



**UNIVERSITY COLLEGE OF
SCIENCE**

Osmania University

HYDERABAD, TELANGANA STATE, INDIA - 500 007



KONDA INDU

COURSE : M.Sc
DEPT. : Physics
VALIDITY : 2022-2024
MESS NO. :

Roll. No : 100722509308



[Signature]
Principal



**UNIVERSITY COLLEGE OF
SCIENCE**

Osmania University

HYDERABAD, TELANGANA STATE, INDIA - 500 007




GAYATRI ASHOK MOKASHI

COURSE : M.Sc
DEPT. : Physics
VALIDITY : 2022-2024
MESS NO. :

Roll. No : 100722509105




Principal



UNIVERSITY COLLEGE OF SCIENCE

Osmania University

HYDERABAD, TELANGANA STATE, INDIA - 500 007

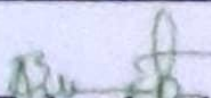


M FARIDHA

COURSE : M.Sc
DEPT. : Physics
VALIDITY : 2022-2024
MESS NO. :

Roll. No : 100722509218




Principal

DEPARTMENTAL ACTIVITIES

GOVT. DEGREE COLLEGE FOR WOMEN ,BEGUMPET
HYDERABAD

DEPARTMENT OF PHYSICAL SCIENCE

ACTIVITIES FOR THE ACADEMIC YEAR 2022-23

Faculty achievements

Departmental and student achievements

social responsibility activities

Sl. No.	DATE	Departmental Activities conducted
1	13-7-22	ATTENDED IPR WORKSHOP BY NIPA
2	Text book Publication	https://link.springer.com/chapter/10.1007/978-981-16-9356-4_9
3	27-7-22	presented ppt presentation @ HITAM Int conference
4	30-7-22	Distribution of books kit and Harithhararm @ Gattuipalappalli in collaboration with AG Office
5	11-8-22	Rakshabhandan dinotsav with prisoners
6	13-9-22	Received Momento from principal Gdc Begumpet,for recognition of services, Convener for I Year admissions (MPCS and MPC)
7		Presented ppt presentation @ HITAM Int conference Paper published and Certificate of Recognition received
8	29-10-22	Presented ppts @CVR engineering College on BSA&DNA POLYMERS and received Best paper presentation certificate
9	31-10-22	PUBLISHED TWO PAPERS (In-zn)for photocatalytic application SPRINGER PUBLICATION on COVID-19
10	31-10-22	Fistful of Rice program

11	16-11-22	Field trip to Do Science Park @ Sanjeevayya park
12	21-11-22	Work shop on Basic concepts in Physics with Agastya International Foundation
13	1-12 to 7-12-22	Attended FDP AT GDC CITY COLLEGE
14	9-12-22	PUBLISHING PATENT WORK AS 5TH POSITION
15	6-1-23	Participation in SYMPOSIUM @Brahma kumaris
16	7-1-23	Workshop on Fabrication of Electronic devices (Innovative Technologies)
17	11,12-1-23	2-day FDP ON ICTOOLS and soft skills
18	5-2-2023	reviewer certificate from Elsevier
19	9-2-2023	visited Maathapitharula seva sadan@Ibrahimpattanam
20	11-2-2023	Field visit to Anveshan exhibits @visweswarayya bhavan
	22-2-23	Field visit to ICRISAT https://photos.app.goo.gl/cjuzjDrxaWSrvkYV6
	28-2-23	Organized science exhibition on National science day @GDCW and DAE
	21-2-23	Organized workshop on fabrication of Electronic devices for semester 4 students (Innovative technologies)
	22-2-23	ORIENTATION PROGRAMME @ARCI https://drive.google.com/drive/folders/1RQtS5vaUxGWrDwVjjafX82YrwGWCNTSo?usp=sharing
	4-3-23	Field visit to IMD
	13-3-23 and 15-3-23	OD for MLC ELECTION AND ABRSM
	19-4-23	certificate/workshop with agastya on low and no cost
	5-5-23	Accepted for Materials Today publication /Applied for CSIR-ASPIRE PROJECT
	19-4-23	CAREER COUNSELLING -ONLINE
	5-5-23	patent 2 published
	27-4-23	extension lecturer @GDC BHUPALAPALLI



We the Department of physics have organized Workshop on Fabrication of Electronic devices for sustainable development in collaboration with Innovative Technologies (as we have an MOU) on 6-1-2023 in different applications in the daily life such as Fire detector, Fire detector with sprinkler, Street light control with day-night sensor, Vehicle based street light, Gas detector, Portable Metal detector, Laser beam security ,Pollution detector, Liquid level sensor, Temperature based fan control, Public tap water control, Electronic code lock, Clap switch and Plant irrigation using soil sensors. The above projects were fabricated by the students of III and II B.Sc students in Hands on and after checking the effect of sensing results in the above experiments. After completion of the workshop, We have given the Participation Certificates to the students by our Principal and Innovative Technologies Director Dr .Hameed

INNOVATIVE TECHNOLOGIES

Certificate



CERTIFIED PROFESSIONAL
(AN ISO 9001 : 2008 CERTIFIED
INSTITUTION)



This Is To Certify That The Following Student

Mr / Ms. _____

Government Degree College For Women (A), Begumpet
have attended one day workshop on 6th Januaray -2023 organized by
DEPARTMENT OF PHYSICS AND ELECTRONICS in association with Innovative
Technologies, Hyderabad on "Fabrication Of Electronics Devices"

PRINCIPAL
Dr. K Padnavathi

H.O.D
Dr. Ch. Kanchana Latha

DIRECTOR
INNOVATIVE TECHNOLOGIES

Address : D.No. 303, 3rd Floor Fatima Manzil, Tolichowki, Hyderabad .
Ph No: 9052150158 Web: www.innovativeprojects.co.in



GPS Map Camera

Hyderabad, Telangana, India

ADMINISTRATION BLOCK, GOVERNMENT DEGREE COLLEGE FOR WOMEN, 1-10-166, Mayur Marg, Begumpet, Hyderabad, Telangana 500016, India

