

# Webinar organized by Department of Computer Science

**NAME OF THE EVENT:** Webinar on Effect of Image Quality on Machine Learning

**NATURE OF THE EVENT:** National Webinar

**DATE AND DURATION:** 3-10-2020, 12:00p.m. To 2:00 p.m.

**VENUE:** Virtual via Google Meet

**Resource Person:** Mr Hitansh Singla (Alumni 2013-2017 batch) MSc Data Science LMU Munich, working in Zesavi.com, Munich as Software Developer

**Event Coordinator:** Ms Sakshi Taresh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 50 Students

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** All the faculty members of the Department of Computer Science

**JUDGES:** No Judges

## **BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized a webinar on Webinar on Effect of Image Quality on Machine Learning on 3-10-2020, from 12:00 P.M. to 2:00 P.M. virtually via Google Meet. This Webinar was specially meant for all the students interested in the use of image classification techniques in vehicle classification. This was organized with a view to make the students gain the knowledge about data annotations or more commonly called data labeling, which is an integral part of AI and Machine Learning. One of the biggest concerns that organizations have while doing AI and ML is about handling data. Intelligent transportation systems have acknowledged a ration of attention in the last decades. Further, vehicle classification and detection is a hard problem to identify and locate because wide variety of vehicles don't follow the lane discipline. In this webinar, speaker explained the steps about how to identify and create a convolution neural network from scratch to classify and detect objects using a modern convolution neural network based on fast regions.

50 students attended the webinar. Resource person Mr Hitansh Singla (Alumni 2013-2017 batch) M.Sc. Data Science-LMU Munich, working in Zesavi.com, Munich as Software Developer, addressed the participants and motivated them to undertake some projects in Machine Learning. The webinar was properly structured in which first session was based on the development of the machine learning model followed by question answer session. The session was informative as well as interactive, as reflected from the feedback received from the participants. The webinar was beneficial to all.

FUNDING/SPONSORSHIP RECEIVED (IF ANY): Not Applicable

Photo Proofs:

**RAM LAL ANAND COLLEGE**  
BENITO JUAREZ MARG NEW DELHI - 110021  
UNIVERSITY OF DELHI

**DEPARTMENT OF COMPUTER SCIENCE**  
PRESENTS

**WEBINAR  
ON  
EFFECT OF IMAGE QUALITY  
ON  
MACHINE LEARNING**

**SPEAKER**  
**MR. HITANSH SINGLA**  
MSC DATA SCIENCE STUDENT  
(LMU MUNICH)  
B. TECH IN CS  
RLA COLLEGE


**CONVENOR**  
**DR. VANDANA GANDOTRA**  
ASSOCIATE PROFESSOR

**DR. NEERAJ KUMAR SHARMA**  
ASSISTANT PROFESSOR

**COORDINATOR**  
**SAKSHI TAARESH KHANNA**  
ASSISTANT PROFESSOR

**PATRON**  
**DR. RAKESH KUMAR GUPTA**  
PRINCIPAL

**3<sup>RD</sup> OCTOBER 2020**  
12:00 - 2:00 PM

  
[REGISTER HERE](#)



- (50)
- ARNAV PANWAR
  - ARPIT PAL SINGH
  - Arun Gautam** NEW
  - ARUSHI CS
  - BEENA KUMARI
  - BHOMIC KAUSHIK



- (50)
- Sakshi Taresh Khanna (You)
  - Hitansh Singla
  - Hitansh Singla
  - VARUN GOEL
- Also in the meeting (46)
- AANAND THAKUR



## **Webinar organized by Department of Computer Science**

**NAME OF THE EVENT:** Webinar on Basics of Digital Marketing & How to enter into Digital Marketing space

**NATURE OF THE EVENT:** National Webinar

**DATE AND DURATION:** 26-09-2020, 2 hours

**VENUE:** Virtual via Google Meet

**Resource Person:** Mr Himanshu Gaba (Alumni 2017 batch) working in Amazon India as Advertising Manager

**Event Coordinator:** Ms Sakshi Taaresh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 93 Students

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** All the faculty members of the Department of Computer Science

**JUDGES:** No Judges

### **BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized a webinar on Basics of Digital Marketing and How to enter into Digital Marketing Space on 26-09-2020, from 12:00 P.M. to 2:00 P.M. virtually via Google Meet. This Webinar was specially meant for all the students interested to enter into digital space for marketing. This was organized with a view to make the students gain in-depth knowledge in the field. 93 students attended the webinar. Resource person Mr. Himanshu Gaba (Alumni Batch 2015-2017) working as Advertising Manager in Amazon India, addressed the participants and motivated them to undertake some projects in digital marketing. Initially, the webinar went through the important aspects such as digital marketing fundamentals, why digital marketing is important in current scenario, latest tools used, social media marketing, email marketing etc. And then, the speaker informed the students about the opportunities in the field and how to start from scratch. This webinar had given them a clear understanding of the basics of digital marketing and equipped them with the knowledge how to use technology for marketing the businesses, techniques and the knowledge to develop cohesive market strategies. Digital Marketing is an umbrella term for the marketing of products or services using digital technologies, mainly on the Internet, but also including mobile phones, display advertising, and any other digital medium. To reach the maximum potential of digital marketing, firms use social media as its main tool to create a channel of information. The

workshop was divided into theory and practical sessions. It is evident that the world of digital marketing is evolving at an incredible rate and providing many job opportunities in India. Therefore, this webinar was dynamically structured to prepare students comprehensively for having an idea how digital marketing techniques are used by big marketing companies. The session was informative as well as interactive, as reflected from the feedback received from the participants.

The webinar was beneficial to all the students and faculties who attended. The feedback from the participants reflected that they were satisfied with the content delivered.

**FUNDING/SPONSORSHIP RECEIVED (IF ANY):** Not Applicable

**Photo Proofs:**



## RAM LAL ANAND COLLEGE

BENITO JUAREZ MARG NEW DELHI - 110021  
UNIVERSITY OF DELHI



### DEPARTMENT OF COMPUTER SCIENCE

PRESENTS



**SPEAKER**  
**MR. HIMANSHU GABA**  
ADVERTISING MANAGER  
AMAZON INDIA

**WEBINAR**  
ON

### **BASICS OF DIGITAL MARKETING** & **HOW TO ENTER INTO** **DIGITAL MARKETING SPACE**

**CONVENOR**

**DR. VANDANA GANDOTRA**  
ASSOCIATE PROFESSOR

**DR. NEERAJ KUMAR SHARMA**  
ASSISTANT PROFESSOR

**26<sup>TH</sup> SEPTEMBER 2020**

**12:00 - 2:00 PM**



[REGISTER HERE](#)

**COORDINATOR**

**SAKSHI TAARESH KHANNA**  
ASSISTANT PROFESSOR

**PATRON**

**DR. RAKESH KUMAR GUPTA**  
PRINCIPAL



## RAM LAL ANAND COLLEGE

BENITO JUAREZ MARG NEW DELHI - 110021  
UNIVERSITY OF DELHI

### DEPARTMENT OF COMPUTER SCIENCE

#### CERTIFICATE OF APPRECIATION

This certificate is presented to **Mr. Himanshu Gaba** for sharing his expertise as a speaker in a webinar on "**Basics of Digital Marketing & How to enter into Digital Space**" organized by Department of Computer Science on **26th September 2020**.

  
Ms. SAKSHI TAARESH KHANNA  
Coordinator

  
DR. VANDANA GANDOTRA  
Convenor

  
DR. NEERAJ KUMAR SHARMA  
Convenor

  
DR. RAKESH KUMAR GUPTA  
Principal



basics of Digital x Meet - Webinar on "Basics of Digital Marketing" x

meet.google.com/amq-zznq-hbr

REC HIMANSHU GABA is presenting

Webinar on "Basics of Digital Marke...

People (90)

Add people

Host controls

Computer Science (You)

Aanand Thakur

AARTI NAYAK

AASHIYA TANWAR

AASIF CS

AASTHA SHARMA

Abhigyan Mishra

ADITYA GRI

Fogg - Phir Khatam

Aanand Thakur  
Fogg chhi rha h saaj kal

SUMIT NEGI  
Good catchy advertisment

Ritik Joshi  
They represented themselves as the brand with no gas and only perfume

Neeraj Kumar

HIMANSHU G...

Vandana Gand...

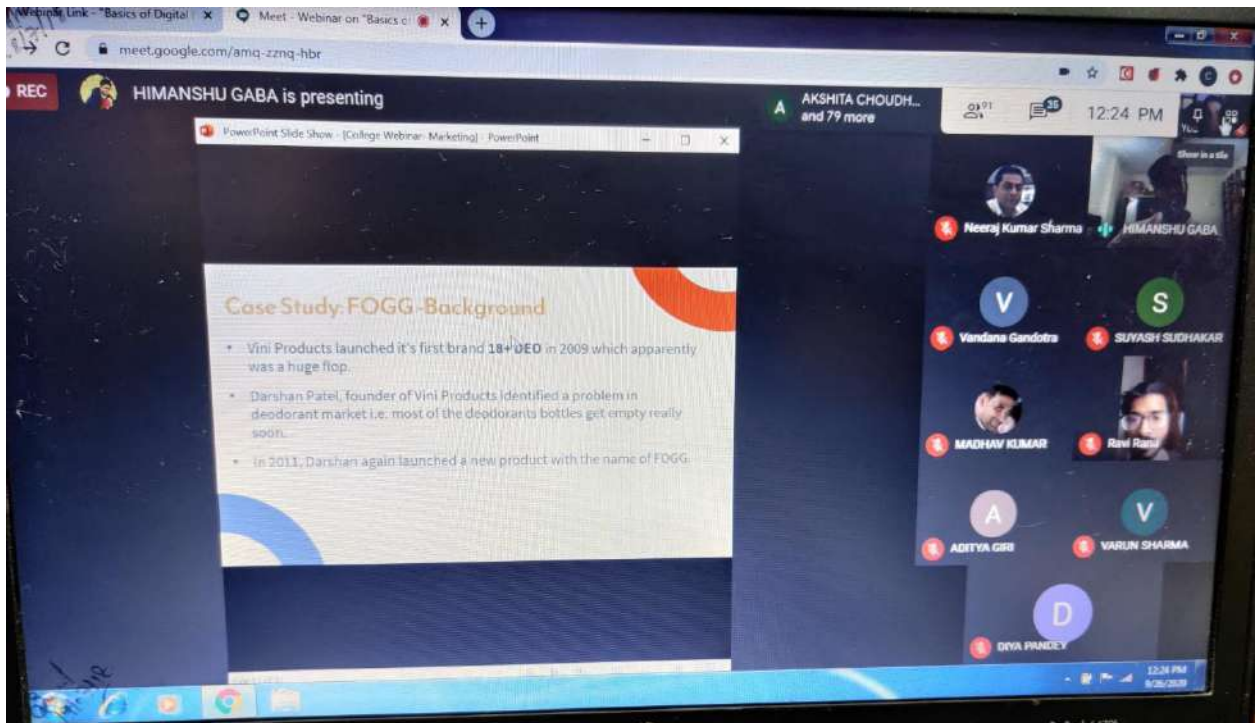
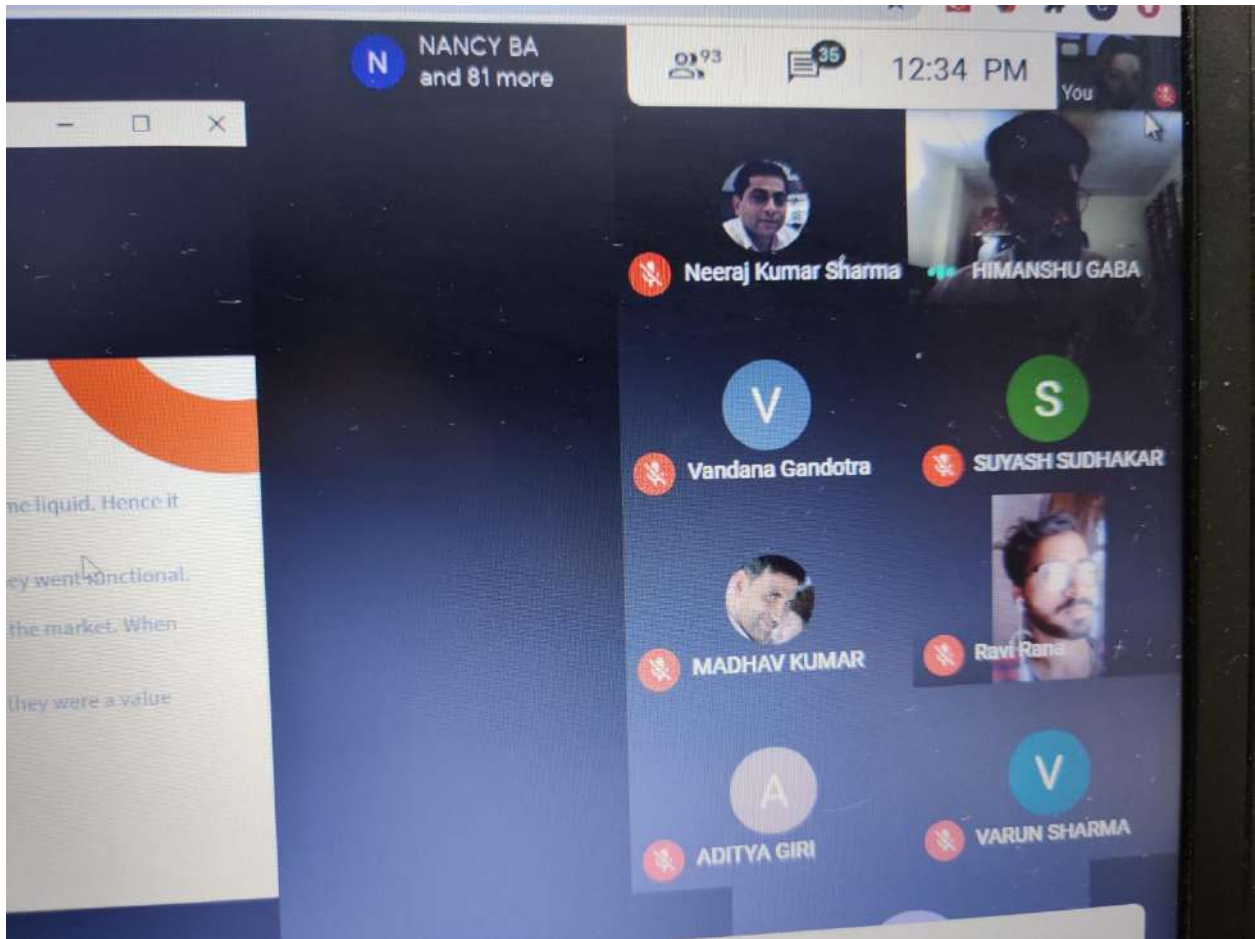
SUYASH SUD...

MADHAV KD...

ADITYA GABA

12:22 PM  
9/26/2020







## Poster Making Competition

Organized by the

Department

Of Computer Science

**NAME OF THE EVENT:** Poster Making Competition on Environmental Awareness

**NATURE OF THE EVENT:** Interdepartmental/IntraCollege

**DATE AND DURATION:** Event took place on **19/09/2020** and duration of one full day (9 am to 11:59 pm on 19/09/2020) was given to participants to make and upload the poster.

