



Raj Kumar Goel Institute of Technology

DEPARTMENT OF APPLIED SCIENCES &
HUMANITIES



E-NEWSLETTER

Volume 2, Issue 1
Jan - June 2021

**Sarpan**



Our Team

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Sh. Akshat Goel

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Dr. D.K Chauhan

Dr. D.R Somashekar

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Dr. Poonam C Kumar

Editor

Dr. Neena Sharma



Contents

Welcome to New Faculty

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Mental Up

WELCOME

to our new faculty members



Dr. Sudhir Kumar Sharma
Professor
M.Sc, PhD



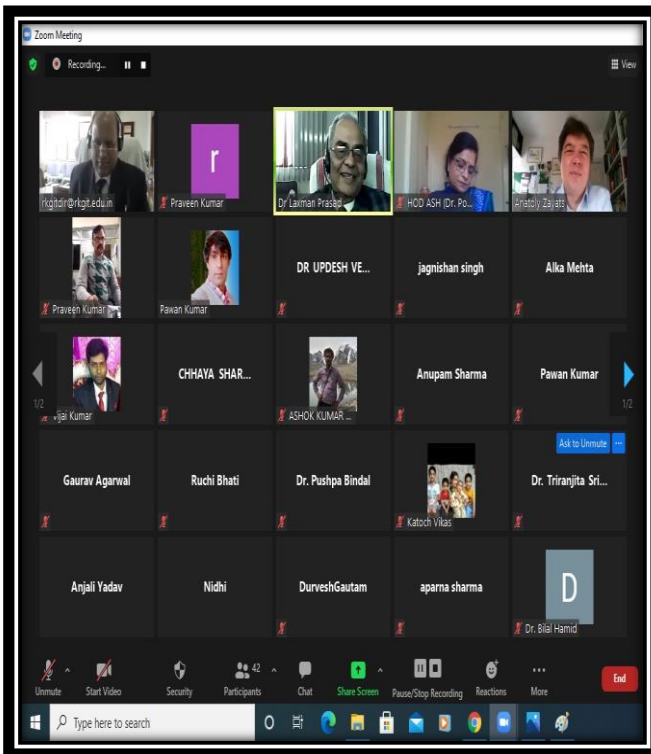
Ms. Shweta Sharma
Assistant Professor
MA English, MBA, PHD *



Dr. Gurmeet Kaur
Assistant Professor
M.Sc , PhD

International Webinar Series

plasmonic metamaterial



Raj Kumar Goel Institute of Technology, Ghaziabad, U. P., India
Affiliated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow, U. P., India

Research Centre for Compact Radiation Sources
&
Department of Applied Sciences and Humanities
Invites
Faculty Members, Research Scholars and Students
for
International Webinar
On
Plasmonics Metamaterials
(5-February, 2021)
Time: 03:30 PM

No Registration Fee
Registration Link
<https://forms.gle/teC68PcTXznBwm8>

FEBRUARY 2021

S	M	T	W	T	F	S
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Prof. Anatoly V. Zayats, FInstP, FOSA, FSPIE, FRSC
Photonics & Nanotechnology Group, King's College London, U.K.
Director, London Centre for Nanotechnology, London, U.K.
London Institute for Advanced Light Technologies, London, U.K.

Convener: Prof. Poojaini Kumar, HOD (ASH), RKGIT
Coordinator: Prof. Dr. Prag Singhal, ASH, Department, RKGIT
Coordinator: Dr. Vikas Katoch, Associate Prof. ASH, Department, RKGIT
Technical Coordinator: Mr. Praveen Kumar, Asst. Prof. CSE, Department, RKGIT

Raj Kumar Goel Institute of Technology, 5 KM STONE, Delhi – Meerut Road, Ghaziabad

The International Webinar Series was organized by the Department of Applied Sciences & Humanities and Research Centre for Compact Radiation Sources. The first lecture was on “Plasmonic Metamaterials” by Prof. Anatoly V. Zayats, FIP, FOSA, FSPIE, FRSC, King's College London and Director London Centre for Nanotechnology, London, U.K. on 5th February, 2021. A **plasmonic metamaterial** is a metamaterial that uses surface plasmons to achieve optical properties not seen in nature. Plasmons are produced from the interaction of light with metal-dielectric materials. Under specific conditions, the incident light couples with the surface plasmons to create self-sustaining, propagating electromagnetic waves known as surface plasmon polaritons (SPPs). Once launched, the SPPs ripple along the metal-dielectric interface. Compared with the incident light, the SPPs can be much shorter in. The lecture was attended by more than 700 viewers simultaneously on Zoom, You tube and Facebook.

