jitendra B. Sangewar Sub-Regional Officer M.P.C.Board, Thane	Maharashtra Pollution Control Board 3rd Floor, Siddhivinayak Sankul Oakbaug, Kalyan (W) Dist. – Thane – 421 301 e-mail : vyomdsngrest@rediffmail.com
5	Mr. Said Shankar Ramchandra Field Officer M.P.C.Board, Mumbai	Maharashtra Pollution Control Board Kalpataru Building, 3rd Floor Opp. Cinemax Cinema, Sion Circle Mumbai – 400 22. Tel No.: 2409043
6	Mr. B. D. Wadde Sub-Regional Officer M. P. C. Board, Mumbai	Maharashtra Pollution Control Board Kalpataru Building, 3rd Floor Sion Circle Mumbai – 400 22

7	<p>Mr. Narendra Toke</p> <p>Field Officer</p> <p>M.P.C.Board, Mumbai</p>	<p>304 Norita 'B', Pride Park</p> <p>Opp Lawkim</p> <p>Ghodbunder Road</p> <p>Thane (W)</p> <p>Mob No : 9870646761</p> <p>e-mail : anjaytoke122972@rediffmail.com</p>
8	<p>Ms. Viju Sirsath</p> <p>Field Officer</p> <p>M. P. C. Board, Mumbai</p>	<p>Maharashtra Pollution Control Board</p> <p>Kalpataru Point, 3rd Floor</p> <p>Opp. Cinemax Cinema, Sion Circle</p> <p>Sion (E), Mumbai – 400 22.</p> <p>Mob No.: 9822061969</p> <p>Email : viju_sirsath@rediffmail.com</p>
9	<p>Mr. Sachin J. Adkar</p> <p>Field Officer</p> <p>M. P. C. Board, Mumbai</p>	<p>Maharashtra Pollution Control Board</p> <p>Kalpataru Point, 3rd Floor</p> <p>Opp. Cinemax Cinema</p> <p>Sion - Matunga Schem, Road No. 8</p> <p>Sion (E), Mumbai – 400 022</p> <p>Mob. No : 9967976817</p> <p>Email : sachinadkar@yahoo.co.in</p>

10	<p>Ms. Sagarika Mohanty</p> <p>Student</p> <p>CESE, IIT Bombay</p>	<p>CESE, IIT Bombay</p> <p>Powai, Mumbai – 400 076.</p> <p>Mob. No : 9323086932</p> <p>e-mail : mailtosags@gmail.com/ sagarika@iitb.ac.in</p>
11	<p>Mr. Avick Sil</p> <p>Project Assistant</p> <p>NEERI, Mumbai</p>	<p>Flat # 501, Polaris</p> <p>Hiranandani Estate</p> <p>Ghodbunder Road</p> <p>Thane (W) – 400 607.</p> <p>Tel. No. 25861264</p> <p>e-mail : avick1411@gmail.com</p>
12	<p>Mr. Mihir Herlekar</p> <p>Project Assistant</p> <p>NEERI, Mumbai</p>	<p>208 A Ketayun Mansion</p> <p>Shahaji Raje Marh</p> <p>Vile Parle (East)</p> <p>Mumbai – 400 057</p> <p>Tel No. 26825571</p> <p>Email : mihirherlekar@yahoo.com</p>

13	Ms. Shruti Mokashi  Student	! – 2/503 Todkar Residency  Opp. VIT, Sno. 666/1A/3  Bibvewadi  Pune – 411037.  Tel. No : 020 – 24280918  e-mail : shrutimokashi@yahoo.co.in
14	Ms. Madhura Milind Karnik  Student	B 9/10, Ishkrupa Apartments  Bhangarwadi  Lonavla – 410 401.  Mob. No : 9921090878  e-mail : madhurakarnik@hotmail.com
15	Mr. Sibananda Senapati  Fellow NITIE Economics	Room No.2, Hostel – PGPM  NITIE, Mumbai-400 087  Mob. No : 09833967188  e-mail : sibanandaeco@gmail.com
16	Ms. Richa Gautam  Research Scholar	Flat No.2, PGP Girl's Hostel  NITIE Campus, Vihar Lake  Mumbai-400 087  Mob. No : 9920914731  e-mail : richa@nitie.edu  richagautam07@gmail.com



