



**Avishkar Foundation, Solapur**

Department of Higher Education, Government of Maharashtra, Solapur  
2019/2020

**Avishkar Achievers Award  
2022**



This award is presented to  
**Dr. Anvith Rawat**  
State of Uttar Pradesh

National

**BEST TEACHER OF THE YEAR AWARD**

For his/her hard work, dedication and diligence  
in the field of Education.

Your imprint will live forever in our hearts and mind.

Certificate No.: 03

Date: 27/02/2022

President

Avishkar Foundation, Solapur



**Avishkar  
Foundation  
Solapur**



**AVISHKAR  
ACHIEVERS  
AWARD  
2022**



Dr. Anvith Rawat  
State of Uttar Pradesh

*Anvith Rawat*  
2/2/2022

**Prof. (Dr.) Rach**  
Director  
Mishra's Suresh  
CA, Jamnagar, New Delhi

1/27/22, 9:19 AM

MAHARAJA SURAJMAL INSTITUTE Mail - Angela Broaddus sent you an Amazon Gift Card



Dr. Shashi Kant Pandey <shashikantpandey@msljanakpuri.com>

## Angela Broaddus sent you an Amazon Gift Card!

1 message

Amazon.com Gift Cards <gc-orders@gc.email.amazon.com>

Reply-To: noreply@amazon.com

To: shashikantpandey@msljanakpuri.com

Wed, Dec 22, 2021 at 2:08 AM

amazon



I appreciate all your hard work on the Stat-LM Project! Thank you!

**\$40.00**

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*Rachita Rana*

Prof. (Dr.) Rachita Rana  
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*Rachita Rana*

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-68

THIRD ANNUAL CONFERENCE OF MATHEMATICS  
TEACHERS' ASSOCIATION (INDIA) (ONLINE) – 2021

19

## Certificate of Appreciation

This is to certify that

**Shashi Kant Pandey**

Maharaja Surajmal Institute

participated and made valuable contributions in the Third Annual Conference  
(online) of Mathematics Teachers' Association – 2021 on **Rethinking  
Mathematics Education during the Pandemic: Insights from experience and  
the way forward** which was conducted online during 3rd- 5th September 2021.

*Amber Habib*

**Amber Habib**  
Convenor

Third Annual Conference of MTA (I)

*Rachita Datta*

Post 10, 18th Floor, New Delhi  
110028  
Maths Teacher, Maharaja Surajmal Institute  
Gurgaon, Haryana

*S. G. Dani*

**S. G. Dani**  
President  
MTA (I)

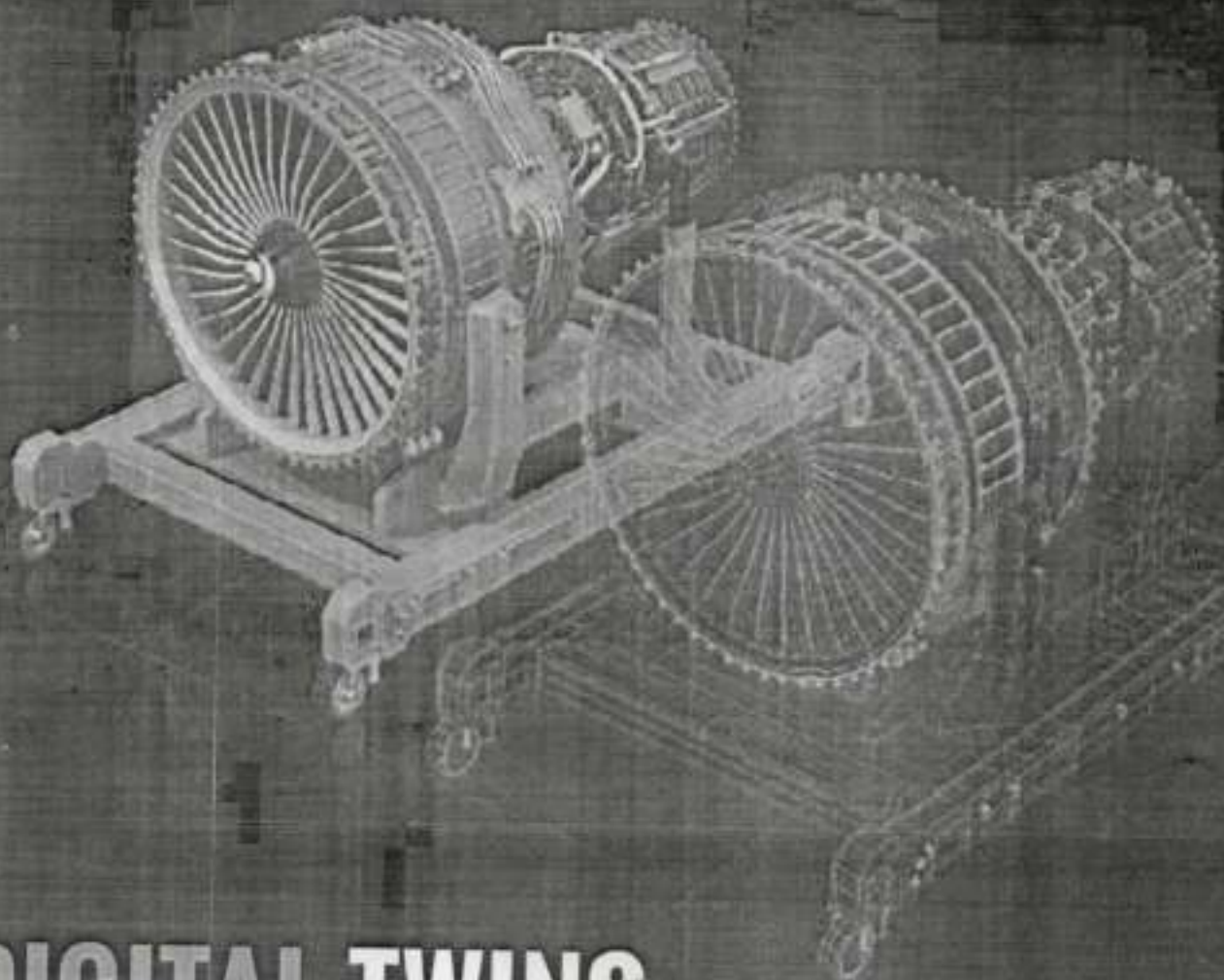


# CSI Communications

Knowledge Digest for IT Community

VOLUME NO. 44 | ISSUE NO. 6 | SEPTEMBER 2020

₹ 50/-



## DIGITAL TWINS

### INVITED ARTICLE

Titbit from the History of Computing-14 06

### RESEARCH FRONT

Application of Digital Twins in Industrial Technologies 19

### COVER STORY

Digital Twins: Abridged Mystery behind creation of Bridge between Physical and Virtual Worlds 8

### TECHNICAL TRENDS

Role of Digital Twins in Smart City Development-Technology for Sustainable Cities 29

*Rachita Rana*

Prof. (Dr.) Rachita Rana  
Director

Maharaja Surajmal  
C-1, Annapurna, New Delhi-110088



# Computer Society of India™

## National Student Coordinator for the year 2020-21



### Name & Affiliations

**Dr. P. Kumar**

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## Regional Student Coordinators for the year 2020-21