**VENUE:** Google Classroom

**NUMBER OF PARTICIPATING STUDENTS:** 10 (online) students participated from various departments.

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 2

Ms. Manisha Wadhwa Arora

Ms. Nupur Tyagi

**JUDGES:**

Dr. Neeraj Kumar Sharma, Department of Computer Science

Dr. Swagata Karmakar, Department of Environmental Science

Dr. Sunila Hooda , Department of Microbiology

**BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized an interdepartmental Poster Making Competition on 19<sup>th</sup> September 2020. The registration was open one week before the competition and the participants were asked to join the Google Classroom meant for same. 10 students (online) participated in the event. In addition to the students of Computer Science, students participated from various departments of the college such as B.A. (P), B Com. (H) etc.

To name a few. Topic was given as World Forestry Day on the day at 9:00 AM .Posters were to be submitted till EOD. Posters allowed were hand made as well as digital. All the participants came up with wonderful ideas and picturization, and the posters were reflective of this. The participants submitted their posters to the organizers which were screened online by the judges and were evaluated based on various criteria. The total marks of a participant were obtained by adding the marks of all the three judges. Based on the same, three winners were selected.

To sum up at the end, it was a successful event where the purpose of enlightening our youth and an attempt to make them more enthusiastic over the subject of Environmental Awareness was fulfilled in a very interesting way.

**FUNDING/SPONSORSHIP RECEIVED (IF ANY):** The event was sponsored by the college. Approved Budget was Rs. 1250 and the Actual Expense was Rs. 1250

**AWARDS GIVEN:**

1<sup>st</sup> Prize worth Rs. 750 ,

2<sup>nd</sup> Prize worth Rs.500 through RTGS.

3<sup>rd</sup> Prize -Certificate.

Prize Money sent through RTGS.

**1<sup>st</sup> Prize** went to Aparna Luthra, B.A Programme, [aparnaluthra039@gmail.com](mailto:aparnaluthra039@gmail.com)

**2<sup>nd</sup> Prize** went to Ashish Tripathi, B.Sc (H) CS, [ashishtripathi75941@gmail.com](mailto:ashishtripathi75941@gmail.com)

**3<sup>rd</sup> Prize** went to Kamal Dobriyal, B.Sc(H) CS, [kamaldobriyal19058570062@rla.du.ac.in](mailto:kamaldobriyal19058570062@rla.du.ac.in)

# Poster of the event

 **RAM LAL ANAND COLLEGE**  
UNIVERSITY OF DELHI 

DEPARTMENT OF COMPUTER SCIENCE

TOPIC WILL BE SHARED VIA GOOGLE CLASSROOM NAMED POSTER MAKING ON 19  
SUBMIT POSTERS BY THE END OF DAY ON GOOGLE CLASSROOM

# POSTER MAKING COMPETITION

RELATED TO ENVIRONMENTAL AWARENESS

DATE : 19/9/2020 SAT  
TIME : 9:00 AM ONWARDS

INTERESTED STUDENTS CAN JOIN GOOGLE CLASSROOM

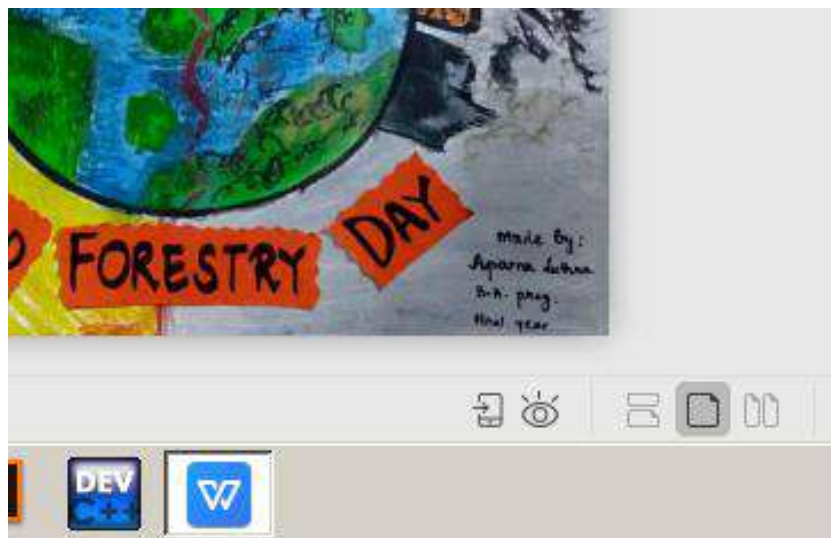
**Class code : s6xq6no**

UPLOAD  
CAMSCANNED PDF  
BY EOD FOR HAND MADE  
POSTERS

CERTIFICATE FOR ALL THE PARTICIPANTS  
EXCITING PRIZES FOR TOP THREE WINNERS

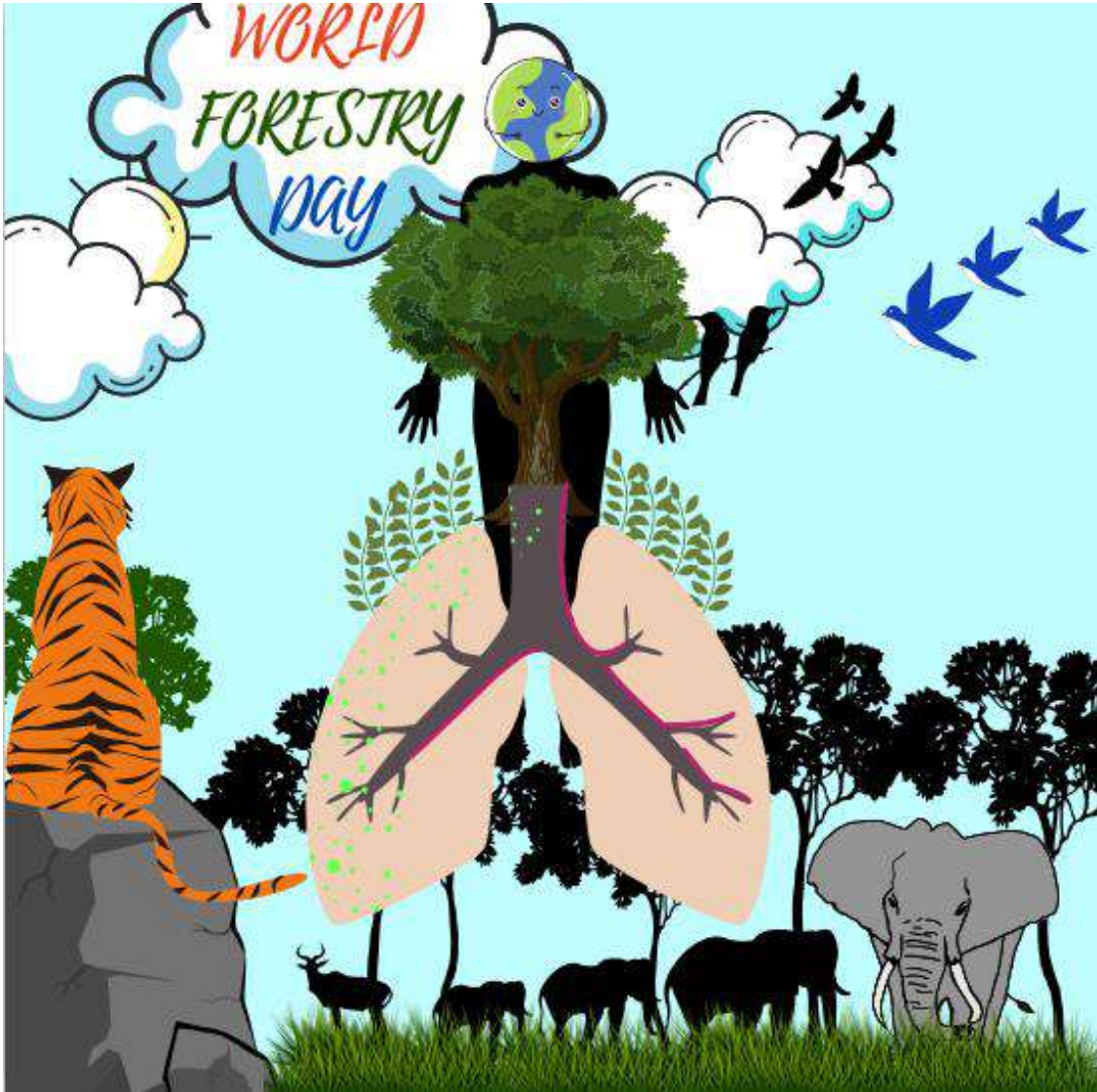
POSTERS  
CAN BE  
DIGITAL/HAND MADE

# Posters of Winners



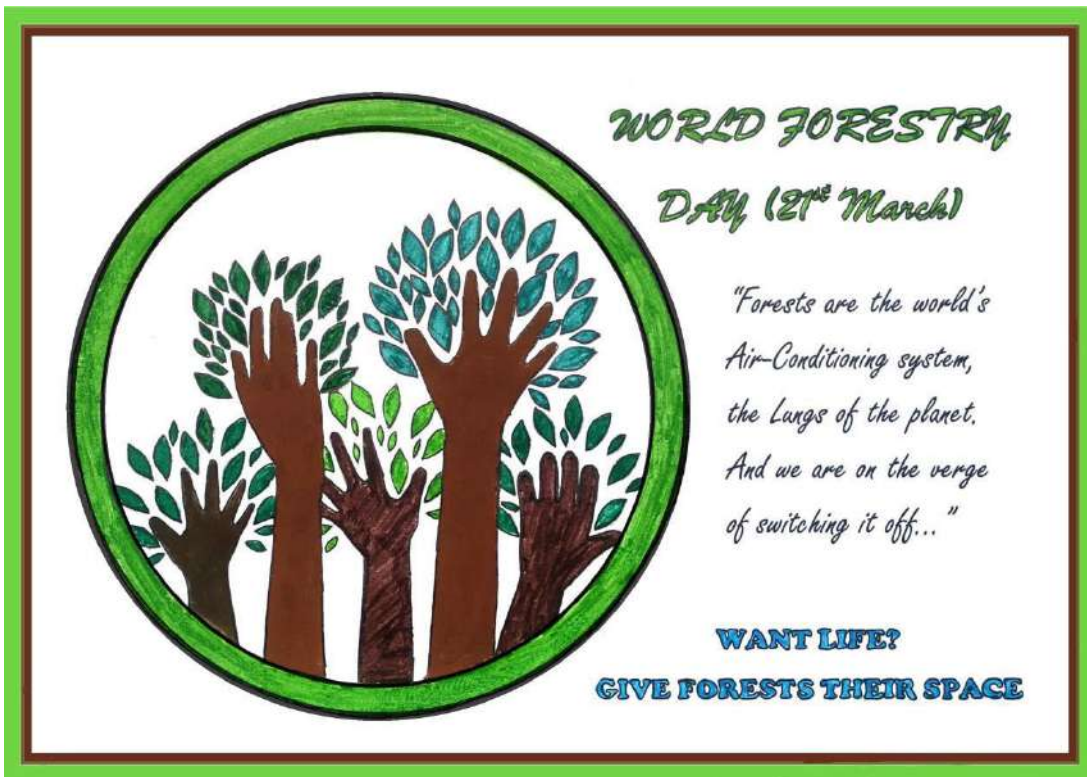
First Prize Winner





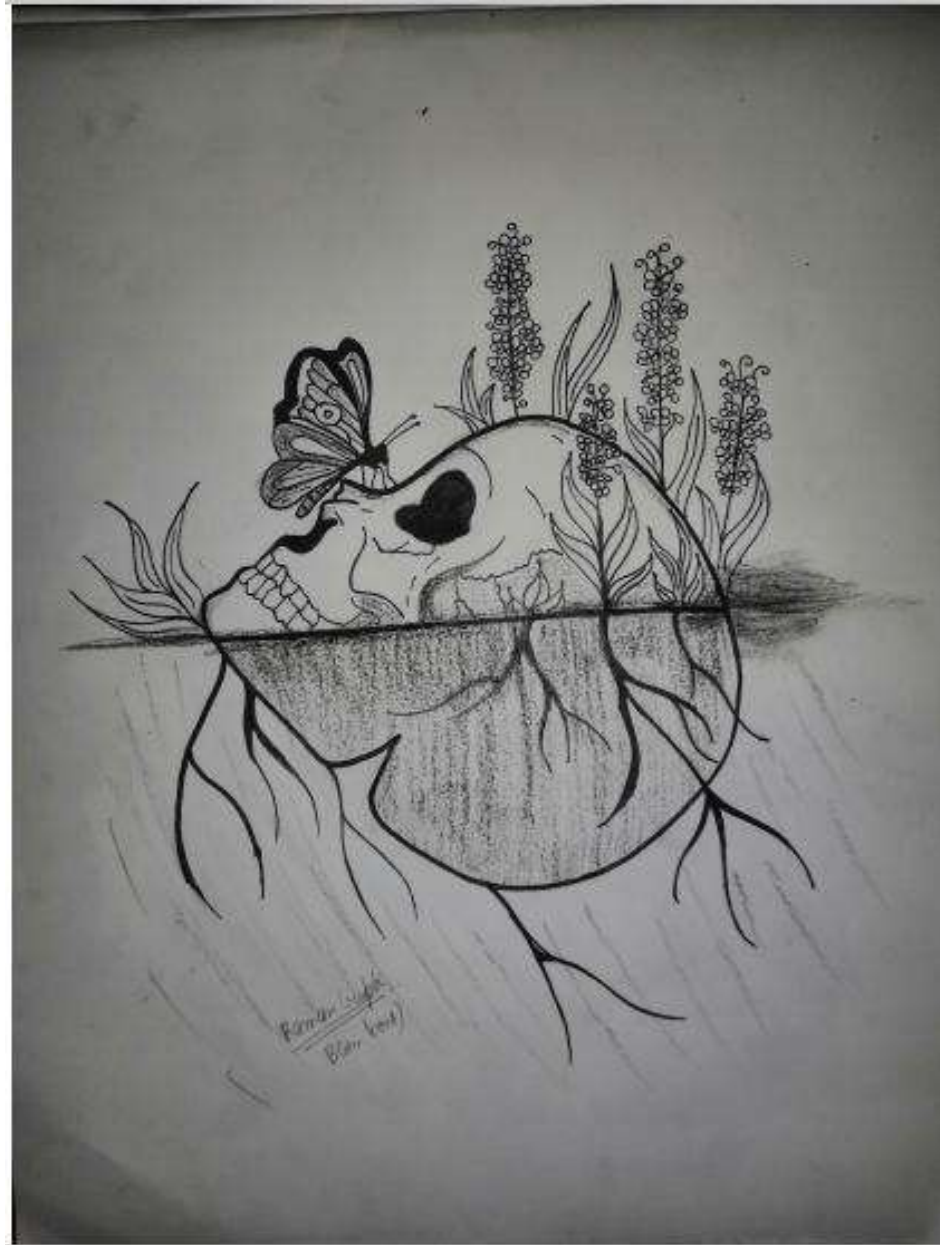
Second Prize Winner





Third Prize Winner

## Some Other Posters





**WORLD FOREST DAY**

WILL YOU BE ABLE TO LIVE WITHOUT US?

ONLY YOU CAN SAVE US

## **Report on Learnathon 2020**

**Name: Learnathon 2020**

**Nature: IntraCollege**

**Date: 04 May 2020 to 30 June 2020**

**Venue: Online on ICT Website**

**Number of Participants :- 55**

Summary:

The Department of Computer Science, Ram Lal Anand College organized Learnathon 2020-The Digital Learning Series in collaboration with ICT Academy from 4th May 2020 to 30<sup>th</sup> June 2020 for the students of all branches.

These were the Courses with Total Hours of e.Learning .