17	Mr. Ravindra Kumar Verma  Doctorate Fellow	Room No.404, Hostel No. 4  PO – NITIE  Mumbai-400 087  Mob. No : 9322134202  e-mail : ravindraraaj2008@gmail.com
18	Mr. Manish Kumar  Student	Room No.210, PGP Hostel No.5  NITIE, Vihar Lake  Mumbai-400 087  Mob. No : 9769089874  e-mail : manjha@gmail.com  manishisem8@nitie.edu
19	Mr. Umesh Gandhi  Student	Room No.322, Hostel No.5  NITIE, Vihar Lake  Mumbai-400 087  e-mail : umesh@gmail.com
20	Ms. Deepika Arora  Student	Room No.120, Hostel No.5  NITIE Campus, Vihar Lake  Mumbai-400 087  Mob. No : 9223219280  e-mail : deepika169@gmail.com

21	Ms. Janki Davda  Student	A-104, Solitaire Aptt.  Raveshiya Park, Gunjan  Vapi, Gujarat  Pin – 396195  Tel : 0260 2432950  e-mail : jani_davda2000@yahoo.com
22	Mr. Swagat Kishor Mishra  Fellow NITIE Economics	Room No.6, PGP (M) Hostel  NITIE Campus, Vihar Lake  Mumbai-400 087  Mob. No : 9869519479  e-mail : sayswagat@gmail.com
23	Ms. Richa Chowdhary  Student	Room No.102, Hostel – 5  NITIE, Vihar Lake  Mumbai-400 087  Mob. No : 9987266990  E-mail : irichachowdhary@gmail.com
24	Mr. Marathe Sagar A  Research Fellow	Marathe Waada Brahman Society  Murbad Road, Syndicate  Kalyan (West) - 421301  Tel – 2327488  e-mail : sagaralwayssthere@gmail.com

25	Mr. Harish Jibhau Wagh  Student	Flat No.503, Vijayraj Aptt., Gangapur Road, Pumping Station Shri Rang Nagar Nashik – 422005, Maharashtra Mob. No : 9987136310 e-mail : harshal.j.wagh@gmail.com
26	Mr. Sunil Fegade  Dy. Engineer, V.J.T.I.	Om Siddhivinayak Aptt. Opp. Veg Market Behind Suresh Towers, Rambaug Lane No.4 Kalyan - 421301 e-mail : fegadest@yahoo.co.in
27	Mr. Sharma Rajendra G.  Asstt. Engineer Civil, BM.C	Flat No.802, Bldg. B, Rahul Towers BPS X Road no.5, Opp. LIC Colony Mulund (w), Mumbai-400080 Tel- 25934093 e-mail : mynamerajendra@yahoo.com
28	Mr. Korgaonkar Deepak P.  Sub-Engineer, MCGM	4/7, Sanket, Shiv Mandir Road Near DAV College, Datar Colony Bhandup (E), Mumbai-400042 Tel – 25661574 e-mail : deepakkar@yahoo.co.in

29	Ms. Sreemoyee Chakraborty  Student	B2, Karaya Abasan, 98, Karaya Road  Kolkata – 700019, West Bengal  Tel – 22801024  Mob. No : 09836013877  e-mail : chocopie152004@yahoo.co.in  flyhigh66@gmail.com
30	Mr. G. Kanagaraj  Student	361, Brahma Putra Hostel  IIT Madras, Chennai-600036  Mob. No : 9003263930  e-mail : gkanagaraj83@gmail.com
31	Ms. Ruchi Soni  Student	D-4/4015, Vasant Kunj  New Delhi – 110070  Tel – 26895546  Mob. No : 9818673627  e-mail : ruchisoni1@gmail.com  ruchisoni2000@yahoo.com
32	Prof. Maddulety K.  Asstistant Professor  NITIE, Mumbai	National Institute of Industrial Engineering  P.O. – NITIE, Vihar Lake  Mumbai – 40087.