Lat 17.441654°

Long 78.459644°

06/01/23 12:45 PM GMT +05:30

Google



Hyderabad, Telangana, India

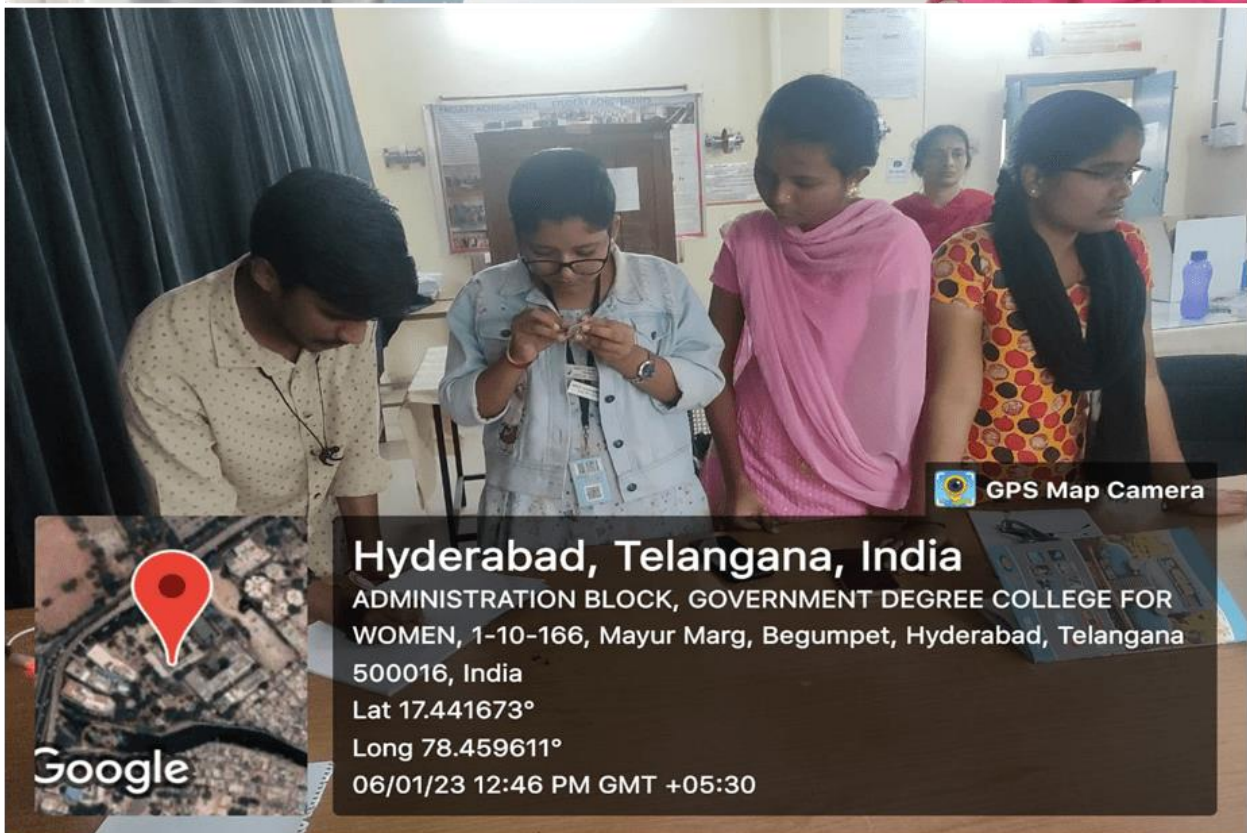
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Lat 17.441659°

Long 78.45959°

06/01/23 12:45 PM GMT +05:30

GPS Map Camera



Hyderabad, Telangana, India

ADMINISTRATION BLOCK, GOVERNMENT DEGREE COLLEGE FOR WOMEN, 1-10-166, Mayur Marg, Begumpet, Hyderabad, Telangana 500016, India

Lat 17.441673°

Long 78.459611°

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GPS Map Camera



 GPS Map Camera



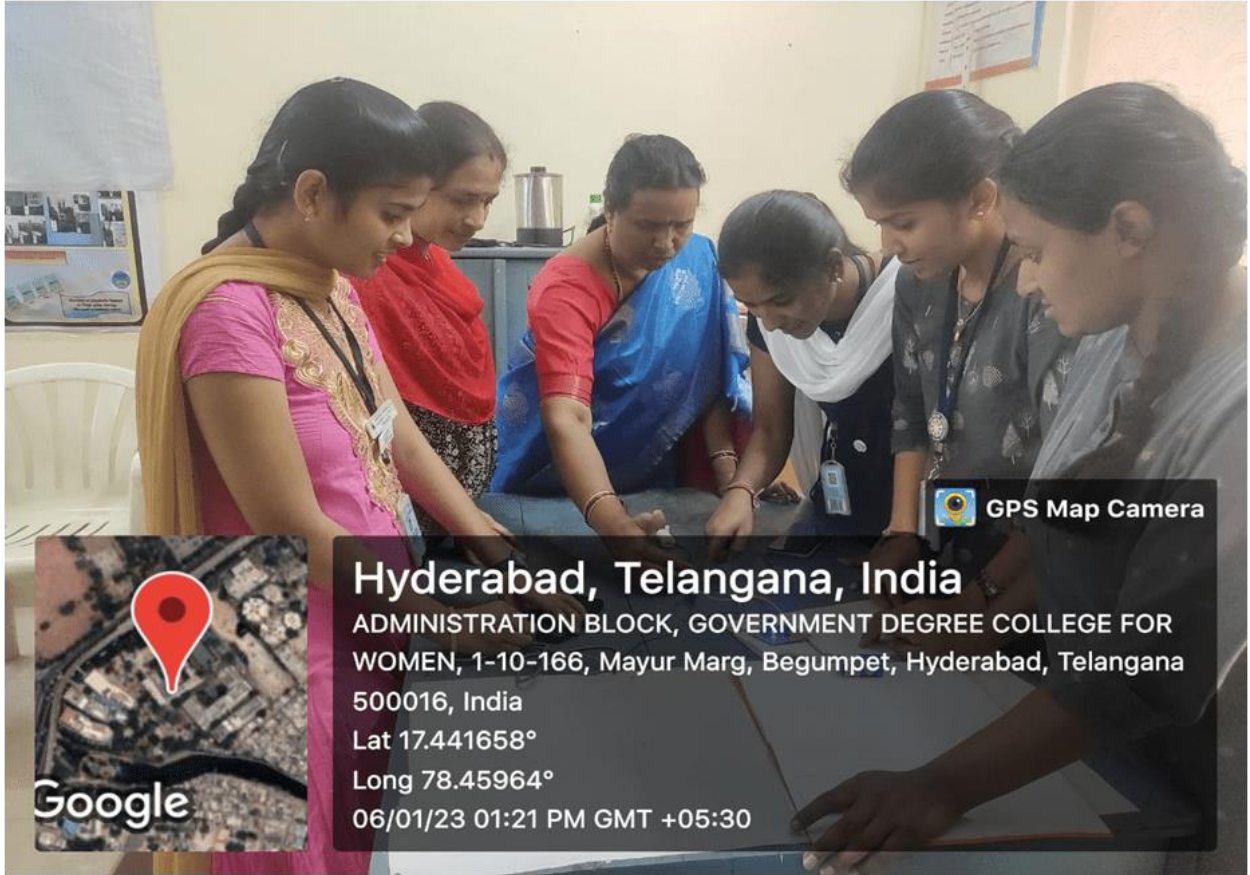
Hyderabad, Telangana, India


ADMINISTRATION BLOCK, GOVERNMENT DEGREE COLLEGE FOR WOMEN, 1-10-166, Mayur Marg, Begumpet, Hyderabad, Telangana 500016, India

