Department of Electronics

Subject Society - Silizium

June 17 – July 17, 2020: Department of Electronics and MHRD – INSTITUTION'S INNOVATION COUNCIL (IIC) - DDUC CHAPTER, (Under the aegis of DBT Star College Program, Electronics) Organized an Online Internship - cum - Hands-on Training Workshop on "Verilog Implementation of Digital Circuit Designs on FPGA using Vivado" from June 17, 2020 – July 17, 2020 in collaboration with CoreEL Technologies. CoreEL Technologies is the Sole Authorized Partner of Xilinx University Program (XUP) in India. It was a 40 hour teaching with hands on experiments program where Dr. Poonam Kasturi, Associate Professor, DDUC and Mr. Ankur Sangal took 20 hours each. Dr. Poonam also mentored the project work of the students for another 7 days. In total 63 participants registered for the internship program. The participants were undergraduate students, post graduate students, research fellows and a few faculty members also. The participants were from 22 different institutes all across India.

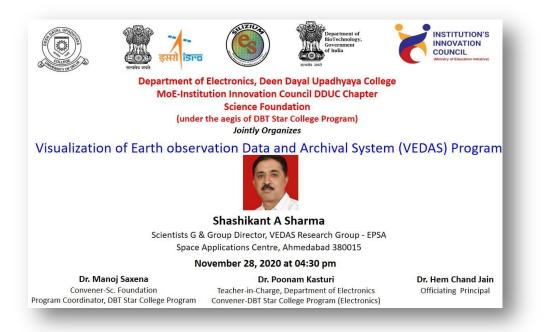


November 21, 2020: The orientation cum **Induction Program – 'DEEKSHARAMBH'** for the department was organized on November 21, 2020. The new batch of students were welcomed by their seniors and faculty members and given a warm welcome. Thereafter, they were introduced to the course details and various activities organized by the department. Six different councils were formulated during the Deeksharambh program. The session ended with a small quiz for the first year students.



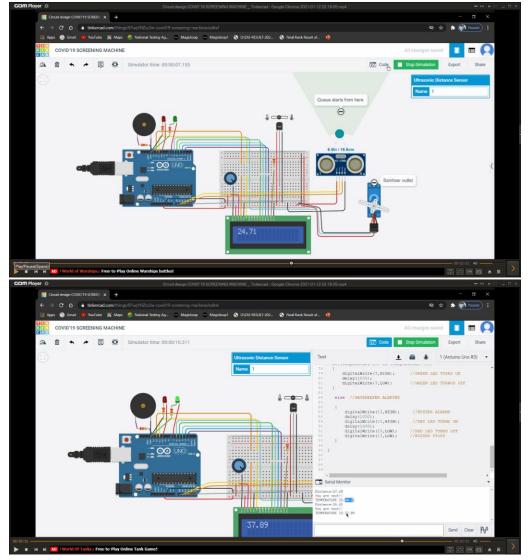


November 28, 2020: As part of Deeksharambh program a webinar on "**Visualization of Earth observation Data and Archival System (VEDAS) Program**" was delivered by **Mr. Shashikant A Sharma**, Scientists G & Group Director, VEDAS Research Group – EPSA, Space Applications Centre, Ahmedabad. A total of 121 students participated in it.



December 02 - 08, 2020: During the orientation cum Induction Program – '**DEEKSHARAMBH**' a **7 days National level Skill Enhancement Program** on "**Programming ATMega Microcontroller using ARDUINO IDE**" for Science Students was organized by the Department of Electronics, Deen Dayal Upadhyaya College, University of Delhi, under the DBT Star College Program. The students from the various Indian States participated to explore new things. The main aim was to make the students first feel comfortable in their new environment, open them up, create bonding and connect them with new things such as sensors, mechanics, control, programming the microcontroller, to see how it works and controls various aspects be they of biology, zoology, chemistry, physics, mathematics or computers, and help them to explore their knowledge in interdisciplinary fields.

