



**IMS ENGINEERING COLLEGE GHAZIABAD**  
**(YEAR OF ESTABLISHMENT - 2002)**  
**[Approved by AICTE & Affiliated to AKTU, Lucknow]**



### **Supporting Document**

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

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**Objectives:**

1. To help students distinguish between values and skills, and understand the need, basic guidelines, content and process of value education.
2. To help students initiate a process of dialog within themselves to know what they 'really want to be' in their life and profession
3. To help students understand the meaning of happiness and prosperity for a human being.
4. To facilitate the students to understand harmony at all the levels of human living, and live accordingly.
5. To facilitate the students in applying the understanding of harmony in existence in their profession and lead an ethical life

**Course Outcome:**

On completion of this course, the students will be able to

1. Understand the significance of value inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and process of value education, explore the meaning of happiness and prosperity and do a correct appraisal of the current scenario in the society
2. Distinguish between the Self and the Body, understand the meaning of Harmony in the Self the Co-existence of Self and Body.
3. Understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their role in ensuring a harmonious society
4. Understand the harmony in nature and existence, and work out their mutually fulfilling participation in the nature.
5. Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

**Catalogue Description**

Every human being has two sets of questions to answer for his life: a) what to do? and, b) how to do?. The first set pertains to the value domain, and the other to the skill domain. Both are complimentary, but value domain has a higher priority. Today, education has become more and more skill biased, and hence, the basic aspiration of a human being, that is to live with happiness and prosperity, gets defeated, in spite of abundant technological progress. This course is aimed at giving inputs that will help to ensure the right understanding and right feelings in the students in their life and profession, enabling them to lead an ethical life. In this course, the students learn the process of self-exploration, the difference between the Self and the Body, the naturally acceptable feelings in relationships in a family, the comprehensive human goal in the society, the mutual fulfillment in the nature and the co-existence in existence. As a natural outcome of such inputs, they are able to evaluate an ethical life and profession ahead.

## UNIT-1

### **Course Introduction - Need, Basic Guidelines, Content and Process for Value Education**

Understanding the need, basic guidelines, content and process for Value Education, Self-Exploration—what is it? - its content and process; ‘Natural Acceptance’ and Experiential Validation- as the mechanism for self exploration, Continuous Happiness and Prosperity- A look at basic Human Aspirations, Right understanding, Relationship and Physical Facilities- the basic requirements for fulfillment of aspirations of every human being with their correct priority, Understanding Happiness and Prosperity correctly- A critical appraisal of the current scenario, Method to fulfill the above human aspirations: understanding and living in harmony at various levels.

## UNIT-2

### **Understanding Harmony in the Human Being - Harmony in Myself**

Understanding human being as a co-existence of the sentient ‘I’ and the material ‘Body’, Understanding the needs of Self (‘I’) and ‘Body’ - Sukh and Suvridha, Understanding the Body as an instrument of ‘I’ (I being the doer, seer and enjoyer), Understanding the characteristics and activities of ‘I’ and harmony in ‘I’, Understanding the harmony of I with the Body: Sanyam and Swasthya; correct appraisal of Physical needs, meaning of Prosperity in detail, Programs to ensure Sanyam and Swasthya.

## UNIT-3

### **Understanding Harmony in the Family and Society- Harmony in Human-Human Relationship**

Understanding harmony in the Family- the basic unit of human interaction , Understanding values in human-human relationship; meaning of *Nyaya* and program for its fulfillment to ensure *Ubhay-tripti*; Trust (*Vishwas*) and Respect (*Samman*) as the foundational values of relationship, Understanding the meaning of *Vishwas*; Difference between intention and competence, Understanding the meaning of *Samman*, Difference between respect and differentiation; the other salient values in relationship, Understanding the harmony in the society (society being an extension of family): *Samadhan*, *Samridhi*, *Abhay*, *Sah-astitva* as comprehensive Human Goals, Visualizing a universal harmonious order in society- Undivided Society (*AkhandSamaj*), Universal Order (*SarvabhaumVyavastha* )- from family to world family!.

## UNIT-4

### **Understanding Harmony in the Nature and Existence - Whole existence as Co-existence**

Understanding the harmony in the Nature, Interconnectedness and mutual fulfillment among the four orders of nature- recyclability and self-regulation in nature, Understanding Existence as Co-existence (*Sah-astitva*) of mutually interacting units in all-pervasive space, Holistic perception of harmony at all levels of existence.

