

Savitribai Phule Pune University



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY



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Vice Chancellor, SPPU
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**Technology Enabling
Center (TEC)**

DST - SPPU

NEWSLETTER

Year 3 Volume 1



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JAN 2021 – JUNE 2021

By:
DSTs
Technology Enabling Center (TEC)
SAVITRIBAI PHULE PUNE UNIVERSITY



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DST – Mentors – Authorities - Advisors

Introduction: TECHWINGS FROM DST-TEC – Details of the incubatees

DST-TEC at SPPU supported following incubates during January to June 2021.

Sr No	Name of the company/start up	Description of support provided at DST-TEC at SPPU
1	Medimenter : IoT based Medical reporting/monitoring	Connects and access with hospitals (during covid-19 pandemic time), Connects with health universities for data and dissemination
2	Taksha: Animation, 3D, VFX	Access to student community, Participation in capacity building programs, HPC connect
3	Four Forces Aero Products: Aerial and Aviation related products and technology	Access to student community, Participation in capacity building programs, HPC connect

Activities carried under DST-TEC at SPPU during January 2020 – June 2019:

Following table presents a summary of the activities carried out under DST-TEC at SPPU during January 2021 – June 2021:

Date	Activity	Outcomes
16 th January 2021	Online workshop on Mechanical Ventilation: Introduction to Respiratory System	35+ participants from various medical institutes participated, feedback was good.
February 2021	11 IPR awareness online sessions	133+ stakeholders participated, Introduction to Intellectual Property Rights and its relevance in current scenario, Introduction to Designs In IPR, Introduction to Trademark and Copyright law
3 rd March 2021	On-line IoT workshop for POCs	120+ participants, hands on skills were imparted for designing and developing IoT (Internet of Things) skillsets for quick creation of POCs. Participants gave positive feedback as these skill sets will help them convert their ideation into prototype systems.
11 th April 2021	Pre-incubation 3.0	140+ stakeholders, pre-incubation activity, ideation, quizzes, cash prizes. 3 groups selected for furtherance.
May 2021	4 On-line IPR workshops	20+ incubated participants, Trademark and Copyright filing procedure – Do's and Don'ts, Patent application procedure, Introduction to Designs In IPR, Trademark infringements and how to deal with them
16 th June 2021	PAG 2 at SPPU (Online + Offline)	PAG chairman and committee members attended the meeting. The directives were received and DST authorities also appreciated the progress of TEC in spite of pandemic COVID-19.

Glimpses of various activities conducted:



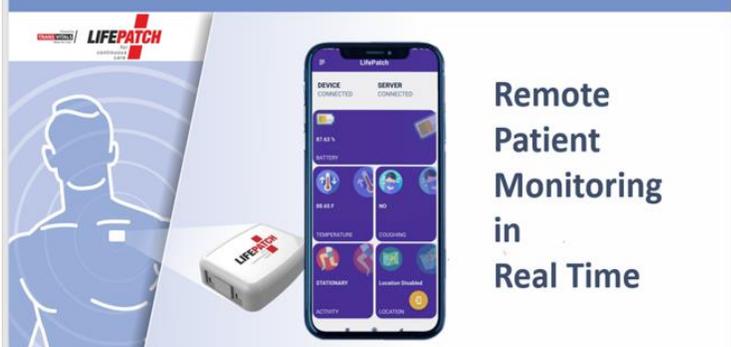
Various Activities conducted from January to June



Various activities conducted from January to June 2021. All the activities were conducted in hybrid online + offline mode as per norms. This gave clear idea on Technology Infra-footprint of SPPU TEC, current associations, start-up space and corporate quadrants to the potential stakeholders.

Success story 3.1 incubated at TEC: TransVitals

TRANS VITALS



Remote Patient Monitoring in Real Time

Patent application no.	202021815820
Date	11-04-2020
Title	"A DEVICE FOR MONITORING HEALTH STATUS OF SUBJECTS"
Investors	Gautam Morey

TRANS VITALS

The system's key feature - exception-based reporting - provides a quick focus on situations, which are deteriorating. It also provides a view of recovering patients and helps make the discharge decisions to free up beds in good time. The exceptions are the alerts generated based on voluntary reported data by the user – based on compliance reminders by the system.

The exceptions for reporting include:

1. Temperature exceeding the threshold for a period (the period can be specified)
2. Oxygenation below the threshold for 3 consecutive readings (threshold can be specified – default threshold is 93)
3. Non-compliance – when data to be reported by a patient is not entered (in case of home quarantined patients or whenever the data is not entered by the nurse in a given window of time)

CPMS is a powerful decision support system in the hands of various stakeholders to manage patients and helps caregivers in reducing their work stress and increase effectiveness in handling the pandemic situation.

Dashboards

Dashboard to show cohort status and also a risk score based on a weightage system

Download total patient list along with their vitals list as a spreadsheet



TRANS VITALS



TRANS VITALS

Single Backend



Flexibility

2 Live Portals (Front End)





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***** End of the Newsletter *****