The program was organised into seven different sessions. Each session was focusing on different aspects of Programming & Robotics. Day 1 was Introduction to embedded systems, Scope of Embedded Systems, Arduino Overview. Day 2 focused on exploring the Arduino and its Functionalities. Students also learned about the basics of interfacing LEDs, Buzzers, Switches and Push-button in this session. The Day 3 session was dedicated to exploring the Liquid Crystal Displays and their everyday applications.



On Day 4 students learned about Keypad Interfacing and its application in day-to-day life. From Day 5 onwards the students got to know about the Sensors, their working and applications and their programming with the Arduino Uno. It started with some basic sensors including Potentiometer, PIR and LDR. Day 6 was majorly focused upon some advance Sensors, viz., ultrasonic Sensor, Temperature Sensor and Gas Sensor. Finally, the culmination of the program was done on Day 7 with the concept of

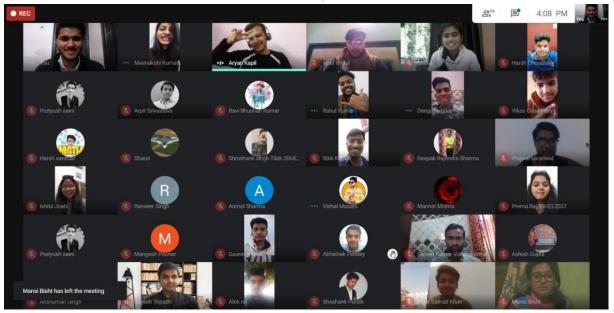
PWM and its applications in controlling the Brightness of LEDs, and the generation of different colours from RGB LED.

More than **150 students from 13 different states** and **39 different institutions** participated in the workshop. The sessions were taken by the **alumni** of the department, **Ms Sonam** and **Mr Ajay Joshi** along with current batch students **Mr Raghvendra Pratap Singh** and **Mr Ashutosh Mishra**. This event was **Alumni Interaction through Skill Enhancement Program**.

The program was based on **assessments**. An online **MCQ assignment** and problem statements to implement on tinkercad software were given to them everyday, **Video submissions** of the working circuit implementation of the assignment problems were taken. This was followed by a **working project** submission. 63 students submitted their videos of assigned problems and 39 students made the final project submission.

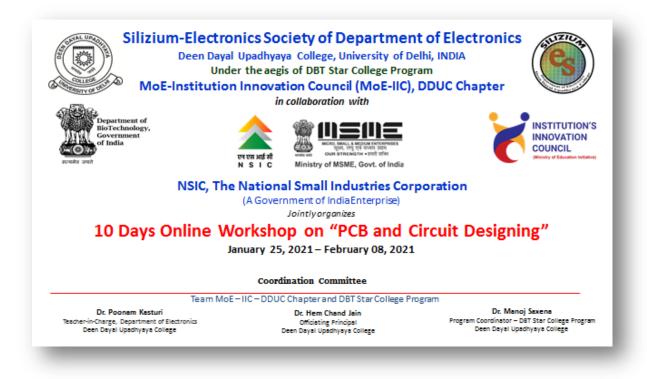
It was indeed an experience to remember since because of the Covid-19 pandemic we learnt alternative ways to learn and connect.

January 31, 2021: "REUNIRSE" the fresher's party for the newly arrived batch of 2020 was organized on 31st of January 2021 through 'GOOGLE MEET'. Raghvender (secretary) and Rahul (joint secretary) started the program with the usual introduction and invited Dr. Poonam Kasturi, she gave a warm welcome speech to juniors. Total of three events were organized including ELECTRONIC MEME THEORY, GUESSING MOVIE NAME and guessing the dialogue with the help of one single word. Mr. Fresher and Miss. Fresher, 2021 were selected and awarded with prizes.