- 1) Automation Anywhere- RPA Foundation – 11 Modules-12 Hours
- 2) Amazon Internet Services Pvt Ltd-AWS Inventor- 8 Hours
- 3) Amazon Internet Services Pvt Ltd -Cloud Computing -101-9 Hours
- 4) CISCO-Introduction to Packet Tracer-10 Hours
- 5) CISCO-Cybersecurity Essentials-15 Hours
- 6) CISCO-Introduction to Internet of Things-20 Hours
- 7) CISCO-Entrepreneurship-15 Hours
- 8) MatLab-Machine Learning Onramp-02 Hours
- 9) Matlab-Deep Learning Onramp-02 Hours
- 10) Salesforce-Become Job Ready for Developer - Trailmix 1 -12 Modules-12 Hours
- 11) STEP - The Hindu Group-Stepathon - Communication Skills-10 Hours
- 12) VMWare-Software-Defined Storage Concepts-9 Hours
- 13) VMWare -Network Virtualization Concepts-09 Hours

Online Registration Open-25 April 2020

Online Registration Close-02 May 2020

Self-learning Start Date-04 May 2020

Self-Learning End Date-30-June 2020





# Ram Lal Anand College

(University of Delhi)



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- NAAC
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- TENDERS/QUOTATIONS
- QUICK LINKS
- DOWNLOADS

Department of Computer Science, Ram Lal Anand College in collaboration with ICT Academy presents Learnathon 2020-The Digital Learning Series from 04th May 2020 to 16th May 2020 - Register



## Notices @ RLA College

Notification - Academic Calendar for semester extension

Paper Code of all courses

Regarding Student Portal to fill the Online Examination Form of Ex and Regular students of all UG and PG courses.

Novel Coronavirus (Covid-19)

OBSERVING JANTA CURFEW

In accordance to Delhi University Office Order, the college shall remain closed till 31.3.2020

[View All....](#)

riacollege.edu.in/RLA\_Learnathon\_2020.jpg

In Partnership with

**ICTACADEMY**

presents

**NEW INDIA**  
LEARNATHON - 2020  
LEARNING UNBLOCKED

THE MASSIVE STUDENTS LEARNATHON OF INDIA

For Students of Universities, Engineering Colleges and Arts & Science Colleges of India

Registration opens by :25 April 2020 | Registration closes by :02 May 2020  
Self-learning starts by :04 May 2020 | Self-learning ends by :16 May 2020

Powered by

www.ictacademy.in/learnathon2020



**PANDIT MADAN MOHAN MALVIYA NATIONAL MISSION ON  
TEACHERS AND TEACHING  
(PMMMNTT)**

**DEPARTMENT OF COMPUTER SCIENCE  
RAM LAL ANAND COLLEGE  
UNIVERSITY OF DELHI**

*In collaboration with*

**TEACHING LEARNING CENTRE (TLC)  
RAMANUJAN COLLEGE  
UNIVERSITY OF DELHI**

*Organized*

**ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME  
ON  
“INTRODUCTION TO MACHINE LEARNING IN RESEARCH  
(CONCEPTS & PRACTICAL USE)”  
10<sup>TH</sup> October - 18<sup>TH</sup> October, 2020**



## DETAILED REPORT OF THE ONE WEEK FACULTY DEVELOPMENT PROGRAMME

**“INTRODUCTION TO MACHINE LEARNING IN RESEARCH  
(CONCEPTS & PRACTICAL USE)”**

### CONCEPT NOTE

A five days Faculty development programme on “Introduction to Machine Learning in Research (Concepts & Practical Use)” was successfully conducted by the Department of Computer Science Ram Lal Anand College in association with Teaching Learning Centre of Ramanujan College from 10<sup>th</sup> October to 18<sup>th</sup> October 2020. The FDP programme received an overwhelming response with overall 135 participants from various colleges across nation.

The FDP aimed to provide opportunities to faculty members and research scholars so as to enrich their teaching skills and research ideas in machine learning and its applications.

## OBJECTIVES

- ❖ The objective of the FDP is to introduce fundamentals of machine learning with real-time applications.
- ❖ Also to enrich the knowledge and research competencies in the field of machine learning of all participants.
- ❖ To improve the teaching learning process and benefits the society.
- ❖ The faculties and research aspirants gain awareness about the fundamental concepts of Machine Learning. and apply the same in practice or as a foundation to a deeper study in this area.

## **PROGRAMME SCHEDULE OF INAUGURAL SESSION**

October 10, 2020

2:30 - 2:35 P.M.	<b>Introduction to Faculty Development Programme Welcome of Principal Ram Lal Anand College</b>
2:35 - 2:45 P.M.	<b>Address by Dr. Rakesh Kumar Gupta Principal, Ram Lal Anand College, University of Delhi</b>
2:45 - 2:50 P.M.	<b>Welcome of Principal Ramanujan College</b>
2:50 - 3:00 P.M.	<b>Address by Dr. S. P. Aggarwal Principal, Ramanujan College, University of Delhi</b>
3:00 - 3:05 P.M.	<b>Introduction &amp; welcome of the Chief Guest Professor Naveen Kumar Department of Computer Science, North Campus</b>
3:05 - 3:15 P.M.	<b>Keynote Address by the Chief Guest</b>
3:15 - 6:00 P.M.	<b>Session 1</b>

## INAUGURAL SESSION



Chief Guest  
Professor Naveen Kumar  
Department of Computer Science  
University of Delhi



Professor Rakesh Kumar Gupta  
Principal  
Ram Lal Anand College  
University of Delhi



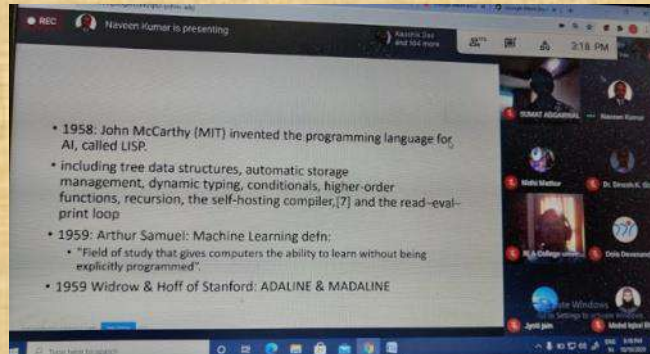
Professor S.P. Aggarwal  
Principal  
Ramanujan College  
University of Delhi





## Day-wise Summary

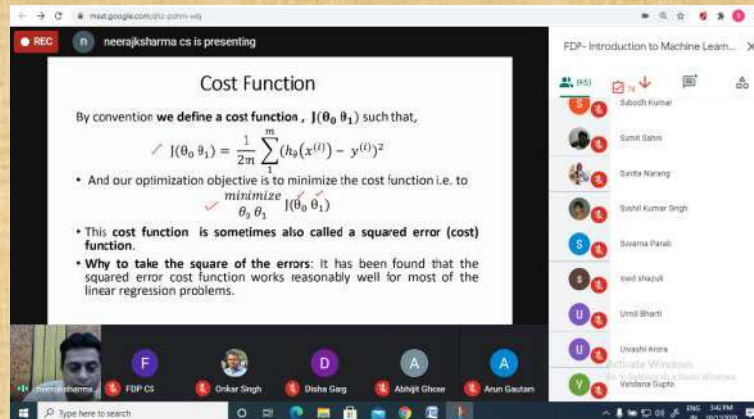
### DAY-1 (10<sup>th</sup> October 2020)



The FDP on Introduction to Machine Learning in Research (Concepts and Practical Use) began on 10<sup>th</sup> October 2020 with an inauguration at 2:30 p.m., where the opening remarks and introduction of FDP was presented by Ms. Sakshi Taarsh Khanna, Assistant Professor, Dept. of Computer Science and Ms. Nidhi Mathur, FDP coordinator, Ramanujan College. Later Dr. Rakesh Kumar Gupta, Principal Ram Lal Anand College addressed the participants explaining the importance and relevance of the topic in today's scenario. Dr. S.P. Aggarwal, Principal Ramanujan College reminded the participants how important for a teacher to keep abreast with the latest technologies and also briefed about the ongoing convergence of the technology that are poised to transform into Industry 4.0 and what is their impact on different verticals of industry. Later Professor Naveen Kumar, Department of Computer Science, University of Delhi or Chief Guest of the day briefed about machine learning and its growing importance in daily life. Professor Naveen Kumar explained the application of machine learning in the field of medical sciences. With his interesting and inspiring speech the inauguration came to an end. Post inauguration our first session of the FDP began, where Dr. Neeraj Kumar Sharma our first speaker of the day introduced the topic machine learning to the participants. He also discussed the latest trends which are observed in various researches and the perception for the same, later he explained the concept of linear algebra. In his lecture he also discussed the relevant algorithms like supervised, unsupervised with algorithm implementation using Python.

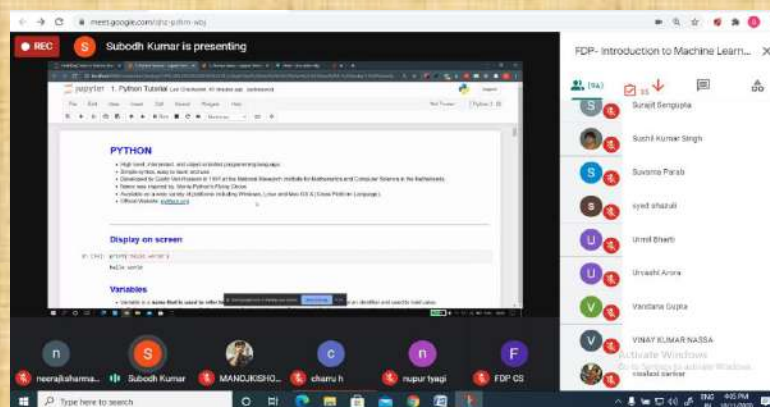
Later in the second session of the FDP, Mr. Subodh Kumar, research Scholar, University of Delhi our second speaker of the day, motivated the participants to learn the concepts of Machine learning through hands-on experience. He demonstrated the step by step installation of Anaconda software and also an alternative Google collaboration.

## DAY-2 (11<sup>th</sup> October 2020)



The screenshot shows a Zoom meeting window. The main content is a slide titled "Cost Function". The slide text reads: "By convention we define a cost function,  $J(\theta_0, \theta_1)$  such that," followed by the equation 
$$J(\theta_0, \theta_1) = \frac{1}{2m} \sum_{i=1}^m (h_{\theta}(x^{(i)}) - y^{(i)})^2$$
. Below the equation, it says "And our optimization objective is to minimize the cost function i.e. to minimize  $J(\theta_0, \theta_1)$ ". A second bullet point states: "This cost function is sometimes also called a squared error (cost) function." A third bullet point explains: "Why to take the square of the errors: It has been found that the squared error cost function works reasonably well for most of the linear regression problems." The Zoom interface shows a list of participants on the right and a toolbar at the bottom.

In the FDP on Introduction to Machine Learning in Research (Concepts and Practical Use) Dr. Neeraj Kumar Sharma covered overview of Machine Learning and Linear Regression. He explained that machine learning can be broadly defined computational methods using experience to improve performance or to make accurate predictions, where experience refers to the past information available. Machine Learning is used to predict, categorize, classify, finding polarity from the given datasets and concerned with minimizing the errors. ML uses training data for AI.

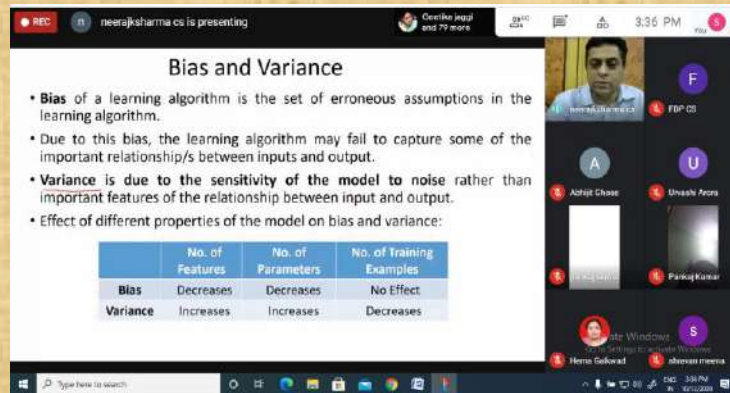


The screenshot shows a Zoom meeting window. The main content is a slide titled "PYTHON". The slide text reads: "Python is a high-level, interpreted, interactive, object-oriented programming language." It lists several key features: "2. It is designed to be easy to learn and use.", "3. It is designed to be easy to write and use.", "4. It is designed to be easy to read and use.", "5. It is designed to be easy to write and use.", "6. It is designed to be easy to read and use.", "7. It is designed to be easy to write and use.", "8. It is designed to be easy to read and use.", "9. It is designed to be easy to write and use.", "10. It is designed to be easy to read and use." The slide also includes a "Display on screen" section with a code editor and a "Variables" section. The Zoom interface shows a list of participants on the right and a toolbar at the bottom.

Later in the second session Mr. Subodh Kumar gave a brief introduction of Python, NumPy, and Pandas. The participants got an exposure to how to start using these libraries and hands-on experience to learn how to create arrays, list, dictionary, dataframe; how to use slicing, indexing, iterating, linear algebra, how to load datasets in memory from different file formats, etc.



## DAY-3 (12<sup>th</sup> October 2020)



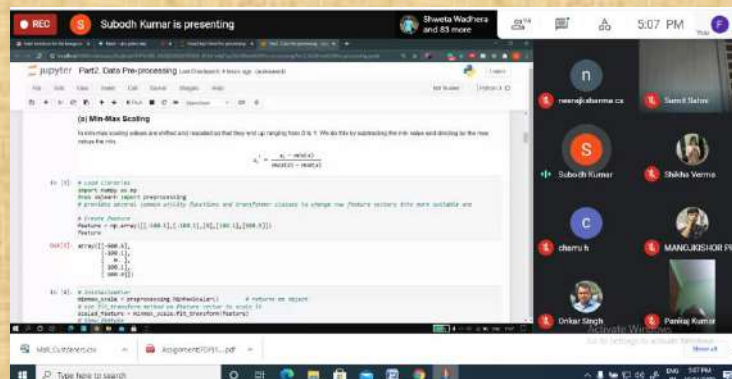
The screenshot shows a Zoom meeting window. The main content is a slide titled "Bias and Variance". The slide contains the following text:

- **Bias** of a learning algorithm is the set of erroneous assumptions in the learning algorithm.
- Due to this bias, the learning algorithm may fail to capture some of the important relationship/s between inputs and output.
- **Variance** is due to the sensitivity of the model to noise rather than important features of the relationship between input and output.
- Effect of different properties of the model on bias and variance:

	No. of Features	No. of Parameters	No. of Training Examples
<b>Bias</b>	Decreases	Decreases	No Effect
<b>Variance</b>	Increases	Increases	Decreases

The slide also shows a Zoom meeting interface with several participants listed on the right side, including Neeraj Sharma, Anshu Chatterjee, Unshu Arora, Parag Kumar, and others.

First Session on Day 3 was handled by Dr. Neeraj Kumar Sharma. He explained Gradient Descent as a first-order iterative optimization algorithm for finding the minimum of a function. To find a local minimum of a function using gradient descent, one takes steps proportional to the negative of the gradient of the function at the current point. He also explained how gradient descent can be used as an optimization algorithm to minimize some function by iteratively moving in the direction of steepest descent as defined by the negative of the gradient. This can be used to update the parameters of any model. The session was highly appreciated by all the participants.



The screenshot shows a Zoom meeting window. The main content is a Jupyter Notebook slide titled "Part 2: Data Pre-processing". The slide contains the following text:

(i) Min-Max Scaling

Normalizing values between 0 and 1 is useful and required so that they are comparable from 0 to 1. We do this by subtracting the min value and dividing by the max minus the min.

