



Gujarat Technological University

Center for Technology Education, Public Policy and Universities of the 21st
Century (GTU-CeTEPU-21)

Minutes of Meeting: An Introductory Session on "Bharatiya Knowledge System in the Field of Science and Technology"

A Meeting was organized by GTU-Centre for Technology Education, Public Policy and Universities of the 21st Century (GTU-CeTEPU-21) on 8th June, 2014, Sunday at GTU, Chandkheda Campus.

Around 25 Faculty Members from different Branches of Engineering, Management and Humanities, DSTU committee Members and GTU officials have participated in the meeting.

The Meeting was organized with an objective to understand the Basic Principles of BHARATIYA PHILOSOPHY OF SCIENCE AND TECHNOLOGY with the Examples of actual Scientific and technological developments from ancient literature. And a further to have a brain storming session on how to incorporate this subject in to the Technological Education System to encourage faculty members towards excellence.

Session –I:

On behalf of GTU, **Dr. Rajesh Khajuria**, Director - SMJV's CKSVIM welcomed all the experts namely:

- Shri Mukul Kanitkarji, Joint Organising Secretary, Bhartiya Shikshan Mandal
- Dr. Vaman. V. Gogate, Retd. Principal, College of Education and General Secretary
- Shri. Atul Kothariji, joint secretary of the Shiksha Bachao Andolan Samiti

And he also briefed about the Bhartiya Knowledge System with an examples.



After welcoming the guest he requested to **Dr. Ajitsinh Rana** (Committee Member DSTU Research Project) to give an introduction of the experts.

Dr. Ajitsinh Rana have explained the objective of the Bharatiya Shikshan Mandal and introduce all the present experts and welcome them with the memento as symbol of gratitude for coming at GTU. After that he requested shri Mukul Kanitkarji to take over further and explain the participants about the

subject.

Shri Mukul Kanitkarji, Joint Organising Secretary, Bhartiya Shikshan Mandal shared his views by giving presentation on **“AN INTRODUCTION TO BHARATIYA KNOWLEDGE SYSTEM IN THE FIELD OF SCIENCE AND TECHNOLOGY”**. He started with the purpose of the Proposed Topic that we should impart knowledge to the students about the ancient Bharat and telling them that what we called it science today exists with us long back in the ancient time. There is need to change the attitude in the people about the scientific thinking and develop the futuristic outlook for the solutions to the modern problems. He focused that the Integrated approach should be developed towards development i.e. Bharatiya way of life that defines its approach towards science and technology. We should infuse in the students the sense of the aesthetic values and art in technology which is environment friendly, sustainable and that provides long lasting benefits by optimum utilization of natural resources having no side effects and benefitting the masses. Shri Mukul kanitkaji describe about the KALCHAKRA – about the karma and time cycle and decentralized applications- Small is divine and said that the society should be knowledge driven. In the part II he ended by giving various “Examples of actual Scientific and technological developments from ancient literature”.



Dr. Ajit Sinh Rana thanked Shri Mukul Kanitkarji for his enlightening speech and asked to Dr. Akshai Aggarwal to say few words on this topic.

Hon. Vice-Chancellor Dr. Akshai Aggarwal very briefly shared about the research work carried out by



GTU under the DSTU (Designing Structure of Technological Universities) research project with explaining existing university system of India. He said that there is need to change the mind-sets of the teachers in India and encourage them to believe in themselves. He also emphasis that university need to apply every possible means to motivate the faculty members to build their confidence level. He further said that we should recognize other's work but at

the same time we have to understand that we also are in the position to do the same and capable to get admired for it. By Focusing on the importance of the subject he said that we at GTU shall make effort to introduce this subject in the bridge course for the GTU Degree Engineering Stream.

Shri. Atul Kothari Retd. Principal, College of Education and General Secretary shared that there should be a balance between science and technology. He talked about the Hinduism Encyclopaedia and Vedic Maths. He then gave the example that a student if asked to study the maths and to do problem sums feel bore as against the student ask to do Vedic maths. He enjoys doing Vedic maths for hours. There should be enjoyment in whatever or whichever work you do. Environment and atmosphere should be given to the faculties in order to make the change. We should arrange workshop for the teachers in order to bring in new ideas of teaching. He then ends his speech by remarking that now education system has to be change.

Session –II:

In the Post Lunch Session **Dr.Vaman V. Gogate** talked about Aryabhata, Copernicus Galileo and Bhaskaracharya & Lilavati and Recurring and Non- Recurring things and said that how the doctor takes the hypocritic oath before starting its job, the same should be taken by the students at the

commencement of course and before starting the practise. He then said that the syllabus should answer the following things:

1. What are the objectives to introduce this paper at this level? This should be mentioned categorically (Objectives for the teachers, students)
2. After studying such type of material, what behavioural changes are expected to occur in the student?
3. Need to Study History of “History of Science”, when, how it began in the Indian educational scenario.



After the speech of the Dr. Vaman V. Gogate there was an Interaction between the faculties and experts for incorporating the subject of Bharatiya Knowledge System in the Field of Science and Technology in the Bridge Course of the Bachelor of Engineering students. If subject is incorporated then it was decided that “Train the Teacher” (FDP) Program shall be organised for the faculties who teaches bridge course.

Entire meeting was very interactive between the experts and faculties.



After that Dr. Ajitsinh Rana and Ms. Krutika Raval thanked all the experts on behalf of GTU for their enlightening speech and Inputs. They also thanked all participants who enthusiastically participated in the meeting and put forward their suggestions.