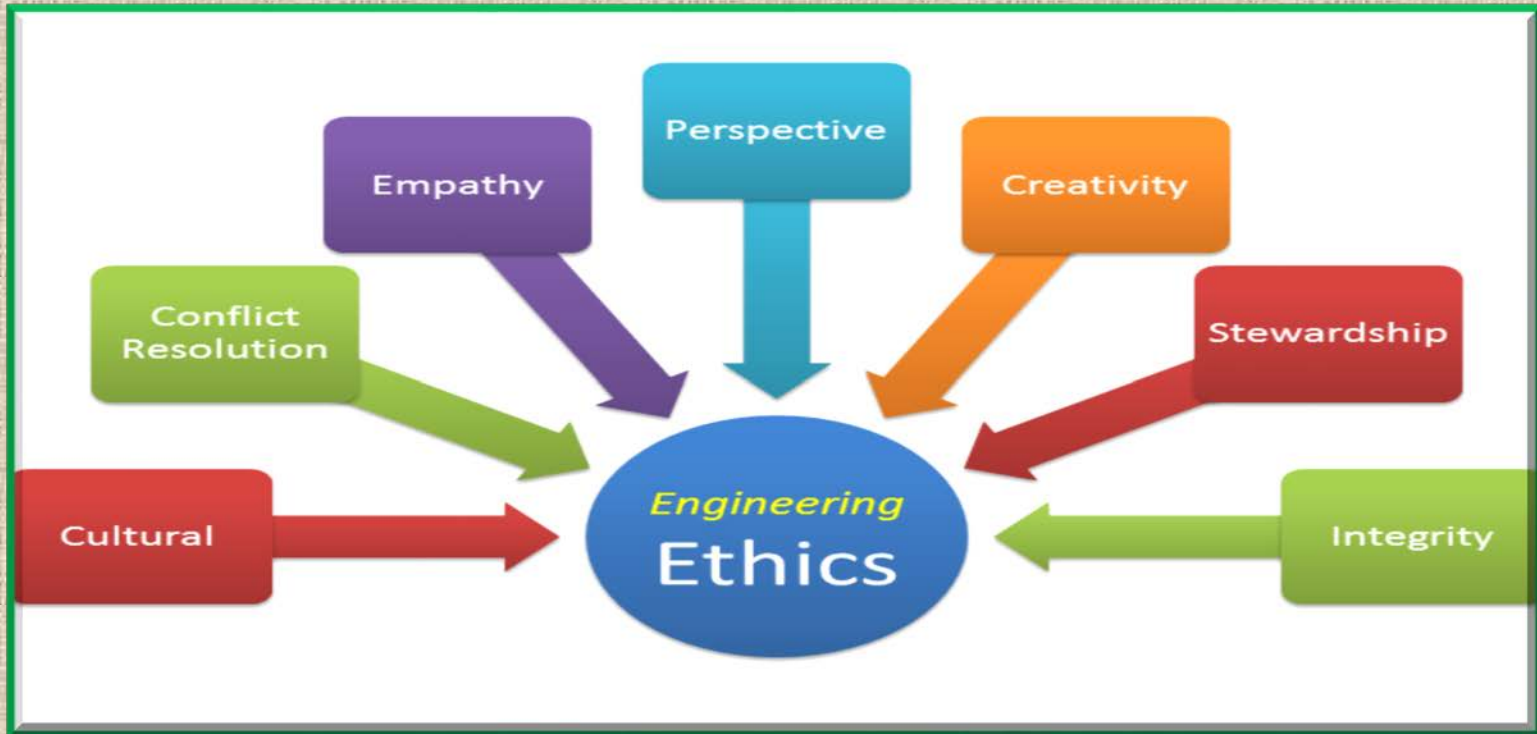


Moral Values in Engineering Profession



Brahmakumaris Presentation

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IMPORTANCE OF ENGINEERING PROFESSION

Engineering profession, compared to other professions, is more accountable and valued profession in society for the following reasons.

- ❖ The role of an engineer, technocrat or any one concern with this profession is
- ❖ To provide and fulfill the basic needs of the people like Roti, Kapda and Makan
- ❖ To extend ease and comforts to the mankind.
- ❖ To upgrade the standard of living of the people.
- ❖ To constantly improve the infrastructure needed for the modern society like, transportation, communication, irrigation, electricity water supply etc.

- ❖ To defuse emergencies and crisis.
- ❖ To protect the people from man created or natural disasters or calamities and to rehabilitate the affected people.
- ❖ Engineering professionals are mainly concern with establishing more and more civilized society, not only in terms of materialistic development but also in terms of moral upliftment and the quality of life.
- ❖ Hence any immoral act or violation of professional ethics by engineering professionals will have very bad and negative effect on the life of the community

TRUE CONCEPT OF PROFESSION

- ❖ A Profession is distinguished from an occupation or trade at least in two Important aspect
 - In the amount of study and training prerequisite to a career in the chosen field.
 - Attitude of the person toward his work, which very much depends upon morality.
- ❖ In this context professionalism then definitely involves a professional morality, a code of ethics or a code of conduct over and above professional competence. The code defines the moral responsibilities of the man to his job and to the public whom he serves.

