



GOVERNMENT DEGREE & P.G. COLLEGE, Salur

(Re-Accredited by NAAC with "B" Grade)


(College of Excellence & District Identified Degree College)

Parvathipuram(Manyam) Dist. -535591



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PRINCIPAL
GOVT. DEGREE COLLEGE
SALUR
PARVATHIPURAM MANYAM DIST.



Srinivasa Rao Gangiredla <srinivasarao.gangiredla@gmail.com>

IPR awareness program- General instructions and Details of the resource person & Format of attendance sheet attached.

1 message

RANDHIR KUMAR <randhir.ip@gmail.com>

Fri, Mar 11, 2022 at 12:48 PM

To: sivaramakrishna.darlapudi@gmail.com, Khannalcs@gmail.com, chandu.naik11@gmail.com, aminenikrankumar@gmail.com, saiquanazeer@ksngdcw.ac.in, chandrasekharJoga@gmail.com, srinivasarao.gangiredla@gmail.com, ramaiahdevarapalli@gmail.com, gdcgpm@gmail.com, leelapavani94@gmail.com, pydirajup.telugu@gmail.com

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Dear Sir/ Madam,

12	ZONE-1	Srikakulam	GDC, RAJAM
13	ZONE-1	Srikakulam	GDC, PONDURU
17	ZONE-1	Vizianagaram	GDC, SALUR
19	ZONE-1	Vizianagaram	GDC, GUMMALAXMIPURAM
22	ZONE-1	Vizianagaram	GDC, GAJAPATHINAGARAM
26	ZONE-1	Visakhapatnam	GDC, CHINTAPALLI
29	ZONE-1	Visakhapatnam	GDC, V.MADUGULA
140	ZONE-4	Kurnool	GDC, DHONE
150	ZONE-4	Anantapuramu	SYTR GDC, MADAKASIRA
152	ZONE-4	Anantapuramu	K.H. GDC, DHARMAVARAM
153	ZONE-4	Anantapuramu	KSN GDC (W), ANANTAPURAMU

With reference to the "Awareness on Intellectual Property Rights (IPR)" Webinar conducted by "Patent Office Chennai" in association with "Commissionerate of Collegiate Education:: Andhra Pradesh", the following instructions have been shared to make the program a grand success.

To impart direct knowledge on Intellectual Property Rights the colleges may encourage all the students and faculty members to attend the program by providing video/audio facilities to cater to the entire strength of the college.

We hope you have received the following Cisco Webex link for accessing the program scheduled for 15/03/2022 (Tuesday), Time:-12:00 PM-1:30 PM.

Meeting Link-

<https://chennai-patent.webex.com/chennai-patent/j.php?MTID=m148e996fc926864397d5a9f22f9385e4>

Preferable mode: Audio and Video (AV)

1. By utilizing projectors/seminar halls/auditoriums/ virtual classrooms/laboratories fitted with computers etc. to the fullest capacity, thereby arranging mass gatherings (following due to covid protocols, if any)

2. Smart TV /Android TV can also be used to access the program by connecting/paring with desktop/laptop/mobile etc.
3. Laptop/mobiles of faculty members/students may also be encouraged. For example, a group of students can share a single mobile / laptop, and similarly, faculty members can also share their mobiles with a group of students to directly access the programme.
4. Students who are not attending physical classes may also be encouraged to attend through virtual mode i.e., by accessing through mobiles /laptop/desktop/tab, etc.
5. Mass gatherings and a lot of smaller groups as mentioned above would be able to accommodate the entire strength of the college.
6. Colleges may also find other innovative ways like reaching students by arranging audio facilities/transmission to all the students of the college during the program.

Further, as we are clubbing colleges [To optimize capacity and other constraints in getting the slots, as Patent office Chennai is conducting IPR awareness programs in 5 southern states and 2 UT] proceedings of the entire session will be handled/controlled by a resource person (welcome address and vote of thanks also). However, participants are encouraged to interact, ask and clarify their doubts.

We expect kind co-operation and support from the colleges in reaching maximum strength in “planting IP (Intellectual Property) seeds” in the students and faculty members.

Please also provide the following details after the conduct of the program:

1. Attendance Sheet (as per the format attached) separate sheets for students, faculty members.
2. Photograph/Screenshots taken during the session.

Thanks & Regards

Randhir Kumar

Examiner of Patents & Designs

Intellectual Property Office, Chennai.

Govt. of India.