**MODULE – B: 17<sup>th</sup> to 18<sup>th</sup> January 2009**

Sl. No	Name of the Participants & Designation	Participant's Mailing Address
1	Dr, Amod Sadashiv Tilak  Advocate, High Court &  Visiting Faculty in Law	6, GD. Floor., Shreeniketan  Bhagat Lane,  Mahim, Mumbai – 400 016.  Tel No. 022 – 24304964 / 24220866  e-mail : ast.adv@gmail.com
2	Mr. Pandit Rajul Bakulchandra  Vice President, IL & FS	IL & FS Financial Centre  ITNL 3rd Floor  Bandra-Kurla Complex  Mumbai – 400 051  Tel No. 26593693  email:rajul.pandit@ilfsindia.com
3	Mr. Nilkanth Nihul  Regional Officer  M.P.C.Board, Amravati	Regional Office  Maharashtra Pollution Control Board  "Aashirwad" Shrikrishnapeth  Amravati – 444 601. Tel – 0721 2662964
4	Ms. Shruti Arora  Manager , IL & FS	IL & FS Financial Centre  3rd Floor, G – Block,  Plot C - 22

		<p>Bandra-Kurla Complex</p> <p>Mumbai – 400 051</p> <p>Tel No. 26593869</p> <p>Email :shruti0973@gmail.com</p>
5	<p>Mr. Santosh Shidhaye</p> <p>Vice President, IL &amp; S</p>	<p>IL &amp; FS Financial Centre</p> <p>Bandra-Kurla Complex</p> <p>Bandra (East)</p> <p>Mumbai – 400 092</p> <p>Tel No. 67078719</p> <p>Email :santosh.shidhaye@ilfsindia.com</p>
6	<p>Ms. Nisha Kanwar</p> <p>Project Coordinator</p> <p>Crystal Indl. Syndicate P.Ltd.</p>	<p>B 10 – 1, 4 : 2Sector – 5</p> <p>Sarvodya Apartments</p> <p>CBD Belapur</p> <p>Navi Mumbai – 400 614</p> <p>e-mail : nisha.cispl@gmail.com</p>
7	<p>Mr. Suresh Babu</p> <p>HSE Auditor</p>	<p>V. Ramapuram</p> <p>Varadareddy Palli (Post)</p> <p>Gudiyattam (Taluka)</p> <p>Vallore – 632 603, Tamil Nadu</p> <p>Mob No. 9443056955</p> <p>e-mail : chemsusreshnit@yahoo.co.in</p>
8	<p>Mr. Govindraj Shyam Umarji</p>	<p>12/97 Moreshwar Krupa Chs Ltd.</p>

	<p>Manager EHS</p> <p>Asian Paints Ltd.</p>	<p>Savarkar Marg, Bhandup (East)</p> <p>Mumbai – 400 043.</p> <p>Tel No. 25663614</p> <p>Email : gsumarji@gmail.com</p>
9	<p>Mr. Nitin Gupta</p> <p>IL &amp; FS</p> <p>Mumbai</p>	<p>IL &amp; FS Investment Managers, Limited</p> <p>Mumbai</p>