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### REGION-IV



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**Dr. Samiksha Shukla**

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## State Student Coordinators for the year 2020-21

### REGION-I

#### UTTAR PRADESH



**Dr. Puneet Misra**

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#### UTTARAKHAND



**Prof. Ramesh Singh Rawat**

Asst. Professor

Graphic Era Deemed to be University,

Clement Town, Dehradun - 248002

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#### PUNJAB



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Assistant Professor

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#### HIMACHAL PRADESH



**Dr. Pradeep Kumar Gupta**

Department of CSE & IT

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pradeepkumar.gupta@juai.ac.in

#### HARYANA



**Dr. Vikas Kumar**

Professor

Chaudhary Bansi Lal University

(State Govt University)

Ehware - 127021, Maryana

(M) 99908 44584

(E) prof.vikas.kumar@gmail.com

*Rachita Rana*

**Prof. (Dr.) Rachita Rana**  
Director

CSI COMMUNICATIONS | SEPTEMBER 2020

www.csi-india.org

15

NCTE-Reg011/423/2021-Reg. Sec-HQ  
NATIONAL COUNCIL FOR TEACHER EDUCATION  
(A Statutory Body of the Government of India)  
Plot No. C-7, Sector-10, Dwarka  
New Delhi

OFFICE ORDER

12<sup>th</sup> August, 2021

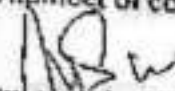
The Committee Authority in NCTE has decided to constitute a Committee comprising of the following Experts to verify and approve the contents eligible, received on the OER Portal for uploading the same on NCTE web-site :-

- I. Prof. Sharad Sinha, NCERT, Delhi.
- II. Prof. Sarika Sharma, Central University of Haryana, Mahendragarh
- III. Dr. Rachita Rana: Director, Maharaja Surajmal College, Janakpuri, Delhi

2. In order to avoid physical meeting due to COVID-19, the Committee may meet virtually through online mode and the payment of sitting fees /DA and other incidental charges shall be paid as per NCTE Rules.

3. The Terms of reference of the Committee are as under:-

- I. The Committee will access the OER Portal through User-ID and Password, and go through the course material whether write-ups or videos and recommend the qualitative contents to be uploaded on the NCTE Web-site, in reference to the Public Notice dated 02.08.2021.
  - II. The Committee will sort out the course material into the following categories:
    - a) Course Material
    - b) Teaching Videos
    - c) Training Modules
    - d) Micro Teaching
    - e) Innovative Practices
    - f) Teaching Practice
    - g) Inclusive Education
  - III. The content of the material will be for the benefit of student-teachers studying in Teacher Education Institutions (TEIs) recognized by NCTE.
  - IV. The contents of OERs will focus upon the material for pre-service, in-service, students and all teacher fraternity.
  - V. The material must be concise, creative, informative and user friendly.
  - VI. The material can contain write-ups in pdf form and videos (10-15 minutes) on the topics or chapters of the curriculum being read on any of the 17 teacher education programmes recognized under NCTE Regulations, 2014.
4. The Committee may meet as per their convenience and recommend reasonable number of course material to be uploaded on NCTE Web-site on or before 16<sup>th</sup> August, 2021

  
(T. Pritham Singh)  
Deputy Secretary

To:

- I. Prof. Sharad Sinha, NCERT, Delhi.
- II. Prof. Sarika Sharma, Central University of Haryana, Mahendragarh

  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal College  
C-4, Janakpuri, New Delhi-98

- I. Dr. Rachita Rana, Director, Maharaja Surajmal College, Janakpuri, Delhi
- IV. PS/DO to CP/MS for kind information.
- V. Sh. Anil Kumar, Section Officer, NCTE
- VI. Sh. Abhinav Yadav, Section Officer, NCTE
- VII. Sh. Priyank Jain, Section Officer, NCTE
- VIII. Sh. Chetan Kumar Mishra, PA, SRC, NCTE
- IX. TA, IT Section for uploading the same in e-office.
- X. Guard file.

*Rachita Rana*

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal College  
C-4, Janakpuri, New Delhi-58



Prof. Rachita Rana &lt;director@majrasurajmal.com&gt;

## Session Chair Invitation for 4th Virtual National conference-18th March - 19th March 2021

1 message

Namita Kapoor &lt;nkapoor1@amity.edu&gt;

Wed, Mar 10, 2021 at 3:36 PM

To: director &lt;director@msi-ggslp.org&gt;

Cc: Dr Kavita Indraprakash &lt;kindaprkash@amity.edu&gt;

Dear Dr. Rana,

- Greetings from Amity University !!

It is always a pleasure talking and writing to individuals of extraordinary eminence like yourself, who are driving the notable organizations of the nation to greater heights through their expert guidance, keen involvement, and strategic approaches.

At Amity School of Economics, we have a very strong focus on imparting the best in teaching and learning to our students, staff, and research scholars. The focus of the School is to inculcate holistic development, professional excellence, and moral & ethical values with research at its epicentre.

In our endeavour towards imparting quality education, research lies at the heart of our institutional objectives. It is in line with this objective that Amity School of Economics, Amity University, Noida Uttar Pradesh is organizing its "VIRTUAL 4TH NATIONAL CONFERENCE ON "SUSTAINABLE DEVELOPMENT GOALS: LESSONS AND CHALLENGES IN THE VUCA WORLD" on 18th-19th March 2021.

I would like to invite you to be a session chair for the conference on the track Technical Session 1: Sustainable Development and New Business Models "Marketing" on 18th March 2021 at 1:30 pm to 3:30 pm on the virtual platform.

Your rich experience & words of wisdom will be very beneficial & would enable all the listeners to learn about sustainability & the challenge thereof.

Kindly communicate your acceptance at the earliest. This will enable us to prepare for a successful event. Enclose please find brochure of the conference for your kind perusal.

For any clarifications, please feel free to contact the undersigned or the convener of the conference Dr. Neeru Sidana Mobile No. : 9996804300

Looking forward to meet you and learning by interacting with you during the conference.

Thanking you,

Warm Regards

Namita Kapoor,

Session Coordinator

Sustainable Development and New Business Models " Marketing"

Rachita Rana

Prof. (Dr.) Rachita Rana

Director

 Majraja Surajmal Institute  
C-1, Janakpuri, New Delhi-58



### Certificate of Engagement

This is to acknowledge with pride

**Prof. Rachita Rana**

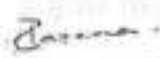
Participated In Principals/Directors Knowledge Exchange Program

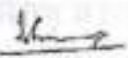
Interactive Agenda

"Academic Leadership In The New Decade Of Disruptions & Professional Management Education Horoscope"

Leader Speakers : Prof. SC Sharma  
Dr. Pritee Sanjeev Saxena

Host : IBS Information Team - North India  
Date : 12-September-2020  
Mode : Online

  
Dr. Pritee Sanjeev Saxena  
(Director - IBS Mumbai Campus)

  
Prof. SC Sharma  
(Director - IBS Gurgaon Campus)

Ahmedabad | Bangalore | Dehradun | Gurgaon | Hyderabad | Jaipur | Kolkata | Mumbai | Pune



Prof. (Dr.) Rachita Rana  
Director  
Mentoraja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

3/23/2021

MAHARAJA SURAJMAL INSTITUTE, Mail - Panelist for Coursera Presents Higher Education Virtual Session Powered By ObserveNow



Prof. Rachita Rana <director@insijanakpuri.com>

## Panelist for Coursera Presents Higher Education Virtual Session Powered By ObserveNow on 17th Feb

2 messages

Jeet Sharma <no-reply@zoom.us>  
Reply-To: Jeet Sharma <jeet.sharma@observeknow.com>  
To: director@msi-ggslp.org

Wed, Feb 17, 2021 at 11:13 AM

Hi Prof. Rachita Rana,

You are invited to a Zoom webinar.