January 25 - February 04, 2021: Department of Electronics, Deen Dayal Upadhyaya College, University of Delhi, under the aegis of DBT Star College Program, organised an online Workshop on PCB & Circuit Designing scheduled from 25th Jan 2021 to 4th Feb 2021. The workshop was jointly organized with National Small Industries Corporation (NSIC), A Government of India Enterprise and MoE-IIC-DDUC Chapter. The NSIC Technical Services Centre in Okhla, New Delhi is serving MSME units by providing

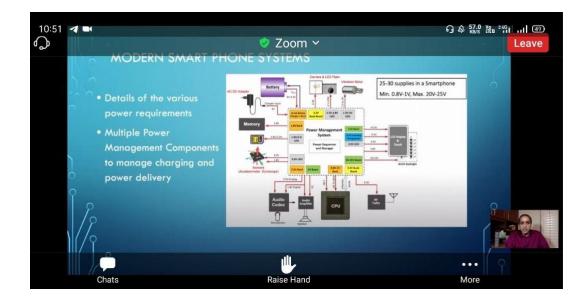
skilled & professional workforce through its training programmes on demand driven, industry-oriented courses in the fields like Mechanical Workshop, Information Technology, CAD/CAM & CNC, Multimedia & Animation, Electrical & Electronics and Entrepreneurship Development. The program was evenly distributed in 10 sessions each of 2 hrs duration per day targeting different aspects of PCB & Circuit Designing. **Mr. Piyush Singh** and **Mr. Sanjeev Pathak** from NSIC were the experts for these sessions. Students got opportunity to get familiar with the Proteus Design Suite mainly used by electronic design engineers in industry, which is a Windows application for schematic capture, simulation and creating electronic prints (i.e., PCB layout design) for manufacturing the printed circuit boards (PCB). Exposure to other PCB Designing tools such as Pad2Pad, Eagle and OrCAD were also given. 82 students of different years benefited from this workshop.



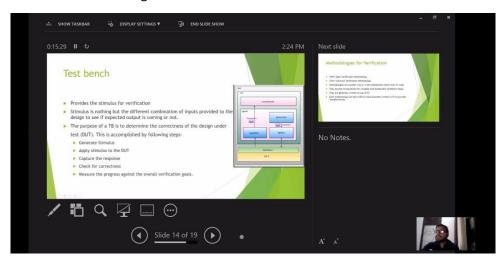
February 12, 2021: Silizium-The departmental society of electronics science (DDUC) in collaboration with MOE- IIC – DDUC chapter (under the aegis of DBT Star College Program)-Electronics organized a

webinar on the topic "Power Management Integrated Circuits: (PMIC) Fundamental and Technology" on 12 February, 2021 on zoom platform. The webinar started with the welcome of the speaker: Dr. Ciby Thomas Thruthiyil, Director of Engineering, Process Technology, Dialog Semiconductor Inc., Santa Clara, CA USA by Dr. Poonam kasturi (TIC of Department of Electronics), Dr. Manoj saxena (coordinator, DBT Star College Program) and all the students. Dr. Ciby first gave a brief description of Dialog semiconductor and then explained in great detail the issues and need of power management concepts. 121 students attended the webinar and many of them were not aware of this concept.





February 19, 2021: Silizium- The Departmental Society of Electronics science (DDUC) in collaboration with MOE-IIC- DDU Chapter under the Aegis of star college programme - Electronics organized it's first webinar of the **Electronics Alumni Lecture series:** '**IC Series 1 – Interact & Connect'** on the topic-**SoC/ASIC Verification**. Dr. Poonam Kasturi (Teacher-in-Charge, Department of Electronics) started the webinar at 2.00 PM by welcoming the Guest Speaker, **Mr. Mohit Kr. Jaiswal**, an SoC verification Engineer at Intel Technologies India Pvt. Ltd., Bengaluru. Mr Jaiswal is an Alumni of Electronics department, from the B.Tech batch of 2013-17. He has done his M.tech from Calicut. Mr. Mohit apprised the students about ASIC (Application Specific Integrated Ckt.), SoC (System on Chip) & it's applications. He also told about the simulators available for design verification, which can be used by all. A total of 100 students attended the session. The speaker gave a word of advice to all the attendees about how to look upon their career path & where to focus. He talked about the importance of practical knowledge over bookish knowledge.



