

SHAHEED RAJGURU COLLEGE OF APPLIED  
SCIENCES FOR WOMEN

शहीद राजगुरु कॉलेज ऑफ एप्लाइड साइंसेज फॉर वुमेन

UNIVERSITY OF DELHI

दिल्ली विश्वविद्यालय

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(ACCREDITED BY NAAC WITH 'A+' GRADE)

# TECHNEXUS '22

ORGANIZED BY

DEPARTMENT OF INSTRUMENTATION

EDUCATION PARTNER - SUN PHARMA



TECHNICAL SPONSOR - IEEE EDS DELHI CHAPTER



A premier institute of higher education, affiliated to the University of Delhi, **Shaheed Rajguru College of Applied Sciences for Women** was established in 1989. The sprawling campus possesses state-of-art laboratories, modern classrooms, spacious auditorium, automated library and a hostel for more than 100 residents.

The college is presently running 14 Under-graduate courses, including those of applied sciences, pure sciences, management studies and psychology. The aim of the college is to provide high academic standards and to play a pioneering role in Research and development. The college faculty has contributed immensely to the advancement of education and research. The well placed alumni are the pride of the institution. The college has efficient support staff to assist in the smooth functioning of various laboratories and administrative work.

**Department of Instrumentation** was established in the year 1989. Instrumentation is a multi-disciplinary branch which includes Electrical, Electronics and Instrumentation. It enriches the students to excel in the area of automation where the students are exposed to various subjects related to measurements and control. The Department enjoys long standing relationships with industry, academia, and research organizations of national importance to pursue teaching, training and research agenda.

The industry/research organization members that play active participation in departmental activities are SunPharma Pvt. Ltd, Jubilant Organosys Pvt. Ltd, Toshvin Analytical Pvt. Ltd., Dabur Research Foundation, Centre of Pollution Control Board (CPCB) Delhi, IEEE EDS Delhi Chapter, Futuronix Pvt. Ltd, Tevatron Technologies Pvt. Ltd., Yakult Danone India Pvt. Ltd., Envirotech Instruments Pvt. Ltd., Institute of Nuclear and magnetic Allied Sciences (INMAS) Delhi, Central Scientific Instruments Organization (CSIO) Chandigarh, Agilent Technologies, CORONET engineer Private Limited etc.

**Prof. (Dr.) Payal Mago**  
Principal, SRCASW DU

**Dr. Daya Bhardwaj**  
Teacher-in-charge



# TECHNEXUS 2021-22

The Department organizes its annual technical fest, “**Technexus**”. The fest is organized every year with the objective to provide platform for the students to showcase their talent with a competitive spirit. The objective of conducting such student organised fests is to teach them proper managerial and coordination skills along with the execution of the ideas that they came up for on the day of the Techfest. It also helps to indulge students in the fun side of the technical developments and get opportunities to showcase their talents along with a competitive spirit. For the academic year 2020-2021, our fest was organised successfully. Its events were organised on 27<sup>th</sup> January’21.

Beginning with an IEEE EDS Invited talk by Professor Midula Gupta on “Satellite Communication”. It was an interactive session wherein the students also got the opportunity to ask and share their ideas with the pioneer speaker. The 2020-21 academic year, Technexus was a tremendous success as it attracted attention of students both, virtually and socially.

## Technexus’22

With the onset of COVID pandemic, this year also we are organising a virtual Tech-Fest. Even though the times are difficult, our spirits are high and we have decided to use the virtual platform as an opportunity to get a wider connection and participation. With an All-India promotion of the event, we are planning to make it a national-level tech-fest, having participation from different parts of the country. The Department of INSTRUMENTATION is glad to announce that we are organising TECHNEXUS’22 on 7<sup>th</sup> and 8<sup>th</sup> FEB 2022. Every coming year, we raise our benchmark and thrive to improvise and flourish in spite of these pandemic condition.

The list of events are as follows:

Program Schedule		
Date	Events Name	Timings
7 <sup>th</sup> February '22	Invited Talk on 'Analytical Techniques for the Assessment of Nitrosamines Impurities' By <b>Mr Tapes Jain</b> , Team Leader, Analytical Research at Sun Pharma, R&D Gurugram.	10:00 AM -11:00 AM
	Invited Talk on 'Recent Trends for Invitro release of Dosage Forms by Dissolution Technique' By <b>Mr. Navjot Singh</b> , Team Leader, Analytical Research at Sun Pharma, R&D Gurugram.	11:00 AM -12:00 PM
	Invited Talk on 'IEEE EDS Mission and Vision' By <b>Prof. Mridula Gupta</b> , Head of Department Of Electronic Science, Delhi University.	12:30 PM -1:00 PM
	Loop Troop (Circuit based Simulation)	1:00 PM Onwards
	Code-o-Quick ( Website Design)	2:30 PM onwards
	Memotsav (Meme making competition)	1:30 PM – 3:00 PM
8 <sup>th</sup> February'22	Invited Talk on 'Biosensors for Biomedical Diagnostics' by <b>Dr. Saakshi Dhanekar</b> Chairperson of IEEE Sensors, Delhi Chapter and Assistant Professor, IIT Jodhpur.	10:00 AM
	Vigyaanmantra (PPT Presentation )	1:00 PM Onwards
	Brainiac (virtual Treasure hunt)	2:30 PM

# EVENT DETAILS

## LOOP-TROOP

“Circuits based simulation and quiz competition”

### **RULES:-**

There will be 2 rounds

Round 1: will include basic questions based on Electronics in Google Form (The link for the form will be provided through mail on 7th of February, which would be open for a limited time). Participants with the max. number of correct answers would be eligible for the next round. Only 10 min. will be given.