Lat 17.441681°

Long 78.459604°

06/01/23 12:46 PM GMT +05:30



 GPS Map Camera



Hyderabad, Telangana, India

ADMINISTRATION BLOCK, GOVERNMENT DEGREE COLLEGE FOR
WOMEN, 1-10-166, Mayur Marg, Begumpet, Hyderabad, Telangana
500016, India

Lat 17.441658°

Long 78.45964°

06/01/23 01:21 PM GMT +05:30

FIELD VISIT TO DO SCIENCE PARK @ SANJEEVAYYA PARK



We the Department of Physics went to Do Science park @ Sanjeevayya park on 16-11-22 with the students of II .BSc (50 no.) with faculty of Dr.Ch.Kanchana Latha and Ms.N.Anitha . In the park they showed the physics related items (Velocity of Sound, ECHOES, Laws of vibrations of strings, No.of images formed between mirrors, Optical Illusion etc) with Hands on.Students are very much enlightened in learning the concepts and they take the printed material from Story box tool.



in partnership with



Presents



An initiative to bridge the gap between schools and engineering colleges to develop innovation and creativity through mentoring

INVITATION SCIENCE & ENGINEERING FAIR 2023

10thFeb2023

Welcome Address: 10:30AM

Sri.K.Thiagarajan

Chief of Operation,
Agastya International Foundation.

Inauguration 10:40AM

Ms.Jayanthi Kasarla

Site leader & Director, EDA Group
Synopsys, Hyderabad

Key note Address by Chief Guest

10:50 AM

Dr.Rajashree Bohle

Deputy Director,
National emote Sensing Center,
Hyderabad

Book Launch: 11:00AM

Er.Brahma Reddy

Chairman ELECT.

Members of the Jury Panel:

Dr.Vishwamath Gogte

Director ,Vigyana Vahini

Mr.Sarat Vegesna

Sr.Manager, Customer Success group
Synopsys, Hyderabad

Dr.S A K Jilani

Director R&D, Professor ECE,
Dr.KV Subba Reddy Institute of Technology

Dr. V. Mahammad Dada

Director R&D
AcenAAr Technologies Pvt.Ltd

11th Feb 2023

Welcome Address: 3:00 pm

Sri.Suresh T.S

General Manager,
Agastya International Foundation

**"100 Times
Curious" Book Launch 3:10pm**

Sri.Shanta Thotam

Chief Innovation Officer
TSIC, Hyderabad.

**Key Note & Announcement of
Award 3:30 pm**

Sri.Srinivas Adabala

Director Customer Success Group
Synopsys. Hyderabad

Vote of Thanks 3:40pm

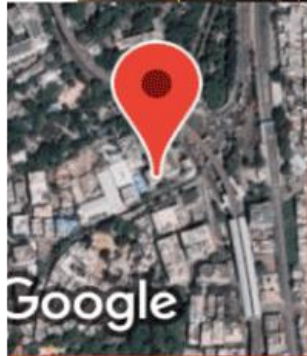
Mr.Sarat Vegesna

Sr. Manager, Customer Success group
Synopsys, Hyderabad

Balaram .K
9449596375
Bhaskar .S V
8792479019

www.anveshana.org

Venue: Institute of Engineers(India), Telangna State Centers,
Vishweshwaraya Bhawan,
khairatha Bad, Hyderabad-500004



Hyderabad, Telangana, India


SHOP NO 102 1ST FLOOR, Golden Edifice, H NO 6-3-639&640,
beside tiwari Brothers sweet shop, Anand Nagar Colony,
Khairtabad, Hyderabad, Telangana 500004, India

Lat 17.412669°

Long 78.459719°


11/02/23 12:38 PM GMT +05:30



 GPS Map Camera

Hyderabad, Telangana, India
62, Chinthal, Balanagar, Hyderabad, Telangana
500054, India
Lat 17.412412°
Long 78.459874°
11/02/23 12:49 PM GMT +05:30



 GPS Map Camera

Hyderabad, Telangana, India
62, Chinthal, Balanagar, Hyderabad, Telangana
500054, India
Lat 17.412412°
Long 78.459874°
11/02/23 12:49 PM GMT +05:30



SSES FOR BLIND PEOPLE

36

VIRTUAL MOUSE

 GPS Map Camera



Hyderabad, Telangana, India

62, Chinthal, Balanagar, Hyderabad, Telangana


500054, India

Lat 17.412412°

Long 78.459874°

11/02/23 12:49 PM GMT +05:30



 **GPS Map Camera**



Hyderabad, Telangana, India
62, Chinthal, Balanagar, Hyderabad, Telangana
500054, India
Lat 17.412412°
Long 78.459874°
11/02/23 12:49 PM GMT +05:30