February 28, 2021: The Career Counseling Society of the departmental society of Electronics, Silizium on 1st March, 2021 organized the second webinar of the series titled '**IC Series 2 – Interact & Connect'**. The session commenced with the briefing of the series, highlighting the points that it aims to provide. The speaker of the session was **Ms Sonam** (alumnus of the batch of 2020). The agenda of the webinar was to bring out the career options after B.Sc. (H) Electronics and the scope of the electronics field. Teacher convener of Silizium, Dr. Poonam Kasturi lauded the efforts of the students for coming up with the brilliant idea that would surely create awareness amongst students and open up windows of opportunities for them.



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SILIZIUM - The Departmental Society of Electronics, DDUC URJASVA 2K'21 – APRIL 03 – 04, 2021

APRIL 03 - 04, 2021

April 03, 2021: Silizium - The Departmental Society of Electronics, Deen Dayal Upadhyaya College, University of Delhi, organized the 2021 edition of its annual festival- URJASVA (National Level). It was a two-day event, where a plethora of events were organized in the online mode, ranging from technical to cultural.

The event began with an inaugural session where the students of the organizing team extended a warm welcome to all and apprised everyone about the various events being organized. The glimpses of the previous tech fests of the department were showcased but because of the Covid-19 pandemic, the mode

of the festival was online this time and many improvisations had to be done. The efforts bore fruit and we got active participation from 25+ states all over India summing up to 600 registrations. We got entries from IIT Kharagpur, IIM Nagpur, Banasthali Vidyapeeth, Amity University; to name a few. Registrations were invited through Dare to Compete and for the final rounds through google forms. Our Principal Sir blessed the students and expressed his happiness for the efforts put in by them especially in the current trying time. Our teacher in-charge, Dr. Poonam Kasturi, encouraged the participants with her words of wisdom and extended her gratitude towards each and every member of the students organizing team, faculty, administration an above all participants an attendees. Thereafter the final rounds of various events started as per the schedule.

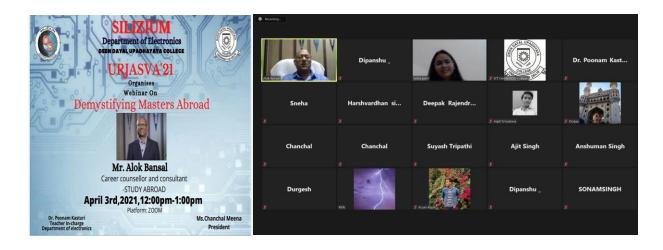


WEBINAR ON DEMYSTIFYING STUDIES ABROAD

Reported By : Ishita

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

A WEBINAR was conducted on 3rd April 2021 under URJASVA '21 the annual fest of department of electronics of Deen Dayal Upadhya College Delhi University to clear the various myths on studying abroad. The topic of the webinar was "**Demystifying Studies Abroad**" and the resource person was **Mr. Alok Bansal**, Career counselor and Consultant study abroad. He is also the founder and CEO of ALETHIA EDUCATION SERVICE. He has also been credited with the growing IMS test preparation in Delhi till 2018. During the webinar he shared his experiences with the students from various different institutes and how he helped them to achieve their future goals. He motivated students to study abroad and told them the various eligibility criteria for different courses and international colleges. The webinar was conducted through ZOOM platform. More than 150 students from departments like Mathematics, Physics, Chemistry and Computer Science participated in the webinar. The webinar was commenced by Teacher-in-Charge, Department of Electronics, Dr. Poonam Kasturi.



OPPORTUNITIES IN ELECTRONICS: PANEL DISCUSSION (-Mansi Bisht)