Contact-[7903127375](tel:7903127375)



2 attachments



Attendee_ExcelORG (2).xlsx

9K



CH Ramalinga Prasad short CV.pdf

168K



Srinivasa Rao Gangiredla <srinivasarao.gangiredla@gmail.com>

**Intellectual Property Rights (IPR) Webinar-Webex meeting invitation: Date:
15/03/2022 (Tuesday), Time:-12:00 PM-1:30 PM**

1 message

RANDHIR KUMAR <randhir.ipo@gov.in>

Mon, Mar 7, 2022 at 5:46 PM

To: srinivasarao.gangiredla@gmail.com, salur.jkc@gmail.com

Cc: V MAHALAKSHMI <nipam-chennai@gov.in>, "Varaprasad Kukatla Asst.Controller of Patents & Designs, Patent Office IPR Building, GST Road, Guindy, Chennai 32" <varaprasad.ipo@nic.in>

Dear sir/ Madam,

17	ZONE-1	Vizianagaram	GDC, SALUR
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I would like to inform you that an awareness program on Intellectual Property Rights under NIPAM has been scheduled for 15/03/2022 from Timing -12:00-1:30 PM. Please circulate the following meeting link to all students and faculty members of your institution to join the scheduled awareness program.

Meeting Link-

<https://chennai-patent.webex.com/chennai-patent/j.php?MTID=m148e996fc926864397d5a9f22f9385e4>

Thanks & Regards

Randhir Kumar

Examiner of Patents & Designs

Intellectual Property Office, Chennai.



Date: 07-12-2022

To
The Registrar,
Andhra University,
Visakhapatnam - 530 003.

Respected sir

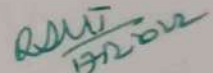
Sub: - Government Degree and PG college, salur request to access online
modecourse on IPR - Request - Regarding.

I submit that we have M.Sc organic chemistry course. We request to provide online
course of intellectual property rights (IPR). We have 20 students in second year for the academic
year 2022-23.

In this regard I request you please provide access that above said course.

Thanking you sir.

Yours faithfully,



(Dr. T. RADHA KRISHNA)

PRINCIPAL
PRINCIPAL

Govt. Degree College-Salur
Parvathipuram Manyam Dist.

Encl: LIST OF M.SC STUDENTS- (20)

Fee details: ACC HO: SBI. 39962935680

phone pay: UTR HO. 235311373683

Date: 19/12/2022.

GDE, salur, ppm,

IPR course fee - 6000/- paid.

AO - 16 students - 20 C.M.Sc. organic chemistry)

IPR REGISTRATIONS GDC SALUR M.Sc Organic Chemistry III-Semester (BATCH 2021-23)				
Sl.NO	HT NUMBER	STUDENT NAME	MOBILE NUMBER	MAIL ID
1	721248332001	AVURU BHASKARA RAO	9133586799	bhaskaravuru143@gmail.com
2	721248332002	BALAKA SYAMASUNDARARAO	7995834641	syambalaka@gmail.com
3	721248332003	BODDU RAMARAO	7993708170	ramarao54796@gmail.com
4	721248332004	BOMMINAYUNI RENUKA SATYA SAILAJA	8897537074	renukabomma1174@gmail.com
5	721248332005	CHANDAKA RAMA SWAMI	9989541511	chandakaramaswami1@gmail.com
6	721248332006	DUPPADA RAMBABU	7893453421	duppadarambabu99@gmail.com
7	721248332007	GEDDA ARUN KUMAR	7330767092	kesavagedda038@gmail.com
8	721248332008	GOTTAPU RAMYA	8106559069	sksasikiran01@gmail.com
9	721248332009	GUJJA BHANUPRASAD	8688782437	bhanuprasadguja5@gmail.com
10	721248332010	KANDI RAMBABU	9063701714	kandirambabu1234@gmail.com
11	721248332011	NADUPURU SRINU	8309200973	srinunadupuru2000@gmail.com
12	721248332012	PANCHALI YOGESWARA RAO	8978117167	pyogesar2000@gmail.com
13	721248332013	PILLA TEJESWARA RAO	6303115247	ptejeswararao99@gmail.com
14	721248332014	PORAPU RAGHUNADH	7569513116	porapuraghunadh012@gmail.com
15	721248332015	PULAPU VAMSI KRISHNA	6302835598	pulapavamsi1234@gmail.com
16	721248332016	ROUTHU KAMESWARA RAO	9581877319	routhukameswar2000@gmail.com
17	721248332017	RUNKANA VENKATARAMANA	9346743751	rvr8089rb@gmail.com
18	721248332018	TAMMINENI ISWARYA	8897060666	iswaryatammineneni56@gmail.com
19	721248332019	VASIREDDI KRISHNA MURTHY NAIDU	8096146873	krishnavasireddi22@gmail.com
20	721248332020	KOLLI.BHANUPRASAD	6281648787	bhanukolli785@gmail.com

→ C.R

→ STUDENT COORDINATOR: PANCHALI YOGESWARA RAO → MOBILE NO.

8978117167

mail Id. → pyogesar2000@gmail.com

→ COURSE COORDINATOR: A. RAMESH - MOBILE NO.

