Sri Devaraj Urs Academy of Higher Education and Research
Comprising Sri Devaraj Urs Medical College
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Innovation and Incubation Cell
&
Research and Development Cell

<u>Event Report of SparkTank Idea Presentation</u>

To unleash the creativity and generate groundbreaking ideas Research and Development Cell and Innovation and Incubation Cell, SDUAHER conducted SparkTank Idea presentation competition.

The key guidelines for an Ideathon'24 competition was given as follows:
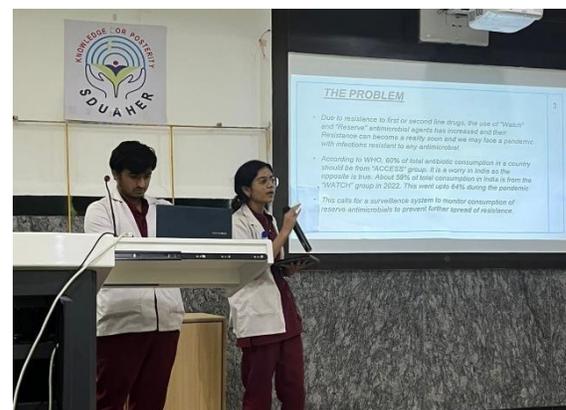
- The SparkTank Idea presentation was open to teams of 2 students.
- The competition had multiple rounds, such as an initial abstract submission, followed by a detailed proposal, and a final presentation round.
- The ideas submitted was unique, novel, and had the potential for partial or full implementation.
- The ideas was judged based on logical flow, analytical reasoning, innovative solutions, and presentation.
- Plagiarism was strictly prohibited, and any discovered instances lead to disqualification of the team.
- Participation in the Ideathon'24 was free for the students of SDUAHER.

With the above set of rules topics were provided for the students on which an idea was developed where healthcare concerns requiring attention were given. The topics included-

- AI in Healthcare: Developing AI algorithms for early disease detection and personalized treatment plans.
- Waste Management: Innovative methods for recycling and reducing waste in communities.
- EdTech for Remote Learning: Developing tools and platforms to enhance remote education.

- Affordable Healthcare Devices: Designing cost-effective medical devices for underprivileged areas.
- Minimally Invasive Surgery: Advances in laparoscopic and robotic surgery techniques.
- Telemedicine in Prenatal and health Care: Enhancing access to prenatal and health care through tele health services.
- Early Detection of Cancers: Advances in diagnostic tools for early detection of various cancers.
- High costs and limited access to insulin: Enhancing access and advancement in insulin delivery systems.

The first set of presentations were conducted on August 3rd 2024 in Library AV Hall with 19 teams from various disciples of SDUAHER. Dr Ashwini Shetty, Professor, Department of Physiology and Dr. Shivaraj Kumar, Professor and HOD, Department of Clinical Nutrition and Dietetics were the judges of the initial event.

Among the 19 teams 6 teams were selected for second round of presentation.
The teams selected were-
- Trisha Gosh and Akancha Ray - Cervical Cancer detection app
- Harsh Sharma and Iraa Varma - Antimicrobial surveillance system
- Gowtham Raj NV and Jinith Peter S - AI sensor-based goniometer
- Nithin - Automated Irrigation System Based on soil moisture using Arduino.
- Urvashi Sharma and Reddycharla Reddamma - Pneumatic pelvic bridging exercise machine
- Disha Kakkar and Brijmohan - Heal your liver

Second round of the SparkTank Idea Presentation was conducted on 5th August 2024 in Library Silver Jubilee Auditorium Hall from 9.30 am to 10.30 am. Judge for the session was Dr Anand Thirunavukarasou, SRIIC, SRIHER, Chennai. External Member, Innovation and Incubation Cell, SDUAHER.

Winners of the session was announced by Dr Ashwini N S, Chief Co-Ordinator of Innovation and Incubation Cell, SDUAHER. Following students were the winners of the SparkTank Idea Presentation-
- First: Nithin - Automated Irrigation System Based on soil moisture using Arduino
- Second: Disha Kakkar and Brijmohan – Heal your Liver
- Third: Harsh Sharma and Iraa Varma - Antimicrobial surveillance system
- Runner up: Urvashi Sharma and Reddycharla Reddamma - Pneumatic pelvic bridging exercise machine
- Runner up: Gowtham Raj NV and Jinith Peter S - AI sensor-based goniometer
- Runner up: Trisha Gosh and Akancha Ray - Cervical Cancer detection app

The winners received cash prize of Rs. 3000/- for 1st place, Rs. 2000/- for 2nd place and Rs 1000/- for 3rd place along with the certificate of participation from Dr Muninarayana, Registrar, SDUAHER and Dr Prabhakar K, Dean, Faculty of Medicine. All the participants received certificate of participation of the event.

The event concluded with the vote of thanks from Dr Kalaipriya S, Assistant Professor, Dept. of Clinical Nutrition and Dietetics, FAH and BS, SDUAHER, Member, IIC, SDUAHER.