



INCULCATION OF RESEARCH SPIRIT IN STUDENTS

Dr. I. C. Licyamma

Professor, Social Work Department Srinivas Institute of
Management Studies, Pandeswar, Mangalore, Karnataka

Abstract

To search is the fundamental nature of Homo sapiens. To a certain extent Homo erectus also has this nature. But in Homo sapiens we can see repeated search according to their mental caliber. "Cogitho Ergosum" Decarte declared. I think so I exist. By this he is pointing out, thought is a powerful tool by which we can transform everything in the universe and we can become the masters of this world. Research is the byproduct of this powerful tool – thought. When apple fell on Newton's head he thought why it is not going upward. This thought culminated in the theory of gravitation. It explains all planetary movements. This knowledge came from inside his mind. To make the education student – centred the investigator encourages each student to speak. It is done in the class or outside. Through this process of gradual encouragement and motivation they improve their confidence and sharing capacity. Through this process the investigator finds out the interest of the students and motivates them to take small problems and discuss solutions. Through this method they get interest in greater problems. They are also informed about the need for research and slowly they are motivated to do research at post graduate level and at doctoral level. Teaching alone is not enough. We have to draw knowledge through research ideas and make their mind vibrant. They must be trained to cut and paste mass media information in a research centred way. Symbolically it is arranging the information learned through T.V., Internet etc. properly. The paper will be dealing with 1. Introduction, 2. Brief Review of present syllabus, 3. Attitude change of teachers towards students, 4. Since only 40% of lecture method goes to the head other techniques also should be utilized, 5. Encouraging public speaking, group discussion, leadership experience, interview by students of students, reading habit, case study of few world renowned people etc. 6. Making the students conscious about the enormous divine energy hidden in them and stimulate their confidence in different ways. 7. Making education a pleasant experience.

Index Terms: Powerful Tool, Thought, Transform, Vibrant & Motivation

Inclusion of Research Spirit in Students:

Research is the outcome of basic instinct in man. Curiosity is the dynamic impulses that promote research. Speed, accuracy and timing is essential in any research work. This inner instinct is projected by certain pressures, for example Second World War pressurized research to find innumerable inventions which changed the history of mankind. All drawback of India must turn to pressurize research and new inventions by which our country could outwit all other nations. We have a great past of about 10,000 years. When all the countries of the world remained in barbaric stage India was in the zenith of culture and civilisation, Mohan Jadaro and Harappa excelled all other civilization of that time, Sanskrit developed to such a powerful and scientific way. Modern computers also use its basic language as Sanskrit. All scientists searched a basic language for Computers they failed in using all other languages. Ultimately they found Sanskrit is absolutely suitable for this purpose.

Finding of zero emerged from a yogic mind through his yogic intuition and research. Invention of ZERO is more powerful than any other invention even atomic power or any other. It paved the way to digital world which controls the entire world of science and technology. It took millions and millions of years of evolution which

produced different types of plants, birds, reptiles varieties of thousands and thousands of mammals and finally apes, i.e. Homo erectus (gorillas) and Homo sapiens (man). From the mammals monkeys emerged. All the mammals are developed from a small mouse which evolved into different types of mammals like cow, buffaloes, goat, pig and that later developed into elephant. So the base root of elephant and man is rat. Yogis understood this and they created a great symbolism of Ganapathi whose shape is man and elephant and Ganapathi's vehicle is rat. Our brain is not able to perceive higher realms of reality. But when it is put into symbols intuition will develop and they will get higher knowledge. It means descending of higher knowledge in him. When this higher knowledge descends in him there will be an ascent. So they invented the Symbol of Sudarshana chakra. Israelites also gave very great importance to this Sudarshana chakra. It is two triangles intersecting each other. One is upward and the other is downward. Through meditation of this chakra innumerable knowledge and psychic power will be attained by man.

Lord Krishna was Tharakabrahma who attained the maximum point of 16 kalas. He wore this chakra and did many miracles with that. These are all symbolic and only great saints can understand little bit of this. Infinite is the only reality finite is only the fall out product of our mind. In the physical sense also we can understand this. Arithmetical numbers is a reality which lies in infinite. Our yore yogis told

Om purnamathapoornamithem

Poornathpooranamuthchyathe

Poornsyapoornamathayapoornamevaavashisyathe

Om santhi santhi santhi.