9989849494

mail Id. → ~~aramesh~~

gdesalurchem@gmail.com



GOVT.DEGREE COLLEGE –SALUR

VIZIANAGARAM DIST. A.P

You are wholeheartedly invited to

WEBINAR

On

7th International **YOGA DAY**

On 21.06.2021 (12.00PM To 1.00PM)

Resource person:

Dr.Indumani (Adyatmika guru)

Director, Raparathi Rama Yoga Chaitanya Samstha

Organised by

Department of Physical Education and Sports

Govt.Degree College-Salur

Platform: **googlemeet** : Webinar on International Yoga Day - GDC Salur

Monday, June 21 · 12:00 – 1:00pm

Google Meet joining info

Video call link: <https://meet.google.com/czc-gqts-sng>

Note :1) e- certificates will be issued to all the participants

Dr. P.Gowrisankar

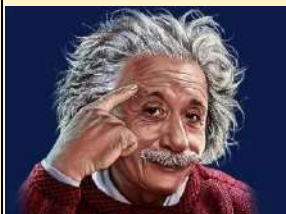
Physical Director

Dr.G.Lakshmana Rao

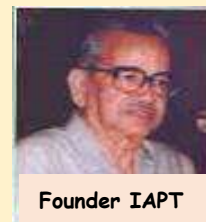
IQAC CoOrdiantor

Dr.T.Radhakrishna

Principal



Einstein's NOBEL Prize Centenary Year Celebrations (ENOPCYC 2021) and D.P Khandelwal Birth Centenary Celebrations



Founder IAPT

Organized by

FOCUS IAPT Anveshika

GOVT. Degree College - Salur, Vizianagaram, Andhra Pradesh

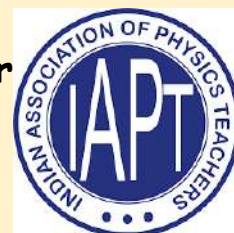
Indian Association of Physics Teachers (IAPT) RC-11

Vigyan Prasara Vipnet Club VP-AP0041 &

Andhra Pradesh Physical Science Teachers Forum (APPSTF)



Under the Guidance and Inspiration of
Padma Shri Prof. H.C Verma - NANI Coordinator



Events related to Photo-Electric effect

Lecture - Demonstrations; Research Story Telling

Building and Playing with an Electroscope

Quiz, Model Making and More...

- Interaction with participants by **Padma Shri Prof. H. C Verma**, NANI Coordinator
- Talk on PHOTOELECTRIC EFFECT by **Dr. S. Sanyasi Raju**, Rtd. Principal
- Experimental Demonstrations on PHOTOELECTRIC EFFECT by **Dr. J. Chandrasekhar Rao**
Lecturer in Physics, GDC Salur

ON LINE NATIONAL WEBINAR
Date: 29-05-2021, 5:00 pm to 7:00 pm

Organising Committee

Dr. T. Radhakrishna, Principal, GDC Salur

Prof. M. Krishnaiah, President, IAPT RC-11

Dr. J. Chandrasekhar Rao, Secretary, IAPT RC-11

Dr. G. Sahaya Baskaran, Professor of Physics, Andhra Loyola College

Mr. V. Srinivasa Rao, Member, IAPT

Mr. G. Lakshmana Rao, Member, IAPT

All Staff, Students and Physics Enthusiasts are welcome to Participate.
e-certificates, Prizes and an Opportunity to Participate in National Events, await...

email: anveshikaandhrapradesh@gmail.com

WhatsApp: 9390421450

Government Degree College, Salur - FOCUS IAPT ANVESHKA (Andhra Pradesh)

S.No.	Date of Workshop	Title of the event and Venue	No. of students participated	No. Of Teachers participated	Resource Person	About the workshop
1.	19-04-2019	Demonstration at Gurajada School, Vizianagaram	107 9 th & 10 th class students	08	Sarmistha Sahu J. Chandrasekhar Rao Shravani Kale	Explained about Probability and Simulations, Pressure, Surface Tension and Reflection
2.	28-04-2019	Workshop on Construct-o-Colloquy 3 for teaching and learning physics at M R College (A), Vizianagaram	-	24	Sarmistha Sahu J. Chandrasekhar Rao P. Chandra Rao V. Srinivasa Rao	It is completely hands on physics experiments. In this workshop our FOCUS ANVESHKA team demonstrated Making of Electric motor, function of commutator, Flemings left hand rule, pressure gradient, water fountain, Newtons third law, wind mill generator etc., Teachers did all the expts very actively.
3.	22-07-2019	Chandrayaan-2 At Govt. Degree College, Salur	139 B.Sc Students	08	i)J.Chandrasekhar Rao HOD Physics,GDC, Salur ii)P.Chantibabu Lecturer in Physics, GDC, Salur	Here we explained about motion of rocket, escape velocity, orbital velocity, use of satellites etc. Also explained about ISRO, Chandrayaan 2. We showed live telecast of launching of Chandrayaan 2.
4	07-08-2019	NAEST-19 Screening at Govt. Degree College, Salur, Vizianagaram	172 9 th ,10 th , +2, +3 Students	25	1. Dr.S.Sanyasi Raju RC-11, IAPT, National EC Member	Since our NAEST Screening contains daily life simple video clippings, all the participant students were very actively and interestingly participated in the discussion. Teachers also enjoyed a lot. After completion of prelims some students and teachers told me that "Some experiments given in the prelims seems to be in our text book, but these are very simple, low cost, available materials with most interesting and innovative. In our schools/colleges they are not conducting practicals, even though sometimes they are giving chance to do
5	07-08-2019	NAEST-19 Screening at A. P. Model School, Tamada, Srikakulam	55 9 th ,10 th , +2, +3 Students	11	2. Dr. D R K Raju Retd. Correspondant, Mansas Educational Institutions.	
6	08-08-2019	NAEST-19 Screening at R K Junior & Degree College, Vizianagaram	378 9 th ,10 th , +2, +3 Students	49	3. Dr. G J Naga Raju HOD Physics, UCEV, JNTU, Vizianagaram.	
7	08-08-2019	NAEST-19 Screening at Andhra Loyola College, Vijayawada	68 9 th ,10 th , +2, +3 Students	13		
8	08-08-2019	NAEST-19 Screening at	187	23		