International Webinar Series

Quantum Optics with Metamaterials

Raj Kumar Goel Institute of Technology, Ghaziabad, U. P., India
Affiliated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow, U. P., India

Research Centre for Compact Radiation Sources
&
Department of Applied Sciences and Humanities
Invites
Faculty Members, Research Scholars and Students
for
International Webinar
On
Quantum Optics with Metamaterials
(18-February, 2021)
Time: 03:30 PM

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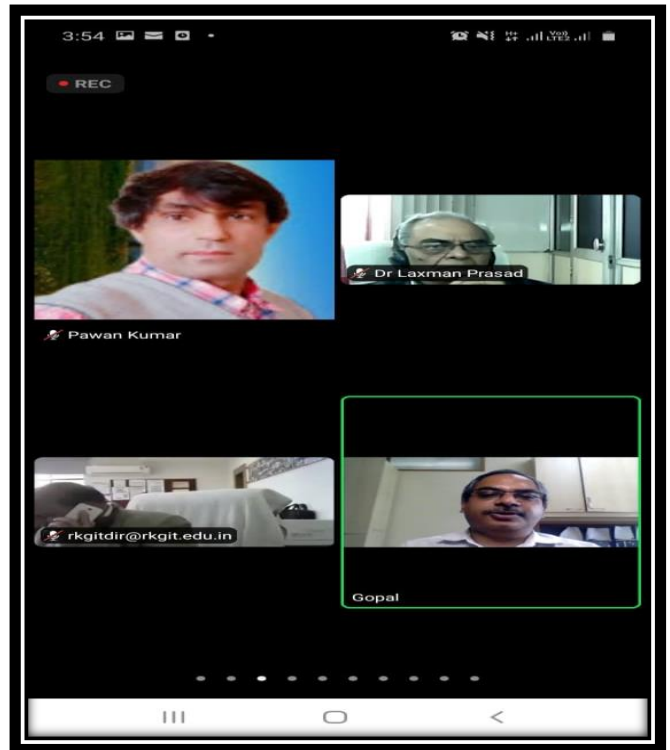
FEBRUARY 2021						
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Due 18 February, 2021
Time: 03:30 PM (IST)

Professor Achanta Venugopal
Department of Condensed Matter Physics & Materials Science
Tata Institute of Fundamental Research, Mumbai, India

Convener: Prof. Poonam C. Kumar (HOD (ASH), RKGIT)
Coordinator: Prof. (Dr.) Sanjeev Goyal (Physics, RKGIT)
Coordinator: Dr. Vineeta Singh (Mathematics, RKGIT)
Technical Coordinator: Mr. Praveen Kumar, Asst. Prof. (CSE, Department, RKGIT)

Raj Kumar Goel Institute of Technology, 5 KM STONE, Delhi – Meerut Road, Ghaziabad



The second lecture of International Webinar Series organized by the Department of Applied Sciences & Humanities and Research Centre for Compact Radiation Sources was on “Quantum Optics with Metamaterials ”by Professor Achanta Venu Gopal, Tata Institute of Fundamental Research (TIFR), Mumbai, India on 18th February, 2021. He is a world renowned experimentalist in area of condensed matter physics and material science. Quantum optics a well-developed field for studying interaction of light with atoms. Metamaterials are artificial structures assembled from multiple elements smaller in scale than the wavelength of the external stimuli. They can endow a medium with unique electromagnetic response and functionalities. The lecture was attended by more than 700 viewers simultaneously on Zoom, You tube and Facebook.



**Faculty
Achievements**

Faculty Development Programme

- ❑ Dr Neena Sharma participated and successfully completed “One Week Online National Faculty Development Program on E-Contents and ICT Tools for Innovative Teaching & Learning ” Organized by RCP, Roorkee from 1 May to 7 May, 2021.
- ❑ Dr Neena Sharma successfully completed a two week online Faculty Development Programme on Communication Skills: Theory and Practices from 14 June -25 June 2021, organized by Integral University , Lucknow, India
- ❑ Dr Anupam Sharma , Associate Professor participated and successfully completed “One Week Online National Faculty Development Program on E-Contents and ICT Tools for Innovative Teaching & Learning ” Organized by RCP, Roorkee from 1 May to 7 May, 2021.
- ❑ Dr Ritu Sharma Participated in Online International Faculty Development Program on “Formative assessment: the principles and practicalities of assessing young learners’ English skills from a distance Presented by: Eleonora Pessin” organized by Pearson English Spring Days on 13th May 2021.