### Annexure 3

#### Resource faculty

Resource Faculty	Designation
Dr. Prasad Modak	Executive President, Environmental Management Centre
Mr. Shantanu Roy	Vice President, EMC
Dr. Ram Babu	Managing Director, Cantor CO <sub>2</sub>
Mr. Debi Goenka	Trustee, Conservation Action Trust
Dr. Anju Singh	Associate Professor, Industrial Safety & Environmental Management, NITIE
Dr. Neelima Naik	Professor and Group Coordinator Industrial Safety & Environment, NITIE
Ms. Pratima Raykar	Assistant Vice President, EMC
Mr. Ajay Deshpande	Regional Officer, Maharashtra Pollution Control Board
Prof. Seema Unnikrishnan	Associate Professor, Industrial Safety & Environmental Management, NITIE
Dr. Shirish Sangle	Assistant Professor, Industrial Safety & Environmental Management, NITIE
Dr. L. Ramakrishnan	Regional Environmental Coordinator, Philips Electronics India Ltd.
Dr. Rakesh Kumar	Deputy Director and Head, NEERI
Mr. Arvind Sharma	Associate director, <i>KPMG</i>
Dr. Deepak Kantawala	Consultant and Ex-President, Indian Environmental Association



## Annexure 4

### Contents of Resources CD ROM

Sr. No.	File name	Details
1	ABD_environment_policy	Environmental Policy of Asian development Bank
2	Access_of_Poor_to_CleanHouseholdFuelsin_India	Study proposed at a meeting held in Delhi in November 2000 with the Planning Commission and the Oil Coordination Committee (now Petroleum Planning and Analysis Cell) of the Ministry of Petroleum and Natural Gas. Prepared by Joint United Nations Development Programme (UNDP)/ World Bank Energy Sector Management Assistance Programme (ESMAP)
3	ACTIS_business_principles	How we do business..., Actis Business Principles
4	ADB_EIA_Guidelines	Asian Development Bank Environmental Assessment Guidelines
5	ADB Env Policy (2004)	African Development Bank Group's Policy on the Environment, February 2004
6	Altered_Images_TERI	Altered Images the 2001 state of corporate responsibility in India poll, by Ritu Kumar, David F Murphy, Viraal Balsari, Tata Energy Research Institute 2001
7	Biodiversity_Impact_Assessment	Biodiversity-Inclusive Impact Assessment, Information document in support of the CBD Guidelines on Biodiversity in EIA and SEA, Version July 2005 (IAIA Reference document)
8	Buildings_and_climate_change	BUILDINGS AND CLIMATE CHANGE Status, Challenges and Opportunities, United Nations Environment Programme, 2007
9	Buygreen_consumersguide_Australia	Shop Smart Buy Green, A consumer's guide to saving money and reducing environmental impacts, Department of the Environment, Water, Heritage and the Arts, Australia

Sr. No.	File name	Details
10	Compliance Inspectors Field Manual	Conducting Environmental Compliance Inspections Inspector's Field Manual International Edition, Prepared by Office of Enforcement & Compliance Assurance August, United States Environmental Protection Agency, Washington DC, 2002
11	Cost_of_Inaction_India	The Cost of Inaction: Valuing the economic cost of environmental degradation in India, Prepared by Carter Brandon & Kirsten Hommann, Asia Environment Division, World Bank, October 17 1995
12	CSR_Perception_Indian_Business	Corporate Social Responsibility: Perceptions of Indian business, Prepared by Kate Brown, Centre for Social Markets London/ Calcutta July 2001
13	Dodging_Dilemmas	Dodging Dilemmas?- Environmental and Social Accountability in the Global Operations of California-Based High Tech Companies, California Global Corporate Accountability Project, May 2002
14	EBRD Sustainability Report	Investing and working responsibly for a sustainable future EBRD SUSTAINABILITY REPORT 2004, European Bank for Reconstruction and Development
15	Eco-Industrial_Park	ECO-Industrial Parks, A Strategy towards Industrial Ecology in Developing and Newly Industrialised Countries, y Prepared by Anja-Katrin Fleig Eschborn, 2000
16	EDD procedures_private equity	ENVIRONMENTAL PROCEDURES FOR PRIVATE EQUITY FUNDS
17	Env compliance and enforcement_OECD	Environmental Compliance and Enforcement in India: Rapid Assessment Study conducted by the Secretariat of the Asian Environmental Compliance and Enforcement Network (AECEN) – with funding from the U.S. Agency for International Development (USAID) – and the Organisation for Economic Co-operation and Development (OECD).