		VCS & TA Hall, Kedareswara Peta, Fruit Market, Vijayawada	9 th ,10 th , +2, +3 Students		4. Dr.J.Chandrasekhar Rao, HOD Physics, GDC, Salur.	<p>experiments but those are boring and this much of interest we may not feel". Also they told that this is one of the biggest and best events they saw in our district.</p> <p>The entire activity was covered by Telugu channel 'ETV Andhra Pradesh' and they telecasted as YUVA Program on 14-08-19 by 9.30 pm. Below is the link to see https://youtu.be/mdjrtj0qCFs</p>
9	08-08-2019	NAEST-19 Screening at Sri Padmavathi Mahila University, Tirupathi	80 9 th ,10 th , +2, +3 Students	13	5. Dr. I. Sahaya Bhaskaran, HOD Physics, Andhra Loyola College, Vijayawada.	
10	08-08-2019	NAEST-19 Screening at P R Govt. Degree College, Ramachandrapuram	104 9 th ,10 th , +2, +3 Students	15	6. Prof. M. Krishnaiah, RC-11, President	
11	08-08-2019	NAEST-19 Screening at A. P. Model School, Edullavalasa Srikakulam	115 9 th ,10 th , +2, +3 Students	14	Teachers	
12	08-08-2019	NAEST-19 Screening at Sri GCSR College, GMR Nagar, Rajam, Srikakulam	130 9 th ,10 th , +2, +3 Students	18	7. V. Srinivasa Rao 8. G. Durga Prasad 9. U. Lakshmana Suri 10.K. SrikrishnaSai 11.G. M. Murali Krishna 12. P. Chandra rao 13.P. Chanti Babu	
13	12-08-2019	NAEST-19 Prelims at R K Junior & Degree College, Vizianagaram	126 B.Sc 2 nd Year Students	14		
14	17-08-2019	Workshop on Innovative Experiments in Optics at Rajalakshmi Engg. College, Chennai	326 Biomedical Engineering students	10 Faculty members	1. Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur. 2. Dr. Kalpana, Dean, REC, Chennai	This workshop aims to explore the nature of light with a series of activities at the elementary level to the undergraduate students. I demonstrated all the properties of light from rectilinear propagation of light to polarisation. At the end of session participants conceive the principle behind the application of optics in medicine.
15	19-08-2019	Workshop on Innovative Experiments in Physics at Govt. Junior College, Madhuravada, Visakhapatnam.	46 Intermediate Students	6	1. Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur. 2. Sri. K. Sri Hari Principal, GJC, Madhurawada, VSP.	Especially these students came from backward area studying in Govt. Jr. College. Here I Demonstrated discussed and interacted with the students about the concepts given in the text book of +1 and +2 level.

