



## White Dwarf Star

 [sanskritiias.com/pt-cards/white-dwarf-star-19](https://sanskritiias.com/pt-cards/white-dwarf-star-19)



- A team of astronomers has confirmed a white dwarf star that completes a full rotation in 25 seconds and is **the fastest spinning white dwarf**. It is part of a binary star system.
- It is **an extremely rare example of a magnetic propeller system**. The white dwarf attracts gaseous plasma from a nearby companion star and flings it into space at around 3,000 km per second.
- It is **only the second magnetic propeller white dwarf to have been identified in over 70 years** with the help of powerful and sensitive instruments.
- These stars use hydrogen as fuel. The **fuel of the outer layer of these stars is converted into helium, due to which their energy radiation intensity decreases and the color of these stars becomes red**. Hence they are known as 'Red Giant Stars'. Most of the stars transform into white dwarf stars when their fuel is exhausted.