



SARVAJANIK EDUCATION SOCIETY

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Report of the
UGC sponsored State Level Workshop
on
"Fundamentals of Quantum Mechanics"

The Department of Physics of our college had organized a UGC sponsored State level Workshop on "Fundamentals of Quantum Mechanics" on 13th February, 2017. It was attended by 156 students and 59 faculties from all over the state. Prof. Ajoy Ghatak, Professor Emirates from IIT, Delhi was invited as a Resource Person.

The chief guest of the inaugural function was the Pro-Vice Chancellor, Dr. B. M. Rawal, of VNSGU - Surat while Dr. Kirit Dumasiya, Chairman Local Administrative Committee of the college was the Guest of Honor. Dr. Dumasiya delivered the welcome speech in which, he talked about some historical aspects of Quantum Mechanics. He also showed his interest in knowing about the subject. Then Prof Viresh H Thakkar, The Coordinator of the workshop informed about how this particular theme was selected for the workshop. He also narrated some milestones in the development of Quantum Mechanics and mentioned the scientists who have contributed in it. It was followed by the address of Prin. Pruthul R. Desai who also introduced the Resource Person and the Chief Guest of the function in his characteristic manner. The guests were felicitated with book bouquet. The Chief Guest of the function, Dr B M Rawal, in his presidential address reiterated the importance of such programs for the benefit of the students. Even though he is a chemistry professor, he announced that he will attend the lecture of Ghatak sir since Quantum Mechanics is also a part of their curriculum and he wants to refresh his knowledge and wants to become more acquainted and he meant it.

After the inaugural function, the technical sessions started. In his first lecture, Prof. Ajoy Ghatak began from the history of wave theory of light, gradually



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introduced the students the then need of new theory to explain certain phenomena like black body radiation, photoelectric effect etc. Then he explained the historical aspects of Quantum Mechanics in brief.

In the post lunch session, he continued further with the development of Quantum Mechanics. He mentioned the contributions of the physicists like Max Plank, Albert Einstein, de Broglie, Max Born, Erwin Schrodinger, Dirac, Heisenberg etc in the development of the subject. Although the subject of Quantum Mechanics is considered to be an abstract one and many-a-times the students feel boring, but Ghatak sir in his characteristic style delivered the lecture in such a manner that nobody felt so. In fact, he gave some live examples of his career and presented them to the audience in such a way that the environment was quite humorous and wonderful throughout the whole session. All the participants had great time. The students interacted directly with Ghatak sir at the end of this session.

In the last session of the day, i.e., in the valedictory function, the students as well as the faculty participants presented their feedback. It was unanimously stated by all that the program was quite fruitful and helpful to understand the basic aspects of Quantum Mechanics. All of them insisted in a single ton that more and more such programs should be organized on the regular basis. Prof V H Thakkar extended the vote of thanks at the end of the program.

Overall, it has been wonderful experience for all.

Thakkar
(Prof. V. H. Thakkar)

Organizing Secretary / Convener

P. R. Desai
(Dr. P. R. Desai)

Principal

P. T. Sarvajanik College of Science
Surat.





Glimpse of the Programme