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

The Career counseling cell and The Internship Council of Department of Electronics together organized the Panel Discussion and Interaction Session on the topic "OPPORTUNITIES IN ELECTRONICS" on the first day April 03, 2021 of our annual fest "URJASV'21". The panel comprised of four panelists who discussed about the vast opportunities in the field of electronics and gave an insight to the students how they can shape their career. Conversation starts with the formal welcoming by Teacher Incharge Dr. Poonam Kasturi. Dr. Kasturi welcomed the guest and gave a brief about various events organised under the Urjasva'21. Thereafter, Session starts with approx 70 attendees from DDUC itself and other institutions also. The first panelist of the session was Mrs. Sarika Aggarwal, Principal Program Manager at STmicroelectronics PVT. Ltd. Mrs. Aggarwal gave a fine idea about how industry works as having 20+ years of experience with the same. The second panelist was Mr. Ankur Sangal, Lead Application Engineer in Coreal Technology which is training partner of Xilinx. Mr. Sangal taught the students about VLSI and its importance in the field of electronics and also mentioned some companies where students can apply for internships. The third panelist was Mr. Rahul Soni, an alumus of DDU college, Department of Electronics, co-founder of Trydan Clean Tech. Pvt. Ltd. Trydan Clean Tech. Pvt. Ltd. is a startup mainly concerned with charging stations of electric vehicles. From his experience Mr. Soni told the students how the interested ones can go into the startup industry. The final panelist of the session was Mr. Madan Gopal Mekala, a corporate trainer and placement consultant with Star VLSI Service Ltd. Mr. Mekala scanned the whole syllabus of the B.Sc(H) Electronics and highlighted the core subjects that needs to be studied carefully and gave a vast list of job categories on which the students can build their career on.









Mrs. Sarika Aggarwal

Mr. Ankur Sangal

Mr. Rahul Soni

Mr. Madan Gopal Mekala

DEEN DAYAL UPADHYAYA COLLEGE

CIRCUIT-

ROUNDS

Follow us on:-

ROUND 1 QUIZ COMPETITION DATE 30TH MARCH ROUND 2 THEME BASED CIRCUIT MAKING DATE 3RD APRIL

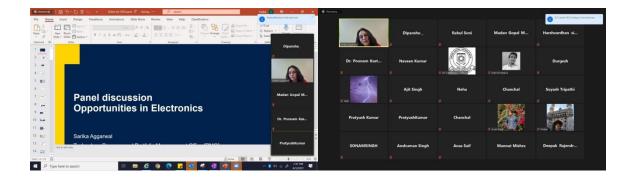
tment of electronic

Event on:- Google meet

Register on or

e: 29th March

For queries



CIRCUIT - MENT: THEME BASED CIRCUIT MAKING COMPETITION

(-Deepak Rajendra Sharma)

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

The event consisted of two rounds that were held online. First round was an **online quiz competition** held on March 30, 2021. Quiz consisted of questions from electronics to test the participants of their basic knowledge of networks and circuit making. The Final Round was conducted on the Day-1 of URJASVA, i.e April 03rd, 2021, Saturday. The contest ended with submission of circuits and their videos in the google form. The number of participants was 33. Candidates had to sort out the components as per their need and choose questions that were displayed on the screen. Time allotted was 45 min. Candidates could use any popular circuit simulator like Multisim and Proteus. Judgment was based on originality, creativity clarity in the making of the circuit and the circuit should be working.

Event Heads-

Volunteers-

Deepak Rajendra Sharma (Second Year)

Arpit Srivastava (Second Year)

Guidance By-

- Ritik Nigam (Vice President, Third Year)
- Siddhant Goswami (Third Year)

Judges -

Mr. Naveen Kumar - Assistant Professor of Electronics Department, DDUC Mr. Ajit Singh - Assistant Professor of Electronics Department, DDUC

Winners and Prizes-

- * First position Vikas Chaudhary, DDUC College 2500/- INR+ Goodies
- * Second position Dibya Dipanjan, NIT Rourkela 1500/- INR
- * Third position Shivanshu Sahoo, NIT Rourkela- 1000/- INR

BRAIN FIZZ : HACATHON

(-PUNEET)

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

It was an online contest where the participants had to use their skills and knowledge to **find the solution of the chosen problem statement**. The aim of the contest was to provide a platform to all the students to showcase their practical and technical knowledge. In this event participants got 20 Questions which were based on routine work like attendance system, fast mobile charger and many more questions which were selected by the team. On one of the given problem statements participants had to make a presentation and video explaining their technical solution of the problem.

