

# IMPLEMENTATION MECHANISMS FOR INTRODUCING EE IN HIGHER EDUCATION

M. Das, M.D. Tiwari, Tawnenga, S. Singh, M. Konwar,  
M.L. Khan, Uma Shankar, A. Gupta

## I. Operational implications

Two fold strategies have to be adopted for implementation of environmental education in higher education.

Firstly, infusion of environmental aspects in the existing curriculum from undergraduate to postgraduate level, including the professional courses like engineering, medicine, agriculture, law, journalism etc. This would require

- (i) revision of curriculum/textbook and
- (ii) orientation training to college teacher to environmental education.

The revision of curriculum may be entrusted to respective agencies viz., U.G.C., AICTE, IMC, ICAR, and NCTE. The revision for professional and post graduate courses may be completed in two years time, while for undergraduate courses the same may be completed in 5 years time.

It is proposed that a Co-ordinating centre at regional level be created in line of CEE Ahmedabad. This centre would be entrusted with formulating, co-ordinating and organising orientation training for existing college teachers. At a later stages sub-centres may be created at district level and state level.

It is recommended that orientation camps be organised with cluster of colleges in close vicinity to ensure maximum participation. The camps may be organised in collaboration with education departments of university/college & PGT colleges.

The proposed centre should also take up preparation of literature and information brochures

on environment education and be responsible for dissemination of the same.

The re-orientation training program should be completed within 5 years time.

Secondly, introduction of environmental Science at U.G. and P.G. level for preparing specialists. This would necessitate introduction of a course on Environmental Science at P.G. level in a few selected universities within two years time.

This would reconsecrate creation of separate faculty of environmental science in professional, technical college/university in 5 to 10 years.

Enrichment/introduction of foundation course at UG level be modified with increased content on environmental aspects and may be done in 2 years.

### **III. Evaluation and Monitoring**

1. The college level program be introduced experimentally at selected colleges.
2. The impact of the scheme be monitored periodically by the co-ordinating agency, through assessment of environment awareness among the students.
3. Incentive in the form of scholarship/certificates for student for better environment awareness be introduced.
4. Speech/essay competition among students be held on environment awareness.
5. Scheme of award for teachers generating better environment awareness be instituted.
6. Foundation of fellowships for research on environment be instituted at selected University/College/Institute of higher education.

### III. Infrastructure required

1. Creation of Resource/Training centre at
  - (a) Regional level : 2 Years
  - (b) District level : 2 Years
  - (c) State level : 10 Years
2. Creation of a pool of Resource persons/  
contact person from the fields related to  
environmental studies.
  - (a) at district level : 2 Years
  - (b) at block level : 5 Years
3. Implementing/Co-ordinating Agency - (1) NIEPA  
New Delhi, (2) CEE Ahmedabad, (3) Regional  
Centre, NAEB.
4. Collaborating Agency - INSA, IMA, Institute  
of Engineers, ASTE, FICCI/State Chambers of  
Commerce.
5. Funding Authority - UNESCO through IEEP/UNEP.
6. Monitoring Agency - Co-ordinating agency  
through resource persons and centres.

#### IV. Operational implication

Implementation Strategy	Level	Operational	Agency	Time Schedule
1	2	3	4	5
1.	:	:1.	:	:
Infusion of environment aspect in existing curriculum	: U.G. : to PG : level : inclu- : ding :	: Revision of Curri- : culum & : text book :	: U.G.C. : AICTE : IMC : ICAR : etc. :	: U.G.-5 Yrs : U.G. (Prof) : & P.G.- : 2 Yrs :
	: profe- : ssio- : nal : stream :	: 2. : EE Orien- : tation : training :	: NITE- : Sepa- : rate :	:
	:	: to teacher :	: (a) :	:
	:	: at all :	: Central :	:
	:	: level :	: Agency :	:
	:	:	: (b) :	:
	:	:	: NGOs :	:
2.	:	:	:	:
Introduc- : tion of En- : vironmental : Science : (En. Sc.) :	:	:	:	:
(a) As Optio- : nal Sub- : ject :	: Higher : ssion : dary :	: Speciali- : sation in : Env. Sc. : of teacher :	: School : Board : Univ. :	: 5 Years :
	:	: at least 1 :	:	:
	:	: in each :	:	:
	:	: School/ :	:	:
	:	: College :	:	:

cont...

1	2	3	4	5
(b) Additional:U.G.	: Creation of:	AICTE :		
Core Sub-ject	:(Prof-essio-:nal)	Separate Faculty :		2 Years
(c) Enrichment: U.G.	: Creation of:	UGC & :	2 Years	
of Founda-tion Faculty	:(Gen): Faculty	of Separate Univer:sity. :		
(d) Separate Subject Hons. Course	: U.G. (Gen): Faculty	: Creation of: Separate Faculty	: UGC & Univer:sity :	5 Years
(e) Separate Discipline:	: U.G. P.G. :	: Creation of: Separate Faculty	: UGC & Univer:sity :	10 Years 2 Years