This is also perfect-that is also perfect. If we remove a speck from the purnam that is also perfect. For God yogis put the term that the meaning of which is that we are not able to understand the absolute entity. So they put it as "tat". The physical world is a flex rotation is taking place. Through this cyclic process all physical world evolve i.e. stars and planets in infinite numbers. Our sun belongs to one Milky Way. This is also very small. Infinite no of milky ways are in this infinite space. Through the cyclic process of evolvment they are coming into existence and dissolving into the space. At certain times Milky Way's compress into dark holes even light waves cannot pass through them. This stage is mysterious and cannot be understood by common sense. Through our sense organs we perceive these physical entities when we analyse through logical sense, what we perceive is only an illusion like a cinema. Different still pictures run in a particular way and it will dupe our sense of sight and we will feel walking, running etc. in a film. Our retina can hold a picture 1/16 of a second. It appears as moving. So through process we perceive this physicality what is real is beyond our sense. So in reality it is a neutral entity which is beyond our perception. Through theory of Neutral monism Bertrand Russell established this. He asserted the theory of illusion. Shri Sankaracharya also proposed the same theory of illusion. The difference is only this – that Russell was an atheist –Sankara was a theist Russell stated that this universe is infinite –no body created it. But Sankara argued that God created this universe and God is only truth and this universe is untruth. Brahma sathyajagatmythya.

Veda means to analyse things. Vedanta means the conclusion of this analysisation i.e. reached the absolute. The listener may be in wonder and confusion when he hear all these .When a person who has got the power to find out water resources under the earth and when he points out a water resource and the listener wants immediate water is it possible.? To find it out patiently he must undergo the process of digging then only he can reach water resource. So the process of undergoing work is very important .So

any knowledge can be reached by systematic research. Our yogis did this and found many things of the mystery of this existence. They told the power contained in a tiny sand can move Himalaya. They found the atomic power thousands of years ago. They used their research and found the ultimate realization not for earthly gain like modern science. The modern science benefited tremendously from their research. Zero is the gift of India by yogis to the modern world digital system. We are indebted to them. Why I am telling these entire past heritage and culture is to promote research spirit in our students. The yogis are a great inspiration, Aryabata discovered planetary movements. Susrutha and Charak were great doctors. Circulatory system and the importance of brain were discovered by them thousands of years ago. For the digestion of all these facts they mixed it with legends and mythology. To create interest in learning they provoked curiosity through these legends and myths. Our great epics Mahabharata and Ramayana are symbolic. When Vyasa wrote Mahabharata he told that it is written for ignorant and unenlightened people. When we give some bitter medicine to children we add honey or some sweet. Vyasa used the same technique .By provoking curiosity in them gradually they will develop skill and knowledge lot of resources will descend on them and enlighten them. Teachers must teach students to open all senses, such as seeing, touch, smell, hearing, taste, sight etc,. Help them to be open to observe everything, and then only research will develop. Edison had this ability while talking he noticed the movement on a hanging needle-repeatedly he observed this and that led to the finding of Gram phone. He recorded the sound on a wax plate and by the help of the needle passing through the wax Plate groove he reproduced the sound. This observation and curiosity produced hundreds of findings and now we are benefited by that. Electricity, bulb are all his findings. For finding the electric bulb he tested thousands of materials and found out the solution –an alloy of tungsten filament made electric bulb a possibility. To arouse curiosity in students for research is very important. When the curiosity will be aroused it will spring like a lion. In childhood all the teachers considered Einstein an idiot. When his uncle taught him Euclid mathematics systematically and methodically it aroused his curiosity and he became a great scientist. He propounded the theory of Relativity with the equation $e= mc^2$ that means energy =matter into square the velocity of light. It was a great finding ever made by human mind. He used his mind only for research. His tools were paper and pencil.

Students must understand the importance of mind power. This must be accumulated and stimulated by previous findings of great scholars. Einstein's findings paved the way for atomic fission. Matter is only a condensation of energy. When the atoms are split using scientific technique its work power and destructive power will be terrific and beyond description. Work power is very good. It is pure. It can serve humanity like anything. Destructive power is diabolic it can do great harm to him and it may lead to complete destruction of mankind. In order to promote research we must inculcate certain abilities in students -mathematical ability, linguistic ability, analytical ability, comparative ability, keen observation, persuasive ability etc. Patience is also very important. They must be trained in patient persuasion to acquire knowledge. All branches of maths are very important in research. Basic knowledge and advance knowledge must be tied together. From the primary level to higher level basic knowledge must be thoroughly imprinted in their mind. Earlier I mentioned about language ability .To convey idea to another person language is very important.....

Using precise and accurate words can be gained only by systematic training – correct and beautiful language with romantic concept will flow smoothly with only a powerful language. This will create beautiful and effective communication. The ability of

observation must be stimulated in students by teachers. From observation they will get ideas from the micro to the macrocosm level. This observation skill must be planted. Observation power must be put in the mind and repeatedly analyzed, thinking and rethinking. This will take them into higher ideas.

These ideas will lead them to wonderful findings. Always they must ask what, how and why. These training will make them a mature researcher.

To search is the fundamental nature of Homo sapiens to a certain extent homo erectus also has this nature. But repeated search is very rare in Homo erectus. But in Homo sapiens, we can see repeated search according to their mental calibre. When the society develops into a complex stage the method of research become very complex and advanced. When gorilla used its palms in different ways its ability gradually developed. When it used a stick to pluck the fruit from a tree its mental ability also developed. To break a nut it used stones gradually it developed tools for fighting for plucking etc. Through evolution it became man. In man only fingers can be easily touchable to thumb. Physicality matter is divided into Panchabhoothas. Akasha (sky), Vayu (air) Agni (fire), Jala (water) small finger represents pruthvi i.e. minerals (bhumi), the crudest entity. Thumb represents (akasha) the index finger represents vayu middle finger represents Agni ring finger represents jala (water). Man is made with 5 fingers for the smooth movement. Inpanchabhootha man is the only being who can control panchabhoothas. Socrates made man to think and the basis of science and philosophy developed. Analytical and methodological thinking developed.

