**1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum**

The academic programmes of HBNI are designed to develop human resources in the area of nuclear science and technology and allied subjects including mathematics. HBNI is committed to fostering an environment of academic rigour and ethical values. HBNI ensures the complete development of the student by providing exposure to important issues such as gender sensitivity, consciousness of environment, sustainability and most importantly, professional ethics.

**Gender Sensitization**

In order to create the right mind set among the students towards issues related to gender, the different constituent institutions of HBNI organise series of lectures delivered by experts in the field of gender sensitization. HBNI as well as all its CIs/OCC has Women’s Cell and Grievance Redressal Cell to provide counselling to students, promote gender equity among students and also deal with related issues of safety and security of female students, staff and faculty.

**Professional Ethics and Moral Values**

HBNI is taking all necessary measures to impart knowledge about ethical practices in the conduct of scientific research to its students. In this regard, HBNI organizes lectures by senior professors periodically, which cover issues related to plagiarism (including self-plagiarism) and attributing authorship of papers to individuals who have not contributed. HBNI has also conducted several workshops with the help of Administrative Training Institute of DAE to brief students as well as faculty about correct and ethical practices. A mandatory course on Research Methodology is included in the curriculum of research scholars which is designed to include aspects of professional ethics. This course also deals with issues of morality and Human values. HBNI and its constituent institutions celebrate days of National and International importance as Republic day, Independence Day, Teacher`s day, International Women’s day, International Yoga Day etc. which nurture the moral, ethical and social values in the students.

**Environment and Sustainability**

For the indigenous development of nuclear science and technology, the emphasis on sustainable development, environmental impact and safety are important cross cutting issues. The majority of students who pursue post-graduate and doctoral programs in the R &D units of DAE come from outside the DAE environment. Accordingly, the courses run at the DAE units such as BARC, IGCAR, VECC and RRCAT create adequate awareness on safety issues among the students. Chemical safety, radiation safety, reactor safety and industrial hygiene are dealt with in detail in the courses at introductory level as well as advanced level. Sustainability and environment protection are therefore, invariably knitted into courses. In fact, one specific program run in BARC is PG diploma in Radiation Protection. BARC Training School also runs a program on Radiation Safety which includes courses on Environmental chemistry, Environmental Impact Assessment methodologies, Environment modelling, Radiation risk assessment and Epidemiology. With regards to the issue of environment and sustainability, tree plantation and cleanliness drives are also organized regularly for students and faculty members.

As part of programs in Medical and Health sciences, regular courses are held on imparting training in Good Clinical Practice and following ethical principles in the clinic and in the conduct of clinical research. It is mandatory for all postgraduate students to undergo certificate training in Good Clinical Practice. The PG Diploma and doctoral programs in biology also include courses on bioethics. All efforts are made in the clinics to maintain patient confidentiality and privacy. TMC also conducts lectures on medical humanities.