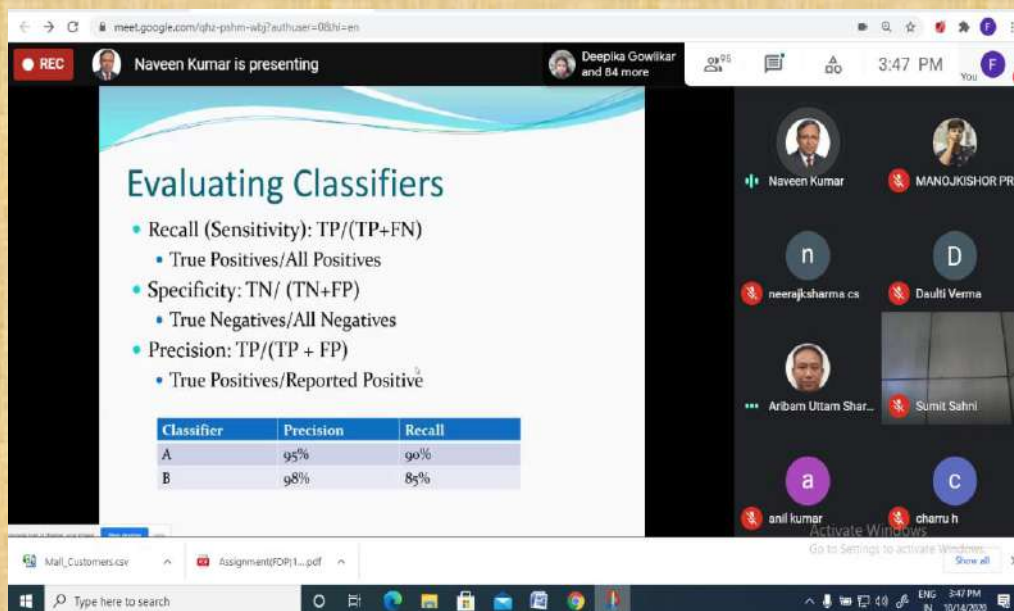
$$\frac{x - \min(x)}{\max(x) - \min(x)}$$

```
def min_max_scaling(x):  
    """Min-Max Scaling"""  
    # Input: Column vector of data  
    # Output: Column vector of normalized data  
    # Returns: Column vector of normalized data  
    # Example: min_max_scaling([1, 2, 3, 4, 5])  
    # Returns: [0.0, 0.25, 0.5, 0.75, 1.0]  
    min_val = np.min(x)  
    max_val = np.max(x)  
    return (x - min_val) / (max_val - min_val)
```

The slide also shows a Zoom meeting interface with several participants listed on the right side, including Neeraj Sharma, Subodh Kumar, Shikha Verma, Chatur B, Manoj Kumar, and others.

The next session was undertaken by Mr. Subodh Kumar, in which he explained the data preprocessing steps by simple example. He discussed various techniques for data-preprocessing like feature scaling, detecting and removing outliers, handling missing values, etc. After that he explained data visualization which is an important and integral part of any kind of research.

## DAY-4 (14<sup>th</sup> October 2020)



The screenshot shows a Google Meet interface. The main content is a presentation slide titled "Evaluating Classifiers". The slide lists three metrics:

- Recall (Sensitivity):  $TP / (TP + FN)$ 
  - True Positives / All Positives
- Specificity:  $TN / (TN + FP)$ 
  - True Negatives / All Negatives
- Precision:  $TP / (TP + FP)$ 
  - True Positives / Reported Positive

Below the text is a table comparing two classifiers, A and B:

Classifier	Precision	Recall
A	95%	90%
B	98%	85%

The Meet interface also shows a sidebar with participant avatars and names: Naveen Kumar, MANOJKISHOR PRL., neerajsharma.cs, Daulti Verma, Aribam Uttam Shar..., Sumit Sahni, anil kumar, and charru h. The top bar indicates "Naveen Kumar is presenting" and "3:47 PM".

On the fourth day of FDP, Professor Naveen Kumar from Department of Computer Science North Campus, University of Delhi was the resource person. His topic for the day was “Machine Learning Practical Guidelines”. He began the session by giving the insights on some good courses available online and some famous author’s works and e-books available. He emphasized and explained how in machine learning and statistics, classification a supervised learning approach in which system learns from is given input data and then how this learning is used to classify new observations. This data set may be bi-class (like identifying the image as cat or non-cat) or it may be multi-class. He talked about when we feed the machine with more data, which enables the algorithms that cause it to learn, you can easily improve on the delivered results. Professor Naveen also explained how the bias and variance provide the tools to understand the behavior of machine learning algorithms in the pursuit of predictive performance. Also showcased the examples where machine learning algorithms surpass human level performance – predicting movie ratings, how long will it take to drive somewhere and whether to approve a loan application etc. The session wined up with vote of thanks for the special session to the resource person Prof. Naveen Kumar.



## DAY-5 (16<sup>th</sup> October 2020)

Participants were given time to prepare for the assignment.

## DAY-6 (17<sup>th</sup> October 2020)

**Gradient Descent (Single vs. Multiple Variables)**

Let us compare computing of parameter values in Gradient Descent for one input feature, with the Gradient Descent for multiple features.

**Gradient Descent - Previously [eq1]:**

Repeat {

$$\theta_0 := \theta_0 - \alpha \frac{1}{m} \sum_{i=1}^m (h_{\theta}(x^{(i)}) - y^{(i)}) x_0^{(i)}$$

} (simultaneously update  $\theta_0, \theta_1$ )

**New algorithm [eq2]:**

Repeat {

$$\theta_j := \theta_j - \alpha \frac{1}{m} \sum_{i=1}^m (h_{\theta}(x^{(i)}) - y^{(i)}) x_j^{(i)}$$

} (simultaneously update  $\theta_j$  for  $j=0,1,\dots,n$ )

$\theta_0 := \theta_0 - \alpha \frac{1}{m} \sum_{i=1}^m (h_{\theta}(x^{(i)}) - y^{(i)}) x_0^{(i)}$

$\theta_1 := \theta_1 - \alpha \frac{1}{m} \sum_{i=1}^m (h_{\theta}(x^{(i)}) - y^{(i)}) x_1^{(i)}$

$\vdots$

$\theta_n := \theta_n - \alpha \frac{1}{m} \sum_{i=1}^m (h_{\theta}(x^{(i)}) - y^{(i)}) x_n^{(i)}$

Dr. Neeraj Kumar Sharma took the first session of Day 6. He explained how to formulate the hypothesis and cost function of multi-variate linear regression. He discussed choice of learning rate and gradient descent in practice. He also explained polynomial regression which can be used to fit non-linear functions, overfitting, ways of handling overfitting, and normal equation which is an analytical method of solving linear regression. Later, he explained when to gradient descent or normal equation for implementation.

```
Day6 Linear Regression Last Checkpoint Last Thursday at 7:00 PM (autosaved)
```

Create feature and target

```
30 [219]: x = data[['TV']]
        y = data['Sales']
```

Train-Test Split

```
31 [229]: from sklearn.model_selection import train_test_split
        X_train, X_test, y_train, y_test = train_test_split(x, y, train_size = 0.7, test_size = 0.3)
        print(X_train, X_test)
```

```
32 [237]: x_train = data.loc[:, data.columns[0]]
        X_train.head()
```

TV
1
44.5
19
24
18

In the later session, Mr. Subodh Kumar gave a hands-on example of how to use linear regression for predicting the sales of a product. For this purpose, he used the advertising dataset. This dataset is about the amount spent on advertising by a company through various platforms like TV, Radio and Newspaper. He first discussed how to create a linear model using one feature, then demonstrated how to create a multi-variate linear regression model using more than one features. He used the learnt model to predict the sales of the product.



# **Report on Creative Writing Competition on Gender Sensitization organized by Department of Computer Science**

**NAME OF THE EVENT:** Creative Writing Competition on Gender Sensitization

**NATURE OF THE EVENT:** Inter College/ University

**DATE AND DURATION:** One day - 24 October, 2020

**VENUE:** Online on Google meet

**NUMBER OF PARTICIPATING STUDENTS:** 38 Students

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** All the faculty members of the Department of Computer Science

**JUDGES:** Dr. Shruti Anand ( Convener, ASMI) , Dr. Ritambhara Mishra (Convener, Creative Writing Society) and Dr. Vandana Gandotra (HOD, Department of Computer Science)

**Course Coordinator :-** Shikha Verma and Arun Kumar Gautam

## **BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized a one day Creative Writing Competition on Gender Sensitization on 24th October, 2020 online on google meet and google classroom.

The participation was from various colleges of Delhi University.

There were 2 topics given by the judges :-

- 1) Is Pink only a color?
- 2) Is Language Gender Biased?

A total of 38 students participated and submitted their articles on Google classroom which were judged by our esteemed judges:-

- 1) Dr. Shruti Anand (Convener from ASMI- The Gender Sensitization Society of RLAC )
- 2) Dr. Ritambhara Mishra (Convener, Creative Writing Society)
- 3) Dr. Vandana Gandotra (HOD, Department of Computer Science)



**RAM LAL ANAND COLLEGE  
DEPARTMENT OF COMPUTER SCIENCE**

is organising  
Creative Writing competition  
on

# Gender Sensitization

Date : 24 October 2020

Time : 11 am onwards

**REGISTRATION LINK: [CLICK HERE](#)**

Cash prizes for  
top 2 winners

**COORDINATOR** Arun Kumar Gautam  
Shikha Verma

**PATRON** Dr. Rakesh Kumar Gupta

*Creative Writing*



# **Certificate Course organized by Department of Computer Science**

**NAME OF THE EVENT:** Certificate Course on Vector Design and Animation

**NATURE OF THE EVENT:** Inter College/ University

**DATE AND DURATION:** 20th June to 20th July, 2020 (One Month)

**VENUE:** Online on Google meet

**NUMBER OF PARTICIPATING STUDENTS:** 54 Students

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** All the faculty members of the Department of Computer Science

**JUDGES:** Student Trainers

**Course Coordinator :-** Shikha Verma

## **BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized a one month Certificate Course on Vector Design and Animation from 20th June, 2020 to 20th July , 2020 online on Google meet.

The participation was from various colleges and universities and The course consisted of a well structured division of topics into 3 different softwares Photoshop Illustrator and Animation divided among 20 classes including the installation and setup to doubt session from our esteem trainers.

A total of 54 certified students were assessed through 15 assignments and quizzes. The participants varied from a number of courses ranging from B.Sc.(Hons.) Computer Science (25), BJMC - (11), BSc(Hons.) Microbiology-(2), B.Sc(Hons)Statistics- (2), BTech-(3), B.A (Hons) Political Sc(1), B.A(H) Geography- (1) B.A(Hons.) English(2), B.A(Programme)(1), B.Com-(2), B.Com(1), Bsc. Physical science with computer science –(1) , Human resource management-(1) and other. The count ranged from 25 in house RLA students while 29 students were from other Colleges/University

# VECTOR DESIGNING AND ANIMATION COURSE SCHEDULE

MODULE	DATE	TIME
Photoshop		
Module 1	20th June, Saturday	4PM - 6PM
Module 2	21st June, Sunday	4PM - 6PM
Module 3	23rd June, Tuesday	4PM - 6PM
Module 4	25th June, Thursday	4PM - 6PM
Module 5	27th June, Saturday	4PM - 6PM
Illustrator		
Module 6	30th June, Tuesday	4PM - 6PM
Module 7	2nd July, Thursday	4PM - 6PM
Module 8	5th July, Sunday	4PM - 6PM
Module 9	7th July, Tuesday	4PM - 6PM
Module 10	9th July, Thursday	4PM - 6PM
Animate		
Module 11	12th July, Sunday	4PM - 6PM
Module 12	14th July, Tuesday	4PM - 6PM
Module 13	16th July, Thursday	4PM - 6PM
Module 14	18th July, Saturday	4PM - 6PM
Module 15	20th July, Monday	5PM - 7PM



**Ram Lal Anand College**

Benito Juarez Marg, New Delhi-110021  
(University Of Delhi)



**Department Of Computer Science**

Presents  
Certificate Course  
on



# Vector

Designing And  
Animation

1 Month Course || No Prior Knowledge Required || Open For All || Free Course

[Click Here To Register](#)

Registration on the basis of First Come First Serve-(50 Seats Only)\*  
Certificate on Completion and Submission of Project/Assignment\*

## ABOUT THE RESOURCE PERSON- RISHAB JAIN

- Well-Versed with the Software like:-
  - Coral Draw,
  - Adobe Photoshop
  - Adobe Illustrator
  - Adobe XD
  - Adobe Animate
  - Adobe Premier
- Certified Professional Desk Top Publisher
- Completed the Diploma in Advanced Multimedia

## ABOUT THE RESOURCE PERSON- TARUN KUMAR

- Well-Versed with the Software like:-
- Windows
  - Adobe Photoshop
  - Adobe Illustrator
  - Blender
  - Adobe Animate
  - Adobe Premier
- Linux
  - Inkscape
  - Blender

# **Report on Certificate Course on Modern Web Development Tools**

**NAME OF THE EVENT:** Certificate Course on Modern Web Development Tools

**NATURE OF THE EVENT:** National level event

**DATE AND DURATION:** 15<sup>th</sup> August 2020 to 7<sup>th</sup> October 2020, 30 hours

**MODE:** Virtual/ Online Mode via YouTube

**NUMBER OF PARTICIPATING STUDENTS:** 115

**NUMBER OF MALES AND FEMALES:** 64 Males + 52 Females

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 3

**SPEAKERS:** Ms. Sakshi Taresh Khanna (Assistant Professor Dept. of Computer Science Ram Lal Anand College) &

Mr. Anirudh Goel (Student, B.Sc. (H) Computer Science III Year)

## **BRIEF SUMMARY OF THE EVENT:**

Having a strong online presence has become essential for every business house. Good website improves the online presence and with constant rise in competition, it becomes more important to understand the design of website with latest tools.

This 30 hours certificate course in Modern Web Development Tools was designed to keep abreast with the latest technologies that are relevant in current scenarios. The course started on 15<sup>th</sup> August and ended on 7<sup>th</sup> October 2020. The course had Ms. Sakshi Taresh Khanna (Asst. Professor, Dept. of Computer Science) and Mr. Anirudh Goel (Student, B.Sc.(H) Computer Science III year) as speakers and got an overwhelming response from 400 participants from diverse fields across all over India. Participants were from reputed institutions like University of Delhi, Delhi Technical University, Guru Gobind Singh Indraprastha University, Punjab Technical University, Chandigarh University, Anna University, SRCC, Amity University, Graphic Era Hill University, Chitkara University, Graphic Era University, Invertis University, Bharathiyar University, HNBGU, Biju Patnayak University of Technology etc. The course covered the following topics: HTML, CSS, JavaScript, JQuery, NODEJS, EXPRESS, REACTJS, ELECRONJS, and SQL. In this course the students were introduced to topics in Web Technology. Students got an idea how to create web pages. The course helped them to have hands-on experience about how actual website designing, development and hosting takes place.



All the students really appreciated the contents that were discussed in all the sessions, they realized that interactions like these can help them improve their learning. Students showed keen interest in attending more workshops/ courses like this in future. Total of 115 students completed the course with the submission of all projects and assignments and got the certificate of competition. Out of which 64 were males and 52 were females. Wholeheartedly I, Sakshi Taaresh Khanna coordinator of the course thank our Principal Sir for giving us an opportunity and making this event a great success.