Date Time: Feb 17, 2021 04:00 PM India

Topic: Coursera Presents Higher Education Virtual Session Powered By ObserveNow on 17th Feb

Join from a PC, Mac, iPad, iPhone or Android device:

Click Here to Join

Note: This link should not be shared with others; it is unique to you.

Add to Calendar Add to Google Calendar Add to Yahoo Calendar

Description: Coursera is coming up with Higher Education Virtual Session Powered By ObserveNow on 17th Feb where the industry leaders will talk about The Digital Shift in Education - Building Digital Resilience.

Confirmed Speakers:

Kuldeep Rains Vice Chancellor DIT University  
Dr. Subram Khara Vice Chancellor Sharda University  
Dr. Amar Garg Vice Chancellor Shobhit University  
Dr. Vikas Singh Executive Director ITS Group  
Prof. (Dr.) Rachita Rana Director Maharaja Surajmal Institute

Agenda:

3:50 PM - 4:00 PM - Welcome Note Ms. Tanviya Tikoo Editor-in-Chief ObserveNow

4:00 PM - 4:10 PM - Presentation - Coursera

4:10 PM - 5:10 PM - Leaders Discussion - Building Digital Resilience

5:10 PM - 5:15 PM - Closing Remarks

Or iPhone one-tap:

US: +18699005833, 92522753126 or +19294382886, 92522753126

Or Telephone:

Dist (for higher quality, dial a number based on your current location):

US: +1 669 900 6833 or +1 929 436 2886 or +1 253 215 8782 or +1 301 715 8592 or +1 312 626 6789 or +1 346 248 7798

Webinar ID: 925 2275 3126

Participant ID: 456018

International numbers available: <https://zoom.us/join/WbF2c0>

Jeet Sharma <no-reply@zoom.us>  
Reply-To: Jeet Sharma <jeet.sharma@observeknow.com>  
To: director@msi-ggslp.org

Wed, Feb 17, 2021 at 3:48 PM

*Rachita Rana*

Hi Prof. Rachita Rana,

You are invited to a Zoom webinar.

Date Time: Feb 17, 2021 04:00 PM India

Topic: Coursera Presents Higher Education Virtual Session Powered By ObserveNow on 17th Feb

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

(11)



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UiPath is proud to recognize our educational alliance with

**Maharaja Surajmal Institute**

**Dr. R. K. Gupta**

for his contribution in growing the Robotic Process Automation (RPA) knowledge ecosystem

*[Signature]*  
Date: 18/01/2022

राष्ट्रीय अध्यापक शिक्षा परिषद  
(एन सी ई आर टी ई एफ)



एन सी ई  
न सी ई

National Council for Teacher Education  
(A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

NCTE-Acct02071/2021-Accounts Section-HQ

To,

Dr. Rachilla Rama  
Maharaja Surajmal Institute  
Jajarkpur, Delhi

Sub: Engaging the expert services for developing a compendium/booklet  
on series of Online Webinar.

Dear Madam,

With reference to the discussion held in NCTE and your email dated 28<sup>th</sup> May, 2021 on the subject cited above, I am to please to inform you that NCTE has to prepare a compendium/booklet on the series of Online Webinars conducted by its Regional Offices as well as Headquarters on different themes. A write or verbatim is required to be made on each of the webinars which will be compiled in the shape of a booklet. As appeared during discussion, your expert services for this task are engaged to complete the assignment in a time bound manner but not later than 20<sup>th</sup> June, 2021.

The sitting fee @ Rs. 2000/- per day shall be paid as per NCTE Rules.

The Terms of Reference of the said assignment are as under:-

1. The materials for online webinars shall be provided by NCTE in a pending.
1. A write/verbatim shall be prepared on each of the webinar.
2. It will be compiled in a booklet shape
3. A proof of text and cover page shall be submitted after getting it vetted by the proof reader as a dummy.
4. It will get it printed after the approval of NCTE.
5. The tentative printing cost of 50 copies is to be shared to take a decision for award of printing work to the publishers. In the meanwhile, the work may be started as related above.

This issues with the approval of the Competent Authority.

Yours sincerely,  
15/6/21  
(Dr. Anil Kumar Sharma)  
Deputy Secretary

8/1-7, एन सी ई आर टी ई एफ, नई दिल्ली-110075  
G-7, Sector -10, Dwarika, New Delhi - 110075  
Telephone : +91-11-20882155/20893207/ Email : so\_establishment@ncte-india.org  
Website : www.ncte.gov.in

Prof. (Dr.) Rachilla Rama

Director

Maharaja Surajmal Institute  
O-4, Jangpuri, New Delhi-55

Q: 951275-244033, 253319  
M: 8053008883



## Saraswati Mahila Mahavidyalaya

Bye Pass Road, PALWAL-121102 (Haryana)  
Email - saraswathipalwal@gmail.com

Ref. No. SMP/4260

Dated 17/4/2021

April 17, 2021

Dr. Rachita Rana  
Director  
Maharaja Surajmal Institute  
New Delhi.

Dear Dr. Rana

The Department of Economics and Commerce, Saraswati Mahila Mahavidyalaya Palwal (Haryana) would like to thank you for taking part in our webinar on "Post Pandemic Innovative Business Ideas for the Revival of Indian Economy" held on April 16, 2021. Your talk on "India's Yes to Mega Reforms" was on the most contemporary topics in the webinar. It was an honor for us to have you as one of our resource speakers.

We know your time is precious and we are grateful you shared some of it with us. We look forward to your participation on future events.

Again, thank you. We hope to see you soon again.

Very truly yours

*Promila Bhardwaj*  
Principal (HOD)

Saraswati Mahila Mahavidyalaya  
Palwal (Haryana)

Dr. Promila Bhardwaj  
(HOD, Commerce)