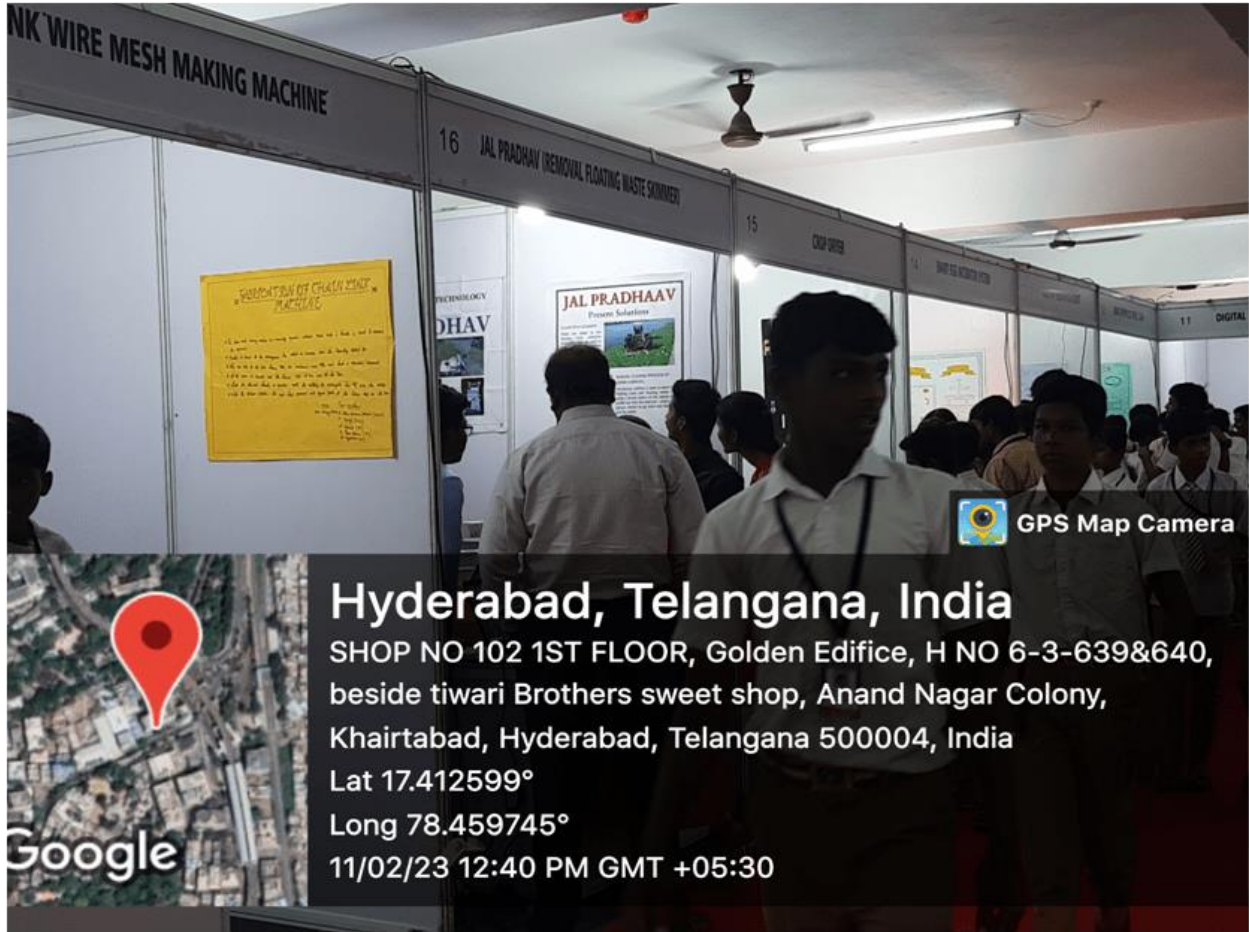
Hyderabad, Telangana, India

SHOP NO 102 1ST FLOOR, Golden Edifice, H NO 6-3-639&640,
beside tiwari Brothers sweet shop, Anand Nagar Colony,
Khairtabad, Hyderabad, Telangana 500004, India

Lat 17.412599°

Long 78.459745°

11/02/23 12:40 PM GMT +05:30



Hyderabad, Telangana, India

SHOP NO 102 1ST FLOOR, Golden Edifice, H NO 6-3-639&640,
beside tiwari Brothers sweet shop, Anand Nagar Colony,
Khairtabad, Hyderabad, Telangana 500004, India

Lat 17.412599°

Long 78.459745°

11/02/23 12:40 PM GMT +05:30



17 CHAIN LINK WIRE MESH MAKING MACHINE

16 JAL PRADHAAV (REMOVAL FLOATING WASTE SKIMMER)

15

PROBLEMS OF CHAIN LINK WIRE MESH MAKING MACHINE

JAL PRADHAAV
Prevent Subsidization

GPS Map Camera



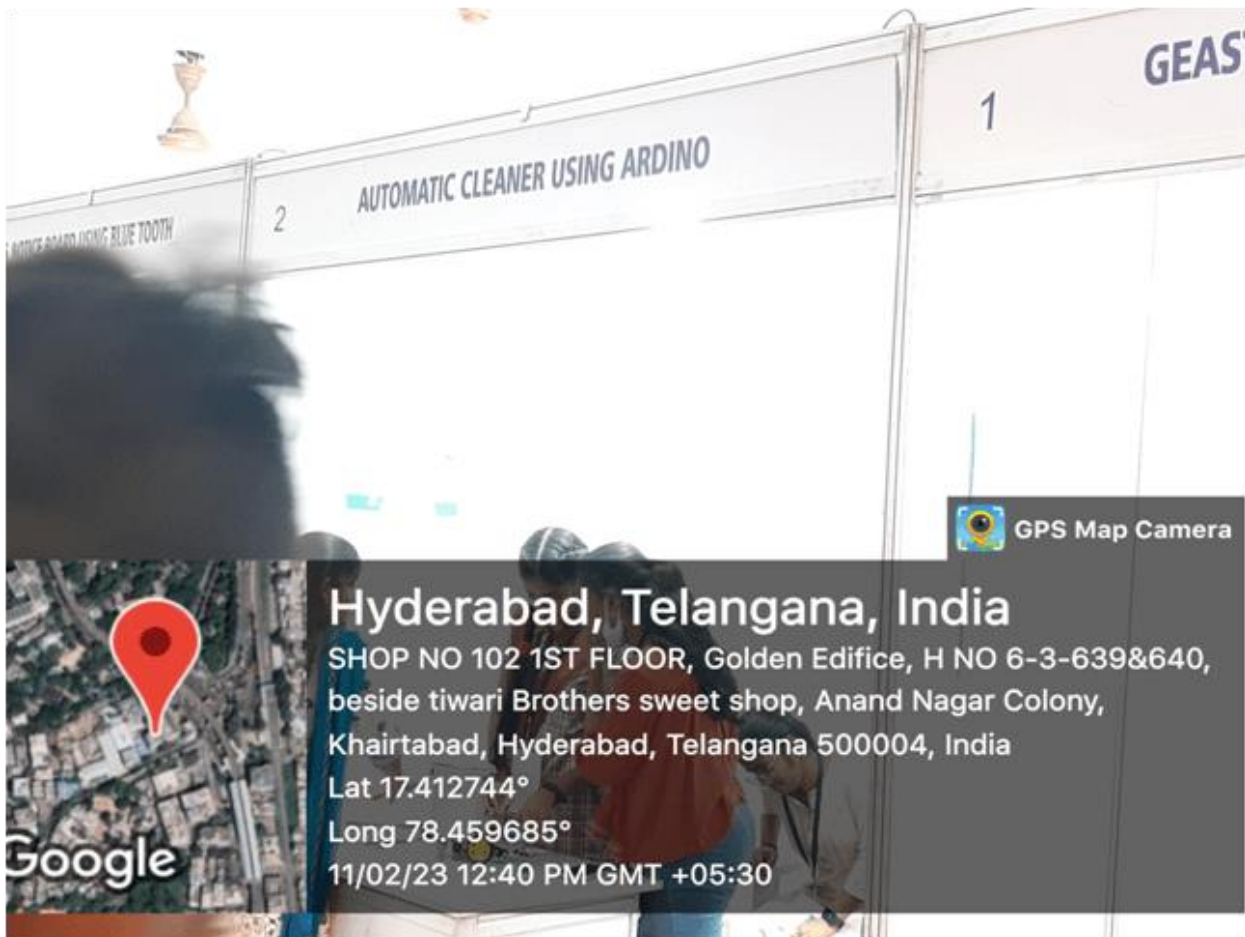
Hyderabad, Telangana, India

SHOP NO 102 1ST FLOOR, Golden Edifice, H NO 6-3-639&640, beside tiwari Brothers sweet shop, Anand Nagar Colony, Khairtabad, Hyderabad, Telangana 500004, India