The number of participants was 24.

Event Heads-

- Sneha (Third Year)
- Anas Saifi (Third Year)

EVALUATION COMPETITION COURSE MARKET COURSE AND CONSTRUCTION COURSE AND COURSE COURSE

Volunteers-

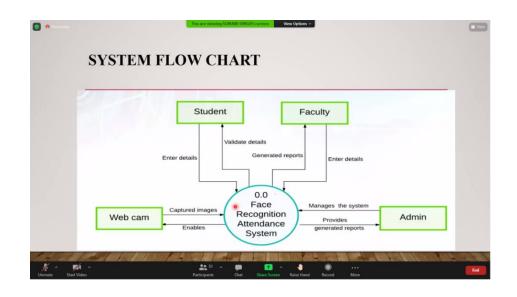
- Ankit Mishra (Second Year)
- Kavita (Second Year)
- Harsh Vardhan (First Year)
- Puneet (First Year)

Judge -

Mr Ankur Sangal, Lead Application Engineer, CoreEL Technologies, Authorized Training Provider (ATP), Xilinx.

Winners and Prizes-

- * First position Akash Manish Lad Vellore institute of technology, Chennai 3000/- INR
- * Second position Vaibhav Jaiswal LNMIT , Jaipur- 1500/- INR
- * Third position Sonam Institute of Informatics and Communication (IIC), DU 1000/- INR



FOCUS - THE PHOTOGRAPHY COMPETITION

Instagram

Reported by – NAMAN

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

"Photography is the art through the lens " - and if this is one of your fortes URJASVA'21 The Annual Festival of Silizium Department of Electronics Deen Dayal Upadhyaya College. proudly brings before you -FOCUS : The Photography Competition



"FOCUS" - The photography competition was organized by SILIZIUM

society on 3rd APRIL 2021. With an audience of more than **four thousand** FOCUS was one of the most successful events of URJASVA'21. Three winners were selected AFTER THREE ROUNDS OF COMPETITION by judges and audience polling on the basis of their photographs

For all the shutterbugs out there! Themes for the event were:-

- 1. Dilwali's Nature (Nature Photography)
- 2. Monochrome Dayanita (Monochrome Potrait)
- 3. Raghu Rai's Street (Street Photography)

Event Heads - Ashish and Naman







WINNERS

- * RAGHU RAI'S STREET Amit Makhija Dayal Singh College
- * DILWALI'S NATURE Yashwant Dayal Singh College
- * MONOCHROME DAYANITA Aman Deen Dayal Upadhyaya College

IDEATHON : BUSSINESS MODEL

(-Shivam Kumar Singh)

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

Ideathon is basically an idea marathon of **business idea competition** to sharpen the innovative thinking of students. The aim of the contest was to provide a platform to the young minds where their imagination and innovation could find expression. It was an online contest where the participants had to design some innovative entrepreneurial ideas related to electronics and listed tracks, and they prepared an abstract of their proposals. There were around 20 entries. \square

TRACKS FOR THE PROPOSALS:

- Healthcare
- Agriculture
- Space Technology
- Education
- Augmented Reality
- Artificial Intelligence
- Blockchain
- Open Innovation

*** JUDGEMENT CRITERIA FOR ROUND 1:-**

- Impact of their proposal on society.
- Unique innovation
- Efficiency of the innovation.



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*** JUDGEMENT CRITERIA FOR FINAL ROUND -**

- IMPACT: How much impact (quality and quantity) can this project have? Solve a big problem or a small problem? Will it inspire or help many, or some?
- CREATIVITY: How creative / innovative is the approach? Is the project romance something that has never been tried before or is it an incremental improvement on something that already exists?
- VALIDATION :- Is the solution scientifically valid? Will it do what it sets out to do? Can it work in the real world?
- RELEVANCE DOCS: This project respond to the challenge it was sent to? Is it a complete solution or does it still has a long way to go? Is it technically feasible? How usable or friendly is the solution?
- CANVAS BUSINESS MODEL:- How well did the team communicate their project? Did they cover all the aspects of the Canvas Business Model properly? Were all the aspects compatible with each other? How was the overall business plan?