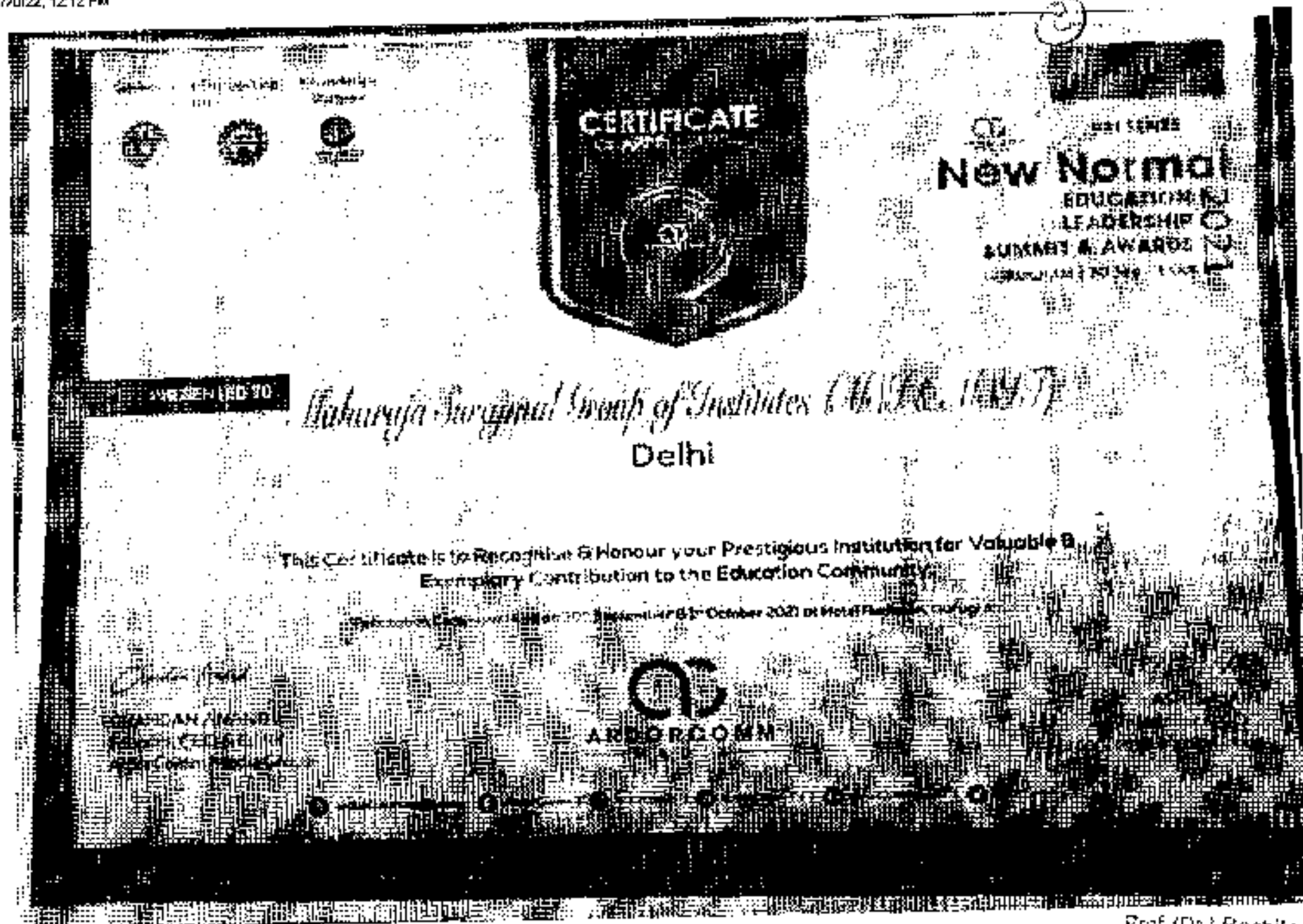
Ms. Shubhra  
(HOD, Economics)

*Rachita Rana*

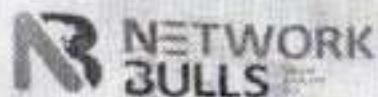
Prof. Dr. Rachita Rana

17/04/21

17/04/21



Prof. (Dr.) Rachita Panna  
Director  
Mahuraja Surajpal Group of Institutes  
Gurgaon, Haryana



## Certificate of Appreciation

We would like to convey our sincere appreciation to **Maharaja Surajmal Institute** in recognition to your excellent contribution and outstanding efforts for making Industrial Visit a grand success held on 29<sup>th</sup> September 2021 conducted by Network Bullstudy Pvt Ltd.

We wish you great success in your future endeavors.



Authorized Signatory

Network Bullstudy Pvt. Ltd  
Office: U90102MH0011901234  
SCO 04/30, 12 & 12, 2nd & 3rd Floor, above Vimal Mega Mart, Sector-14, Gurgaon, Haryana, India 122002  
Contact No.: 91-174-4861201/202/203/204

*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Jangpuri, New Delhi-68

7

6



## CERTIFICATE OF PRESENTATION

This is to certify that Rachita Rana  
has presented paper titled Architecting the Education System post  
COVID-19 through Digitalization

at the 1<sup>st</sup> Pritam Singh Memorial (PRISM) Conference on Architecting the Future of  
Business: Leadership, Governance & Technology on 17<sup>th</sup> - 19<sup>th</sup> November 2021 organised by  
Jindal School of Banking & Finance, O.P. Jindal Global University, Sonapat, India;  
ESCP Business Schools and Dr Pritam Singh Foundation.

Prof. (Dr.) C. Raj Kumar  
Managing Vice-Chancellor  
O.P. Jindal Global University, India

Dwaramanith Pattanam  
Former Chairman, GSK Consumer Healthcare Ltd.  
President, Dr. Pritam Singh Foundation, India

Prof. (Dr.) Ashish Bhanuwar  
Dean, Jindal School of Banking & Finance  
O.P. Jindal Global University, India

Prof. (Dr.) Rachita Rana  
Director  
Noida, India  
Date: 19/11/2021



# DR. ABDUL KALAM

## EXCELLENCE AWARD

*(On the occasion of Dr.A.P.J Abdul Kalam  
Birth Anniversary)*

### Certificate of Excellence

This certificate is Proudly Presented to

**Prof. (Dr.) Harish Singh Ji**

has been awarded certificate of excellence for outstanding  
performance in the filed of **Education**

His / her work has been recognised at various levels. We  
wish him / her best wishes throughout life.

*Rachita Rana*

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-68

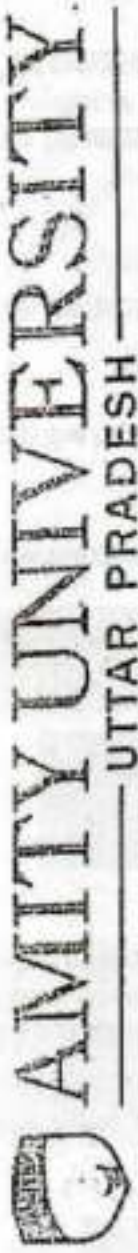
*Surender Malik*

Surender Malik  
(President)

Date : 15 October 2021 | Venue : Dheerpur, Nirankari colony, Delhi-9

ORGANISED BY:

INDRAPRASTHA SHIKSHA EVAM KHEL VIKAS SANGATHAN (REGD.)



AMITY SCHOOL OF ECONOMICS  
VIRTUAL 4<sup>TH</sup> NATIONAL CONFERENCE

SUSTAINABLE DEVELOPMENT GOALS: LESSONS AND CHALLENGES IN THE VUCA WORLD  
ON  
18th-19th March, 2021

CERTIFICATE OF APPRECIATION

Dr. Rachita Rana

This is to certify that \_\_\_\_\_  
from \_\_\_\_\_ has been a part of the organizing committee  
of Conference as \_\_\_\_\_ during the Virtual 4th National  
Conference on Sustainable Development Goals: Lessons and Challenges in the VUCA World organized by Amity School  
of Economics from 18th-19th March 2021. The certificate is awarded for his/her excellent contribution in the same.

