



Sri

SAIRAM
ENGINEERING COLLEGE
INSTITUTE OF TECHNOLOGY

Autonomous Institutions

West Tambaram, Chennai - 44

&

COLLEGE OF ENGINEERING

Anekal, Bengaluru



Innovate
Inspire
Incubate



Sairam Defence Innovation and Startup Hackathon 1.0

19th & 20th May 2022

Innovation, Indigenization & Startup Opportunities in Defence Sector

To Identify and support Students, Research Scholars & Faculty for the Development of Technology / Product for Defence Sector
(Exclusive Event for SEC, SIT & SCE)

Important Dates

Registration Date
5th May 2022

Team Announcement Date
7th May 2022

Rules & Regulations :

1. Individual Student registration is Permitted
2. Participant can register for only one challenge from the list.

Registration Link: <https://tinyurl.com/2p8s5b3r>



For any Queries contact: Dr.A.Sanjeevi Gandhi, Cell :9095018889 / Mr. M. Subramanian, Cell : 9245525838



6th Edition of Defence India Start-up Challenge (DISC#6) is launched with the following challenges from Armed Forces, Indian Coast guard, DPSUs, and Ministry of Home Affairs for resolution by startups & innovators.

TITLE OF CHALLENGES

1. Detachable rubberised track pad for BMP-II
2. Automation of track adjustment mechanism of BMP-II
3. Lighting management system for BMP-II
4. Scalable Wireless Communication Network
5. Design of Hydro Pneumatic Suspensions for Different Road profiles
6. Development of Axis MEMS GYRO
7. Door Control Unit (DCU) and Gear Motor for metro stations.
8. Design of a Cavity Backed Spiral antenna (1-18GHz).
9. AI enabled welder's helmet
10. AI based Condition Monitoring System for Ship Yard Assets.
11. Development of Parachute for Paragliding
12. Development of Parachute for Parasailing.
13. Development of Gyro Motor and Gyro Chassis for Gunner Sight
14. Torque Generator Stator-800 and Torque Generator Stator-1000 for Gunner Sight
15. Steering Console for an underwater vessel.
16. Electro-Magnetic Velocity Log for underwater vessels.
17. Development of Composition Process & Filling of Smoke Shell
18. Development of automatic weighing and filling of explosive powder
19. Designing thermal agile mannequin to measure comfort parameter in simulated high altitude environment
20. Design of ballistic portable bunkers with cooling effect
21. Oxygen-Free Electrolytic Copper Rods
22. Vulcanization of Steel cup, arming device Holder and Fuze Holder.
23. Monitoring of fishing Boats and fishermen at sea.
24. Mass evacuation and recovery system for disaster management at sea.
25. Global Maritime Distress and Safety System (GMDSS) equipment.
26. Drones for operations for sea boarding operation
27. AI/ML and AR based Virtual assistance onboard ships/submarines
28. Unmanned Surveillance System for Mechanised Forces.
29. laser based levelling and harmonization of airframe
30. Hand-Held Hard-Kill Counter UAS System.
31. Seamless and continuous domination border monitoring system
32. Dormant Tunnel Detection System
33. Fog penetration radar System
34. Ammunition procure system and corporatization of Ordnance Factory Board (OFB)
35. Storage system development in subzero temperature for long duration
36. Amphibious vehicles development