



World's Most Advanced Artificial Heart

Why in News

- Recently, IIT Kanpur Deputy Director Prof. Ganesh said that IIT will prepare the world's most advanced type of artificial heart.

Key Points

- The Hriday Yantra program has been prepared for this exercise by the School of Medical Research and Technology operating in the IIT campus. In this, experts from the medical and technology world of the country and the world will join, as well as the graduate students studying from any class will also be given the opportunity to learn a lot along with the challenge.
- Experts from Indian Council of Medical Research will also assist IIT Kanpur in this programme.
- Prof. s. Ganesh said that the Left Ventricular Assist Device will be developed to prepare the artificial heart.
- With the help of leading hospitals, this program will promote the vision of '**Made in India**' for the world. The artificial heart that is used now is very expensive. If it is ready at IIT Kanpur, it will be considered a milestone. This will be the first such device in the country, which will be developed here.
- It is noteworthy that LVAD or artificial heart is such a pump, which is used in the last stage of heart failure patients. Apart from this, it is used as a bridge awaiting heart transplant or as destination therapy for people unable to be transplanted.
- This is an implantable battery-operated mechanical pump that helps the left ventricle (the main pumping chamber of the heart) pump blood to the rest of the body.
- The Hriday Yantra program will not only enrich the health ecosystem of the country, but will also pave the way for interdisciplinary biomedical research and innovation.