Neeru Sidana

Dr. Neeru Sidana  
Conference Convener  
Asst. Professor III

Rachita Rana

Prof. (Dr.) Rachita Rana  
Director

Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

Vandana

Dr. Kavita Indapurkar  
Conference Chair  
Joint Administrator



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Prof (Dr.) Balvinder Singh  
Vice Chancellor, AUUP

Balvinder Singh

3

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IN ACADEMICS**

**PROF. HARISH SINGH**

Professor & Deputy Director  
Maharaja Surajmal Institute  
Janakpuri, New Delhi

DR. D. C. SINGH  
CHIEF ADVISOR

MR. R. B. SINGH  
DIRECTOR



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*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute

9





**International Institute of Organized  
Research (I2OR)**  
Advocating Academic and Research Programs  
for API and Career Advancement Scheme

International/National Awards

Life Membership

Certified Credit Courses

Research Publications

Ref No. I2OR/2021/E1-0014

Dated: 11<sup>th</sup> December 2021

To

**Dr. Kavita Pabreja**  
**Associate Professor**  
**Maharaja Surajmal Institute (GGSIP university)**  
**New Delhi, India**

**Subject:** Selection of your Academic Profile for "100 Eminent Academician of 2021" (Book)

**Dear Academician,**

"Profile has its own ethos to be reflected"

Apropos the subject cited above, I wish to congratulate you for your Academic Profile having been **selected** for publication in the most coveted book entitled "**100 Eminent Academicians of 2021**", to be published by the International Institute of organized Research (I2OR) which is a registered MSME with the Ministry of Micro, Small and Medium Enterprises, Government of India and is advocating United Nation's Sustainable Development Goals through Academic and Research Programs for API and Career Advancement Scheme.

It is our mountainous pleasure to congratulate you since your esteemed occupational profile has already been nominated in the above mentioned book i.e. "100 Eminent Academicians of 2021", which is going to feature your most noticeable upbringing flawlessly within a short while. Moreover the design of feature will be of elite standing and it shall be undoubtedly very conducive for you to produce the same in all over the globe for your noteworthy acceptance and needful enhancement in both national and international level.

According to our collective vision this "Congratulatory Profile" will be leveraging an exorbitant occupational immensity in the near future.

Wish you have a phenomenal association in this salient occupational rise in style.

Sincere Regards

(Dr S N Mehta)  
Director, I2OR

(Dr T Singh)  
Head(R&D), I2OR



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/izorindia

**Prof. (Dr.) Rachita Rana**  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

3.3.2 Awards and recognition received for extension activities from Government /Government recognized bodies Year-2017-21



Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110058

*Rachita Rana*



*Rachita Rana*  
**Prof. (Dr.) Rachita Rana**  
 Director  
 Maharaja Surajmal Institute  
 C-4, Janakpuri, New Delhi-58

*Rachita Rana*



# Maharaja Surajmal Institute

(Affiliated to G.G.S. Indraprastha University, Recognized by UGC u/s 2(f) & NAAC 'A' Accredited)

C-4, Janakpuri, New Delhi - 110058

## Best Faculty Award 2018

Dr. Kusum Gill Asst. Professor, Department of Education, Maharaja Surajmal Institute, Delhi is hereby conferred the best Faculty award for the year 2018 for her outstanding contribution to the institute in various fields including academic, placement, research & publications and co-curricular activities

*Rachita Rana*

Prof. Rachita Rana  
Director

*Rachita Rana*

Prof. (Dr.) Rachita Rana

Director  
Maharaja Surajmal Institute

C-4, Janakpuri, New Delhi-58

*Rachita Rana*

Sh. Kaplan Singh  
President  
SMES

Date : 12-01-2019  
Place : New Delhi



# Maharaja Surajmal Institute

(Affiliated to G.G.S. Indraprastha University, Recognized by UGC u/s 2(f) & NAAC 'A' Accredited)

C-4, Janakpuri, New Delhi - 110058

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*Rachita Rana*

Prof. Rachita Rana  
Director

*Rachita Rana*

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Sh. Kaptan Singh*

Sh. Kaptan Singh  
President  
SMES

Date : 12-01-2019  
Place : New Delhi



**International Institute of Organized  
Research (I2OR)**  
Advocating Academic and Research Programs  
for API and Career Advancement Scheme

International/National Awards

Life Membership

Certified Credit Courses

Research Publications

Ref No. I2OR/2020-21/IA-045

Dated: 22<sup>nd</sup> January 2021

To

Dr. Kavita Pabreja

Maharaja Surajmal Institute (GGSIP university), New Delhi

**Subject:** International Educator Award 2020-21-reg.**Dear Awardee,**

Apropos the subject cited above, I wish to congratulate you for having been **selected** for the most prestigious **International Educator Award 2020-21**, instituted by the International Institute of organized Research (I2OR) which is a registered MSME with the Ministry of Micro, Small and Medium Enterprises, Government of India and is advocating Academic and Research Programs for API and Career Advancement Scheme.

It is our mountainous pleasure to convey that you have achieved an impressive benchmark through your exclusive hard work and the unparallel display of appealing educational competence in a very conforming manner.

This most congratulatory paraphrase has been determined according to the very compelling analytical review of our acclaimed "Jury Members" from the perspective of your both "Qualitative and Quantitative" introspection in enriching the deserving virtuoso of "Research" for refining the sustainable base of learning.

Wish you all the best for your scholarly future along with the definite core of perfection.

Sincere Regards

(Dr S N Mehta)  
Director, I2OR

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
G-4, Janakpuri, New Delhi-68

(Dr. T Singh)  
Head(R&D), I2OR

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
G-4, Janakpuri, New Delhi-68



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# MODERN COLLEGE OF PROFESSIONAL STUDIES

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Email : [info@moderncollege.org](mailto:info@moderncollege.org) | Website : [www.moderncollege.org](http://www.moderncollege.org)

Ref. No. MCPS/19

COLLEGE CODE : 995


Date 6/11/2019

## To whom so ever It may concern

This is to certify that Dr. Promila Dabas (Head) Department of Education, Maharaja Surajmal Inst., Janakpuri, Delhi had Affiliated to I.P.University, Delhi conducted a Workshop on 6<sup>th</sup> Nov 2019.

Topic of the workshop was "Constructive Approach of Lesson Planning".

This certificate is awarded for imparting her valuable insights and inspirations to the pupils and teachers during her lecturer in workshop.

  
Dr. Nisha Singh  
Principal

  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal  
C-4, Janakpuri, New Delhi-68



।। कृष्णवन्ते विश्वमायम् ।।

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Tel. No. : 25221604, 25225537, 25222843

Email : smaryapublicschool@gmail.com/ smaryaschool@gmail.com

Website:- www.smaps.in

Ref. No. 159/SMAPS/19

Dated. 24.11.19

## APPRECIATION LETTER

Certified that Dr. Promila Dabas, assistant professor, Maharaja Surajmal Institute, affiliated to Guru Gobind Singh Indraprastha University, Delhi has conducted a workshop on "Stress Management" for the secondary and senior secondary students of our school on 21 November 2019. The session was about stress and its causes, how to overcome stress and managing self to become better students. Students gained valuable knowledge and we appreciate your commendable efforts for making the workshop a fruitful session.