Each Participant had to present Canvas Business Model and were provided 5 minutes only for their presentation.

Event Heads-

Shivam K. Singh (Third Year) Ritik Ranjan (Second Year) Volunteer : -

Anshuman (First Year)

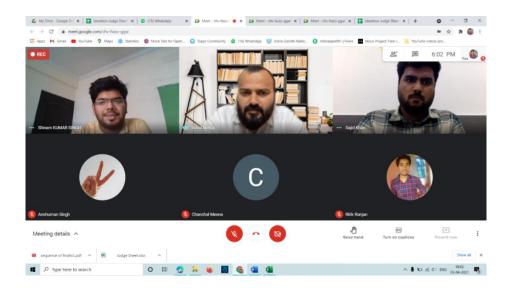


JUDGES-

- > Dr. Amol Deepak Nerker, Assistant Professor, Department of Commerce, DDUC.
- > Mr. Sajid Khan, An alumnus of DDUC, Department of Management Studies.

WINNERS AND PRIZES -

- First position Chinmay Naik , GHRCE 2500/- INR+ Certificate + Goodies
- Second position Karthikeyan G , Sri Krishna College of Technology 1500/- INR + Certificate
- > Third position Ujjawal Bansal , Goa Institute of Management 1000/- INR + Certificate



TECHNIX-TINKER : ARDUINO BASED PROJECT MAKING ON TINKERCAD

(-Sidhant Goswami)

DATED: - 3rd APRIL 2021 (URJASVA 2K'21)

The event consisted of two rounds that were held online. First round was an online elimination round held on 1st April 2021. It consisted of 10 Multiple Choice questions from electronics to test the participants of their basic knowledge of networks and circuit making. In the first round, out of 50 entries only 22 students made it to the second round. The Final Round was conducted on the Day-1 of URJASVA, i.e April 03rd, 2021. In the final round the contestants made their circuits in the back end and questions of their circuit making were framed. Questions for implementing the Arudino based projects to be implemented on tinkercad software were displayed on the main screen and the contestants were making their circuits at their end.

Event Heads-

Sidhant Goswami (Third Year)

Volunteers-Meer Samad (First Year)

Guidance By-

- Ritik Nigam (Vice President, Third Year)
- Siddhant Goswami (Third Year)

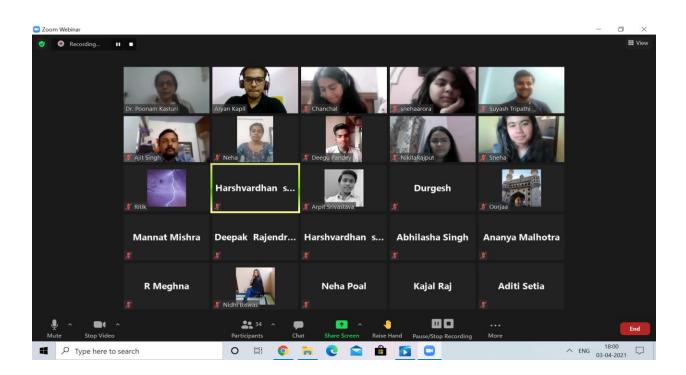
JUDGES

> Mrs Neha Malik, Assistant Professor, Department of Electronics, DDUC

WINNERS AND PRIZES -

- * First position Sumit Rawat , MBEI jaggaur 2500/- INR+ Certificate+ Goodies
- Second position Shivashu Sahoo, NIT Rourkela 1500/- INR + Certificate
- * Third position Kailash Jagdeesh , NIT Trichy 1000/- INR +Certificate





CREATE - RECREATE

(-Aryan Kapil)

DATED: - 3rd APRIL 2021

Create-Recreate: It was an online contest where the participants had to **create/recreate looks** inspired by movies/shows/comics characters. The aim of the contest was to provide a platform to the young minds where their imagination and creativity could find expression. There were around 40 entries from Universities of different States of country.