**FUNDING/ SPONSORSHIP RECEIVED (IF ANY): NA**

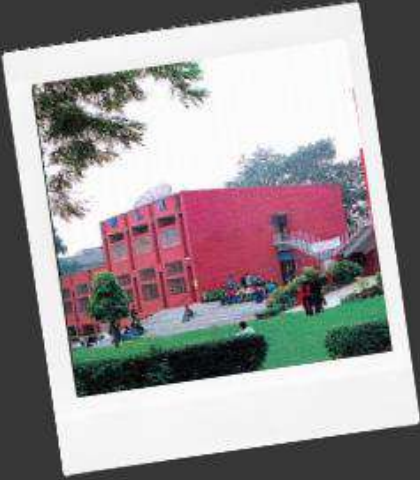
**PHOTOGRAPH EVIDENCES:**

### 1. Poster



## 2. Brochure

### About Ram Lal Anand College




— ” —

Ram Lal Anand College is a fully University maintained institution administered by a statutory Governing Body as per university ordinances and legislated by Executive Council of the University of Delhi.

Established as an institute of higher learning in 1964, RLA College embodies the ideal of a public funded higher educational institution with an emphasis on inclusivity, integration, quality and social equality. The College works with the motto "Shraddhawan Labhte Gyanam" which implies those earn knowledge who work for it with dedication.

— ” —


**RAM LAL ANAND COLLEGE**  
(UNIVERSITY OF DELHI)  
BENITO JUAREZ ROAD, NEW DELHI-110021  
rlacollege.edu.in



**DEPARTMENT OF COMPUTER SCIENCE**

PRESENTS

CERTIFICATE COURSE ON MODERN WEB DEVELOPMENT TOOLS



**PDELATED CODERS**

COURSE IS OPEN FOR THE STUDENTS FROM ALL DISCIPLINES.

CERTIFICATES WILL BE PROVIDED ON COMPLETION OF ASSIGNMENTS AND QUIZZES.

## COURSE DETAILS:

### DURATION

1.5 MONTH (15 AUG TO 30 SEPT) - 30 HOURS

### PLATFORM

YOUTUBE LIVE

### REQUIREMENTS

INTERNET CONNECTION AND A COMPUTER

### TOTAL - 5 PROJECTS

### TECHNOLOGIES COVERED:

HTML, CSS, JS, JQUERY, NODEJS, EXPRESS, REACTJS, ELECTRONJS, SQL

### FEES- NIL

### [CLICK HERE TO REGISTER](#)

### RESOURCE PERSON

Sakshi Taresh Khanna  
Email:  
sakshisahni.du@gmail.com

Anirudh Goel  
Mobile : 9068194171

## CONTACT DETAILS

Dr. Neeraj Kumar Sharma  
(Convener)

Assistant Professor  
Mobile: 9811638906

Dr. Vandana Gandotra  
(Convener)

Associate Professor  
Mobile: 9818288842

Sakshi Taresh Khanna  
(Course Co-ordinator)

Assistant Professor  
Mobile: 9953245840

## MEMBERS

1- Shikha Verma  
(9910085505)

2-Nupur Tyagi  
(9958653777)

3-Arun Kumar Gautam  
(9910712005)

4-Manisha Wadhwa Arora  
(9582332066)



## COURSE OUTLINE

COURSE IS DIVIDED INTO 4 MAJOR MODULES.

### MODULE - 1

HTML; CSS; JAVASCRIPT: BASIC TO INTERMEDIATE; JS IN BROWSER; JQUERY BASICS; GOOGLE MAPS AND FONTS;

### MODULE - 2

NODEJS; JS ADVANCE; NPM; IMAGE PROCESSING; EXPRESS; RESTFUL APIS; MVC; SQL;

### MODULE - 3

JSX INTRO; REACTJS: BASIC TO ADVANCE; REACT-ROUTING;

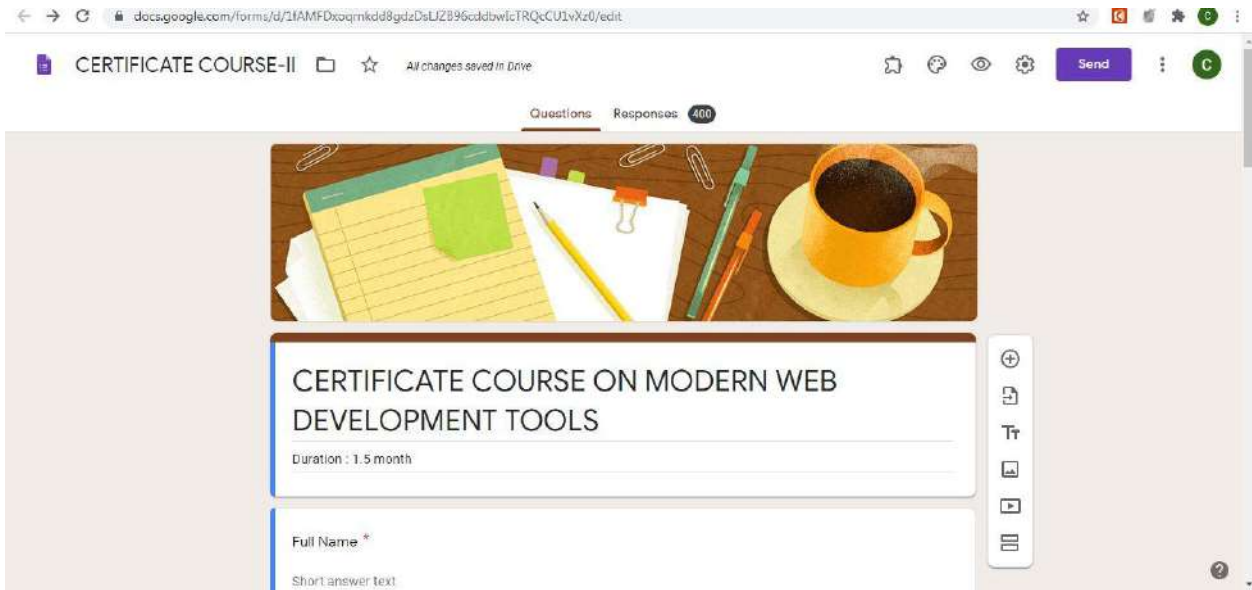
### MODULE - 4

ELECTRONJS; CONVERTING WEB APPS TO DESKTOP APPS; PACKING DESKTOP APPS; TIEING IT ALL TOGETHER;

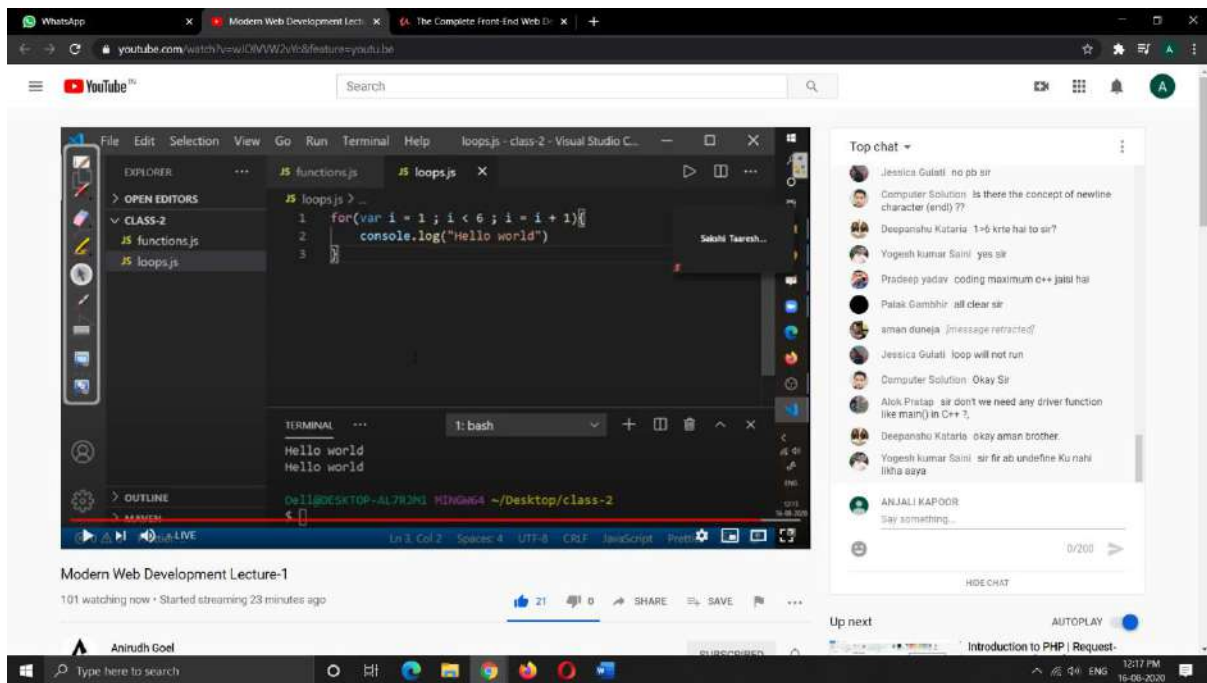
AFTER THIS COURSE YOU'LL BE CAPABLE TO MAKE WEB APPS LIKE TWITTER AND FULL-STACK WEBSITES.

### 3. Registration link on College Web Site

The screenshot shows the website for Ram Lal Anand College, University of Delhi. The header includes the college logo and name. A navigation menu lists various sections: HOME, ABOUT US, ACADEMICS, STUDENT CORNER, PLACEMENT CELL, NAAC, PUBLICATIONS, TENDERS/QUOTATIONS, QUICK LINKS, and DOWNLOADS. A notice from the Department of Computer Science is displayed, stating that a certificate course on Modern Web Development Tools is being organized, with a last registration date of 14-08-2020. Below the notice is a photo of a group of people standing in front of a 'Brands Impact' banner. To the right of the photo is a section titled 'Notices @ RLA College' containing links to various documents: Generic Elective Eco Phy Education, Time Table of Vth Semester of Academic Session 2020-21, Time Table of IIIrd Semester of Academic Session 2020-21, and Time Table of Ist Semester of Academic Session 2020-21.



#### 4. Session Proofs





Assignment 1 | SD-Assignment1 - Google | WhatsApp | Modern Web Dev... | B.Sir(H) Computer Sci... | Inbox (50) - angika... | Modern Web Develop... |

youtube.com/watch?v=TYDK\_JM5ArU&feature=youtu.be

YouTube

```
File Edit Selection View Go Run Terminal Help
class-3 s.js
1 var s1 = "abc"
2
3 console.log(s1)
4
5
6 s1 = "Hello"
7
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98
99
100
```

Terminal

```
bash
$ node s.js
abc!Bye
$ node s.js
abc!Bye
$ node s.js
abc!Bye
$ node s.js
Hello
```

Modern Web Development Lecture-2

70 watching now · Started streaming 22 minutes ago

Anirudh Goel

Top chat

- Harshit Ahuja Can we change content of String s1
- Khushboo sharma can we concatenate the variables using
- Sakshi Taresh Khanna screen is visible
- Harshit Ahuja Yes sir its chk
- Harshit Ahuja clear
- Sakshi Taresh Khanna please check your settings
- aman dureja sir ek string ko rewrite kr sakte hai like ek baar ek value save kr fir usi variable ki stored value ko next line me update kr diya
- Akhil Ra gottem
- pratyush sharma Shes asking about comma ()
- aman dureja ec- S1+ abc S2+ Hi S1+ S2
- Ijor Singh can you teach us program like duplicate elements in string/removing etc etc

ANJALI KAPOOR Say something...

youtube.com/watch?v=NQUGZLND\_wd&feature=youtu.be

YouTube

```
File Edit Format View Help
1 <strong>A paragraph contains one or more sentences.
2 The paragraph starts
3 with a new line.
4 </strong>
5 <pre>
6 <code>
7   <strong>A paragraph contains one or more sentences.
8   The paragraph starts
9   with a new line.
10  </strong>
11  </code>
12 </pre>
13 </code>
14 </pre>
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100 </pre>
```

Modern Web Development Lecture-4

53 watching now · Started streaming 112 minutes ago

Anirudh Goel

Top chat

- Ravi Singh soumya we also use whitespace more than one using pre tag
- Tanmay Mishra yes ma'am
- Sankshay Grover Ma'am bold & strong work similar?
- Megha Garg yes ma'am
- Anuj Gupta ma'am what is the meaning of indentation?
- Fardeen Shahanshah what will happen if we use a blockquote tag within a pre tag?
- Fardeen Shahanshah so the precedence is given to the pre tag
- Fardeen Shahanshah Okay thank you
- Anuj Gupta yes mam
- Anuj Gupta ma'am cite and italics are same?
- Anuj Gupta ok ma'am

ANJALI KAPOOR Say something...





## **FULL STACK WEB DEVELOPMENT AND HOSTING**

**Name of the Event-** Certificate Course on Full Stack Web Development and Hosting

**Name of Department-** B.A. Programme Committee

**Date and Duration-** 30 hours [ 3 Hours, Every Saturday from 23rd Jan 2021 - 27th March 2021 ]

**Venue-** Online on Google Meet

**Number of Participating Students -** 203

**Number of Faculty members from Ram Lal Anand College-** 2

**Members :**

**Ms. Manisha Wadhwa Arora(Instructor for Modules 1,5,6,7)**

**Ms. Nupur Tyagi(Instructor for Modules 2,3,4)**

### **Brief Summary of the event :**

The B.A. Programme Committee of Ram Lal Anand College under the convenorship of Dr. Krishan Gopal Tyagi, Assistant Professor, Dept. of History, RLAC, organized a **Certificate Course on Full Stack Web Development and Hosting** 23rd Jan 2021 - 27th March 2021

Ms. Manisha Wadhwa Arora ignited the spark for the Certificate Course and trained the students the key concepts of the Web Development to make the students familiar with Web World.

Ms. Nupur Tyagi taught the students the basics of HTML, CSS and JS with practical examples so that the students can start creating their own web pages and classes were full of interactivity.

In the later sessions Ms. Wadhwa Arora wrapped up the modules by giving the hands on experience to the students on hard topics like Connectivity with Back End and Hosting Website for Free which aroused a lot of doubts but every and each of the doubts of students were resolved by our trainer during the session creating a clear image of the concepts in student's minds.

A final project was assigned to students in which they can show their full potential and use wholesome of their knowledge they have gained in Web Development.

The students of Ram Lal Anand College from various disciplines participated enthusiastically in the certificate course and learnt new things with keen interest with which they can also build their career in Web Development.

The course was very fruitful which gave deep insights on the various techniques used in web development and the best practices used while developing efficient web pages and kept the students engaged throughout the Certificate Course with fun class activities, quizziz, doubt sessions and Project presentation sessions.

The certificate course was ended with the praises of the hard work of the students in creating the final project followed by certificate announcement according to the performance of the student's throughout the entire course.

3 types of certificates were given:

1: Diamond

2: Gold

3: Silver

according to criteria decided for Evaluation.

## Brochure :

**COURSE DURATION**

30 hours  
[ 3 Hours, Every Saturday from 23rd Jan 2021 - 27th March 2021 ]

**PRE-REQUISITES**  
Beginner Friendly Course  
No prior knowledge required  
From Beginner to Full Stack Developer in 30 hours

For hands-on experience students can also work with their smartphone till module 4 and laptop/PC is must from Module 5 - Module 7

**REGISTRATION DETAILS**  
[Click Here To Register](#)  
We request you to register on or before 20th Jan 2021. Only the students of RLA College can avail this course.