(Swati Sharma)  
Head of School

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110023

Rachita Rana

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal  
C-4, Janakpuri, New Delhi



*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Rachita Rana*



**Maharaja Surajmal Institute**

Affiliated to GGSIP University & NAAC 'A' Grade Accredited  
C-4, JANAKPURI, NEW DELHI-110058

*Certificate of Appreciation  
for  
Quality Research  
presented to*

DR. POOJA SINGH

For remarkable contribution towards Quality Research in  
the field of Management & Commerce/Education/Computer  
Applications during the year 2019. Institute appreciates  
the endeavour made by Faculty Member.

*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director, MSI

INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN  
MULTIDISCIPLINARY FIELD



ISSN: 2455-0620

IMPACT FACTOR : 6.719

A monthly Peer-Reviewed, Refereed, Indexed International Research Journal



PAPER ID : ICSETI-2021-10

## Certificate of Publication

is awarded to

**Ravinder Singh**

For the research paper / article entitled

*Comparative Study of Image Steganography using LSB, HideSeek and BFSC*

Published in IJIRMF Volume - 7, Conference Special Issue - 27, July - 2021

Certificate for Publication of :

International Conference on

Science, Engineering & Technological Innovations

10 & 11 July, 2021 Bangkok, Thailand

Jointly organized by:

Automation, Computer Science and Technology Department, Kuvvi Rih National  
University, Ukraine, 'Research Culture Society' and 'Scientific Research Association'.

The Managing Editor  
Research Culture Society and Publication  
WWW.IJIRMF.COM  
Email: rcsjournals@gmail.com  
Email: editor@ijirmf.com

Dr. Rachita Rana  
Director  
Maharaja Suraj  
C-4, Janakpuri, New Delhi - 110058

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Suraj  
C-4, Janakpuri, New Delhi - 110058

# International Conference on Science, Engineering & Technological Innovations



Date: 10 & 11 July, 2021

Bangkok, Thailand (Online mode)

Jointly organized by:  
Kryvyi Rih National University, Ukraine  
Automation, Computer Science and Technology Department  
Research Culture Society,  
&

Sponsored by : Scientific Research Association



## Certificate of Best Presentation

awarded to

**Ravinder Singh and Soumya Awasthi**

for the paper presentation entitled

**'Comparative Study of Image Steganography using LSB, HideSeek and BPSC'**

In Scientific International Online Conference : ICSETI-2021., Bangkok, Thailand.

Ref.No. : ICSETI-2021/BPP/01

**Prof. Natalia Morkun**

ICSETI-2021 Conference Chair  
Head, Automation, Computer Science and Technology  
Department, Kryvyi Rih National University, Ukraine  
<http://www.knu.edu.ua>



**Dr. C. M. Patel**

ICSETI-2021 Conference Chair  
Director, Research Culture Society  
President, Scientific Research Association  
<http://www.researchculturesociety.org>

*Rachita Rana*

**Prof. (Dr.) Rachita Rana**  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

**Prof. (Dr.) Rachita Rana**  
Director

Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Rachita Rana*



(An initiative to identify, recognise and award the contributors of higher education)

## CERTIFICATE OF RECOGNITION

This certificate of recognition is awarded to

**Dr. Kavita Pabreja**

of

**Maharaja Surajmal Institute (Guru Gobind Singh Indraprastha University)**

by

**The Academic Council of uLektz**

as one of the

**Tech Savvy Academicians in Higher Education Across India**

for the year

**2019**

*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Rachita Rana*



*N. Sankar*

Director

*test*

Chief Executive Officer

Date: April 30, 2020

Certificate No: ULZ/WoF/0000350

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राष्ट्रीय शैक्षिक अनुसंधान  
और प्रशिक्षण परिषद्



NATIONAL COUNCIL OF EDUCATIONAL  
RESEARCH AND TRAINING

Speed Post

No.F. 10.13/2020-21/DTE/105-193  
Department of Teacher Education

Dr. Ranjana Arora  
Professor & Head

Email - dte@1999@rediffmail.com  
Phone No- 011-26567320  
Date: 19<sup>th</sup> March, 2021

Subject: National Awards for Innovative Practices and Experiments in Education for  
Schools and Teacher Education Institutions: 2019-20 reg

Dear Mr. Pandey,

It gives me great pleasure to congratulate you that the Project "Poetic presentation  
of Mathematics and its Pedagogy" undertaken by you for participation in the "National  
Awards for Innovative Practices and Experiments in Education for Schools and  
Teacher Education Institutions" has been selected for NCERT Award for the year 2019-  
20.

As you are aware that the Cash Award of Rs. 10,000/- (Rupees ten thousand only)  
along with a certificate will be given to each selected participants. The award money will  
be RTGS by NCERT to your account and Certificate will be send through speed post in  
due course. It is also requested to send the revised summary of the project report. For  
RTGS you are requested to fill & sign and mail the following.

- RTGS Performa
- Award money Receipt

For further information and guidance Professor B.P. Bhardwaj, Programme  
Coordinator may be contacted (09810600537, Email bpbhardwaj@rediffmail.com).

Once again thank you for participation.

Yours sincerely

(Ranjana Arora)

जयप्रकाश नारायण  
राष्ट्रीय शैक्षिक अनुसंधान  
और प्रशिक्षण परिषद्  
विभाग-शिक्षण  
एन सी ई आर टी  
एन सी ई आर टी  
एन सी ई आर टी

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

Mr. Shashikant Pandey  
Assistant Professor  
Maharaja Surajmal Institute  
C-4, Janakpuri, Delhi-110058

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

Rachita Rana

श्री अरविन्द मार्ग, नई दिल्ली-110016  
दूरभाष : 26560020, 26560360 फैक्स : 91-11-26868419  
आर : शिक्षाशोध

SRI AUROBINDO MARG, NEW DELHI-110016  
PH: D-E: 26560020, 26560360 FAX: 91-11-26868419  
GRAMS: EDUSEARCH



**University School of Education**  
**Guru Gobind Singh Indraprastha University**  
**Dwarka, New Delhi 110078**

**Acknowledgement Letter**

Dear

Dr. Vanita Anand

Assistant Professor, Maharaja Surajmal Institute, Janakpuri, Delhi

To attenuate the spread of negative emotions, anxiety, and to enhance mental well-being among the youth during the Covid-Pandemic and Lockdown, we have initiated to put forth a proper mechanism to cope with the situation. Considering this, the University School of Education, GGSIP University, Delhi, had launched an official YouTube Channel to provide online learning resources to students of Teacher Education.