Lat 17.412702°

Long 78.459732°

11/02/23 12:40 PM GMT +05:30



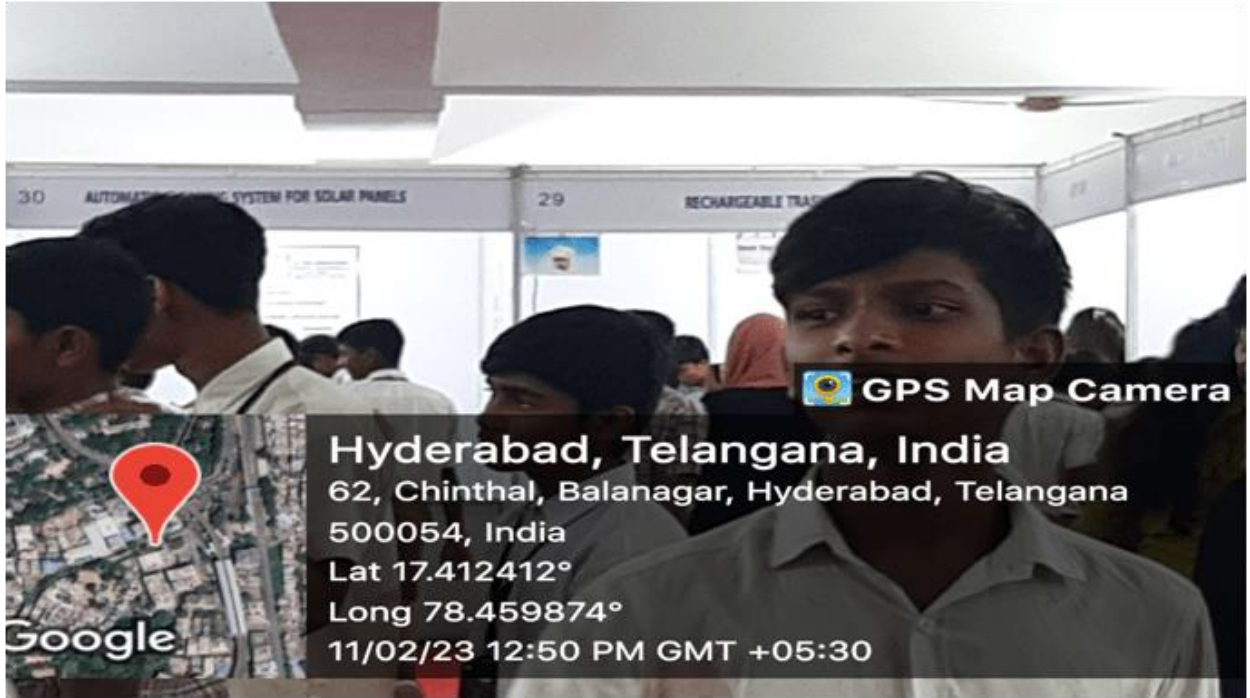
Hyderabad, Telangana, India


SHOP NO 102 1ST FLOOR, Golden Edifice, H NO 6-3-639&640, beside tiwari Brothers sweet shop, Anand Nagar Colony, Khairtabad, Hyderabad, Telangana 500004, India
Lat 17.412744°
Long 78.459685°
11/02/23 12:40 PM GMT +05:30



Hyderabad, Telangana, India

6/2/952/1/A, Khairatabad Rd, Chintal, Hyderabad, Telangana 500004, India
Lat 17.412415°
Long 78.459886°
11/02/23 12:39 PM GMT +05:30



 GPS Map Camera

Hyderabad, Telangana, India
62, Chinthal, Balanagar, Hyderabad, Telangana
500054, India
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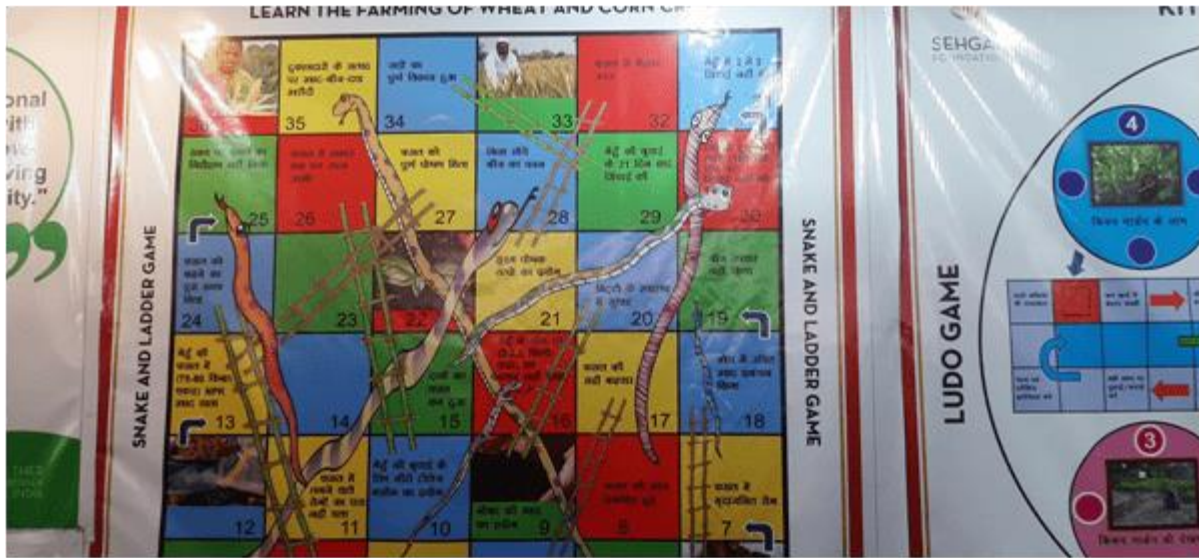


FIELD VISIT TO ICRISAT

link address of ICRISAT Photos (22-2-23)

<https://photos.app.goo.gl/cjuzjDrxaWSrvkYV6>











Invitation for DAE on National science day celebrations (28-2-23)

भारत सरकार
परमाणु ऊर्जा विभाग


सत्यमेव जयते

भारत सरकार
परमाणु ऊर्जा विभाग
परमाणु खनिज अन्वेषण एवं अनुसंधान
निदेशालय

Government of India
Department of Atomic Energy
**Atomic Minerals Directorate for
Exploration and Research**


डॉ. टी. एस. सुनील कुमार
अपर निदेशक (अ. एवं. वि.)
Dr. T. S. Sunil Kumar
Additional Director (R&D)

No. AMD/NSD/2023/1

Date: 17.02.2023

Dear Sir / Madam,

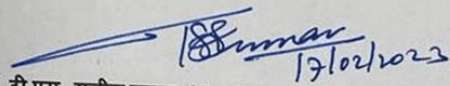
On the occasion of celebration of National Science Day 2023 on February 28, I have great pleasure in inviting you to join the Science day celebrations at Atomic Minerals Directorate for Exploration and Research, Begumpet, Hyderabad from 9:30 AM to 2:30 PM. (land mark: Opp. Hyderabad Public School, Begumpet). On this occasion, a popular science lecture will be delivered by the Chief Guest Padma Shri M.Y.S. Prasad, Former Director, Satish Dhawan Space Centre, Sriharikota. On the occasion, the students will have the opportunity to visit state-of-the-art AMD laboratories.