The Preliminary Round was conducted from March 27th to 30th, 2021

- Participants had to create/recreate 3 different looks in total.
- They could have chosen either a single character or all 3 different characters.
- Make-up/face painting artists were also welcomed.
- Their entries (Photos/videos) were posted on the official instagram handle of Silizium.

The **Final Round** was conducted on the Day-1 of URJASVA, i.e. April 03, 2021, Saturday. The rules for the final round were as follows-

- Participants were provided with three lists containing 10 titles each, from movies (Bollywood), shows (Netflix and Amazon Prime) and anime/comics respectively.
- > Two looks had to be created/recreated, inspired by the same.



- Look 1 had to be entirely inspired by any one of the titles, while the look 2 had to be a fusion of the remaining two choices.
- > A video (45 120 seconds) had to be made on the same.

The entries were played one by one and the contestants were asked questions on the same.

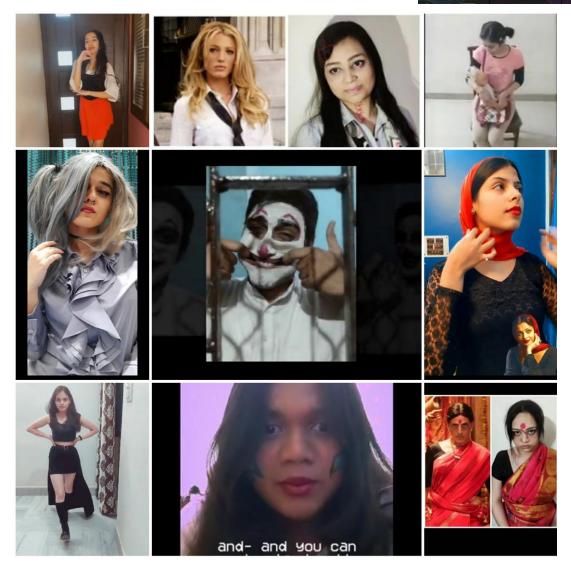
Event Heads-

- Aryan Kapil (Third Year)
- Deegu Pandey (Third Year)

Volunteers-

- Harsh Vardhan (First Year)
- Ishita (First Year)





JUDGES

- Miss Sneha Arora An alumnus of DDUC, class of 2019. Former President- Kalamkaar, DDUC
- Miss Vaishali Singh An alumnus of DDUC, class of 2019. Former President- Spicmacay unit, DDUC

WINNERS AND PRIZES-

- First position Neha Poal, ARSD College 2500/- INR + Goodies
- > Second position Aditi Setia, Maitreyi College- 1500/- INR
- > Third position R Meghna, DDUC- 1000/- INR

SPECIAL MENTION - Nitish, DDUC

ANNUAL ALUMNI MEET (ALUM MUSTER'21).

By- Mannat Mishra

DATED: - 4TH APRIL 2021

April 04, 2021: The Department of **Alumni Affair Council** of the Departmental Society of Electronics, Silizium organized its **Annual Alumni Meet "ALUM MUSTER'21**" on 4th April, 2021. The meet commenced with a series of introductions of the alumni.10 Alumni joined us on the virtual platform. They shared their beautiful college memories and valuable experiences and guided all the students with a number of opportunities. There were a number of performances and games which the students prepared specially for the alumni. The meet ended with a beautiful video of the college and glimpses of URJASVA'21. At last the meet concluded with Dr. Poonam Kasturi appreciating the alumni and the students for organizing such a beautiful alumni meet.

					Participants (3) Panelists (25)	Attendees (6)
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					Ishita (Host)	<i>¥</i> ⊂ ⊕ ⊂
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Naveen Kumar	a Ekansh Gupta	n Durgesh	Raghwendra Prat.	a Shreya Jha	From Dr. Pop to All panelists and attendees: Thank you so much Rahul for being with us. God bless you Rahul	
Suyash Tripathi	Ankit Gupta	Ritik	/ Vint kumar	Aryan Kapil	From Rahul soni to All panelists byyy ma'am सिमि	
					To: Dr. Poonam Kasturi 👻 (Dire: Type message here	t Message)