Online Certification

- ❑ Dr Neena Sharma successfully completed a course 120-Hour TESOL/TEFL focusing on a complete range of topics surrounding the teaching of the English language to non-native students, both in an overseas and online classroom environment, accredited by ACCREDITAT (UKRLP: 10065351) by World TESOL Academy on 15 Feb 2021..
- ❑ Dr Shalini Gupta successfully completed “Introduction to Calculus” an online non- credit course authorized by The University of Sydney through Coursera on March 27, 2021.



Workshop attended

- ❑ Dr Vikas Katoch participated in Online Workshop Nuclear Physics at the Edge of Stability from ECT, from 28 June, 2021 to 01 July, 2021.
- ❑ Dr Neena Sharma participated in National Level Online “Workshop-cum-Lecture Series on Raja Rao’s Kanthapura” organized by English Literary Society of the College , RKSD (PG) College, Kaithal, Haryana , Kurukshetra University from 13 to 20 January, 2021.
- ❑ Dr Ritu Sharma participated in the One month workshop entitled “Preventive Healthcare: Yog for Anxiety and Stress Management during Covid Pandemic ” organized by IQAC, Janki Devi Memorial College from 21st May, 2021 to 21st June, 2021.



Research Publications

- ❑ Dr Prag Singhal Published a research paper on “A Note on Marriage Theorem. IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 17, Issue 3 Ser. IV (May – June 2021), PP 21-30.
- ❑ Dr Shalini Gupta Published a research paper on “A Note on Marriage Theorem. IOSR Journal of Mathematics (IOSR-JM) e-ISSN: 2278-5728, p-ISSN: 2319-765X. Volume 17, Issue 3 Ser. IV (May – June 2021), PP 21-30.
- ❑ Dr Ritu Sharma published a paper entitled “Artistic Approaches in Atal Behari Vajpayee’s Writings ” in STRAD RESEARCH an UGC approved Journal, ISSN: 0039-2049, Volume 8, Issue 1 January- 2021.



Patent Publication

Dr Shalini Gupta published a Patent “TITLE OF THE INVENTION” “SYSTEM FOR PROVIDING REAL TIME DATA ASSOCIATED WITH PET ANIMAL”

- The Patent Journal no. 21/2021 Dated 21/05/2021**
- Application No. 202111019590A**
- Publication Date: 21/05/2021**
- No. of Pages:15**
- No. of Claims:07**

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- The Patent Journal no. 21/2021 Dated 21/05/2021**
- Application No. 202111019590A**
- Publication Date: 21/05/2021**
- No. of Pages:15**
- No. of Claims:07**

Dr Manoj Mangal filed one IPR on Mobile Charger facility in a camping stove-

- Application No: 338573-001 Cbr-200133 Primary approve**



STUDENT
ACHIEVEMENT



Student Achievements

Mr Arpan Gupta, Sec J, CS (AIML) discovered 3 preliminary Asteroids(near earth objects) which according to the scientific nomenclature have been named P11ggvr, P11ggDB,P11gvyy.



RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY

Approved by AICTE, Ministry of HRD, GOI & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow

Estd : 2000 AN ISO 9001 : 2015 CERTIFIED INSTITUTE College Code - 033

5km Stone, Delhi - Meerut Road, Near Rajnagar Ext. Crossing, Ghaziabad, UP, Ph : (0120) 2788273

"International Asteroid Search Campaign"

Organized by IASC supported by NASA from May 03-May 28, 2021



Congratulations



Mr. Arpan Gupta
Citizen Scientist

CSE (AIML), B. Tech First Year

Successful discovery of 03 Preliminary Asteroids (near Earth objects) which according to the scientific nomenclature have been named as P11ggvr, P11ggDB, P11gvyy.



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[rkgitgzb](https://www.facebook.com/rkgitgzb)

Student Achievements

This certificate was awarded to Mr Abhinav Singh for successfully completing a course on Python from DOC Academy.



This certificate was awarded to Mr Utkarsh Gupta for successfully completing a course on Java for beginners-Learn all the basics of Java from Udemy.



Student Achievements

This certificate was awarded to Mr Mehtab for successfully completing a course on RoboAuthor: Content Writing Automation 2021 from Udemy.