Sr. No.	File name	Details
18	Env_Education_Communcation_Sustain_World	Environmental & Education Communication For A sustainable World, handbook for International Practitioners Created by Brian A. Day and Martha C. Monroe, GreenCOM, the Environmental Education and Communication Project of the United States Agency for International Development at the Academy for Educational Development, Washington D.C.
19	Env_Management_Tools_SME	Environmental Management Tools for SMEs: A Handbook Edited for the EEA by Richard Starkey The Centre for Corporate Environmental Management (CCEM) Ingvar Andersson, Project Manager European Environment Agency March 1998
20	Environment_Value_Top_Line_GEMI	Environment: Value to the Top Line, Report by Global Environment management Initiative
21	GlobalStatus_Production&Consumption_UNEP	Sustainable Consumption and Cleaner Production Gllbal Status 2002, United Nations Environment Programme Division of Technology, Industry and Economics
22	Green retail Guide Book	Feasibility study on “Greening the Small Retail Sector”, By Upper Village Business Improvement Area (UVBIA) Toronto, Toronto Atmospheric Fund and Greenest City environmental group Toronto
23	GreenAccountingIndianStatesProject	Estimating the value of agricultural cropland and pastureland in India Monograph 2 GAISP (Green Accounting for Indian States Project) Haripriya Gundimeda Associate Professor, Madras School of Economics, Sanjeev Sanyal Director, GAISP, Rajiv Sinha Professor, Arizona State University, USA, and Director, GAISP Pavan Sukhdev Director, GAISP
24	IADB Sustainability Review (2005)	INTER-AMERICAN DEVELOPMENT BANK SUSTAINABILITY REVIEW 2005

Sr. No.	File name	Details
25	IAIA_Biodiversity_Guidelines	BIODIVERSITY IN IMPACT ASSESSMENT, Special Publication Series No. 3, Published by INTERNATIONAL ASSOCIATION for IMPACT ASSESSMENT, July 2005
26	IAIA_EA_Effectiveness_Study	ENVIRONMENTAL ASSESSMENT IN A CHANGING WORLD: Evaluating Practice to Improve Performance Prepared by Barry Sadler, International Study of the Effectiveness of Environmental Assessment, Final Report, June 1996
27	India CEA Report_WorldBank	INDIA: STRENGTHENING INSTITUTIONS FOR SUSTAINABLE GROWTH, Country Environmental Analysis (India CEA) OCTOBER 2006
28	India_EA_Effectiveness	India Review of the Effectiveness of Environmental Assessments in World Bank– Assisted Projects, Fiscal 1990–97 Environment Sector Management Unit South Asia Region, The World Bank
29	india_env_market	STUDY ON THE INDIAN ENVIRONMENTAL SCENARIO AND MARKET, Compiled by: Dr.Ganesh Shankar (Indo German Chamber of Commerce) February 2001
30	India_Environmental Compliance	Environmental Compliance and Enforcement in India: Rapid Assessment, The key findings of the report discussed at a stakeholder workshop in New Delhi, 3 November 2006
31	Integrating_ES_Biodiversity_Assessment	Integrating Biodiversity into Environmental and Social Impact Assessment Processes, THE ENERGY & BIODIVERSITY INITIATIVE The Center for Environmental Leadership in Business Conservation International

