

## **COURSE OFFERED BY RTMNU, NAGPUR**

Ethical Sciences (BESII-8)

(Total Credits: 02)

### Teaching Scheme

Theory: 2 Hours/Week

### Examination Scheme

Theory

T (I): 50 Marks

Duration of Internal Examination: 02 Hrs

### Unit – I :

- 1) Concept of Culture and Civilization.
- 2) Applied Humanities and Social Engineering.
- 3) Socio-Legal Awareness: Right to Information(RTI), Public Interest Litigation (PIL), Intellectual Property Rights(IPR) & Parents, Lokpal and Lokayukta .

### Unit – II :

- 1) Meaning and Scope of Industrial Psychology and Industrial Sociology.
- 2) Fatigue, Selection and Training of Workers, Motives for Work in Industry.
- 3) Transactional Analysis. 5

### Unit – III :

- 1) Sustainable development.
- 2) Professional Ethics.
- 3) Organizational Behavioral Dynamics: Leadership in Industry.

### Unit – IV :

- 1) Indian Constitution and Federal System.
- 2) Fundamental Rights and Directive Principles.
- 3) Role of Bureaucracy in Modern Society.

### Unit – V :

- 1) Industrial Democracy.
- 2) Works Organization: Power, Authority and Status System; Formal and Informal Organization.
- 3) Industrialization and Urbanization: Study of Slums.

## **COURSE OFFERED BY RTMNU, NAGPUR**

**BEIT303T**

### **ETHICS IN INFORMATION TECHNOLOGY (Theory Credit: 04)**

**Teaching Scheme:**

**Lecture: 3 Hours/week**

**Tutorial: 1 Hour/week**

**Examination Scheme:**

**Theory: T (U): 80 Marks T (I): 20 Marks**

**Duration of University Exam. : 03 Hours**

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**UNIT I:**

**An overview of Ethics: Ethics in business world, Ethics in IT, Ethics for IT professionals and IT users, IT professionals, Ethical behavior, IT professional malpractices, IT users.**

**UNIT II:**

Computer and Internet Crime: IT security incidents: Increasing Complexity Increases Vulnerability, Higher Computer user Expectations, Expanding and changing systems. Introduces new risks, Increased Reliance on Commercial Software with known Vulnerabilities, Types of Exploits, Perpetrators, Reducing Vulnerabilities, Risk Assessment, Establishing a Security Policy, Educating Employees, contractors and part-time Workers, Prevention, Detection, Response.

**UNIT III:**

Privacy: The right of Privacy, Recent History of Privacy Protection, Key Privacy and Anonymity issues, Governmental Electronic Surveillance, Data Encryption, Identity Theft, Consumer Profiling, Treating Consumer Data Responsibility, Workplace Monitoring, Advanced surveillance Technology, Defamation, Freedom of Expression: Key issues, Controlling Access to Information on the Internet, Anonymity, National Security Letters, Defamation and Hate Speech.

**UNIT IV:**

Intellectual Property: Copyrights, Patents, Trade Secret Laws, Key Intellectual Property Issues, Plagiarism, Reverse Engineering, Open Source Code, Competitive Intelligence, Cyber squatting, Software Development, Strategies to Engineer Quality Software, The Importance of Software Quality, Software Development Process, Capability Maturity Model Integration for Software, Key Issues in Software Development, Development of Safety-Critical Systems, Quality Management Standards.

**UNIT V:**

Ethics of IT Organization: Need for Nontraditional Workers, Contingent Workers H-1B Workers, Whistle-blowing, Protection for Whistle-Blowers, Dealing with Whistle-Blowing Situation.

**UNIT VI:**

The Impact of Information Technology on the Quality of Life: The impact of IT on the standard of Living and productivity, the Digital Divide, The impact of IT on Health care costs, Electronic Health Records, Use of Mobile and Wireless Technology, Telemedicine. Medical Information Web Sites for lay people.

**Text Books:**

1. George Reynolds, "Ethics in information Technology" Cengage Learning

## COURSE OFFERED BY RTMNU, NAGPUR

### BECT204T: Social and Ethical aspects of IT

Load	Credit	Total marks	Sessional marks	University marks	Total
3 hrs (Theory) 1 hr (Tutorial)	4	100	20	80	100

1. An Overview of Ethics.
2. Ethics for IT Professionals and IT Users.
3. Computer and Internet Crime.
4. Privacy.
5. Freedom of Expression.
6. Intellectual Property.
7. Software Development.
8. The Impact of Information Technology on Productivity and Quality of Life.
9. Social Networking.
10. Ethics of IT Organizations.

#### BOOKS:

Ethics in Information Technology, 4/e by Reynolds George, Cengage Publisher