“Learning gives creativity
Creativity leads to thinking
Thinking provides knowledge
Knowledge makes you great”

Aristotle was inspired by Plato who was the disciple of Socrates. He put name for different branches of science. “Cogithoergosm” Decarte declared - I think so I exist. It is pointing out that our existence is based on our thought. It is a powerful tool by which human beings achieved many things and became the master of the world. To inculcate this powerful –thought- in students is very important. Research is the by-product of systematic thought. Without a research mind education will not develop. When apple fell on his head Newton thought.

Why it is not going upwards. He thought and found the theory of gravitation. From that he developed mechanics the main branch in physics. By this he explained all the planetary movement. This thought emerged from his thought inside his existence. Apple falling on this head is only an outward stimulus. All students must inculcate this propensity. By this they can do more research and find new things. Gradually research will be part of their life.

Teaching alone is not enough. The teacher must inculcate innovative research oriented ideas and make their mind vibrant. Students must be trained to cut and paste mass media information learned through TV, internet etc. properly. The concept is that students are banks and the teachers deposit the knowledge into that bank, the investigator thinks will put the students too depending on the teachers. The facilitator tries to involve the students in speaking. This is done through encouraging the weak student also to speak and write about themselves. English is the window to the world ‘the investigator tries to motivate them to speak whatever possible using that language. Whatever mistake they make he does not discourage the students’.

To make education student centred the investigator encourages each student to speak. It is done in the class or outside. Through this process of gradual encouragement and motivation they improve their confidence and sharing capacity.

In Suma theological St. Augustine told the importance of cause and effect. Without cause there is no effect .i.e. A carpenter makes a table. He is the cause of shaping the wood into a table 'Likewise God caused this world. When we think deep it is out of logic what was the material to transform this universe. So this logic is outwitted. So here the Hindu philosophy is more correct. He projected this world from his own existence. So the correct word is Srushti means flow 'Ru-kara means agni SHA and SSA are the same according to Sabtasastraie science of sound. Here under SSA Kara D Kara exist and the creative sound E kara added on it. So Srushti is flow of emanation from his thought fire. There is no logic in cause and effect theory in infinite. The research spirit of yogis yoked with intuition explained everything perfectly. So every researcher must develop intuition power through meditation .There are different methods of meditation Laya yoga, Nichintha yoga (chithavruthiniroth yoga) Mantra yoga, bakti yoga, karma yoga jana yoga all these yoga path are not contradictions. Every river at last join the sea for all systems of yoga ultimately leads to the infinite existence. So intuition can be developed by systematic practice of above mentioned yoga. Ramakrishna Paramahansa got all these intuition and psychic power through devotion to Kali and he transferred it to Vivekanda. He revolutionized spiritual movement in India and the world. Ramakrishna Paramahansa was not an educated person. Through intuition he developed all these knowledge and power. Kali and Siva Sabta are wonderful conception in Hindu philosophy Kara represents Akasha La kara -La kara same. That represents dance, the creative counterpart in supreme. Siva -Kali projected this universe in the sky by dancing vibrations. It is a Leela of Kali. Infinite Leela of Kali without any cause. I am narrating all this for cultivation of intuition for research. Intuitive power gave zero to the world and much other precious information. So our ancient philosophy must infuse in us the spirit in higher research. We must understand our ancient potentialities. If we do not understand these we are mere idiots. May this treatise be concluded with a sloka.

Asathomasatgamaya
Thamasomajyothirgamaya
Mruthormaamruthamgamaya
Om Santi Santi Santi.

References:

1. Abdul Kalam with Sivanthu Pillai. Envisioning an empowered Nation technology for Societal Transformation –Tata McGraw Hill Publishing Company Limited, New Delhi, 2004.
2. Abdul Kalam, Ignated Minds – Unleashing the power with in India Penguin Books, India PVT LTD, New Delhi - 2002.
3. Bertrand Russell. The conquest of Happiness, George Allen and Unwin Great Britain, London 1985.
4. Jawaharlal Nehru, The Discovery of India, Penguin Books, Community centre, Panchasheel Park, New Delhi - 110017, India.
5. Kasinath H.M. and Nagaraj P. Vidyaniidhi Prakashana, Gadag,
6. Ramesh Menon. The Mahabharatha- AModern Rendering. Rupa Company 7/16, Ansari Road Daryaganj, New Delhi, 2004.
7. Vivekananda Swami. The Complete works, Advaita Ashrama Delhi Entally Road. Calcutta - 700014 -1989.