16	30-09-2019	Workshop on Innovative Experiments in OPTICS at Sri Venkateswara Kalamandir, Parvathipuram, Vizianagaram	526 2 nd B.Sc Students	18	1. Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur. 2. Sri. K. Chandra Mouli, Lect. In Physics. 3. Sri. M. Sastri, Lect. In Physics.	This workshop is only for B.Sc 2 nd Year students those have Optics in their 3 rd semester syllabus. With the request of Parvathipuram division Physics lecturers, I demonstrated Optics experiments in Venkateswara kalamandir (Theatre). Here one educator who loves science provided all the facilities including theatre. 8.00am to 11.00 am we conducted this program. Since this area is SC, ST Constituency, all the students very enthusiastically participated and enjoyed a lot. When I interact with these students I saw happiness and glow from these students, this is really one of the best experiences for me.
17	22-12-2019	Solar Eclipse (Eclipses and Myths) at Municipal High School, Kaspa	63	21	Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur.	While I am discussing with our students about the Solar Eclipse, which is forming on 26 th December 2019, maximum number of students arised more doubts such as 1) Don't go outside during the Eclipse, 2) Don't cook and don't eat any food during the Eclipse, 3) Put grass pieces in milk and food material, 3) If pregnant women go outside during eclipse their child to be born with various deformities such as blindness, cleft lips, birth marks, women are told to lie straight in bed, 4) They do not do their daily activities as usual during Eclipse, 5) Wooden pestle placed in brass bowl with turmeric water or milk then only it stands in straight during Eclipse, after Eclipse automatically it will fall down, etc., To clarify all the doubts we explained the formation of Eclipses and its effects scientifically through ppt in various institutions and also told the do's and don'ts
18	23-12-2019	Solar Eclipse (Eclipses and Myths) at GDC-Salur	44	6	Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur.	
19	24-12-2019	Solar Eclipse (Eclipses and Myths) at Vasavi Jr. College, Bobbili	40	9	Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur.	
20	26-12-2019	Solar Eclipse Observation at GDC Salur	26	4	1.Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur. 2.P.Chantibabu, Lecturer in Physics, GDC Salur	

						<p>of viewing the Eclipse. Also we watched Solar Eclipse at open field of Govt. Degree College, Salur on 26th December 2019 and took some photos with solar filters and with No. 12 solar glass plate. Especially we observed wooden pestle placed in brass bowl and ordinary bowl with water, without water, with turmeric water, with milk, before eclipse, during eclipse and after eclipse. From this finally students conclude that these are all superstitions only.</p> <p>Our students took photos using solar filters during solar eclipse in different times at Vizianagaram District and the edited final photo is as shown.</p>
21	08-02-2020	Content Enrichment Program for high school teachers at Premasamajam, Phool Bhaugh, Vizianagaram	-	98	Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur.	In our Andhra Pradesh one of the biggest Physical Science forum known as Andhra Pradesh Physical Science Teachers Forum (APPSTF) conducted Content Enrichment Program (CEP) for Physical Science Teachers working in Government and Zilla Parishad High Schools at Vzm district and Sklm district separately as well as conducted Proficiency Advancement Test for 10 th class students simultaneously. In the morning session students were writing the test and teachers participated in CEP. We demonstrated Snell's law derivation, Rectilinear propagation of light, Refraction of light when light incidents normally, using of sine conventions in the derivation of Lens makers formula and also in solving problems, Lateral shift, Real depth - Apparent depth and relation between them, Finding refractive index of glass and water, Total internal reflection, Physical
22	23-02-2020	SIKKOLU SRUJANOTSAVAM – Content Enrichment Program for high school teachers at Govt. College for women, Srikakulam	150	173	Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur.	

					phenomenon involved in Rainbow formation, Spectrum and visible region etc. In the afternoon session teachers evaluated question papers and students participated in our demonstration program. Here we showed simple physics experiments like upthrust force, centre of mass, centre of gravity, Newton's 3 rd law using magnets, Pascal's law, Bernoulli's principle, creating resonance using transparent pipe, wave motion using spring etc.
23	27-02-2020	National Science Day Celebrations-2020 at Govt. Degree College, Salur	200	21	<p>In the memory of Sir C V Raman, we celebrated National Science Day at our college. The main theme of our program is WOMEN IN SCIENCE. For this we conducted essay writing, elocution and working models competitions to degree college students studying in our Salur mandal. In the morning session, our college Principal Dr. T Radhakrishna garlanded C V Raman's photo which was drawn by B. Sc final year student Mr. B. Karuna. Our principal, in his first words said that every student must learn each concept by learning by doing method. He asked the students to think innovatively and do scientifically as our college is providing all the facilities; you should improve your scientific attitude and serve to the society. Sri P. Chanti Babu delivered Life Story of Sir C V Raman through ppt. Mr. P. Raja final year student explained about role of women in development of science through ppt.</p> <p>1.Dr. J. Chandrasekhar Rao, HOD Physics, GDC, Salur. 2.P.Chantibabu, Lecturer in Physics, GDC Salur</p>

						Students presented their working models like 1) drone, 2) formation of rainbow, 3) grass cutter, 4) wave motion, 5) hydraulic bridge, 6) hydraulic machine, 7) water clock, 8) solar smoke absorber, 9) walking robot, 10) wind energy, 11) water alarm, 12) homemade projector etc. In the afternoon session we demonstrated some experiments in mechanics, waves and oscillations, optics, solar energy and wind energy. In the valedictory function we gave the prizes to winners and also felicitated women science lecturers working in our college.
		TOTAL	2,559	269		

I am here with enclosing photos of each event. Kindly see the attachment.

Thanking you sir,

Yours Sincerely,

Dr. J. Chandrasekhar Rao,

Coordinator,

FOCUS IAPT ANVESHKA.