It will be highly appreciated if you can identify and send ten students for an organized visit to AMD. One faculty member may accompany the students to assist them during this programme.

All the visiting students and accompanying teacher are advised to carry their identity cards while visiting the AMD complex. Kindly provide a list of students along with accompanying official for enabling their entry passes in AMD premises. Students may also be advised not to carry any mobile / electronic gadgets which are not permitted in AMD premises due to security reasons.

Your kind cooperation in organizing the events would be of great help and go a long way in realizing the objectives of the programme to increase the awareness in science and technology and also inculcating the scientific spirit among the students.

Thanking you,


[डॉ. टी.एस. सुनील कुमार / Dr. T.S. Sunil Kumar]

To,
The Principal

1-10-153-156, बेगमपेट Begumpet | दूरभाष / Telephone



NATIONAL SCIENCE DAY CELEBRATIONS

Orientation Programme for Promoting Science as Career

February 23, 2023



A nation's self-reliance very much depends on its strength of science and technology output. Innovation through science and technology open a completely new exciting world to students. School/college teachers play an influential role in igniting the passion for scientific discovery and critical thinking in young minds during the process of learning. On the lines of Azadi Ka Amrit Mahotsav and the National Science Day celebrations, a one-day 'Orientation Programme for Promoting Science as Career' is being organized for science teachers and lecturers on February 23, 2023 at ARCI, Hyderabad.

The objective of the programme is to inspire the teachers and lectures to become science ambassadors for inculcating scientific temper among students by pursuing scientific careers and to strengthen the nation's self-reliance through its strength in science and technology.

The Orientation Programme will cover talks by expert scientists on recent advances in areas of materials physics and chemistry, followed by a visit to the state-of-the-art facilities at ARCI. This will help teachers stay up-to-date with the latest advancements and be able to incorporate that information into their lessons. The overall experience will be highly beneficial for science faculty and will help them inspire the next generation of scientists.

Programme

- 10.00 hrs Inaugural Address by Dr. R. Subbari, Scientist 'G' and Co-Chairman, AKAM
- Welcome Address by Dr. P. K. Jain, Associate Director and Chairman, AKAM
- Address by Dr. Tata Narasinga Rao, Director, ARCI
- Dr. Roy Johnson, Associate Director, ARCI
- Mr. D. Srinivasa Rao, Associate Director, ARCI
- Introduction of the **Chief Guest - Shri Naveen Mittal, IAS**
- 10.45 hrs Address by Shri Naveen Mittal, IAS, Commissioner, Collegiate Education & Technical Education at Government of Telangana
- 11.00 hrs Hi-Tea and Group Photo
- 11.15 hrs **Lectures by ARCI Senior Scientists**
- 13.30 hrs Lunch
- 14.30 hrs Lab Visit
- 16.30 hrs Tea Break
- 16.45 hrs Panel Discussion
- 17.00 hrs Distribution of Participation Certificates
- 17.30 hrs Vote of Thanks by Dr. Sanjay R Dhadge, Scientist-E & Member, AKAM

Lectures

- "Nano and Advanced Materials for Various Applications" by Dr. R. Vijay, Head, Centre for Nanomaterials
- "Role of Advanced Ceramics for Future Technologies" by Dr. M. Buchi Suresh, Scientist E, Centre for Advanced Ceramic Materials
- "Using Nanotechnology to Generate Surfaces that Mimic Nature" by Dr. R. Subbari, Head, Centre for Sol-Gel Coatings
- "Solar Energy for a Brighter Future" by Dr. R. Easwaramoorthi, Scientist E, Centre for Solar Energy Materials, ARCI
- "A Career as a Materials Scientist" by Dr. G. Ravichandri, Head, Centre for Materials Characterization and Testing



इंटरनेशनल एडवांस्ड रिसर्च सेंटर फॉर पाउडर मेटलर्जी एंड न्यू मटेरियल्स (एआरसीआई)
INTERNATIONAL ADVANCED RESEARCH CENTRE
FOR POWDER METALLURGY AND NEW MATERIALS (ARCI)

An Autonomous Research & Development Centre of Department of Science & Technology, Government of India
बालपुर, हैदराबाद / Balapur, Hyderabad - 500 005
www.arci.res.in | @arci_res_in

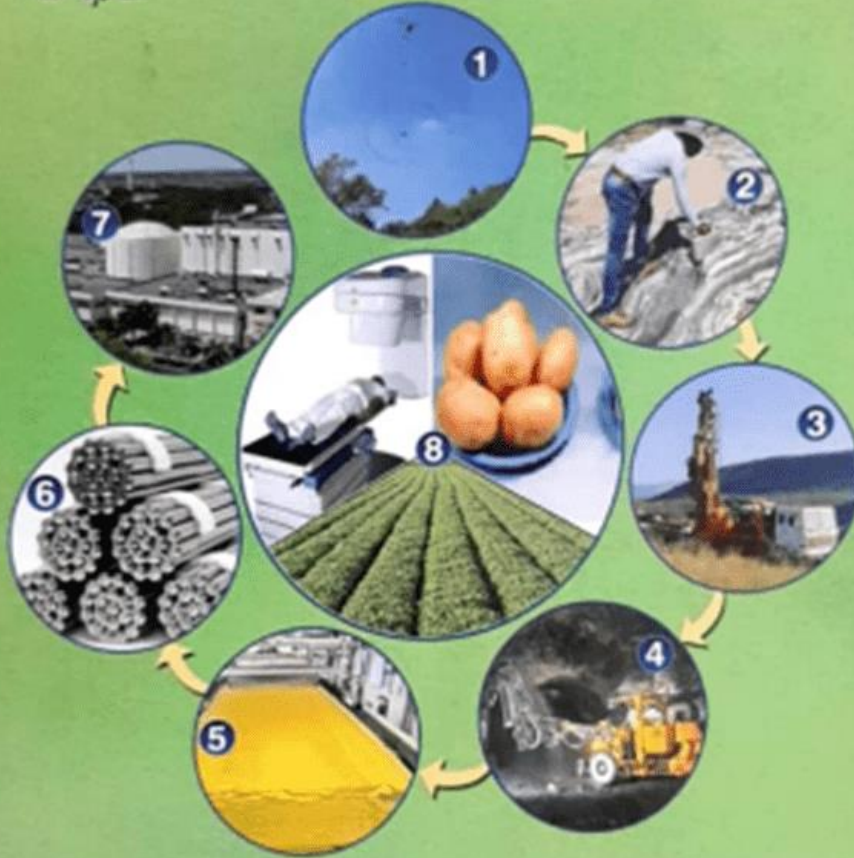


75
Azadi Ka
Amrit Mahotsav



అణు శక్తి

స్వచ్ఛమైన హరిత శక్తికి ఒక విశ్వసనీయమైన ఎంపిక



ముఖ్య సంపాదకుడు

డా. చీరుక్ కుమార్ సిన్హా
చైరెక్టర్, ఎ.ఎం.డి

అణు ఖనిజ అన్వేషణ మరియు పరిశోధన సంఘాలక కార్యాలయము
అణు శక్తి విభాగము
గువంబరు, వింజి