Sr. No.	File name	Details
32	Johansberg_Summit_Critical_Trends	Global challenge global opportunity trends in sustainable development, published by the united nations department of economic and social affairs for the world summit on sustainable development johannesburg, 26 august – 4 september 2002
33	New_Paths_Business_Value_GEMI	New Paths to Business Value, STRATEGIC SOURCING — Environment, Health and Safety, GEMI, March 2001
34	PublicConsultation_Manual_IFC	Doing Better Business Through Better Public Consultation and Disclosure, A Good Practice Manual, By International Finance Corporation, Member of the World Bank Group
35	Resettlement_Risk_Management_India Country Report	Capacity Building for Resettlement Risk Management India, Asian Development Bank, November 2007
36	show_me_the_money	Show Me The Money: Linking Environmental, Social and Governance Issues to Company Value, A product of the UNEP Finance Initiative Asset Management Working Group
37	SocialCriteria_for_SustainabilityStandards	Social Principles and Criteria for Sustainable Biofuel Production at the Plantation Level
38	Stocks & Env Performance	DO STOCK MARKETS PENALISE ENVIRONMENT-UNFRIENDLY BEHAVIOUR? EVIDENCE FROM INDIA, By Shreekant Gupta Delhi School of Economics Delhi University and Bishwanath Goldar Institute of Economic Growth University of Delhi Enclave North Campus, Delhi, March 2003
39	Sustainable_Consumption_YouthXCguide_UNEP	THE GUIDE: Training kit on responsible consumption, By UNESCO and UNEP
40	Untold Realities NGO forum report on India	Untold Realities: How the ADB Safeguards have been violated in Bangladesh, India, Lao and PDR, Pakistan, By NGO Forum on ADB, October 2006
41	Where is Wealth of Nations-WB	WHERE IS THE Wealth of NATIONS?, Measuring Capital for the 21st Century, THE WORLD BANK Washington, D.C.

Sr. No.	File name	Details
42	WHO_assessment of sources of air,water pollution	Assessment of Sources of Air, Water & land Pollution, A guide to rapid source inventory techniques in environmental pollution, By Alexander Economopoulos, Democritos University of Thrace, WHO, Geneva, 1993
43	Presentation Folder: Presentation by Resource Faculty	Presentation given by resource Faculty in Workshop

## Annexure 5

### Description of the Assignments

#### Role playing session

Participants were divided into three groups to play one role – Government/ Business/ Community. Each group was asked to come up with issues and actions to improve air quality of Pune. Participants were allotted 45 minutes to discuss and give their presentation.

#### PowerPoint related Group Assignment

On Day 1 participants were divided in 5 groups and allotted one topic as follows.

- Enforcing Wastewater Recycling
- Defining Ecological Sensitive Zones
- Is CNG Eco-friendly?
- Promoting Eco-Industrial Parks
- Green Buildings – Are they affordable?

Participants were required to prepare PowerPoint slides and present on Day 4 i.e. January 19, 2009.

#### Group work session

Participants were divided into 5 groups. A Beas river case study was provided on the judgement passed on the Hon. Supreme Court of India. Participants were required to respond to some of the key questions.

#### Fast Fingers on Internet

Participants were given a CV of “Sonia”. Participants were divided into 5 groups and were asked to come up with recommendation for Sonia on her higher education and job search in 30 minute by using internet

**Annexure 6**  
**Sample Certificate**



**Certificate**

This is to certify that

-----  
has attended the

***Finishing School***  
*on*  
***Environmental Management***

Organized jointly by

**Environmental Management Centre, Mumbai**  
and  
**National Institute of Industrial Engineering, Mumbai**



\_\_\_\_\_  
Dr Prasad Modak  
(Executive President, EMC)

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Dr S D Awale  
(Director, NITIE)



## Annexure 7

### Finishing School on Ekonnnect Website

All participants to the Finishing School are registered at EMC's e-learning portal <http://www.ekonnnect.net/>.

Ekonnnect is a learning platform where Dr Modak and faculty at the Finishing School will continue to serve as mentors for a period of one month and extend the Finishing School on a virtual basis.

