Report on
Summer Innovation Boot Camp

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Government Engineering College, Valsad

17th to 28th June, 2019

About Summer Innovation Bootcamp

Government Engineering College, Valsad has organized a Summer Innovation Boot Camp for school children of Valsad district. The objectives of the boot camp are as under.

Objectives of the Bootcamp:

- The goal of the summer boot camp for school children is to introduce the concept of flow-processing platform of Student Star-up& Innovation Policy of Government of Gujarat. It was also instantiated to sensitize, realize and network the children at critical points in the SSIP.
- In today's education innovation even becomes more important for developing the next generation of innovators and creative thinkers. It ignites a passion for learning and provides students a reference tool that will develop the economy of future India.

Planning of Boot Camp

Institute received the intimation from Education Department, Gujarat Government about organizing summer boot camp for school children at this institute. In this context Government Engineering College, Valsad met the District Education Officer, Shri K. F. Vasava and nearby school principals for planning and execution of boot camp for school children of Valsad. As there was vacation period at schools, according to the suggestion of District education officers and Principals of school, it was planned to organize during third and fourth week of June 2019.

Inaugural of Bootcamp

For the formal inaugural function of the Bootcamp DEO Valsad, Principal of B. K. M. Science College, Principal of Shah N. H. Commerce College, Principal of Shah K. M. Law College and Principal of Government Polytechnic Valsad along with some school principals were invited.

Expert session on Make in India and Innovation

Innovative motivator Mr. Srinivas Chamarthy was invited as speaker of the day. During his both the sessions Idea, Innovation, Make in India, Skill India, Government Schemes for promoting start-ups and innovations in India were delivered. Students were encouraged for doing critical thinking to solve the real life problems by innovation. There was good interaction and queries from audience with involved participation of the students.

Keynote address by Dr. V. S. Purani.

Our Principal, Dr. V. S. Purani explained the objectives of the SSIP as well as Bootcamp. He also inspired them by sharing with them the information about the SSIP fund received by the institute and the process involved in the selection process of POCs of the applicants.

Activities at Bootcamp

Generating Creative Ideas:
Empty water bottle was placed in front of students and they were given a time of two minutes to have a thought on number of ideas they can build with bottle.(significance of these concept is two improve thinking and imagination.) other two minutes mentor took for scalable ideas.

SSIP coordinator Prof. K. L. Moakariya

Prof. Dhaval Barot interacting with students

Importance of innovation for nation:
The global demand of innovative minds and implementable ideas is prime focus of any country. In line with this the concepts of Make in India skill India with small examples were explained to the school students and got wonderful replies from them also.

Brain storming sessions:
Few real life problems of society were narrated to school children just like saving of water, saving of agriculture crop from animals during night, saving energy in classrooms by small innovative ideas with automation, better ways of renewable energy utilization, rural transportation etc. Students gave their ideas for possible solutions with active participation.

Prof. R. C. Malan HOD, A.S.& H., GECV

Prof. Rahul V. Prajapti, A.P. (Chemical Engineering)

Innovation through demonstration:
Videos of small kids and technical presentations were shown to the school students for inspiration. How the idea was turned into innovation was discussed and obstacles faced for such innovation was also explained. Students raised their queries and our experts explained the possible solutions to sensitize them for better idea exploration.

Demonstration through kits and components:

Students were given some basic tasks for preparing any useful material from available things provided to them. Many of them prepared excellent innovative objects and models. They put their ideas with enthusiastic thinking to convert ideas in to models. one of them made tank from waste material.

Prof. J. A. Jadav A. P. (Electrical)

Prof. N. I. Patel A.P. (Electrical)

Entrepreneurship through innovation:

Two counter parts of startup, entrepreneurship and innovation were explained to the school children with some examples of existing startups. Students were guided for developing profitable creative innovations to convert them in to business model. Students also took keen interest during the session.

Innovation and Environment:

For the betterment of our life the need of fresh environment is basic requirement. On this theme our faculty member encouraged students to bring out some good ideas from students to develop eco-friendly technologies for getting solutions to pollution. Students suggested many ideas to keep the environment clean, making fresh air and cleanliness.

Prof. M. H. Patel A. P. (Environmental)

Prof. J. M. Panchal, A. P. (Mechanical Engineering)

Science, Technology and Innovation:

Development of technology from the preliminary scientific laws helps to make human life easier. Based on this fact our faculty member explained about the conversion of simple science rules in to useful appliances for day to day life. Students also participated with their own views for making life easier.

Sessions aranged at different schools

Science, Technology and Innovation:

In order to expand the SSIP boot camp activities some lecture sessions were arranged at different schools. Our team members visited the schools and delivered the presentations and nourished the young minds towards the goals of Bootcamp. All the sessions were very interactive and well appreciated by school children, teachers and authorities. Detail of sessions is shown in table below.

Details of session conducted for school students

Sr. No.	Name of School	No. of Students	Date of session	Name of speaker/Faculty	Designation
1	Sheth R. J. J. School, Valsad	26	17-06-2019	Prof. D. T. Barot Prof. M. H. Patel	A. P. (Civil) A. P. (Env)
2	Sheth R. J. J. School, Valsad	25	17-06-2019	Prof. D. T. Barot Prof. S. K. Patel	A. P. (Civil) A. P. (Mech)
3	Vallabh Ashram M.G.M Amin & V.N. Savani School, Pardi.	136	18-06-2019	Prof. N. I. Patel Prof. J. M. Panchal	A. P. (Ele) A. P. (Mech)
4	Shree Kusum Vidyalalya, Valsad	237	19-06-2019	Prof. K. L. Mokariya Prof. R. C. Malan	H.O.D Elect H.O.D Gen
5	Bai Avabai School, Valsad	186	20-06-2019	Prof. K. L. Mokariya Prof. R. C. Malan	H.O.D Elect H.O.D Gen
6	Atul Vidhalaya Valsad	64	26-06-2019	Prof R V Prajapti Prof J A Jadav	A.P Chem A.P Elect
Total		**674** Students			

Feedback of students and teachers

The Bootcamp was organized as a part of its' impact creating efforts and also to gain feedback and validate its' concepts and solutions for the real life problems. For this purpose during two weeks many types of activities were composed for different school children as per their knowledge level. Many students and their teachers found these bootcamp activities much more sensitizing and convincing the students to promote Student Startup & Innovation Policy (GoG).

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