1. Demonstration at Gurajada School, Vizianagaram on 19-04-19



2. Workshop on Construct-o-Colloquy 3 for teaching and learning physics at M R College (A), Vizianagaram on 28-04-2019



3. Chandrayaan-2 at Govt. Degree College, Salur, Vizianagaram on 22-07-2019



4. NAEST-19 Screening at Govt. Degree College, Salur, Vizianagaram on 07-08-2019.



6. NAEST-19 Screening at R K Junior & Degree College, Vizianagaram on 08-08-2019



7. NAEST-19 Screening at Andhra Loyola College, Vijayawada & at Sri GCSR College, GMR Nagar, Rajam, Srikakulam



8. NAEST-19 Screening at P R Govt. Degree College, Ramachandrapuram



9. NAEST-19 Screening at VCS & TA Hall, Kedareshwara Peta, Fruit Market, Vijayawada



9. NAEST-19 Prelims at R K Junior & Degree College, Vizianagaram

Venue: R K Jr. & Degree College, Vizianagaram, AP.

Title of the programme: National Anveshika Experimental Skill Test 2019 – State Level Prelims.

Participants: 21 students from juniors and 15 students from seniors, 20 teachers and 12 evaluators.

Resource Persons: Dr. S. Sanyasi Raju, National EC Member, RC 11, AP.

Dr. D R K Raju, Ex. Correspondent, Mansas Educational Institutions, Vizianagaram.

Dr. J. Chandrasekhar Rao, HOD Physics, Govt. Degree College - Salur, Vizianagaram.

Programme Details: In this state level prelim, selected students from regional level were attended. We have given 3 experiments such as refractive Index of material of the prism; internal resistance of the cell; Young's modulus by non uniform bending to the juniors and for seniors another 3 experiments like Oscillation patterns of a pendulum; To Measure wavelengths of light from a CFL; Finding the speed of sound in an air



Experiments being performed by juniors



Experiments being performed by seniors

column were given. For all these 6 experiments we have given write ups and related material to the students. Each student can perform 3 experiments from each level. Our evaluators observe students performance while doing the experiments. Depending on their experimental skills, taking of readings, minimization of errors, plotting graphs, result analysis, our evaluators observes, discussed with the students positively and selected 1 from juniors and 1 from seniors to the national level NAEST-2019 which will be conducted at Kanpur. Here students participated very interestingly, enthusiastically and they enjoyed a lot while performing the experiments. We have given cash awards and certificates to the winners. The entire activity was covered by Telugu channel 'ETV' and they telecasted as YUVA Program on 14-08-19 by 9.30 pm.



NAEST-2019 Andhra Pradesh state level winners with delegates.



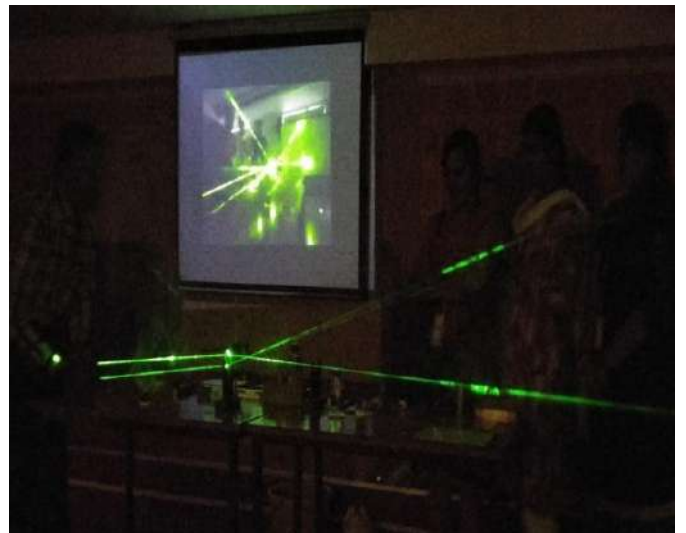
10. Venue: Rajalakshmi Engineering College, Thandalam, Chennai.

Title of the programme: Workshop on 'Innovative Experiments in OPTICS'

Participants: 326 Biomedical Engineering students and 10 faculty members

Resource person: Dr. J. Chandrasekhar Rao, Secretary, RC-11, IAPT, Andhra Pradesh.

Programme details: Optics has, since ancient times, being used as aid for the examination of human patients and in some therapeutic treatments. Learn some fun and interesting things about optics in this workshop. This workshop aims to explore the nature of light with a series of activities at the elementary level to the undergraduate students. I demonstrated all the properties of light by showing the experiments such as rectilinear propagation of light, reflection, laws of reflection, refraction, laws of refraction, snell's law, finding the refractive index of water, denser medium and rarer medium, types of lenses and mirrors, real and virtual images, total internal reflection, chromatic aberration, interference, diffraction due to single slit and double slit, polarization and angle of rotation of sugar solution. Dean and Prof. of Biomedical Engineering department Dr. Kalpana motivate the students. She told to the students that 'if we know the



refractive index of different tissues it will help in the treatment. So think innovatively and find simple smart innovative instruments in the treatment'. Winners of Smart Hackathon STUPENDOUS SIX team and The_TACHYONS team of this college interacted with participants and share their experience and knowledge. At the end of session participants conceive the principle behind the application of optics in medicine.