**FEES**  
FREE OF COST

**ABOUT RAM LAL ANAND COLLEGE**



Ram Lal Anand College was founded in the year 1964 by Late Shri Ram Lal Anand, a senior advocate in the Supreme Court of India, in response to the growing social demand in the states for providing educational opportunities at the university level. The college was initially managed by the Ram Lal Anand College Trust. It was later taken over by the University of Delhi. Since 1973, it has been run by the University of Delhi as a University Maintained Institution. The college is located in the picturesque surroundings against the backdrop of the Aravalli ranges in the neighborhood of the South Campus of the University of Delhi and several other educational institutions. It has a vast campus, spread over ten acres of land with green lawns and elegant buildings of much sprawling architectural merit. The college has excellent infrastructure, with state of the art Laboratories, Seminar room, Amphitheatre, Library, Playground and Cafeteria. The campus is Wi-Fi enabled. Being a multi-disciplinary, co-educational institution it has approximately 2500 students pursuing different courses in Arts, Commerce and Science streams. Ram Lal Anand College is administered by a statutory Governing Body as per the University Ordinances and legislated by the Executive Council of the University of Delhi.

**ABOUT THE COURSE**

The course is organized for the technical development of the students via virtual interactive learning platform. Some of the useful programming languages will be taught by our academic professionals to provide the students exposure to the world of Web development so that students can get hands-on experience along with getting their website hosted on web.

Students will be provided the access to a lot of tools used to start their endless journey with web.

**RAM LAL ANAND COLLEGE**  
UNIVERSITY OF DELHI  
BENITO JIMENEZ MARG NEW DELHI - 110021  
Website: <https://ramlalg.edu.in>

PRESENTS

**FULL STACK WEB DEVELOPMENT AND HOSTING**



23rd Jan 2021- 27th March 2021



organized by  
B. A. Programme Committee  
Ram Lal Anand College

### WHAT IS FULL STACK DEVELOPMENT ?

Full stack Development stands for structuring a complete website with front end and back end support to create an amazing user experience packed with a rich set of features. It generally stands for providing user with every option available on web, for example interacting with user friendly views or saving state permanently which can be used in the next run.

Developing Complete web apps has a lot of benefits, one of them is portability as they are available over web and it can be accessed over any platform thus providing facilities to large audience.

#### COURSE OBJECTIVES

On the successful completion of this course, participants will be able to:


- 1: Describe how a Full Stack Website/Web Portal Works.
- 2: Have their own website hosted on web for free.
- 3: Open up opportunities to become a UI designer.
- 4: Manipulate data with relational database.
- 5: Explore themselves and find if they can pursue a career of Web developer too.
- 6: Create something in web which might be useful according to college requirements.
- 7: Add a demanding skill to their skill-set.

#### WHY IS FULL STACK WEB DEVELOPMENT IMPORTANT ?

Full Stack Web App Development allows us to create a website with user friendly interface and providing a database support covering all the features that could be required for a complete website.

### COURSE OUTLINE

MODULES	Resource Person	Topic
Module 1	Ms. Manisha Wadhwa Arora (Assistant Professor, RLAC)	Introduction to Web Development
Module 2	Ms. Nupur Tyagi (Assistant Professor, RLAC)	Hyper Text Markup Language
Module 3	Ms. Nupur Tyagi (Assistant Professor, RLAC)	Cascading Style Sheet
Module 4	Ms. Nupur Tyagi (Assistant Professor, RLAC)	JavaScript
Module 5	Ms. Manisha Wadhwa Arora (Assistant Professor, RLAC)	Back-End and PHP
Module 6	Ms. Manisha Wadhwa Arora (Assistant Professor, RLAC)	Connectivity with Back -End
Module 7	Ms. Manisha Wadhwa Arora (Assistant Professor, RLAC)	Website Hosting



**Dr. Rakesh Kumar Gupta**  
Principal, Ram Lal Anand College  
University of Delhi

**Dr. Krishan Gopal Tyagi**  
Assistant Professor, Dept. of History, RLAC  
9899637083, krishanju@gmail.com  
Convener, B.A. Programme Committee

**Ms. Manisha Wadhwa Arora**  
Assistant Professor, Dept. of Computer Science, RLAC  
8700988662, manisha.mcs.du.2012@gmail.com  
Member, B.A. Programme Committee  
Coordinator

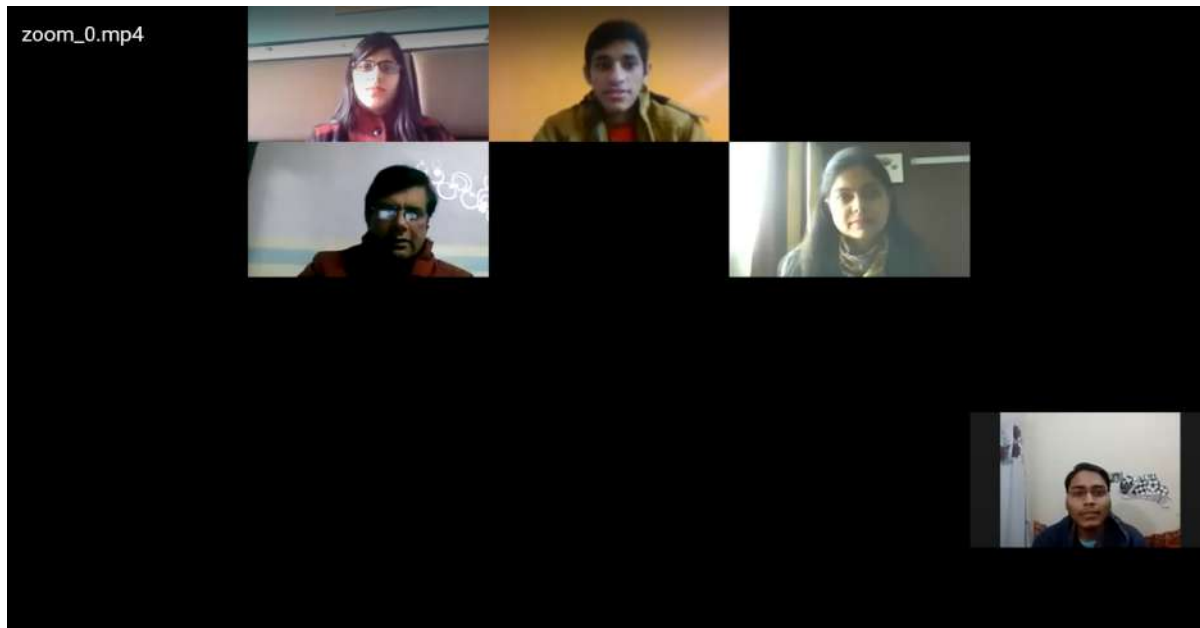
**Ms. Nupur Tyagi**  
Assistant Professor, Dept. of Computer Science, RLAC  
9958653777, nupuryagi.87@gmail.com  
Co-Coordinator

**For any query, please contact:  
Support Group Members**

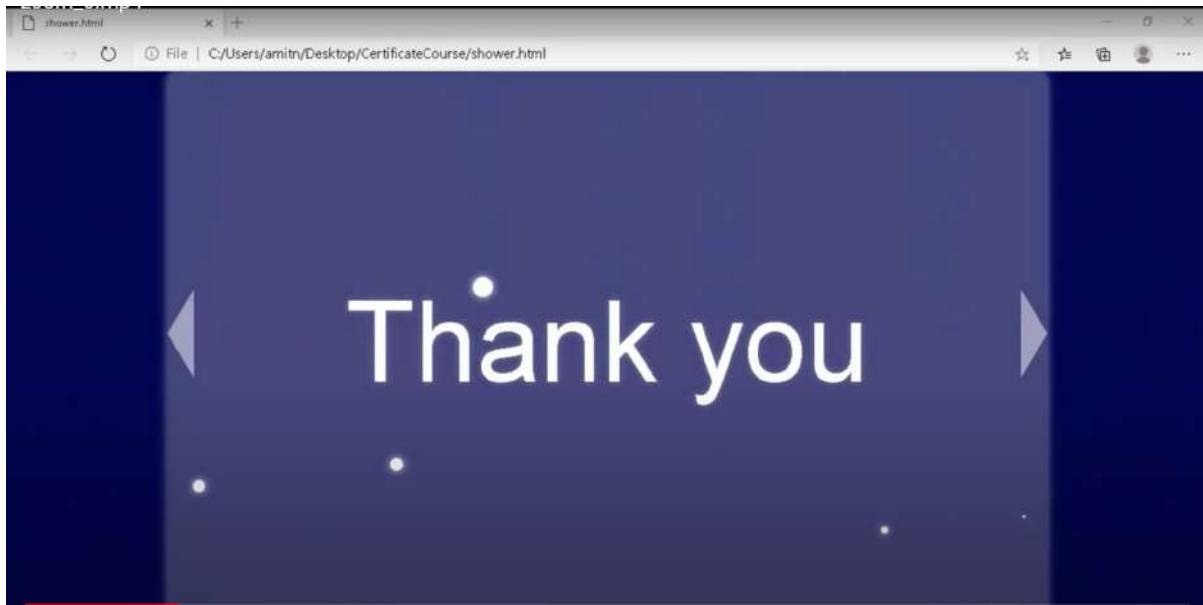
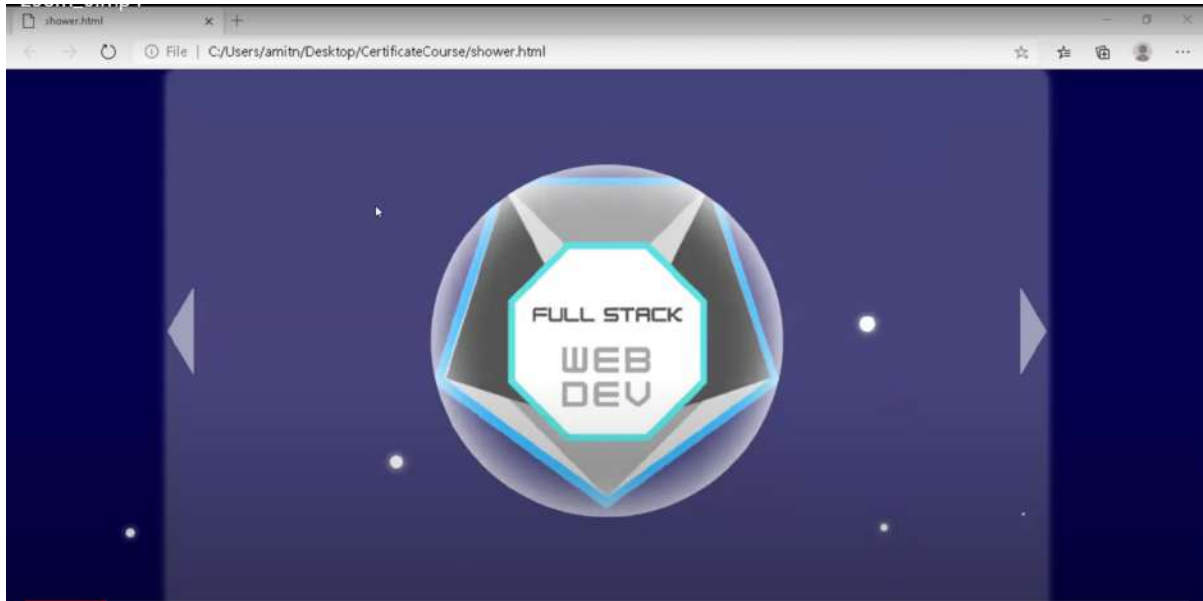
**Bhomic Kaushik**  
Email: bhomickaushik174@gmail.com  
Phone Number : 8368151509

**Anubhav Prakash**  
Email: brozcreator2018@gmail.com  
Phone Number : 93584 83682

## Session Pictures







WPS Office

Home Insert Comment Edit Page Protect Tools

Hand Tool Select Tool Edit Text Edit Picture PDF to Office PDF to Picture Annotate Rotate Auto Scroll Read Mode Background Screen Grab Find Highlight Note

## WHAT IS FULL STACK ?

- A fullstack engineer is any engineer capable of executing the entire process of building an end-to-end web experience.
- A Minimum Viable Fullstack Engineer (MVFE):
  - Knows HTML
  - Knows CSS
  - Has a strong grasp of programming fundamentals
  - Is comfortable with JavaScript frontend development
  - Knows at least one primary backend language (probably NodeJS, PHP, or Java)
  - Is skilled with at least one datastore/database

WPS Office

Home Insert Comment Edit Page Protect Tools

Hand Tool Select Tool Edit Text Edit Picture PDF to Office PDF to Picture Annotate Rotate Auto Scroll Read Mode Background Screen Grab Find Highlight Note

Front-End

Angular Bootstrap Node.js HTML CSS jQuery

VS

Back-End

PHP Python Django Rails

WPS Office

Home Insert Comment Edit Page Protect Tools

Hand Tool Select Tool Edit Text Edit Picture PDF to Office PDF to Picture Annotate Rotate Auto Scroll Read Mode Background Screen Grab Find Highlight Note

FRONT-END

BACK-END

Press **Esc** to exit full screen

## HTML Elements

- An HTML element is an object in a web page that determines display in a web page. Eg `<HTML></HTML>`, `<Table></Table>`
- A tag is a keyword enclosed by angle brackets. ( Example: `<!>`).
- There are opening and closing tags for many (container tags) but not all tags; The affected text is between the two tags
- HTML elements with no content are called empty elements.
- The `<br>` tag defines a line break, and is an empty element without a closing tag.

Click to add notes

Week 2 imp 4

File | C:/Users/... | C:/Users/Nupur/Desktop/HTML/Scrn of Q1 HTML Practice.html - Sublime Te...

```

10  <!--Posters-->
11  
14  
16  <!-->
17  <div style="float: left; margin-right: 50px;">Ajay
18  Kumar</div>
19  
21  </div>
22  </div>
  
```

Kesari (transl. Saffron) is a 2019 Indian action film directed by Anurag Kashyap. It is initially planned as a production collaboration between Salman Khan and Johar with Kumar starring in the lead role, Kesari was announced in October 2017, with Kumar and Johar reprising their responsibilities; Khan later quit the project.