Ekonnnect site hosts bunch of e-learning courses, electronic books, presentations and other valuable resources to offer the best of learning blend.

The website is designed for professionals to share their knowledge, capture latest trends and collaborate with well known experts from the field of environment. In addition to online learning this portal offers an excellent networking opportunity for environmental professionals.

- **Learners:** ekonnnect provides course modules on environment, customized & designed by experts in their respective field. Learners can combine modules of their choice available online, ask questions, upload assignment for feedback, apply for jobs/internships and collaborate with mentors, teachers or classmates/colleagues through chat & online forums.
- **Mentors:** ekonnnect provides an opportunity for various Environmental professionals to offer their expertise as 'Mentor'. Mentors are experts who are allocated to one/multiple course and they are responsible to answer the queries of the learners and evaluate and provide feedback for assignments.
- **Teachers:** Teachers design the course content and are responsible for continuously updating the course. They will also assess the performance of the mentors assigned to the course.
- **Job / internship Providers:** Companies can apply for memberships and use the database of job / internship aspirants who are registered with us to shortlist candidates for their requirements.

Log on to [www.ekonnnect.net](http://www.ekonnnect.net) for the experience. The registration is FREE.

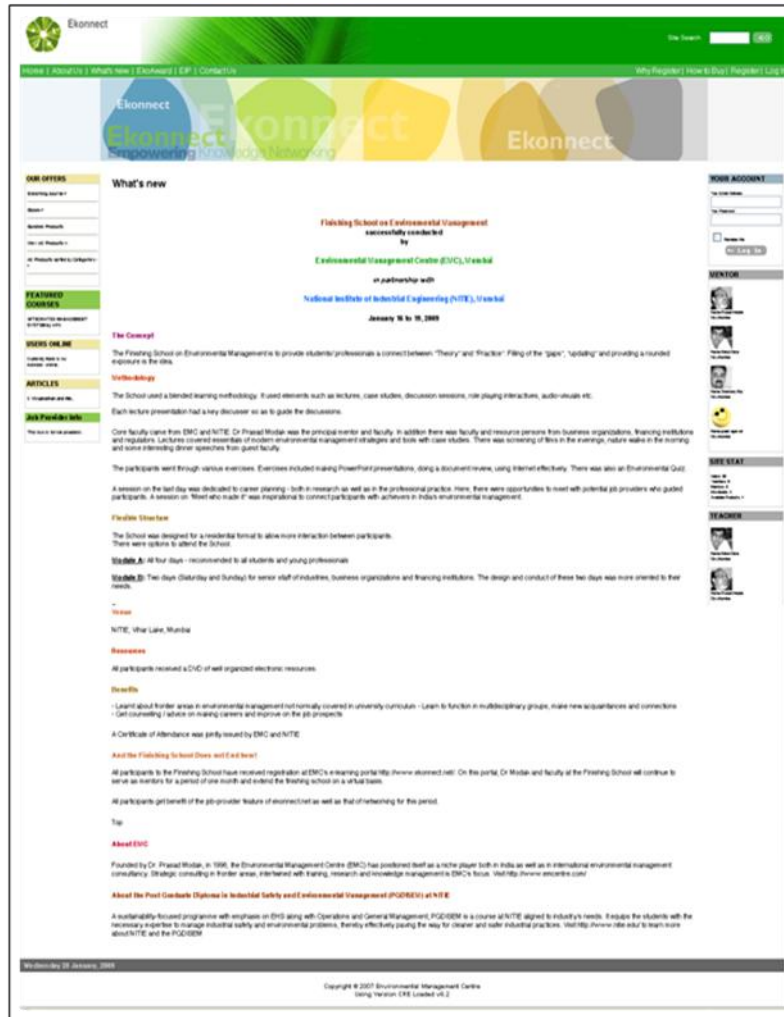


Figure 2: Ekonnnect website