We wish to thank you for your vital contribution by recording video lectures for USE, GGSIP University Delhi YouTube Channel

With Regards

Prof. Dhananjay Joshi

Dean, University School of Education

Guru Gobind Singh Indraprastha University

Prof. (Dr.) Rachita Rana  
Director  
C-4, Janakpuri, New Delhi-68

Prof. (Dr.) Rachita Rana  
Director  
C-4, Janakpuri, New Delhi-68

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-68

**ऑल इण्डिया स्टूडेंट्स वेलफेयर काउन्सिल**  
**पुलिस पब्लिक पब्लिकेशन एण्ड मीडिया अवार्ड्स**  
**और**  
**दिव्य सृष्टि सृजन चेरिटेबल ट्रस्ट**

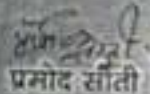
H-390/A, ब्लॉक-H, राजनगर II, पालम कॉलोनी, नई दिल्ली-110077

**उत्कृष्ट शिक्षक सम्मान पत्र**




डॉ० अन्विति रावत को शिक्षा क्षेत्र में अद्वितीय और असाधारण उपलब्धियों के लिए वर्ष 2020-2021 के लिए "उत्कृष्ट शिक्षक" सम्मान से सम्मानित किया जाता है।

हम आपके सुन्दर भविष्य की कामना करते हुए, आशा करते हैं कि भविष्य में भी आप इसी प्रकार उत्कृष्ट कार्य करते हुए शिक्षा क्षेत्र में अपनी अमिट छाप छोड़ेंगी।

  
 प्रमोद साँनी

(चेयरमैन - राजनगर अध्यापन समिति)

  
 नरेश कुमार शर्मा

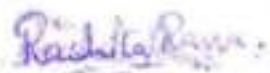
(चेयरमैन - पुरस्कार विजेता अध्यन समिति)

**C-3/34.35, जैन रोड़, भगवती गार्डन एक्स., उत्तम नगर, नई दिल्ली-110059**

  
 48

Prof. (Dr.) Rachita Rana  
 Director  
 Maharaja Surajmal Institute  
 C-4, Jenakpuri, New Delhi-58

C-4, Jenakpuri, New Delhi-58  
 Maharaja Surajmal Institute  
 Director  
 Prof. (Dr.) Rachita Rana



# ऑल इण्डिया स्टूडेन्ट्स वेलफेयर काउन्सिल पुलिस पब्लिक पब्लिकेशन एण्ड मीडिया अवार्ड्स

और  
दिव्य सृष्टि सृजन चेरिटेबल ट्रस्ट

H-390/A, ब्लॉक-H, राजनगर II, पालम कॉलोनी, नई दिल्ली-110077



## उत्कृष्ट शिक्षक सम्मान पत्र

प्रो० डॉ० हरीश सिंह को शिक्षा क्षेत्र में अद्वितीय और असाधारण उपलब्धियों के लिए वर्ष 2020-2021 के लिए "उत्कृष्ट शिक्षक" सम्मान से सम्मानित किया जाता है।

हम आपके सुन्दर भविष्य की कामना करते हुए, आशा करते हैं कि भविष्य में भी आप इसी प्रकार उत्कृष्ट कार्य करते हुए शिक्षा क्षेत्र में अपनी अमिट छाप छोड़ेंगे।

प्रमोद सोनी

(चेयरमैन - समारोह आयोजन समिति)

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janapuri, New Delhi-59

नरेश कुमार शर्मा

(चेयरमैन - पुरस्कार विजेता चयन समिति)

C-3/34-35, जैन रोड, भगवती गार्डन एक्स., उत्तम नगर, नई दिल्ली-110059

# ऑल इण्डिया स्टूडेन्ट्स वेलफेयर काउन्सिल पुब्लिक पब्लिकेशन एण्ड मीडिया अवार्ड्स


और  
दिव्य सृष्टि सृजन चेरिटेबल ट्रस्ट

H-390/A, ब्लॉक-H, राजनगर II, पालम कॉलोनी, नई दिल्ली-110077


## उत्कृष्ट शिक्षण संस्थान सम्मान पत्र

महाराजा सूरजमल इंस्टीट्यूट (MSI), जनकपुरी, नई दिल्ली को शिक्षा क्षेत्र में अद्वितीय और असाधारण उपलब्धियों के लिए वर्ष 2020-2021 के लिए “उत्कृष्ट शिक्षण संस्थान” सम्मान से सम्मानित किया जाता है।

हम उपरोक्त शिक्षण संस्थान के सुन्दर भविष्य की कामना करते हुए, आशा करते हैं कि भविष्य में संस्थान इसी प्रकार उत्कृष्ट कार्य करते हुए शिक्षा/खेल के क्षेत्र में अपनी अमिट छाप छोड़ेगा।

  
प्रमोद सोती

(चेयरमैन - समारोह आयोजन समिति)

  
नरेश कुमार शर्मा

(चेयरमैन - पुरस्कार विजेता चयन समिति)

C-3/34-35, जैन रोड, भगवती गार्डन एक्स., उत्तम नगर, नई दिल्ली-110059

# ऑल इण्डिया स्टूडेन्ट्स वेलफेयर काउन्सिल पुलिस पब्लिक रिलेशन एण्ड मीडिया अवार्ड्स

और

## दिव्य सृष्टि सृजन चेरिटेबल ट्रस्ट

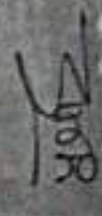
M-390/A, ब्लॉक-H, राजनगर II, पाल्म कॉलोनी, नई दिल्ली-110077



### उत्कृष्ट शिक्षक सम्मान पत्र

डॉ० अमित चौधरी को शिक्षा क्षेत्र में अद्वितीय और असाधारण उपलब्धियों के लिए वर्ष 2020-2021 के लिए "उत्कृष्ट शिक्षक" सम्मान से सम्मानित किया जाता है।

हम आपके सुन्दर भविष्य की कामना करते हुए, आशा करते हैं कि भविष्य में भी आप इसी प्रकार उत्कृष्ट कार्य करते हुए शिक्षा क्षेत्र में अपनी अमिट छाप छोड़ेंगे।

  
प्रमोद सोती

(चेयरमैन - समारोह आयोजन समिति)

  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajprasth Institute  
C-4, Jangpuri, New Delhi-59

  
नरेश कुमार शर्मा

(चेयरमैन - पुरस्कार विजेता वयन समिति)

C-3/34-35, जैन रोड, भगवती गार्डन एक्स., उत्तम नगर, नई दिल्ली-110059





Dr. Vanita Anand <vanitaanand08@gmail.com>

## Request for contributing video lectures for the course: Teaching and Learning (B.Ed.) for SWAYAMPRABHA Channel 32: Teacher Education

Gaurav Singh - SOE <gauravedu@grau.ac.in>  
To: vanitaanand08@gmail.com

Mon, Jan 13, 2020 at 3:02 PM

To,  
DR. Vanita Anand  
Maharaja Surajmal Institute, Janakpuri, New Delhi

Dear Dr. Vanita,  
SWAYAMPRABHA is a bouquet of 32 DTH Free to air educational channels of Ministry of Human Resource Development (MHRD) Govt. of India. Channel 32: Teacher Education is one of these channels and is dedicated for facilitating working teachers, teacher educators and trainee teachers of various institutions. Keeping in view your expertise and experience in the area, The Content Authority has approved your name as subject matter expert to contribute for development of video programmes on the following topics on **January 17, 2020** at Center for Online Education (COE), IGNOU, New Delhi:

Intelligence Theories (Guilford Model)

Types and Trait Theories of Personality

Needless to mention that the honorarium for recording, TA maximum up to II-AC train fair or equivalent/local travel (whichever is applicable), accommodation in IGNOU Guest House will be provided as per existing SWAYAMPRABHA/IGNOU norms on completion of video programme development. It will be appreciated if you send a mail to confirm your dates as mentioned above and dates for which accommodation (if needed) is required along with PPT to be used for recording.

Looking forward for your meaning full academic contribution.