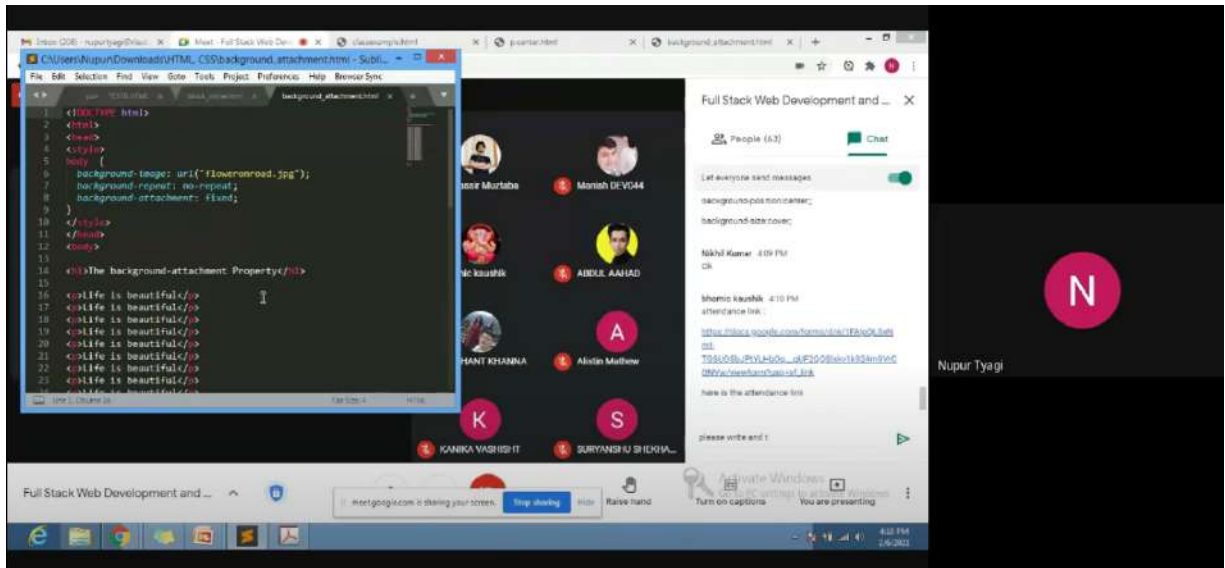
in October 2017, with Kumar and Johar reprising their

POSTERS

EST BATTLE EVER FOUGHT

CSS

Nupur Tyagi





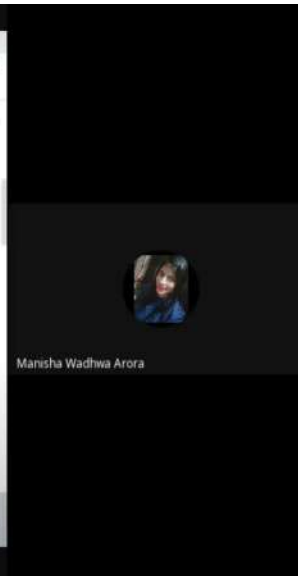


The screenshot shows a Google Meet interface with a presentation window. The presentation content is a Notepad++ window displaying PHP code for a login form. The code includes HTML for form fields and PHP logic for session management and database queries.

```

35 </thead>
36 </body>
37
38
39 <center><form action="" method="post" name="login" style="width: 100%; text-align: center;">
40 <div style="border: 1px solid black; padding: 10px; margin: auto; width: 80%;>
41 <div style="text-align: center; margin-bottom: 10px;>
42 <h3 style="margin: 0; color: #000080;">Login Form

```

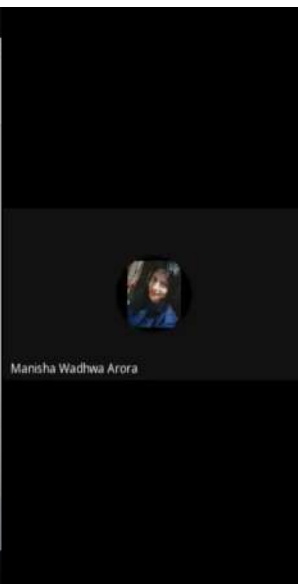


The screenshot shows a presentation slide with a red border and a decorative background. The text on the slide reads:

# MODULE: 7

# WEBSITE HOSTING

## PRACTICAL

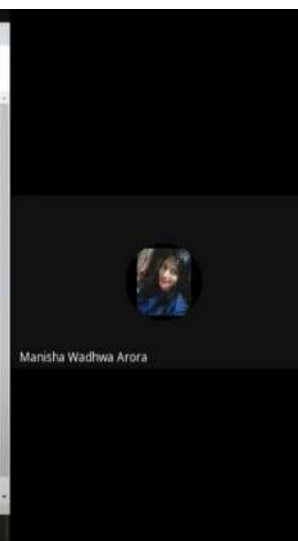


The screenshot shows the phpMyAdmin interface for a database named 'information\_schema'. The 'Structure' tab is selected for a table named 'Student'. The table structure is as follows:

Name	Type	Length/Values	Default	Collation	Structure	Attributes	Null	Index
Username	VARCHAR	30	None				<input type="checkbox"/>	<input type="checkbox"/>
Password	INT	30	None				<input type="checkbox"/>	<input type="checkbox"/>
	INT		None				<input type="checkbox"/>	<input type="checkbox"/>
	INT		None				<input type="checkbox"/>	<input type="checkbox"/>
	INT		None				<input type="checkbox"/>	<input type="checkbox"/>
	INT		None				<input type="checkbox"/>	<input type="checkbox"/>

Table comments: Collation: Storage Engine: InnoDB

PARTITION definition: Partition by: Expression or column list



The image shows a screenshot of a PDF viewer application. The main content is a white rectangular area with a red border, containing the text "THANK YOU" in a bold, red, sans-serif font. The text is flanked by two decorative elements: a cluster of five red pentagons on the left and a single red pentagon on the right. The viewer's interface includes a top toolbar with various editing tools, a search bar, and a bottom status bar showing the page number "32" and the system clock "3:46 PM Saturday 6/15/2021".

The image shows a Zoom meeting interface. On the right side, there is a circular video thumbnail of a participant. Below the thumbnail, the name "Manisha Wadhwa Arora" is displayed. The background is dark, and the interface is clean and modern.

# **National Virtual Seminar –Technology Conclave Series organized by Department of Computer Science**

**DAY 1 ( 15<sup>th</sup> February 2021)**

**NAME OF THE EVENT:** Virtual Seminar on Quantum Machine Learning

**NATURE OF THE EVENT:** National Virtual Seminar

**DATE AND DURATION:** 15-02-2021, 10:00a.m. To 12:00 p.m.

**VENUE:** Microsoft Teams

**Resource Person:** Mr. Ram Kumar Balasubramanian (Cloud Architect CMS IT Services)

**Event Coordinator:** Ms. Sakshi Taresh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 79 Students (65 Males & 14 Females)

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 6

**JUDGES:** No Judges

## **BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized a virtual seminar as part of Technology Conclave Series on Quantum Machine Learning on 15-02-2021, from 10:00 A.M. to 12:00 P.M. virtually via Microsoft Teams. This Webinar was specially meant for all the students interested in Quantum Machine Learning. This was organized with a view to make the students gain the knowledge about basics of quantum, which is now-a-days very hot topic and how Machine Learning is used in Quantum computing.

79 students attended the seminar out of which 65 were males and 14 females. Students from different colleges like Shayama Prasad Mukherjee college, Aryabhatta College and Ram Lal Anand College attended the seminar. Resource person Mr. Ram Kumar Balasubramanian (Cloud Architect CMS IT Services), addressed the participants and motivated them to study more about Quantum Machine Learning. The webinar was properly structured in which first session was based on the basics of Quantum computing and how machine learning can be used in the field of Quantum followed by question answer session. The session was informative as well as interactive, as reflected from the feedback received from the participants. The Seminar was beneficial to all.

**FUNDING/SPONSORSHIP RECEIVED (IF ANY):** Not Applicable



Photo Proofs:

1. Poster



The poster is for a National Seminar on Technology Conclave Series. It features a dark brown background with a hexagonal pattern. At the top, it lists the organizing institutions: Ram Lal Anand College, D&T Star College, and University of Delhi, along with the Department of Computer Science and ICT Academy. The seminar dates are 15 Feb to 19 Feb 2021, from 10:00 AM to 12:00 PM. The poster is divided into five days of topics and speakers. Day 1: Quantum Machine Learning, speaker Ramkumar Balasubramanian. Day 2: HCI (Human Computer Interaction) Interfaces Usability, speaker Dr. Pranjal Kumar Phukan. Day 3: Cloud Computing, speaker Anuj Tripathi. Day 4: Neuro-Quantum AI, speaker Mythili Krishnan. Day 5: Blockchain, speaker Rajat Gahlot. A central hexagon contains the text 'REGISTER HERE'. At the bottom, the names and roles of the convenors, coordinator, and principal are listed.

**RAM LAL ANAND COLLEGE**  
D&T STAR COLLEGE  
UNIVERSITY OF DELHI

**DEPARTMENT OF COMPUTER SCIENCE**  
IN ASSOCIATION WITH  
**ICT ACADEMY**  
PRESENTS

**NATIONAL SEMINAR ON TECHNOLOGY**  
CONCLAVE SERIES

**15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM**

**SPEAKERS**

**DAY 1**  
QUANTUM MACHINE LEARNING  
  
**RAMKUMAR BALASUBRAMANIAN**  
CLOUD ARCHITECT  
CMS IT SERVICES

**DAY 2**  
HCI (HUMAN COMPUTER INTERACTION)  
INTERFACES USABILITY  
  
**DR. PRANJAL KUMAR PHUKAN**  
DIRECTOR  
INTERNATIONAL COUNCIL FOR TECHNOLOGY  
MANAGEMENT & APPLIED ENGINEERING INC

**DAY 3**  
CLOUD COMPUTING  
  
**ANUJ TRIPATHI**  
DIRECTOR  
AFFLE SOFTWARE (P) LTD.

**DAY 4**  
NEURO-QUANTUM AI  
  
**MYTHILI KRISHNAN**  
VICE PRESIDENT - ANALYTICS  
DATA SCIENCE AI ADVISORY  
ACCENTURE

**DAY 5**  
BLOCKCHAIN  
  
**RAJAT GAHLOT**  
CO FOUNDER & CSO  
QUILLHASH TECHNOLOGIES

**REGISTER HERE**

**DR. VANDANA GANDOTRA**  
CONVENOR

**DR. NEERAJ KUMAR SHARMA**  
CONVENOR

**SAKSHI TAARESH KHANNA**  
COORDINATOR

**DR. RAKESH KUMAR GUPTA**  
PRINCIPAL

2. Day 1 poster

The poster is set against a dark green background with a pattern of white hexagons. At the top left is the logo of Ram Lal Anand College, and at the top right is the logo of the University of Delhi. The text is centered and reads: 'RAM LAL ANAND COLLEGE', 'DBT STAR COLLEGE UNIVERSITY OF DELHI', 'DEPARTMENT OF COMPUTER SCIENCE', 'IN ASSOCIATION WITH', 'ICT ACADEMY', 'PRESENTS', 'NATIONAL SEMINAR ON', 'TECHNOLOGY', 'CONCLAVE SERIES'. A red banner below this text contains the dates '15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM'. A small red box labeled 'SPEAKER' is positioned above the title 'QUANTUM MACHINE LEARNING'. In the center is a circular portrait of Ram Kumar Balasubramanian. Below the portrait, his name 'RAMKUMAR BALASUBRAMANIAN' is written in large yellow letters, followed by his titles 'CLOUD ARCHITECT' and 'CMS IT SERVICES'. At the bottom of the central text area, the date and time '15 FEB 2021 10:00 AM TO 12:00 PM' are listed. A dark green footer bar contains the names and titles of the organizers: 'DR. VANDANA GANDOTRA CONVENOR', 'DR. NEERAJ KUMAR SHARMA CONVENOR', 'SAKSHI TAARESH KHANNA COORDINATOR', and 'DR. RAKESH KUMAR GUPTA PRINCIPAL'.

**RAM LAL ANAND COLLEGE**  
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PRESENTS  
**NATIONAL SEMINAR ON**  
**TECHNOLOGY**  
CONCLAVE SERIES

**15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM**

**SPEAKER**

**QUANTUM MACHINE LEARNING**



**RAMKUMAR BALASUBRAMANIAN**  
CLOUD ARCHITECT  
CMS IT SERVICES

**15 FEB 2021**  
**10:00 AM TO 12:00 PM**

**DR. VANDANA GANDOTRA**  
CONVENOR

**DR. NEERAJ KUMAR SHARMA**  
CONVENOR

**SAKSHI TAARESH KHANNA**  
COORDINATOR

**DR. RAKESH KUMAR GUPTA**  
PRINCIPAL

**3. Microsoft Teams Meeting Proof**

# Case for Quantum Machine Learning

- + We have learned that machine learning algorithms contain three components: representation, evaluation, and optimization.
- + When we look at the representation, current machine learning algorithms, such as the Generative Pre-trained Transformer 3 (GPT-3) network, published in 2020, come to mind. GPT-3 produces human-like text. It has 175 billion parameters.
- + The IBM Q quantum computer has 27 quantum bits. Even though quantum bits store a lot more information than a classical bit does (because it is not either 0 or 1), quantum computers are far away from advancing machine learning for their representation ability.
- + The main characteristic of quantum computing is the ability to compute multiple states concurrently. A quantum optimization algorithm can combine all possible candidates and yield those that promise good results. Therefore, quantum computing promises to be exponentially faster than classical computers in the optimization of the algorithm.

01:15:40

People

- V1 Volunteer 1 (Guest)
- AQ ABDUL AAHAD QURESHI
- AM Abhigyan Mishra (Guest)
- A Abhjeet
- AA ABHINANDAN ARYA
- AK Abhishek Kasana
- AK ABHISHEK KUMAR (Guest)
- AT Aditya Tomar
- A AMAN (Guest)
- AN Anish Nagar
- A ANUBHAV
- AJ Anubhav Jain
- AS Anureg Singh (guest)

Windows taskbar: Type here to search, SUNNY RASTOGI, AMAN, Sakshi Khanna, 11:08 15-02-2021

# Quantum Computing Paradigm - Continued

The difference between  $O(n^2)$  and  $O(e^{n^2(1/3)})$  complexity must not be underestimated. While your smartphone is able to multiply numbers with 800 digits in a few seconds, the factorization of such numbers takes about 2,000 years on a supercomputer.

A savvy quantum algorithm (such as Shor's algorithm) can use superposition to evaluate all possible factors of a number simultaneously. And rather than calculating the result, it uses interference to combine all possible answers in a way that yields a correct answer. This algorithm solves a factorization problem with  $O((\log n)^2 (\log \log n) \log \log \log n)$  complexity. This is a polynomial complexity! So is multiplication.

Quantum computing is powerful because it promises to solve certain types of mathematical calculations with reduced complexity.

Figure 1.9: Graphs of common complexity functions

01:04:56

People

- SR Sahil Rana
- SR Sakshi Taresh Khanna
- ST Sameer Tiwari (Guest)
- SS Sameer Singh (Guest)
- SG Santushiti Gandhi (Guest)
- SK Saurebh Kumar
- SK SHIVANI KUMARI (Guest)
- S Shivay (Guest)
- SR Shubh Rastogi
- SK Shwet Kumar
- SK Siddhant Khanna
- SD SIDDHI DATRI (Guest)
- SR Sonu Raut
- SS sonarsh singh (Guest)

Windows taskbar: Type here to search, SUNNY RASTOGI, Neera Kumar Sharma, Sakshi Khanna, 10:58 15-02-2021

## **DAY 2 (16<sup>th</sup> February 2021)**

**NAME OF THE EVENT:** Virtual Seminar on HCI –Human Computer Interaction interfaces usability

**NATURE OF THE EVENT:** National Virtual Seminar

**DATE AND DURATION:** 16-02-2021, 10:00a.m. To 12:00 p.m.

**VENUE:** Microsoft Teams

**Resource Person:** Dr. Pranjal Kumar Phukan (Director, International Council for Technology Management & Applied Engineering Inc)

**Event Coordinator:** Ms. Sakshi Taarsh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 86 (67 Males & 18 females)

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 8

**JUDGES:** No Judges

**BRIEF SUMMARY OF THE EVENT:** Day 2 of Technology Conclave started with great enthusiasm and the speaker of the day was Dr. Pranjal Kumar Phukan Director, International Council for Technology Management and Applied Engineering Inc. Dr. Pranjal gave the presentation on very interesting topic “Human Computer Interaction interfaces Usability”. He very effectively demonstrated how HCI deals with the methods by which computers and their users communicate. He also explained dealing with HCI not only require the study of hardware but that of human side also. Post presentation there was a question answer session in which he resolved all the queries asked by the students. 86 students and 8 teachers participated in the seminar. Out of 86 there were 67 males and 18 females.

