In the view of golden jubilee year Devi Ahilya Vishwavidyalaya, Indore, has been organizing a lecture series program in the year 2014-25. In this lecture series Institute of Engineering Technology DAVV organized a lectures of Er. Rajiv R. Chetwani and Dr. Yogesh Singh Chouhan, on 30/10/14, on the topic **"Verification & validation strategies for space craft on board software"** and **"Semiconductor Industry-Challenges and Opportunities"**, under the theme Socio Technology Management for future.

Er. Rajiv R Chetwani is one of the architect of Mars Orbiter Mission (MOM). He is division head, systems reliability group, ISRO Satelite Centre, Banglore. He is alumnus of International Space University. He has various copyrights to his credit. He is nominee in "The software & systems Engg. Sectional Committee" by Bureau of Indian Standards.

Engineer Rajiv R Chetwani gave introduction on spacecraft system and various types of spacecraft. Various subsystems of spacecraft were discussed which are very important to know how space crafts are controlled and work. He told about the various steps involved to write systematic program. On board software have high precision, multiple subsystems, validated supporting tools for development (for no error), simulation, traceability and autonomy. But these processor used in these boards are constraint by slow execution time and less memory. Various attributes like reliability, fault tolerance, simplicity, etc are also discussed. Various case studies regarding past failures like Mars polar lender failure are discussed.

In this program Director IET, DAVV, Dr Sanjiv Tokekar, HODs and all the faculty members were also present. The conveners of the event are Dr Raksha Upadhyay & Mrs Uma Bhatt. Anchoring of the program was done by Dr Raksha Upadhyay and Prof. Ajay Verma proposed the vote of thanks.