



Gyanmanjari Institute of Technology
Sidsar Road, Bhavnagar.

Department of Mechanical Engineering

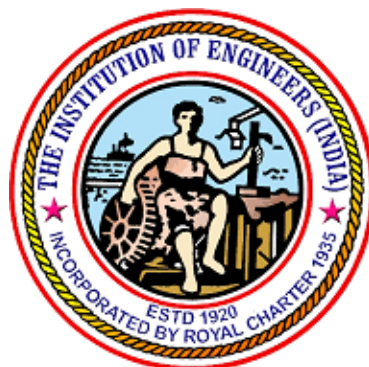
An Expert Talk on
ISRO A Glorious Journey to
Space

20th September, 2021

At

**Gyanmanjari Institute of
Technology, Bhavnagar**

**Jointly Organize with Gyanmanjari Institute of
Technology and Student Chapter of The
Institutions of Engineers India (Mechanical
Wing of GMIT)**



Coordinator

Prof. Niraj Patel



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Acknowledgement

We are thankful to our honorable Principal, Dr. H. M. Nimbark and Head of the Department Prof. K. B. Khiraiya and our faculties who have fulfilled the need of this expert talk to enhance the knowledge about space technology.

We are especially thankful to the expert Mr. Jayant Joshi, Retired Associate Director, ISRO, Ahmedabad to spend his valuable time for our students.

We are also thankful to Prof. Anish Vora, Head, Electrical Engineering Department, Gyanmanjari Institute of Technology for his valuable guidance to make this event successful.

We are also thankful to The Institutions of Engineers (India) for providing platform to arrange this kind of industry visit.



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Information

First of all Prof. Anish Vora has given introduction of our today's expert Shri Jayant Joshi sir who is retired associate director, ISRO, Ahmedabad. He said that it is our privilege to welcome Jayant sir and we are grateful to you that you have accepted our invitation to conduct the session related to journey of ISRO.

Then Jayant sir started his session and he talked about history of ISRO. He said that India decided to go to space when Indian National Committee for Space Research (INCOSPAR) was set up by the Government of India in 1962. With the visionary Dr Vikram Sarabhai at its helm, INCOSPAR set up the Thumba Equatorial Rocket Launching Station (TERLS) in Thiruvananthapuram for upper atmospheric research.

He also informed that Indian Space Research Organisation, formed in 1969, superseded the erstwhile INCOSPAR. Vikram Sarabhai, having identified the role and importance of space technology in a Nation's development, provided ISRO the necessary direction to function as an agent of development. ISRO then embarked on its mission to provide the Nation space based services and to develop the technologies to achieve the same independently.

Throughout the years, ISRO has upheld its mission of bringing space to the service of the common man, to the service of the Nation. In the process, it has become one of the six largest space agencies in the world. ISRO maintains one of the largest fleet of communication satellites (INSAT) and remote sensing (IRS) satellites, that cater to the ever growing demand for fast and reliable



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communication and earth observation respectively. ISRO develops and delivers application specific satellite products and tools to the Nation: broadcasts, communications, weather forecasts, disaster management tools, Geographic Information Systems, cartography, navigation, telemedicine, dedicated distance education satellites being some of them.

During his session he explained about different components of rocket and he also discussed about how the satellite is launched in the space. He also discussed about different process parameters to be considered during the operation. He discussed about role of the engineers of different branches such as mechanical, electrical, electronics, computer and I.T etc. He has also shown the real materials which is used to build the satellite parts and also given the specifications for the same.

At the end of the sessions students have asked different questions to jayant sir and solve their doubts about space technology. Finally there was a valedictory session and Prof. Anish vora sir has given a gratitude to Jayan Sir to encourage the students to build their career in space technology.



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Snaps of the Session





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