

REPORT ON THE XILINX –WIT 2021 (SECOND QUARTER)

SRM Institute of Science and Technology SRM IST
College of Engineering and Technology CET

Website formation: <https://faisalnazir7.github.io/xilinxSRM/>

STEM program activity:

- * STEM is based on the idea of educating students in four specific disciplines - Science, Technology, Engineering and Mathematics in an interdisciplinary and applied approach.

Target classes:

- * 10th ,11th and 12th students of Govt. Higher Secondary School, Singaperumal Kovil, Kanchipuram District, TamilNadu, India

Activity 1:

Event: Education and career avenues in Science and Technology for Women

Date: 1.3.22

The gathering of class XI and XII were addresses for education and career prospects for women in science and Technology. The teachers and the students of the school took part in the interaction of the same. The talk was aimed to rise the motivation level of the students and to focus on the educational opportunities in their field of study. The students were briefed about the scholarships available and also about the list of competitive exams that could yields them a good career. The talk addressed the crowd about the ways to identify their passion and the response from the students was recorded. It was amazing to know, that each one gave a different passion leading to a new field of career convergence.

The students were given a vision on the roles and leads of an engineering career with the startup packages on front. This would be a definite eye opener for the students to choose a right track in the right time.



Event: Coding with python (in +2 curriculum)

Team of ECE and Computer Science faculty formed a team and went to the schools in and around Chengalpattu district to give awareness for girl students to continue their school education.

The following faculty members of XilinxNexus team who are the part of the event:

- * Dr. Vasantha Dev Suryakala - Assistant Professor/ECE
- * Dr. K. Ferents Koni Jiavana - Assistant Professor/ECE
- * Dr. Ruhan Bevi - Associate Professor/ECE
- * Dr. J. K. Kasthuri Bha - Assistant Professor/ECE
- * Dr. S. Kayalvizhi - Assistant Professor/ECE
- * Dr. Shiny Angel- Associate Professor/CINTEL
- * Dr. Mrs. Saranya.A- Assistant Professor/CINTEL



Activity 2:

Celebration of National Science Day 2022 on 1st March 2022 at Orathur Panchayat Union Middle School, near our University

Date: 1.3.22

Event: National Science Day celebration-Science experiments showcase

- ✳ Ideas of students are judged and recognized in the form of rewards.
- ✳ Among the best we categorized participants into first, second and third positions.
- ✳ After completion of all competition we distributed prizes to winners.



SRMIST-Xilinx Nexus Celebration of National Science Day 2022, at Orathur Panchayat Union Middle School

On 1st March 2022 , National Science Day 2020 was celebrated at Orathur Panchayat Union Middle School. The program was started with “Tamil Thaa Vazhthu” song by students. Dr. T. Deepa, Associate professor of ECE has formally welcomed Panchayat president of Orathur village, coordinators, Dr. V. Thirumurugan, Nodal Officer of SRMIST, teachers and school children. Then the cultural programs has been conducted many students were actively participated in dance.

Next Session was the Science Fair and Expo competition which was organized by school where they showcased different experiments and innovations of students. By observing all hard work with different ideas of students judges categorized first, second and third position of participants. Then we conducted drawing and essay competition among interested students based on the theme “Science Day”. Among the best we categorized participants into first, second and third positions.

After completion of all competition we distributed prizes to winners. Finally the Program ended with vote of Thanks given by SRMIST team and Head Master of the School.

Activity 3:

Awareness talk on 'Importance of nutrition for Women'

Date: 1/3/ 2022

Team of faculty members and students from the SRM Institute of Science and Technology along with Institute of Hotel Management and Xilinx Nexus team conducted a program on Nutrition for Women at Nattarasanpattu of Kancheepuram District.

From the department of hotel management Food production, Food and beverage Service and the department of nutrition set off to the village on 1st March 2022 along with few students.

The agenda of the event was as follows: -

- ✳ A talk on Nutrition by Ms. J. Vinodha Evangeline, Assistant Professor of Nutrition.
- ✳ Live Demonstration of PANEER -SWEET POTATO cutlet by Chef Ganesh.
- ✳ Team building activity and Individual activity was coordinated and conducted by the students of SRM IHM under the guidance of Chef G.P. Gopinath and J. Vinodha Evangeline.

Dr. Thirumurugan, Nodal officer of SRM IST, addressed the women of the village Nattarasanpattu in the presence of Dr. Deepa Associate Professor of ECE, SRM IST and the Village head of Nattarasanpattu.