QUALITIES OF AN IDEAL ENGINEER

- ❖ He possesses extensive formal education in principles and fundamentals of science and technology.
- ❖ He must be adept at analysis and clever at synthesis, particularly in design.
- ❖ He must have a sufficient background in the principles of management and organization so that he can effectively work with others.
- ❖ He must be proficient in communicative skills.
- ❖ He should have the capacity and motivation to continue his education to increase his skills.
- ❖ And at the last but not the least important, especially in the present scenario of engineering profession, is that he must adhere to the human values and basic ethics of the profession, which will determine the quality of life and the level of human well being in the emerging technological society.
- ❖ He should have excellent command on basic engineering skills and disciplines.

WHY NECESSARY TO THINK OF VALUES IN ENGINEERING PROFESSION

Concept Of TQP Or TQI

- The past few decades of the last century saw the evolution of several management concepts. e.g.
 - ✓ In 1960 decade, theory of X and theory of Y became popular
 - ✓ In 1970 decade, 'Strategic Planning Concept' established its importance
 - ✓ In 1980 decade, the concept of 'Total Quality Management (TQM)' prevailed.
 - ✓ In 1990 decade the concept of 'Business process Re-engineering (BPR)' emerged and became popular.
 - ✓ Currently, organizations, worldwide are focusing on "Logistics and supply chain management. "
 - ✓ More over the concepts like
 - JIT - Just In time Techniques
 - ERP - Enterprise Resource Planning have also established their stand.

➤ In spite of all these Management principles, none of them works as effectively as they should be, because now the management experts have perceived that the foundation is not right. The man dealing with the principles has become hollow from the inside

- Hence in the field of management now a new concept of TQP or TQI is emerging.
- The right foundation is the concept of Total Quality People / Person (TQP or Total Quality Individual (TQI))



means

The people with Character, Integrity, Honesty, Morality, Humility, Sincerity, Good values, Positive attitudes, Positive emotions etc



TQI

means

An individual with immaculate character, unimpeachable integrity, unflinching moral values and a firm positive attitude.

Concept Of Emotional Intelligence

- In the recent years management experts and psychologists have also observed that the overall demoralization of human beings and too much of materialistic and egoistic attitude has affected the positive emotions of the people. It has created attitudinal and behavioral abnormalities in a man. Hence in the recent years the concept of emotional intelligence has emerged and has established its stand and importance especially when the people with high I.Q is failing on the floor of the factory or in the field.



What is EI?

- ✓ “Emotional intelligence” a term coined by two American psychologists in 1990 to describe such intangible qualities as understanding one’ s own feelings and regulation of emotions, like self -awareness, empathy, persistence and social deftness, in a way that enhance living
- ✓ Emotional Intelligence refers to the capacity of recognizing our own feelings and those of others, for motivating ourselves and for managing emotions well in ourselves and in our relationships.

...*Danial Goleman*

- ✓ Simply speaking EI is nothing but the skill to handle one’ s own and others emotions intelligently. It is complimentary to technical knowledge and job skills.

➤ What management experts say about EI?

- ✓ Not only is IQ (Intelligent Quotient) a valued criterion for selection, but we also identify potential employees with high EQ (EmotionalQuotient) level.

... *SmithKline Beecham, A pharmaceutical major*

✓ *It is worthwhile to lose a candidate who is brilliant, but who will give trouble “getting along, rather than a person whose skills are average but whose EQ is strong, for he can be trained by us. It benefits the company and the individual in the long run.”*

...Auto Vincent, Vice – President, HRD, Mahindra Ford, Chennai.

✓ *“I would give 70 percent weightage to EQ and 30 percent to IQ”* *...Say many Indian managers.*

✓“Even if the candidate is not very brilliant but is still abler to carry others with him, it is an asset to the company”

...Vice –President, HRD, Crompton Greaves,Mumbai.

- *Now the emotional intelligence, what researchers says, has to do with the M.Q. (Moral Quotient) and S.Q (Spiritual Quotient)*
- *Emotional intelligence can only be enhanced by enhancing moral quotient through spiritual perception.*

Environmental Problems

- *It is well known fact that the today the world is facing the most critical and disastrous environmental problems like Air pollution, Water pollution, Noise pollution, Land pollution, Depletion of Ozone layer, Deforestation, Green house effect, Melting of ice on North Pole and South Pole due to increase in global warming etc*

➤ There are many reasons for this but some of the most important reasons, what some of the experts of this field give, are

- ✓ *Demoralized exploitation of the elements of nature*
- ✓ *Greed and ego of the people*
- ✓ *Selfish motto*
- ✓ *Unhealthy throat cut competition*

In other words pollution problems are due to mental pollution of the people.