Round 2 :It will require the participants to pre-register themselves on MULTISIM LIVE. Some components will be provided and the participants have to make a circuit from the given components .The participant who creates the circuit first would be declared the winner.

**DATE: 7th FEBRUARY 2022**

**DAY: MONDAY**

**TIME: 1:00 PM ONWARDS**

**MEDIUM: Google Meet & Google Forms**

**NOTE:** In case the participant does not receive the link for the Quiz, he/she is requested to contact the student coordinators before the event or mail on the official email id

IN case of any query you can contact.

Arushi: 7428182077

Ujala :- 9871987546

Registration Link <https://forms.gle/avM6u18LUvoHnRYJ8>

# CODE-O-QUICK

“ A coding competition on programming languages – Html , CSS & Java”

## **RULES:**

First round will be a Quiz round which will have 20 question of 15 minutes (The link for the quiz will be provided in the google meet, which would be open for a limited time). Participants with maximum number of correct answers would be eligible for the next round.

Second round will have a web design competition (particular theme will be given) using html, css, javascript. And given time is 2 hours and after completing the website participants have to give their source code and the whole folder convert it into zip folder and submit it through google form.

**DATE: 7th Feb**

**TIME: 2:30 PM**

**MEDIUM: Google Meet & Google Forms**

**NOTE:** In case the participant does not receive the link for the Quiz, he/she is requested to contact the student coordinators before the event or mail on the official email id.

IN case of any query you can contact .

Arushi: 7428182077

Perna: 8506869180

Priya : 9870427240

**Registration Link:** <https://forms.gle/NUqJJrhWck14rTEK8>

# VIGYANMANTRA

## “Presentation based competition”

### Topic:

- 1) The Future of Artificial Intelligence
- 2) Carbon footprint
- 3) Green Jobs are essential for sustainable development
- 4) Blockchain Technology
- 5) Impact of ‘Internet of Things (IoT)’ on our lives

### Rules:

1. Team of maximum 2 members is allowed.
2. Lone wolves are also welcome.
3. Participants are required to prepare a ppt on any one topic.
4. Plagiarism will lead to disqualification.
5. ppt should not be greater than 5-7 slides.
6. Participants will be given 5-7 minutes to explain their ppt to the judges.
7. Decision of the judges will be final.
8. Participants need to submit their ppt by 4 February 2022.

**DATE: 8 February 2022**

**DAY: Tuesday**

**TIME: 1:00 PM onwards**

**MEDIUM: Google Meet**

For queries contact:

Arushi: 7428182077

Nandita Das : 9540743053

**Registration Link:** <https://forms.gle/Fdoq5v1Ro2js7GYz8>

# BRAINLAC

## “Physics, Electronics, Instrumentation based riddle competition”

### Rules:

- 1.A total of 4 PDF's will be provided to every participant on the day of the event. Total Time Limit to solve and upload them is 60 minutes.
- 2.The First PDF will be an open file. All other PDF's will be Password Protected.
3. The Password to the second can be decoded once the participant solves the first PDF. The game would continue like this where hints to decode the PDF will be available on solving the content of the preceding PDF.
- 4.The File could include Riddles, Crossword, Questions based on basic knowledge (Physics, Biology, Electronics and Instruments based) which needs to be solved to get the password for the next PDF.
- 5.Screenshots should be taken at every step. Instructions would be provided at every File. These would be uploaded in the Google Form at the end.
- 6.The participant who uploads all the screenshots first would be declared the winner.
- 7.Link will be provided on the registered email on the day of the event.

Note: No Extra Time would be given to any participant at any point. Hence, it is requested to have proper connection facilities throughout the event. We are not responsible for technical difficulties at your end.

**DATE: 8 February 2022**

**DAY: TUESDAY**

**TIME: 2:30p.m.**

**MEDIUM: Google Meet & Google Forms**

For queries contact:

Ishika Varshney: 8979710681

Nandita Das : 9540743053

**Registration Link:** <https://forms.gle/vtjkDSKUBvELFBAs8>



# MEMOTSAV

## “MEME based competition”

### **RULES**

- 1.Participants need to register themselves first till 5th of February.
  - 2.Then on 7 Feb at 1:30p.m. we will upload some pictures on our Instagram handle (instru\_officialsrcasw).
  - 3.Participants need to make memes using the picture uploaded on our Instagram handle Theme: memes should be related to science and technology ) .Only one meme will be accepted .
- Till 3p.m.participants can send their memes on our Instagram handle .After 3p.m.no memes will be accepted.
4. We will post their meme on our social media handle by 7th of February.
  5. Participants will get time to promote their memes till 9 Feb to get likes and comments .Whoever gets maximum likes and comments will be declared as winner (1like =1 point ,1comment = 2 points) on 10th Feb.
  6. No vulgarity or offensive content will be considered. It is mandatory to fill the registration form, otherwise the participation won't be considered.

### **NOTE:**

In case of any query you may contact.

Arushi: 7428182077

Prerna: 8506869180

### **Registration Link:**

<https://forms.gle/uEZLM8S19xvvMeGs7>

Looking forward for your participation in  
'TECHNEXUS 22'

All the very best to the Participants.

**Regards,**

**Prof. PAYAL MAGO  
PRINCIPAL**

**Dr. DAYA BHARDWAJ  
TEACHER-IN-CHARGE**

**Dr. Sneha Kabra & Dr. Reshma Sinha  
TEACHER COORDINATORS**

**STUDENT COORDINATORS:**

ARUSHI TYAGI (PRESIDENT): 7428182077

PRIYA SHARMA(SECRETARY): 9870427240

PRERNA(TREASURER): 8506869180



TechNexus



@instru\_officialsrcasw