## UNIT-5

### **Implications of the above Holistic Understanding of Harmony on Professional Ethics**

Natural acceptance of human values, Definitiveness of Ethical Human Conduct, Basis for Humanistic Education, Humanistic Constitution and Humanistic Universal Order, Competence in Professional Ethics: a) Ability to utilize the professional competence for augmenting universal human order, b) Ability to identify the scope and characteristics of people-friendly and eco-friendly

production systems, technologies and management models, Case studies of typical holistic technologies, management models and production systems, Strategy for transition from the present state to Universal Human Order: a) At the level of individual: as socially and ecologically responsible engineers, technologists and managers, b) At the level of society: as mutually enriching institutions and organizations.

**Text Books:**

1. R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professional Ethics.

**References:**

1. Ivan Illich, 1974, Energy & Equity, The Trinity Press, Worcester, and Harper Collins, USA
2. E.F. Schumacher, 1973, Small is Beautiful: a study of economics as if people mattered, Blond & Briggs, Britain.
3. Sussan George, 1976, How the Other Half Dies, Penguin Press. Reprinted 1986, 1991
4. Donella H. Meadows, Dennis L. Meadows, Jorgen Randers, William W. Behrens III, 1972, Limits to Growth – Club of Rome’s report, Universe Books.
5. A Nagraj, 1998, Jeevan Vidya Ek Parichay, Divya Path Sansthan, Amarkantak.
6. P L Dhar, RR Gaur, 1990, Science and Humanism, Commonwealth Publishers.
7. A N Tripathy, 2003, Human Values, New Age International Publishers.
8. SubhasPalekar, 2000, How to practice Natural Farming, Pracheen (Vaidik) KrishiTantraShodh, Amravati.
9. E G Seebauer & Robert L. Berry, 2000, Fundamentals of Ethics for Scientists & Engineers , Oxford University Press
10. M Govindrajan, S Natrajan & V.S. Senthil Kumar, Engineering Ethics (including Human Values), Eastern Economy Edition, Prentice Hall of India Ltd.
11. B P Banerjee, 2005, Foundations of Ethics and Management, Excel Books.
12. B L Bajpai, 2004, Indian Ethos and Modern Management, New Royal Book Co., Lucknow. Reprinted 2008.

**Mode of Evaluation:**

Assignment/ Seminar/Continuous Assessment Test/Semester End Exam

## Syllabus

### RAS 302/RAS 402 : ENVIRONMENT & ECOLOGY

Unit	Content	Hours
UNIT-I	Definition, Scope & Importance, Need For Public Awareness- Environment definition, Eco system – Balanced ecosystem, Human activities – Food, Shelter, Economic and social Security. Effects of human activities on environment-Agriculture, Housing, Industry, Mining and Transportation activities, Basics of Environmental Impact Assessment. Sustainable Development.	8
UNIT-II	Natural Resources- Water Resources- Availability and Quality aspects. Water borne diseases, Water Induced diseases, Fluoride problem in drinking water. Mineral Resources, Forest Wealth, Material cycles- Carbon, Nitrogen and Sulphur Cycles. Energy – Different types of energy, Electro-magnetic radiation. Conventional and Non-Conventional sources – Hydro Electric, Fossil Fuel based, Nuclear, Solar, Biomass and Bio-gas. Hydrogen as an alternative future source of Energy.	8
UNIT-III	Environmental Pollution and their effects. Water pollution, Land pollution. Noise pollution, Public Health aspects, Air Pollution, Solid waste management, e-waste management Current Environmental Issues of Importance: Population Growth, Climate Change and Global warming- Effects, Urbanization, Automobile pollution- Acid Rain, Ozone Layer depletion, Animal Husbandry.	8
UNIT-IV	Environmental Protection- Role of Government, Legal aspects, Initiatives by Non-governmental Organizations (NGO), Environmental Education, Women Education.	8

#### **Text Books**

- 1.Environmental Studies – Benny Joseph – Tata McgrawHill-2005
- 2.Environmental Studies – Dr. D.L. Manjunath, Pearson Education-2006.
- 3.Environmental studies – R, Rajagopalan – Oxford Publication - 2005.
- 4.Text book of Environmental Science & Technology – M. Anji Reddy – BS Publication.

#### **Reference Books**

- 1.Principles of Environmental Science and Engineering – P. Venugoplan Rao, Prentice Hall of India.
- 2.Environmental Science and Engineering – Meena kshi, Prentice Hall India.