High tea was served to the gathering at the end.



Activity 4:

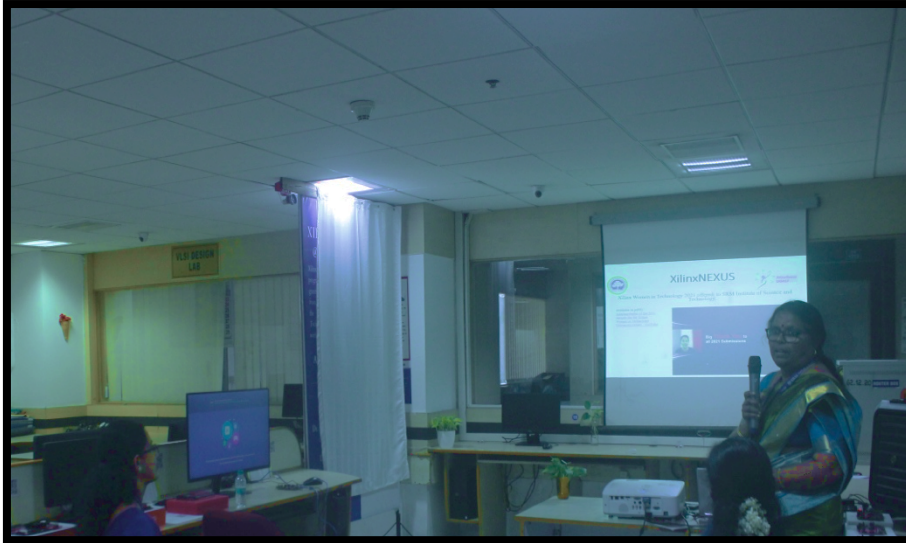
Event: Unveiling the kits and tools under Xilinx

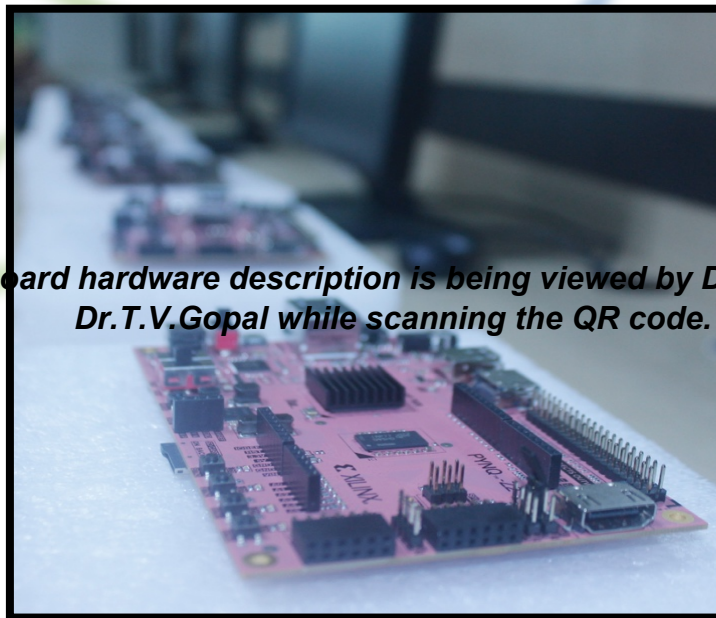
Date: 25/03/2022

- ✳ **Unveiling the kits and tools under Xilinx – XUP and the website inauguration** was held on 25th March 2022.
- ✳ Website of the programs associated with **WIT to get connected with SRM IST website.**
- ✳ Website is created : <https://faisalnazir7.github.io/xilinxSRM/>
- ✳ Appointment of RA (Research Assistants): three people with expertise in - ML model development, porting the ML model in hardware denoted by Xilinx.
- ✳ Purchase of a workstation and laptop from the sanctioned amount.



Dedicated working area for learning tools required for Xilinx boards and tools





Display of various Pynq board variants donated by Xilinx WIT for public view



Appointment letters being issued to Research/ Teaching Assistants of the Xilinx WIT Project

Research objective proposed: Breast cancer detection using ML / deep learning models and its implementation in AI accelerated boards.

Two sections of the worklets are:

Worklet 1: Development of novel ML models for different image modalities and their performance analysis.

Worklet 2: Study on Xilinx boards and related tools and deployment in Xilinx Pynq Z2 and Pynq ZCU Boards.