FIELD VISIT TO IMD ON 4-3-23 WITH BSC 2ND YEARS









INNOVATIVE TECHNOLOGIES Certificate



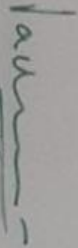
CERTIFIED PROFESSIONAL
(AN ISO 9001 : 2008 CERTIFIED
INSTITUTION)



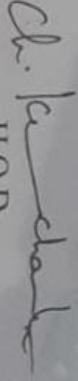
This Is To Certify That The Following Student

Mr / Ms. K. Manisha


Government Degree College For Women (A), Begumpet
have attended one day workshop on 6th January -2023 organized by
DEPARTMENT OF PHYSICS AND ELECTRONICS in association with Innovative
Technologies, Hyderabad on "Fabrication Of Electronics Devices"


PRINCIPAL

Dr. K Padmavathi


H.O.D

Dr. Ch. Kanchana Latha


DIRECTOR
INNOVATIVE TECHNOLOGIES

Address : D.No. 303, 3rd Floor Fatima Manzil, Tolichowki, Hyderabad .

Ph No. 9052150158 Web: www.innovativeprojects.co.in



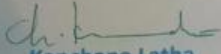
AGASTYA
INTERNATIONAL FOUNDATION
SUPPORTING THE JOURNAL OF SCIENCE & EDUCATION

Certificate of Participation

This certificate is presented to

P. SRAVANI

For his / her active participation in the science exhibition 2K23 held at
Government degree college for women, Begumpet
On 28-02-2023


Kanchana Latha
HOD – Physics department
GDCW – Begumpet



SCIENCE



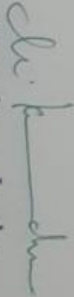
AGASTYA
INTERNATIONAL FOUNDATION
SUPPORTED BY K. JUDHISHANKARA FOUNDATION & OTHERS

CERTIFICATE OF PARTICIPATION

Presented to:

T. SHUBHANGI

For his / her active participation in the hands-on workshop on "Basic concepts of Physics" held at Government degree college for women, Begumpet On 17-04-2023


Kanchana Latha
HOD - Physics Department
GDCW - Begumpet



MANIPAL UNIVERSITY
JAIPUR



Academia-Industry Symbiotic Alliance (AISA)

Department of Physics, Manipal University Jaipur

In association with

Directorate of Alumni Relation



Er. Vibhor Agrawal

Alumnus (Batch 2020)

Linkedin 101: Mastering the basics for Career Success


Er. Vibhor is currently working in Founder's Office at India's fastest-growing blockchain company, Hike. Vibhor is working at the intersection of Web2 and Web3 to build Rush Gaming Universe (RGU), a brand-new gaming economy where players can experience ownership like never before.

He is also Alumnus of MUJ (Batch of 2020, B. Tech - Information Technology)

Event Details

 19th April 2023

 3:30 PM to 5:00 PM

 MS team platform

Registration is free. E-certificate will be provided to all the registered attendees. The event is open for 12th,UG&PG students.


**Registration link
& QR code**




https://forms.office.com/Pages/ResponsePage.aspx?id=6CYHfUu_wUqZ8QEPsR8dP86Jmlw_aT9hOlcY3S1nwA3FUMkxFU1g4MTRBTvZCVlpKVUNXUKVHV1VDWS4u

Department of Physics

Manipal University Jaipur

 Dehmi Kalan, Jaipur-Ājmer Express Way, Jaipur-303007, Rajasthan

 0141-3999100

<https://jaipur.manipal.edu/fos/schools-faculty/schools-list/sobs/dept-of-physics.html>

ANNUAL DAY CELEBRATIONS(2022-23)



DEPARTMENT OF PHYSICAL SCIENCE ACTIVITIES FOR THE ACADEMIC YEAR 2022-23

Faculty achievements

Sl. No.	DATE	Departmental Activities conducted
1	13-7-22	ATTENDED IPR WORKSHOP BY NIPA
2	Text book Publication	https://link.springer.com/chapter/10.1007/978-981-16-9356-4_9
3	27-7-22	presented ppt presentation @ HITAM Int conference
4		Presented ppt presentation @ HITAM Int conference Paper published and Certificate of Recognition received
5	29-10-22	Presented ppts @CVR engineering College on BSA&DNA POLYMERS and received Best paper presentation certificate
6	31-10-22	PUBLISHED TWO PAPERS (In-zn)for photocatalytic application SPRINGER PUBLICATION on COVID-19
7	1-12 to 7-12-22	Attended FDP AT GDC CITY COLLEGE
8	9-12-22	PUBLISHING PATENT WORK AS 5TH POSITION
9	6-1-23	Participation in SYMPOSIUM @Brahma kumaris
10	11,12-1-23	2-day FDP ON ICTOOLS and soft skills
11	5-2-2023	reviewer certificate from Elsevier
12	22-2-23	ORIENTATION PROGRAMME @ARCI https://drive.google.com/drive/folders/1RQtS5vaUxGWrDwVjjafX82YrwGWCNTSo?usp=sharing
13	13-3-23 and 15-3-23	OD for MLC ELECTION AND ABRSM
14	5-5-23	Accepted for Materials Today publication /Applied for CSIR-ASPIRE PROJECT/Submitted College Level Research Project
	5-5-23	patent 2 published
	27-4-23	extension lecturer @GDC BHUPALAPALLI



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Chapter 9 Green Synthesis of Nanoparticles by Plants and Their Renewable Energy Applications



Ramchander Mervuga, Ragini Gothwal, Rani Padmini Velamakanni,
Rani Sanjayaksha Velamakanni, Kanchana Latha Chitturi, and Farheen Nair