Activities conducted

S. No.	COURSE NAME	COURSE CODE	NAME OF ACTIVITY	DATE OF ACTIVITY	NO. OF STUDENT PARTICIPATED	DESCRIPTION
1.	3Weeks Compulsory Induction Program	Induction Program	Cultural, valuable and ethical activity	01.08.2019 – 21.08.2019	500 Students of 1 <sup>st</sup> year	Cultural, Moral, Ethical & Valuable Activities
2.	Universal Human Values & Professional Ethics	KVE-401	Self Investigation with process of value education. Organized by - Department of Electronics & Communication Engineering, IMSEC, Ghaziabad. Date,	3/2/20, (10:40 AM to 12:20 Noon Saturday & 1 hrs 40 minutes)	42 Students of EC Department	Student self investigate yourself with the help of self exploration chart
3.	Universal Human Values & Professional Ethics	KVE-401	Self Investigation with process of value education Organized by – Infocorps Society of Information Technology Department, IMSEC, Ghaziabad.	19/2/20 ( 2 p.m.to 3:40 p.m., Friday & 1 hrs 40 minutes. )	35 Students of IT Department(B. Tech. 2ndyr IT-1)	Student self investigate yourself with the help of self exploration chart
4.	Universal Human Values & Professional Ethics	KVE-401	Right Decisions based on Right understanding, case study- suicide case of B. Tech. student after mental stress. Organized by - Infocorps Society of Information	7/2/20 (2 p.m.to 3:40 p.m. Wednesday & 1 hrs 40 minutes)	38 Students of IT Department (B.Tech.2ndyr IT-2,)	Discussion on role of right understanding in right decisions

			<b>Technology Department, IMSEC, Ghaziabad</b>			
<b>5.</b>	<b>Universal Human Values &amp; Professional Ethics</b>	<b>KVE-401</b>	<b>Right Decisions based on Right understanding, case study- suicide case of B. Tech. student after mental stress. Organized by - Department of Electronics &amp; Communication Engineering, IMSEC, Ghaziabad. Date,</b>	<b>3/3/20 ( 10:40 AM to 12:20 Noon Tuesday , Room No. 207, Academic Block 'C', IMSEC Ghaziabad )</b>	<b>39 students</b>	<b>Discussion on role of right understanding in right decisions</b>
<b>6.</b>	<b>Universal Human Values &amp; Professional Ethics</b>	<b>KVE-401</b>	<b>Workshop on Introspection &amp; Self Improvement with the help of values and ethics . Organized by - Infocorps Society of Information Technology Department, IMSEC, Ghaziabad</b>	<b>14/3/20, 11 a.m. to 12:30 p.m. Saturday, Room No. 207, Academic Block 'C', IMSEC Ghaziabad</b>	<b>30 Students of IMS Engineering College</b>	<b>Discussion on Self Improvement with help of Our values &amp; Ethics</b>
<b>7.</b>	<b>Universal Human Values &amp; Professional Ethics</b>	<b>KVE-401</b>	<b>Workshop on importance of values and ethics in Human life</b>	<b>29/2/20, 3:00 p.m. to 4:30 p.m. Saturday &amp; 2 hrs</b>	<b>17th Non - Teaching staff members of IMSEC, Ghaziabad</b>	<b>Inculcate the human values in all section of society</b>
<b>8.</b>	<b>Universal Human Values &amp; Professional Ethics</b>	<b>KVE-401</b>	<b>On Check Mate- Secrets of Happy Life organized by ISKCON YOUTH FORUM</b>	<b>17 June to 19 June 2020 ,6 pm to 8 pm. (Webinar</b>	<b>6 Faculty</b>	<b>Understand the relation of Happy life with values</b>

				)		
9..	<b>Universal Human Values &amp; Professional Ethics</b>	<b>KVE-401</b>	<b>Workshop On Inner Development through Vedic Wisdom organized by ISKCON YOUTH FORUM</b>	<b>3<sup>rd</sup> June to 7 June 2020, 6:00 to 7:30 pm. (Webinar )</b>	<b>11 Faculty and 25 students</b>	<b>knowing the inner self with Vedic wisdom</b>
10 .	<b>Environment &amp; Ecology</b>	<b>RAS-402</b>	<b>a seminar on “Energy Conservation &amp; Efficient use of Energy Resources, Environment and Climate Change”</b>	<b>17th October 2019</b>	<b>40 Students of EN Department... ..</b>	<b>educating &amp; creating awareness about energy conservation, saving of power &amp; efficient use of energy and resources</b>





# ANKURAN

The Cultural Team  
IMS Engineering College, Ghaziabad  
brings to you ...



*Groove*

*To*

*The*

# Bollywood

*Flash*  
**MOB**

*Tune!!*



14<sup>th</sup> September 2019  
Saturday

'B' – Block, IMSEC

11:00 am to 1:00 pm

For Enquiries & registrations contact Ishika – 8745829005,  
Shubham – 8987007411 and Vivek – 9457381714











Department of Information Technology organized workshop on "Introspection & Self Improvement with the help of Values & Ethics", on 14th March 2020, in which 35 students from different branches of engineering participated. The program convener was Dr Suman Gupta, Asstt Professor,IMSEC.





INFORMATION TECHNOLOGY  
*Department*