Picture Proofs:





# RAM LAL ANAND COLLEGE

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IN ASSOCIATION WITH

ICT ACADEMY

PRESENTS

## NATIONAL SEMINAR ON TECHNOLOGY

CONCLAVE SERIES



15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM

SPEAKER

HCI (HUMAN COMPUTER INTERACTION) INTERFACES USABILITY



DR. PRANJAL KUMAR PHUKAN

DIRECTOR

INTERNATIONAL COUNCIL FOR TECHNOLOGY  
MANAGEMENT & APPLIED ENGINEERING INC

16 FEB 2021  
10:00 AM TO 12:00 PM

DR. VANDANA GANDOTRA  
CONVENOR

DR. NEERAJ KUMAR SHARMA  
CONVENOR

SAKSHI TAARESH KHANNA  
COORDINATOR

DR. RAKESH KUMAR GUPTA  
PRINCIPAL

Microsoft Team Meeting Proof:



# BRAIN-COMPUTER INTERACTION

**A brain-computer interface is a type of user interface in which the user voluntarily generates distinct brain patterns that are interpreted by the computer as commands to control an application or device**

**The best results are achieved by implanting electrodes into the brain to pick up signals.**

**Non-invasive techniques are available commercially and use a cap or headband to detect the signals through external electrodes.**

**A BCI can be invasive or non-invasive and can be based on electrophysiological (EEG, ECoG, intercortical recordings) or other signals, such as NIRS or fMRI. BCIs also vary in other ways, including the mental strategy used for control, interface parameters such as the mode of operation (synchronous or asynchronous), feedback type, signal processing method and application**

05:06:11 [Microphone] [Camera] [Screen] [More] [Hand] [Chat] [Settings] [End Call]

Dr Pranjali Kumar Phukan (Guest)

Participant avatars: +96, JR, SR, SK, Y, SK, DP

Participant names: SUNNY BASTOGI, SUMIT KUMAR, vanna, Sakshi Khanna, Dr Pranjali Kumar Phukan L

Search bar: Type here to search

System tray: 10:59, 16-02-2021, ENG

- ### People
- AQ ABDUL AHAD QURESHI
  - AM abhishek mishra
  - A Anand
  - A Archana
  - DP Dr Pranjali Kumar Phukan (Guest)
  - JR Jitendra Kumar R Organizer
  - KD Kamal Dobriyal (KD) (Guest)
  - NS Neeraj Kumar Sharma
  - PM Priyanka Mallani
  - RR Rishabh Rathore
  - RJ Ritik Joshi (Guest)
  - RV Ritik Verma
  - R ROHIT
  - SK Sakshi Khanna

### **DAY 3 (17<sup>th</sup> February 2021)**

**NAME OF THE EVENT:** Virtual Seminar on Cloud Computing

**NATURE OF THE EVENT:** National Virtual Seminar

**DATE AND DURATION:** 17-02-2021, 10:00a.m. To 12:00 p.m.

**VENUE:** Microsoft Teams

**Resource Person:** Mr. Anuj Tripathi, Director- Affle Software(P) Ltd.

**Event Coordinator:** Ms. Sakshi Taarsh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 85 (72 Males & 13 Females)

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 8

**JUDGES:** No Judges

**BRIEF SUMMARY OF THE EVENT:** The Department of Computer Science organized a virtual seminar as part of Technology Conclave Series on Cloud Computing on 17-02-2021, from 10:00 A.M. to 12:00 P.M. virtually via Microsoft Teams. This Webinar was specially meant for all the students interested in the future of data storage. The speaker explained how cloud makes the end user free from the knowledge of the physical location and configuration of the system that delivers the services. Then he very well explained to the participants' evolution of cloud, types of cloud, and components of cloud computing and future of cloud. In the ending speaker also compared the services provided by different cloud vendors. The event was really helpful and interesting.

Picture Proofs:



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NATIONAL SEMINAR ON

## TECHNOLOGY

CONCLAVE SERIES

15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM

SPEAKER

### CLOUD COMPUTING



### ANUJ TRIPATHI

DIRECTOR

AFFLE SOFTWARE (P) LTD.

17 FEB 2021

10:00 AM TO 12:00 PM

DR. VANDANA GANDOTRA  
CONVENOR

DR. NEERAJ KUMAR SHARMA  
CONVENOR

SAKSHI TAARESH KHANNA  
COORDINATOR

DR. RAKESH KUMAR GUPTA  
PRINCIPAL

2 PaaS

Meeting chat

- Alotin Mathew joined the meeting.
- Kamal joined the meeting.
- Anubhav Jain left the conversation.
- Aditya Tomar joined the meeting.
- Naman Sharma (Guest) joined the meeting.
- Asof K joined the meeting.
- vandana gandotra left the conversation.
- Anubhav Jain joined the meeting.
- Anushi joined the meeting.
- Sagar KUMAR joined the meeting.
- Ishan Verma (Guest) left the conversation.
- Deepanshu Sharma left the conversation.
- ROHIT joined the meeting.
- Ishan Verma (Guest) joined the meeting.
- SADIQ Khan joined the meeting.
- Sarfhak left the conversation.
- Naman Yadav left the conversation.
- Naman Yadav joined the meeting.
- Smit Samsawal joined the meeting.

Type a new message

44:11

Request control

+67 MS GS JR ST SK AT

Caran Singh litendra Kumar II SHUBHAM TMAJII Sakshi Khanna ANJU TIBWALII

Type here to search

10:33 17-02-2021



## **DAY 4 (18<sup>th</sup> February 2021)**

**NAME OF THE EVENT:** Virtual Seminar on Neuro Quantum AI

**NATURE OF THE EVENT:** National Virtual Seminar

**DATE AND DURATION:** 18-02-2021, 10:00a.m. To 12:00 p.m.

**VENUE:** Microsoft Teams

**Resource Person:** Ms. Mythili Krishnan, Vice President-Analytics Data Science AI Advisory, Accenture

**Event Coordinator:** Ms. Sakshi Taresh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 91 (70 Males & 21 females)

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 8

**JUDGES:** No Judges

**BRIEF SUMMARY OF THE EVENT:** Day 4 of the event started on 18<sup>th</sup> February 2021, Thursday. There were two speakers Ms. Mythili Krishnan- Vice President Analytics, Data Science & AI Advisory Accenture, Mr. Ashish Jain- Data Scientist Infosys, who explained the vey new technology “Neuro-Quantum AI”. At the beginning of the first session our first speaker Mr. Ashish Jain presented the background information and discussion questions. The next session was undertaken by Ms. Mythili Krishnan who started with the basics of the quantum and then took the participant to the use of machine learning in the quantum field. At the end of the session participants asked their questions and were fully satisfied with the answers given by the speakers. This made the seminar more interesting and interactive.

Picture Proofs:



# RAM LAL ANAND COLLEGE

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## TECHNOLOGY

CONCLAVE SERIES



15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM

SPEAKER

### NEURO-QUANTUM AI



### MYTHILI KRISHNAN

VICE PRESIDENT - ANALYTICS  
DATA SCIENCE AI ADVISORY  
ACCENTURE

18 FEB 2021

10:00 AM TO 12:00 PM

DR. VANDANA GANDOTRA  
CONVENOR

DR. NEERAJ KUMAR SHARMA  
CONVENOR

SAKSHI TAARESH KHANNA  
COORDINATOR

DR. RAKESH KUMAR GUPTA  
PRINCIPAL

Quantum AI-Mythi Krishna - Microsoft PowerPoint

Home Insert Design Animations Slide Show Review View

File Home Insert Design Animations Slide Show Review View

Clipboard Font Paragraph Drawing

Slides Outline

All machine learning counts as AI, but not all AI counts as machine learning

**Artificial Intelligence**

**Machine Learning**

**Deep Learning**

The subset of machine learning composed of algorithms that permit software to train itself to perform tasks, like speech and image recognition, by exposing multilayered neural networks to vast amounts of data.

A subset of AI that includes abstract statistical techniques that enable machines to improve at tasks with experience. The category includes deep learning.

Any technique that enables computers to mimic human intelligence, using logic, even rules, decision trees, and machine learning (including deep learning).

01:29:07

Request control

Slide 36/51 | English (United States)

+74 AK SS SR AJ SK MK

Several Services (G... SUNNY RASTOGI Ashish Jain (Guest) Sakshi Khanna Krishna, Mythi

Type here to search

Meeting chat

- seranah singh (Guest) left the conversation.
- Kamal left the conversation.
- seranah (Guest) joined the meeting.
- Himanshu Singh left the conversation.
- sumit (Guest) left the conversation.
- seranah (Guest) left the conversation.
- Deepak Kumar joined the meeting.
- Gaurav left the conversation.
- SUMIT KUMAR joined the meeting.
- seranah (Guest) joined the meeting.
- Nishant Kumar (Guest) joined the meeting.
- Anjali Kapoor joined the meeting.
- ashish tripathi (Guest) left the conversation.
- Gaurav joined the meeting.
- Gaurish Gulati (Guest) joined the meeting.
- Aashiya Tanwar (Guest) joined the meeting.
- Gaurish Gulati (Guest) left the conversation.
- kumari chandni (Guest) joined the meeting.

Type a new message

11:12 18-02-2021

## **DAY 5 (19<sup>th</sup> February 2021)**

**NAME OF THE EVENT:** Virtual Seminar on Blockchain

**NATURE OF THE EVENT:** National Virtual Seminar

**DATE AND DURATION:** 19-02-2021, 10:00a.m. To 12:00 p.m.

**VENUE:** Microsoft Teams

**Resource Person:** Mr. Rajat Gahlot, Co-Founder & CSO- Quillhash Technologies

**Event Coordinator:** Ms. Sakshi Taresh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 54 (41 Females & 13 Males)

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 8

**JUDGES:** No Judges

**BRIEF SUMMARY OF THE EVENT:** Day 5 i.e. 19<sup>th</sup> February 2021 of the technology conclave was focused on the topic “ Blockchain”. The seminar focuses on explaining the blockchain technology and its application fields. The speaker explained the types of blockchains, its platforms i.e. Bitcoin and Ethereum. While introducing these platforms, he also explained the important technology and algorithms used. Some of the security issues and solutions were also covered. The speaker concluded with some concrete Ethereum based applications that demonstrate the usage of blockchain technology beyond cryptocurrency and illustrated the current developments in this field. It was completely interactive session and was really successful.

**Picture Proofs:**





# RAM LAL ANAND COLLEGE

DBT STAR COLLEGE  
UNIVERSITY OF DELHI

DEPARTMENT OF COMPUTER SCIENCE

IN ASSOCIATION WITH

ICT ACADEMY

PRESENTS

NATIONAL SEMINAR ON

## TECHNOLOGY

CONCLAVE SERIES



15 FEB - 19 FEB 2021 10:00 AM TO 12:00 PM

SPEAKER

### BLOCKCHAIN



### RAJAT GAHLOT

CO FOUNDER & CSO  
QUILLHASH TECHNOLOGIES

19 FEB 2021  
10:00 AM TO 12:00 PM

DR. VANDANA GANDOTRA  
CONVENOR

DR. NEERAJ KUMAR SHARMA  
CONVENOR

SAKSHI TAARESH KHANNA  
COORDINATOR

DR. RAKESH KUMAR GUPTA  
PRINCIPAL

# **Workshop on Technology Conclave organized by Department of Computer Science in association with VLabs IIT Delhi**

**26<sup>th</sup> February 2021**

**NAME OF THE EVENT:** Virtual workshop on Virtual Labs

**NATURE OF THE EVENT:** National Virtual Seminar

**DATE AND DURATION:** 26-02-2021, 11:00a.m. To 12:30 p.m.

**VENUE:** Google Meet

**Resource Person:** Mr. Prateek Sharma & Mr. Shivam Sundaram- Virtual Labs Mentors

**Nodal Coordinator:** Dr. Neeraj Kumar Sharma

**Event Coordinator:** Ms. Sakshi Taresh Khanna (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:** 119 Students ( 88 Males & 31 Females)

**NUMBER OF PARTICIPATING FACULTY MEMBERS:** 8

**JUDGES:** No Judges

## **BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science organized a virtual Workshop on Virtual Labs in association with vLabs IIT Delhi. VLabs is an initiative of Ministry of Education under the National Mission on Education through ICT. The Speakers for the workshop Mr. Prateek Sharma and Mr. Shivam Sundaram –vLabs Mentors explained the students how virtual labs is providing a complete Learning Management system where the students can avail the various tools for learning including additional web resources, video lectures, animated demonstrations and self evaluation. They also explained to the students how to perform experiments related to HTML, CSS, Machine Learning, and Fuzzy Systems via virtual labs. The session was really interactive and interesting. At the end the students were given time to ask their queries, which were beautifully resolved by the experts.

**FUNDING/SPONSORSHIP RECEIVED (IF ANY):** Not Applicable

**Photo Proofs:**



RAM LAL ANAND COLLEGE  
UNIVERSITY OF DELHI



## DEPARTMENT OF COMPUTER SCIENCE

PRESENTS  
A WORKSHOP ON



An MHRD Govt of India Initiative

Mr. Prateek Sharma  
Virtual Labs Mentor

Mr. Shivam Sundaram  
Virtual Labs Mentor

26 Feb 2021  
DATE

Dr. Neeraj Kumar Sharma  
Nodal Coordinator

[Register Here](#)

Dr. Rakesh Kumar Gupta  
Principal

The screenshot shows a Google Meet session in progress. The main window displays a web browser with the Virtual Labs website. The website has a navigation menu with items like HOME, ABOUT US, NEWSLETTER, and NOW LAB DEVELOPMENT. The main content area lists several virtual labs, each with a 'Reference Books' link and a 'Subject Mapping' dropdown menu. The labs listed are:

- Color and Surface Chemistry Lab (Reference Books: Jyoti's Mapping)
- Molecular Absorption Spectroscopy Lab (Reference Books: Jyoti's Mapping)
- Circular Dichroism Spectroscopy Lab (Reference Books: Jyoti's Mapping)
- Physical Chemistry (IITM) Lab (Reference Books: Jyoti's Mapping)
- Physical Chemistry (AMITA) Lab (Reference Books: Jyoti's Mapping)
- Inorganic Chemistry Virtual Lab (Reference Books: Jyoti's Mapping)

The right side of the screen shows a grid of participant avatars. The top of the screen displays the meeting title 'Shivam Sundaram is presenting', the time '11:08 AM', and the date '2/26/2021'. The bottom of the screen shows the Windows taskbar with various application icons and system tray icons.

Virtual Labs  
An Initiative of  
Ministry of Education  
Under the National Mission on Education through ICT

HOME ABOUT US NEWSLETTER NEW LAB DEVELOPMENT BECOME NODAL CENTER OUTREACH PORTAL PARTICIPATING INSTITUTES CONTACT US

OBJECTIVES THE PHILOSOPHY SALIENT FEATURES  Stop sharing

Prateek Shar...

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**Event Report**  
**Department of Computer Science**  
**Aptitude Test Series (September and October 2020)**

**NAME OF THE EVENT:** Aptitude Test Series

**NATURE OF THE EVENT:** Departmental level

**DATE AND DURATION:** 30-09-2020, 1 hour and 30-10-2020, 1 hour

**VENUE:** Online via Google form

**Event Coordinator:** Ms. Nupur Tyagi & Ms. Manisha Wadhwa Arora (Assistant Professor Dept. of Comp. Sc.)

**NUMBER OF PARTICIPATING STUDENTS:**

30<sup>th</sup> September, 2021 :- (60 Participants)

30<sup>th</sup> October, 2021:- (45 Participants)

**JUDGES:** No Judges, Evaluation by done by Coordinator

**BRIEF SUMMARY OF THE EVENT:**

The Department of Computer Science conducted Aptitude Test Series on 30-09-2020 and 30-10-2020 from 5:00 P.M. to 6:00 P.M via Google Form. Good aptitude skills happen to be of utmost importance in today's times. Almost all the companies assess the aptitude quotient of the candidates during the campus placements. This is the first step of the screening process for most of the jobs. Candidates with a high aptitude quotient have an edge over the others. To help students get at the top of the competition, Department of Computer Science came up with the Aptitude Mock Tests.