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# Topic Wise Content



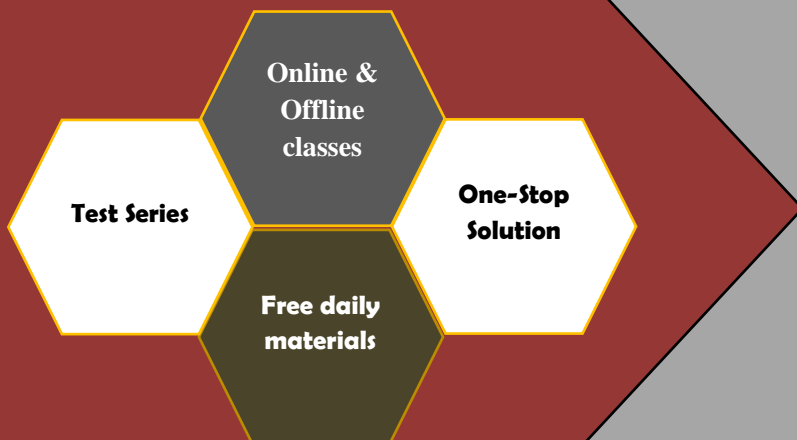
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## Shakti: Advanced Electronic Warfare Suite

Notes for civil services preparation



UPSC

General Studies

## Shakti: Advanced Electronic Warfare Suite

The Prime Minister **handed over the Advanced Electronic Warfare (EW) Suite 'Shakti' to the Indian Navy** at a ceremony held as part of **Rashtra Raksha Samarpan Parv** on 19<sup>th</sup> November, 2021.

- Rashtra Raksha Samarpan Parv is part of the '**Azadi Ka Amrit Mahaotsav**' celebration.
- The PM also handed over **indigenously-built Light Combat Helicopter (HAL's LCH)**, and two small drones ('SWITCH 1.0 UAV' and 'MR-20) built by Indian start-ups **to the Air Force**.

### Key Points

- **About:**
  - It will **provide an electronic layer of defence** against modern radars and anti-ship missiles to ensure electronic dominance and survivability in the maritime battlefield.
    - This system will replace the earlier **generation EW Systems** of the Indian Navy.
  - The system has been **integrated with the wideband Electronic Support Measures (ESM) and Electronic Counter Measure (ECM)** for the defence of Indian Navy Ships against missile attacks.
  - It will **help in finding accurate direction** and interception of modern radars.
    - The system has a **built-in radar fingerprinting** and data recording replay feature for post-mission analysis.
  - It will **enhance the capabilities of the Indian Navy** and termed it as a major milestone towards **Atmanirbhar Bharat** in areas of advanced defence technologies.
- **Designed By:**
  - Defence Electronics Research Laboratory (DLRL) Hyderabad.
    - It is a laboratory of **Defence Research and Development Organisation (DRDO)** for Capital Warships of the Indian Navy for the interception, detection, classification, identification and jamming of conventional and modern Radars.
- **Shakti System:**
  - **First Shakti system** has been **installed on-board INS Visakhapatnam** and is being installed on-board **Indigenous Aircraft Carrier, INS Vikrant**.
  - Twelve Shakti Systems are under production at **Bharat Electronics Ltd (BEL)** supported by more than fifty **Micro, Small and Medium-sized Enterprises (MSMEs)** at a total cost of Rs 1805 Crores.
  - These systems are scheduled to be installed on-board capital warships under production, including **P-15B, P-17A** and **Talwar class** follow-onships.