Thanks and Regards,

*Rachita Rana*

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-68

Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-68

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-68

*Rachita Rana*

(Gaurav Singh)  
Channel Coordinator  
Ch. 32: Teacher Education



**University School of Education  
Guru Gobind Singh Indraprastha University  
Dwarka, New Delhi 110078**

**Acknowledgement Letter**

Dear

Dr. Vipasha Rana

Assistant Professor, Maharaja Surajmal Institute, Janakpuri, Delhi

To attenuate the spread of negative emotions, anxiety, and to enhance mental well-being among the youth during the Covid-Pandemic and Lockdown, we have initiated to put forth a proper mechanism to cope with the situation. Considering this, the University School of Education, GGSIP University, Delhi, had launched an official YouTube Channel to provide online learning resources to students of Teacher Education.

We wish to thank you for your vital contribution by recording video lectures for USE, GGSIP University Delhi YouTube Channel

With Regards

Prof. Dhananjay Joshi

Dean, University School of Education

Guru Gobind Singh Indraprastha University

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110058

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110058



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Applications during the year 2019. Institute appreciates  
the endeavour made by Faculty Member.

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110058

Rachita Rana

Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110058

Rachita Rana  
Prof. (Dr.) Rachita Rana  
Director, MSI

# ऑल इण्डिया स्टूडेन्ट्स वेलफेयर काउन्सिल पुलिस पब्लिक पब्लिकेशन एण्ड मीडिया अवार्ड्स

और  
दिव्य सृष्टि सृजन चेरिटेबल ट्रस्ट

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## उत्कृष्ट शिक्षण संस्थान सम्मान पत्र

महाराजा सूरजमल इंस्टीट्यूट (MSI), जनकपुरी, नई दिल्ली को शिक्षा क्षेत्र में अद्वितीय और असाधारण उपलब्धियों के लिए वर्ष 2020-2021 के लिए "उत्कृष्ट शिक्षण संस्थान" सम्मान से सम्मानित किया जाता है।

हम उपरोक्त शिक्षण संस्थान के सुन्दर भविष्य की कामना करते हुए, आशा करते हैं कि भविष्य में संस्थान इसी प्रकार उत्कृष्ट कार्य करते हुए शिक्षा/खेल के क्षेत्र में अपनी अमिट छाप छोड़ेगा।

प्रमोद सोनी

(चेयरमैन - समारोह आयोजन समिति)

Prof. (Dr.) Rachita Rana

Director  
Maharaja Surajmal  
Institute, New Delhi-58

नरेश कुमार शर्मा

(चेयरमैन - पुरस्कार विजेता चयन समिति)

C-3/34-35, जैन रोड, भगवती गार्डन एक्स., उत्तम नगर, नई दिल्ली-110059



लोक नायक जयप्रकाश नारायण राष्ट्रीय अपराधशास्त्र एवं विधि विज्ञान संस्थान  
 LNJN NATIONAL INSTITUTE OF CRIMINOLOGY AND FORENSIC SCIENCE  
 गृह मंत्रालय, भारत सरकार / Ministry of Home Affairs, Government of India  
 बाहरी रिंग रोड / Outer Ring Road, सेक्टर / Sector-3, रोहिणी / Rohini, दिल्ली / Delhi-110 085  
 दूरभाष / Tele Nos. 011-27521091, 27512717, 27522564  
 फैक्स / Fax Nos. 011-27511571, 27510586  
 Website: www.nicfs.gov.in E-mail: training.nicfs@nic.in

Dated 15.07.2021

To,

**Ms. Nikita Malik**  
 Assistant Professor  
 Department of Computer Science,  
 Maharaja Surajmal Institute (MSI),  
 Janakpuri, New Delhi

Dear Nikita,

We thank you for taking online lectures on the various topics of "Network and Communication Technologies" for the students of Post-Graduate Diploma in Cyber-Crime and Law (PGDCCL) during May-June 2021.

Prof. (Dr.) Rachita Rana  
 Director  
 Maharaja Surajmal Institute  
 C-4, Janakpuri, New Delhi-110058

Rachita Rana

Rachita Rana

Prof. (Dr.) Rachita Rana  
 Director  
 Maharaja Surajmal Institute  
 C-4, Janakpuri, New Delhi-58

15.7.21  
**Dr. Deepak Raj Rao G.**  
 (Course Coordinator)  
 Asst. Prof. (Cyber Forensics)



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*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-58

*Rachita Rana*

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Director *Rachita Rana*  
Maharaja Surajmal Institute  
C-4, Janakpuri, New Delhi-110058



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Assistant Professor, Department of Education



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PROF. J.P. SINGH

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President, SMES

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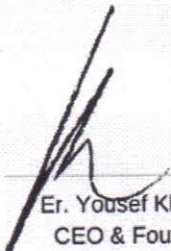
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system



Er. Yousef Khirak  
CEO & Founder  
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ATION PUBLICATION

(21) Application No.202241030783 A

Application :30/05/2022

(43) Publication Date : 17/06/2022

ion : SMART WHEELCHAIR FOR PHYSICALLY DISABLED PEOPLE USING IOT

(71)Name of Applicant :

1)C. R. VIJAY

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MBA,  
DR.N.G.P.INSTITUTE OF TECHNOLOGY, COIMBATORE, TAMILNADU - 641048

2)DR. LATHA P

3)DR. HARISHCHANDER ANANDARAM

4)DR. AANCHAL TEHLAN

5)K R SWETHA

6)RUPALI NARENDRA AGME

7)DR. SHIVAPUTRA

8)DR.VAISHALI N. AGME

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :ASSISTANT PROFESSOR, COLLEGE OF OCCUPATIONAL  
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COMPUTATIONAL ENGINEERING AND NETWORKING, AMRITA VISHWA  
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4)DR. AANCHAL TEHLAN

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MAHARAJA SURAJMAL INSTITUTE, IP UNIVERSITY, NEW DELHI - 110058

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7)DR. SHIVAPUTRA

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BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NAVI MUMBAI,  
MAHARASHTRA - 410210A61G0005100000, A61G0005040000, A61G0003060000,  
A61G0005120000, A61G0005060000PCT//  
01/01/1900

ion : NA

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NA

ation : NA

NA

a Power Wheelchair with sensors, assistive technologies, and computers. Many handicapped persons can't afford these wheelchairs. 5- 15% of 70 million handicapped  
sirs, according to WHO. We must provide a cheap, high-tech Smart. Several recent attempts were excellent. They've created an autonomous wheelchair using AI, machine  
speech recognition. This study presents a cost-effective Smart Wheelchair based on Arduino Nano microcontroller and IoT technologies that may enable impaired  
time chores without external support. This project will make the Smart Wheelchair more affordable. It will be based on Arduino Nano, ESP-12e for Wi-Fi, MPU6050 for  
vice message warning using IFTTT, obstacle detection with buzzer and LED as dangers, speech recognition, and joysticks to operate the wheelchair.

o. of Claims : 7

*Rachita Rana*  
Prof. (Dr.) Rachita Rana  
Director  
Maharaja Surajmal Instit-  
New Delhi-11

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**Er. T. Singh**  
Head (R&D)  
I2OR India

  
**Prof. (Dr.) Rachita Rana**  
Director  
Maharaja Surajmal Inst  
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Prof. (Dr.) Rachita Rana

Director

Maharaja Surajmal Institute  
C-4, Jankpuri, New Delhi-110055