Abstract Nanotechnology is a branch of science that is highly evolving and has its applications widespread into diverse fields. Use of metals in the nanoparticles synthesis has received international attention due to its considerable, huge applications in all fields. In recent times, biogenic method of synthesis of nanoparticles is being done using plants, microorganisms like bacteria, fungi, and algae which is receiving global attention for its advantages like decreased usage of chemicals that are harmful, cost effective, environment friendly, etc. Green synthesis methods are largely explored as they function as potential factories with vital requirements like enzymes, substrates, and other components that are required for the formation of the nanoparticles of superior quality. Biological method of synthesis is completely safe. The extract in itself have natural capping agents, reducing agents, etc. that are required for the nanoparticles formation. Bio-mediated synthesis of nanoparticles with several metals such as gold, silver, copper, platinum, zinc and its oxides, titanium, nickel, palladium, etc. and their applications in various areas have been studied globally by researchers. The use of metals as single i.e., monometallic or in combination of more than one metal as, bimetallic and even trimetallic for

R. Mervuga (✉)

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M. Srivastava et al. (eds), *Green Nano Solution for Bioenergy Production Enhancement*, Clean Energy Production Technologies,
https://doi.org/10.1007/978-981-16-9156-4_9

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Clean Energy Production Technologies
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For his/her phenomenal and worthy oral presentation as an *Invited Speaker* at the
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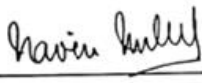
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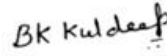


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Impact of DNA and dyes on enhanced OPTO -electronic properties of PVA

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ARTICLE INFO

Article history:
Available online xxxxx

Keywords:
PVA with DNA and DYES
XRD
SEM&EDAX
UV&ELECTRICAL studies

ABSTRACT

Biofilms have been prepared by adding DNA and dyes like Phloroglucinol, Toluidine and Bromophenol blue dyes to PVA solution by casting method. The absorption spectra recorded at the wavelength ranges (600–800 nm). The electrical properties were measured for AC conductivity were studied and increases with introduction of dyes DNA-PVA-dye with its distinct XRD, UV, SEM & EDAX are used to determine structural, optical, and morphological properties respectively on binding between PVA, **Phloroglucinol, Toluidine blue Bromophenol** dyes and DNA occurs.

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1. Introduction:

In applications such as Electrical, Industrial, automotive and household appliances etc Polymer based composite materials have huge usage. For water convertible polymer PVA [1–3] offers scien-

thinning makes DNA films encouraging candidates significant as waveguides. Combining DNA protein with polymers and dyes can enhance efficiency poling with greater nonlinear optical coefficients. With cross-linking the DNA-CTMA doped with PVA and dyes waveguide was also demonstrated [12] which can also find



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Study on electrical and structural properties of PVA doped BSA and dyes composite films

Kanchana Latha Chittury^{a,*}, RamChander Merugu^b, B. Shanti Sree^c, Nehru Boda^d^a Department of Physics, GDCW Begumpet, Hyderabad 500016, Telangana, India^b Department of Biochemistry, MG University, Nalgonda, Telangana, India^c Department of HES, Gokaraju Rangaraju Institute of Engineering and Technology, Telangana, India^d Department of Science and Humanities-(Physics), St.Martin's Engineering College, Hyderabad 500100, Telangana, India

ARTICLE INFO

Article history:

Available online xxx

Keywords:

PVA doped BSA-organic dyes

XRD

SEM&EDAX

UV-Vis and dielectric studies

ABSTRACT

Bio composites have been synthesized by mixing BSA and organic dyes like Coomassie Bromophenol and Phloroglucinol to solution blend by casting method. Study of structural, Morphological, composition of elements, UV-Vis and di-electrical properties for polymer blend and with different dyes have been investigated. The UV-Vis spectra resulted at the ranges of wavelength (300–800 nm). For AC conductivity the di-electrical properties were measured which revealed increase by adding BSA-PVA-organic dyes and its unique structured, optical and electrical characters results in many applications that are characterized by interesting analysis with EDAX, XRD, UV & SEM which are further characterized to find whether binding among PVA, BSA and organic dyes.

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1. Introduction

In multi-field appliances, materials based on Composite Polymer offer vast utilisation. PVA advances scientific scope and utilization. PVA is synthesized in water solution of polyvinyl

through particles size and concentration. BSA materials are used as OFET devices [6] and when it is hosted with organic dyes and ions of metal generated amplified emissions in lasting non-linear behaviour in optical spectra and also in electrical wave guiding applications. BSA with important biological, chemical and physical

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Synthesis of Ag/Cu and Cu/Zn bimetallic nanoparticles using toddy palm: Investigations of their antitumor, antidiabetic and antibacterial activities	Ramchander Merugu Ragini Goshalwal Kanchana Lath...	December 2021	Volume 44, Part 1 Pages 99 - 105
Synthesis and characterization of Ni doped SnO ₂ nanoparticles by sol-gel method for novel applications	P. Srinivasa Subbarao Y. Aparna Kanchana Latha C...	December 2020	Volume 26, Part 2 Pages 1626 - 1680
Green Fabrication And Characterization Of In ₂ O ₃ -SnO ₂ Nanocomposite From Acacia Gum	B shanti sree Aparna Yaramma Reddy Kanchana lath...	December 2019	Volume 18, Part 7 Pages 5351 - 5355

8 publication details in Materials today proceedings

Study On Ammonia Gas Sensing Properties Of Indium Zinc Nanocomposites By Green Synthesis Method Using Mangifera Indica And Neem Gum

B Shanti Sree^a, Y. Aparna^{**}, B Srinivasa Rao^b, KanchanaLatha Chittury^c

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DOI: 10.47750/pr.2023.14.03.43

Abstract

This present paper outlines the synthesis of Indium Zinc nanocomposites using mangifera indica (IZO-1) and Neem gum (IZO-2) by Green Synthesis method. The structural properties was analyzed by X-Ray diffraction technique (XRD), as well Thermo gravimetric and differential thermal analysis (TG-DTA) was made for detecting their crystallization behavior. The results displayed polycrystalline hexagonal wurtzite phase with (002) as strong preferentially growth and more pronounced peak at (100) as well as (101) orientation. The smaller sized grains shows spherical morphology with polycrystalline in nature with SEM analysis. The optical performance indicated optical energy band gap as 3.1 and 3.18ev. The FTIR analysis shows the functional groups existent in synthesized In-ZnO NCs which displayed an intense band with sharp peaks at 3446.91, 3421.83cm⁻¹ due to O-H stretching of hydroxyl functional group respectively for IZO-1 and IZO-2. From the analysis results shows enhanced ammonia sensing performance by simple synthesis, low-cost which gives excellent performance.

Keywords: Green synthesis, Indium zinc nanocomposites, gas sensing

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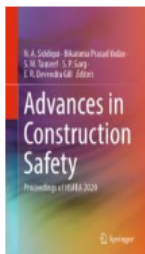
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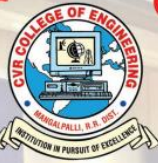


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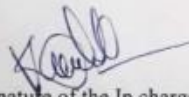
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