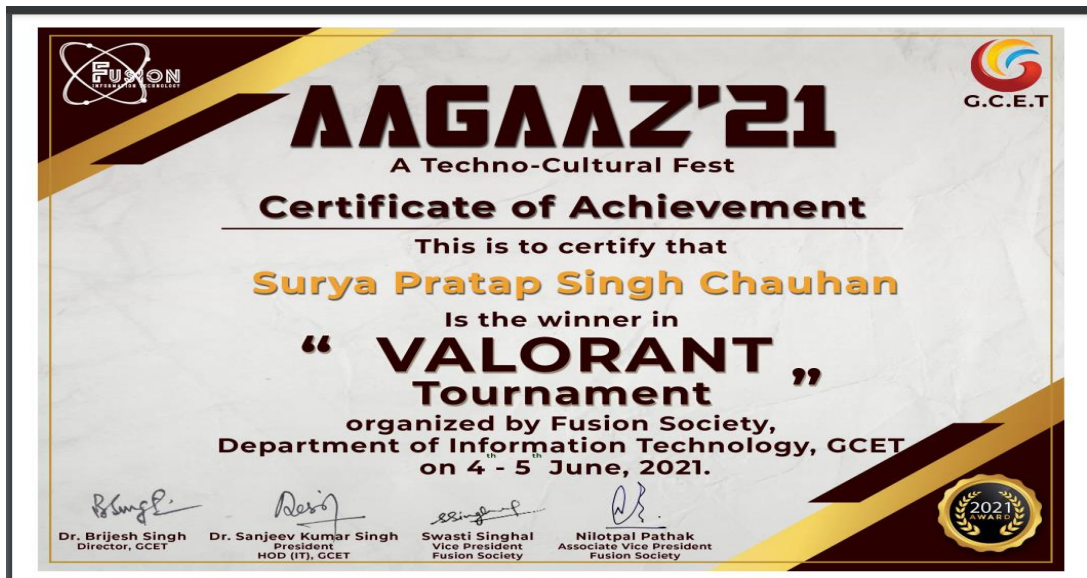
Student Achievements

This certificate was awarded to Mr Ansh Mishra successful completion of E-business quiz Jagannath University, Jaipur and College of Engineering, Nashik.



Student Achievements

This certificate of achievement was awarded to Mr Surya Pratap Singh Chauhan to participate in Valorant tournament organized by fusion Society,GCET.



Ms Nandini Sharma successfully secured Content Writing internship at Team Everest through Internshala.



Student Achievements

This certificate of excellence was awarded to Ms Nandini Sharma for her outstanding contribution during the ecell program conducted by Coincent, IIT Delhi.



Ms Nandini Sharma successfully secured Being Kind - Summer Volunteering (Openings - 500) internship at Kind Beings through Internshala.



Student Achievements

This certificate of achievement was awarded to Mr Shivam Chaurasia to participate in Valorant tournament organized by fusion Society, GCET.



Student Corner



Student corner

POSITIVE IN COVID19

**How strange are these days also
How close we are to our near and far from the world.
There is new life in these winds,
Still do not know why humans are upset. A virus made us lurk in our homes, teaching birds to chirp again.**

**The peace that was lost from the world of congestion,
We lost ourselves in the work.
A virus introduced itself to us.**

**Eat those beans, work all day,
Resting when he comes home.
Planning tomorrow at the dinner table,
He prepares himself daily for the new war.
A virus made us a bit relaxed.**

**Just remembering God in need, saluting daily work just in the morning,
Perhaps we underestimated them. A virus made us realize their existence.**

**Morning sun now looks good
The condition of the winds is relaxed now,
We lost in the blue sky,
Feeling comfortable at home.
This lock down time seems less frequent now.**

**Now Kano has become used to wake up the mother,
The need for an alarm is not felt.
Now there is a taste in dinner, perhaps more than the outside pizza burger.
Virus made us habit of loved ones.**

**We might have forgotten to live in daily activities,
The virus is probably just an excuse,
We have to learn life to live again.**



**Prashant Mishra,
Sec K
Branch CSE(IOT)
B.Tech first year**

Student corner

दिन और रात

दिन का अंधेरी रातों में तब्दील हो जाना,
तारों का यूँ मुस्करा कर टिमटिमाना,
बेपरवाह पक्षियों का यूँ चहकना,
अनजान राहों पर खुद के रास्ते को तलाशना,
फूलों का खिलना और फिर मुझा जाना,
खींचे यह दृश्य बस मन में समा लेना,
चाँद का बादलों के पार मद्धम होना,
आँखों में सपने लिए खुद का आयाम तलाशना,
कभी खुद का सवाल बनना और मन में समझाना,
तारों को यूँ निहारना और फिर,
अपनी ही अदृश्य दुनिया में गुम हो जाना,
सुकून दिलाती ये कल्पनाएं,
व्यथा से ओझल कुछ हताशा को हराना,
पहेलियों को खोजना, सुलझाना और सोचना,
ये तारा मंडल कुछ दर्शाता हुआ कुछ कहानिया बताता
हुआ,
और ये आसमान परिदृश्य बाँधता हुआ,
बस यही चक्र दिन से रात और रात से दिन,
लेकिन हर रोज कुछ नवीन और अलग होता हुआ,
परिवर्तन हैं,
फिर इन्हीं घटनाओं को सोचना, समझना फिर विलीन
हो जाना अपनी ही दुनिया में।



