

VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE – Chandkheda

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report on One Day Workshop on Satellite Receiver (NavIC) on 11/08/2017

Department of Electronics and Communication Engineering at Vishwakarma Government Engineering College, Chandkheda has organized one day workshop on “Satellite Receiver (NavIC)” in collaboration with SAC (ISRO), Ahmedabad on 11th August-2017. The objective of this workshop is to bring awareness among faculty members of engineering colleges in Gujarat about our own Indian Navigation System NavIC (Navigation with Indian Constellation) so that students can be motivated and guided by faculty members to take up projects and research on NavIC.

Thirty faculty members from different engineering colleges of Gujarat had actively participated in the workshop. Experts from ISRO were invited to deliver talks as well as hands on session on NavIC receiver. Inauguration ceremony started with prayer and lighting of lamp. Prof. R. A. Thakker (Head EC Department) delivered welcome speech and briefed about objective of this workshop. Prof. R. K. Gajjar (Principal, VGEC – Chandkheda) talked about various recent activities of the Institute, and importance of navigation system in our day-to-day life. Dr. Subroto Mukherjee, Associate Academic Dean, Institute of Plasma Research, Ahmedabad was the Guest of Honor, and he briefed participants about various ongoing projects of IPR including association with TEQIP-II Institutions in the state, and also importance of Plasma Science. He mentioned about how academicians and students can collaborate with IPR to carry out research work and contribute in ongoing projects of IPR. Shri. N. M. Desai, Deputy Director – SAC, ISRO was the chief guest of inauguration session. In his speech, he briefly discussed various past and recent space achievements of SAC, and appreciated initiative taken by VGEC to host this workshop on NavIC.

Shri. N. M. Desai, in his talk, started with introduction of our Indigenous Satellite Navigation system IRNSS (Indian Regional Navigation Satellite System) and NavIC receiver. He mentioned that India is the fifth country in the world to develop its own navigation system. He described issues while relying on and using Navigation system offered by other country, especially, during critical time such as war (e.g. Kargil War). That was, basically, a motivation factor for their team to develop our own NavIC system to make India independent in the field of navigation. He also explained numerous applications of NavIC system such as in military services, alert system at unmanned crossings in railways, weather forecast in coastline area, house hold applications, etc. He also explained GAGAN (GPS Aided GEO Augmented Navigation) system and its applications as well as seamless integration of various such systems across the World.

Mr. Nishkam Jain and Mr. Y. R. Patel from SAC-ISRO delivered hands-on session for NavIC receiver. They demonstrated working of NavIC receiver and its usefulness to identify precise location using seven different satellites installed for navigation purpose.

Photographs:



Innaugration Function



Expert Session



Hands on Session



Certificate distribution