➤ It is also the fact that the engineering professionals are very much responsible and concern with the environmental problems

- ✓ *for creating*
- ✓ *for solving*
- ✓ *for preventing*

In this regard also it becomes essential to improve moral values in engineering professionals.

MOST ESSENTIAL VALUES FOR ENGINEERING PROFESSIONALS



INCULCATION OF VALUES THROUGH HUMAN REENGINEERING

WHO IS HUMAN BEING?

On the basis of researches in Metaphysics & Parapsychology in the last few decades human being is defined as...

Human Being = Physical Body of Five Inert Material
+
Metaphysical Consciousness
(The Soul)

The word human is derived from the word
Humus - Means Soil (Body)
Being - Means one's own self
(Metaphysical Consciousness)

CHARACTERISTICS OF METAPHYSICAL CONSCIOUSNESS (HUMAN SOUL)

- It is not physical entity but it is a metaphysical one.
i.e. it is neither physical matter nor physical energy.
- Hence it is dimensionless entity.
- It is a source of conscient energy.
- Therefore the form of each individual conciseness is a point or a dot.
- The main attribute of each consciousness is its eternity and immortality.
- In various Mythologies, consciousness is named as Soul, Ataman, Ruha etc.

FUNCTIONAL POWERS OF CONSCIOUSNESS

MIND

Ability

- To Think
- To Imagine
- To Conceive
- To Desire

INTELLECT

Ability

- To Discriminate
- To Understand
- To Perceive
- To Judge
- To Decide

**The Metaphysical Consciousness
(The Soul)**

RESOLVE (PERSONALITY)

Ability To carry the impression of our own thoughts, understanding, decisions and actions.

Memory → Resolve → Nature → Habits → Attitudes

Types Of Personality

Innate Personality

Purity
Peace
Bliss-Happiness
Love
Power
Knowledge

Acquired Personality

Memory, Resolve,
Nature, Habits,
Attitudes, Instincts,
Outlook, Knowledge,
Experiences,
Talent, Skill etc.

Demoralization Of Human Personality

- Due to ignorance and body consciousness man developed too much of materialistic attitudes.
- Hence vices like sexlust, anger, greed, attachment and ego emerged from the soul and human soul started acting under the influence of vices and started committing sins.
- Along with these major vices the vices like jealousy, hatred, sense of revenge etc also emerged.
- This caused overall degeneration, demoralization of human being and deterioration of life values.

Mechanics Of Downfall Of Human Personality

Virus Of Vices →	Innate Quality	Turned Into
Sex-Lust →	Purity	Impurity
Anger →	Peace	Peacelessness, Tension, Anxiety
Greed →	Bliss, Happiness, Self Contentment	Unhappiness, Selfishness, Misery, Worry
Attachment →	Love, Empathy, Sympathy, Mercy	Partiality, Hatred, Rejection
Ego →	Power	Powerlessness, Weakness, Fear

HUMAN RE-ENGINEERING THROUGH RAJ YOGA MEDITATION

- In spite of tremendous efforts made by social, political, religious or spiritual leaders to rectify this condition – holding innumerable discussions among them and organizing all faith and non-aligned meets and peace conferences, as for the outcome, nothing appears to have worked.
- But Raj yoga meditation has been proved to be the total and gross tool for the complete human re-engineering for the following reasons.
- Raj yoga meditation, as based on understanding of the laws and principles of spiritual science, creates spiritual awareness leading to spiritual perception and elevation, which is essential for inculcation of values.
- Very first step of Raj yoga meditation is to get relaxed physically and mentally which leads to alpha and higher state of mind, which is essential for the transformation of degraded sub conscious mind and for the inculcation of values through positive autosuggestions.
- It is essentially an art of positive and creative thinking leading to the positive attitude and perceptions.

- The very first realization of Raj yoga meditation is self-realization through introversion and introspection, which leads to the visualization of one's original self, which is essential for re-engineering.
- Due to self-realization one gets stabilized in soul consciousness and hence one easily gets free from vices.
- Raj yoga meditation ultimately establishes a love full and purposeful union of the self with the supreme power, which leads to enlightenment, empowerment and enrichment of the self.
- It is a key leading to self re-engineering through self-realization, God realization and world realization.

Major Steps of Raj yoga Meditation

- **Withdrawal**
- **Concentration**
- **Physical and Mental Relaxation**
- **Introversion**
- **Introspection**
- **Positive Self Transformation**
- **Self Realization**
- **Linking up with God**
- **God Realization**
- **Empowerment And Enrichment of Self**

From this discussion we may conclude that if we want that the application and implementation of principles of science and technology be more effective and graceful, engineering professional will have to lead a value based life by keeping balance between science and spirituality.

Great scientist Einstein has also said *“ science without religion is lame and religion without science is blind.”*

OM SHANTI