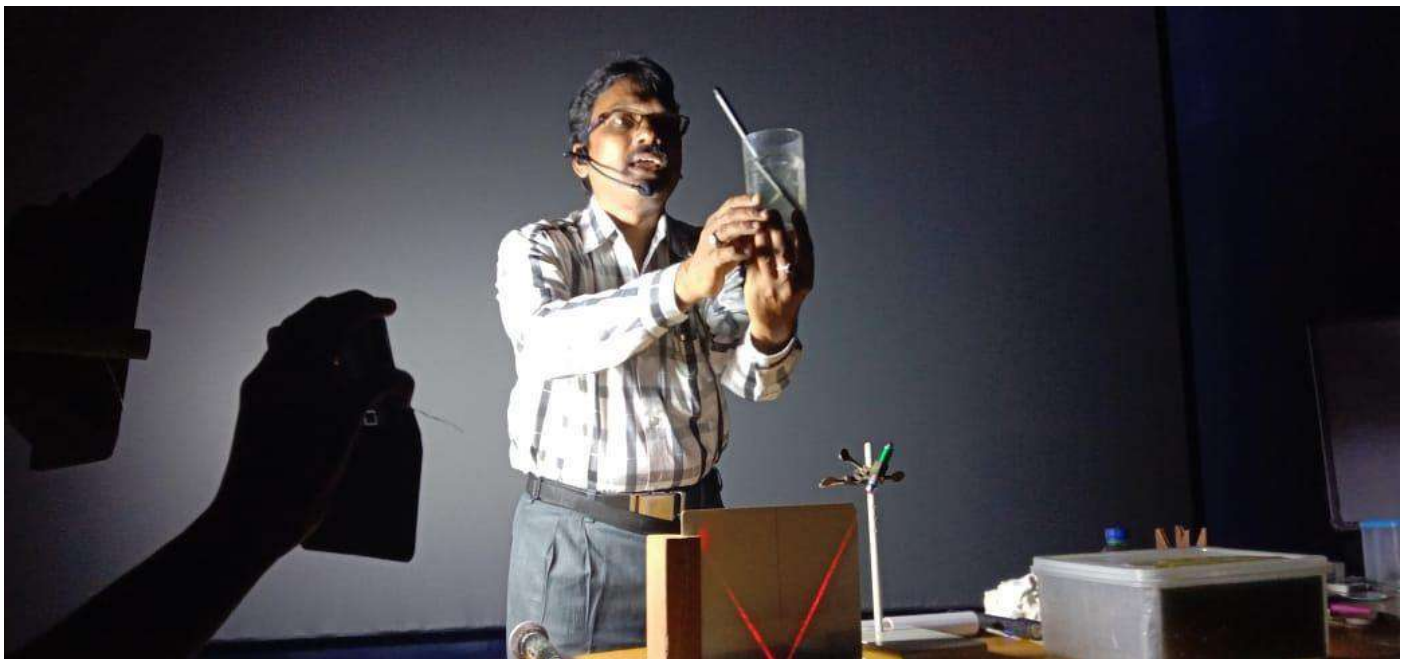


11. Workshop on Innovative Experiments in Physics at Govt. Junior College, Madhuravada, Visakhapatnam.



12. Workshop on Innovative Experiments in OPTICS at Sri Venkateswara Kalamandir, Parvathipuram, Vizianagaram on 30-09-2019.





ప్రయోజనం చేకూర్చిన ప్రయోగం

- ఇన్నోవేటివ్ ఎక్స్ పెరిమెంట్స్ ఇన్ ఫిజిక్స్ కు విశేష స్పందన
- కాంతి ధర్మాలపై ప్రయోగత్మక విశ్లేషణ
- ప్రయోగాలతో సమాధానాలు రాబట్టిన విద్యార్థులు