Name-Pragya Singh
Sec B
Branch-CSE
B.Tech I year

Student corner

उम्मीद से जिंदगी

उम्मीद छोटा सा शब्द है जिस पर इतराती है
ज़िन्दगी उम्मीद पर भरोसा करकर ही तो मुस्कुराती है
ज़िन्दगी

मंदिर की प्रार्थना , मस्जिद की अजान है उम्मीद
टूटे छप्पर में रहने वाले के लिए पक्का मकान है उम्मीद

उम्मीद के बहाव से डूबती कश्ती को किनारे पे लाया जा
सकता है
निरंतर परिश्रम से अपने सपनों को पंख लगाया जा सकता
है

उम्मीद पर खरा उतर कर माँ बाप का सहारा बनना है
उम्मीद का सहारा लेकर सफलता की छोटी पर चढ़ना है

उम्मीद ही है जो भटके राहगीरों को रस्ता दिखाएगी
उम्मीद ही है जो लाचारों तक सहारा पहुंचाएगी

डगमगाने लगे जब कदम मन में हिम्मत जगाती है
उम्मीद
खुद को साबित करने का नज़रिया दिखाती है उम्मीद

उम्मीद के लव को असफलताओं की आंधी से बचाये रखना
उम्मीद को बचा कर खुद को बचाये रखना

उम्मीद को जीवन के किसी भी मोड़ पर टूटने मत देना
उम्मीद का दामन किसी भी हाल में छूटने मत देना



Harsh Tiwari
Sec B

Branch - ECE
B.Tech I Year

Student corner

Wish I hadn't lost myself.

Being crazy as early as early as I was ,

Wish I had the wisdom to recognize

What's right at that time .

Wish I could see any hope but there

Was not any rope .

The time people say was there best

I have it to worsen myself .

Wish I had remained what I was

And not had changed myself to

Suit the box I inside was .

I was sitting and realizing that

What I changed myself because

Of the many people around myself .

Emotions , thoughts are quite cool at That time

Being positive is the best way you can

Live , spreading positivity is a thing

We all should never leave .

Today I do it to enjoy the

essence , just by being true to my sense .



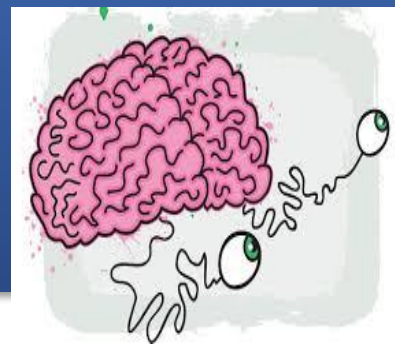
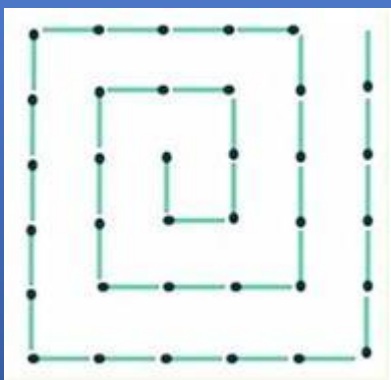
Vanshika Jindal
Sec M
CS (Data Science)
B.Tech I Year



MENTALUP

Mental UP

1. Turn me on my side and I am everything. Cut me in half and I am nothing. What am I?
2. I have four wings, but cannot fly, I never laugh and never cry; On the same spot I'm always found, toiling away with little sound. What am I?
3. The water level in a reservoir is low but doubles every day. It takes 60 days to fill the reservoir. How long does it take for the reservoir to become half full?
4. Move 4 matchsticks to make 3 squares of different sizes.



Previous issue solution

1. *35 minutes late*
2. *Zina, Weldon, Delia, Leisha, Benito, Charlotte*
3. *When it is 9 AM, add 5 hours to it and you will get 2 PM.*

Raj Kumar Goel Institute of Technology



darpan

VOLUME 2, ISSUE 1



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darpanrkgitash@gmail.com