పార్వతీపురం: పార్వతీపురంలోని వేంకటేశ్వర కళామందిర్ లో సైన్స్ విద్యార్థులకు భౌతిక శాస్త్ర అంశాలపై సోమవారం నిర్వహించిన ప్రయోగాత్మక విద్యాబోధన ప్రయోజనం కల్పించింది. గాయత్రీ డిగ్రీ, పీజీ కళాశాల, ఇండియన్ అసోసియేషన్ ఆఫ్ ఫిజిక్స్ టీచర్స్, ఫోకస్ అన్వేషికా ప్రభుత్వ డిగ్రీ కళాశాల (సాలూరు) సంయుక్త ఆధ్వర్యంలో ఇన్నోవేటివ్ ఎక్స్ పెరిమెంట్స్ ఇన్ ఫిజిక్స్ వర్క్ షాపు సాగింది. దీనికి ముఖ్య అతిథిగా రిసోర్స్ పర్సన్ డా.జోగ చంద్ర శేఖర్ రావు హాజరయ్యారు. భౌతికశాస్త్రంలోని క్లిష్టమైన అంశాలను సులభంగా అర్థంచేసుకునే విధానాలను ప్రయోగపూర్వకంగా వివరించారు. కాంతి ధర్మాలైన కాంతి రుజువర్తనం, వివర్తనం, పరావర్తనం, వక్రీభవనము, సంపూర్ణాంతర పరావర్తనము, నిజ ప్రతిబింబం, వ్యతికరణం, మిద్య ప్రతిబింబం, ధృవణం, కటకాలు, దర్పణాలు తదితరవి అభిసారి, అపసారి కటకాలుగా ఎలా పనిచేస్తాయన్న అంశాలను లేజర్ కిరణాలు, ఫిజిమెంట్ బల్బులతో ప్రయోగాలు చేసి చూపించారు. విద్యార్థులు కేవలం పాఠ్యాంశా



ప్రయోగశాలకు హాజరైన వివిధ పాఠశాలల విద్యార్థులు, కాంతి తరంగాలకు సంబంధించి వివిధ రకాల ప్రయోగాలు చేస్తున్న డాక్టర్ జోగ చంద్రశేఖరరావు

లకే పరిమితం కాకుండా ప్రతీ విషయాన్ని విస్తృతంగా ఆలోచించి శాస్త్రీయబద్ధంగా సమాధానం రాబట్టాలని కోరారు. ఉపాధ్యాయులు కూడా చూపించు.. తర్వాత నేర్పించు అను నినాదంతో ముందుకు సాగాలని సూచించారు. వర్క్ షాపులో వివిధ కళాశాలల నుంచి 528 మంది విద్యార్థులు, 18 మంది ఉపాధ్యాయులు పాల్గొన్నారు. కార్యక్రమాన్ని గాయత్రీ కళాశాల కరస్పాండెంట్ పీవీకే మణికుమార్ ఆధ్వర్యంలో భౌతిక శాస్త్ర విభాగం నుంచి బి.చంద్రమౌళి, పీవీ రాజ్యలక్ష్మి, ఎంతర్ఎస్ శాస్త్రి, బి.అన్వేష్, ఎం.చంద్రశేఖర్, జి. శివన్నాయుడు, కంప్యూటర్ విభాగం నుంచి పి.వంశీకృష్ణ నిర్వహించారు.

సైన్స్ పై ఆసక్తి పెరిగింది

ప్రయోగాత్మక విద్యతో భౌతిక శాస్త్రంపై ఆసక్తి పెరిగింది. తరగతి గదిలో అధ్యాపకుడు బోధించే సమయంలో అర్థమయ్యే దానికంటే నేరుగా



ప్రయోగాలు చేయడం ద్వారా బాగా అర్థమవుతోంది. కాంతి తరంగాలకు సంబంధించిన ప్రయోగాలు కళ్లకుకట్టాయి.

- ఎన్.సాహితీ, వానవీ డిగ్రీ కళాశాల, పార్వతీపురం

FOCUS –IAPT Anveshika & RC-11 Activities
Govt. Degree College, Salur, Vizianagaram Dist. Andhra Pradesh.

Activity 1: On 22-12-2019 at Municipal High School, Kaspā (63 Students 21 Teachers)

On 23-12-2019 at GDC-Salur (44 Degree Students and 6 Teachers)

On 24-12-2019 at Vasavi Jr. College, Bobbili (40 Students and 9 Teachers)

On 26th December 2019 at Govt. Degree College, Salur, Vizianagaram(26 Students)

Title of the programme: Solar Eclipse (Eclipses and Myths)

Catalyzed and supported by: IAPT RC 11 & National Anveshika Network of India (NANI)

Resource Persons: Dr. Joga. Chandrasekhar Rao, HOD Physics, GDC Salur, Vizianagaram.

Programme Details: While I am discussing with our students about the Solar Eclipse, which is forming on 26th December 2019, maximum number of students arised more doubts such as 1) Don't go outside during the Eclipse, 2) Don't cook and don't eat any food during the Eclipse, 3) Put grass pieces in milk and food material, 3) If pregnant women go outside during eclipse their child to be born with various deformities such as blindness, cleft lips, birth marks, women are told to lie straight in bed, 4) They do not do their daily activities as usual during Eclipse, 5) Wooden pestle placed in brass bowl with turmeric water or milk then only it stands in straight during Eclipse, after Eclipse automatically it will fall down, etc., To clarify all

the doubts we explained the formation of Eclipses and its effects scientifically through ppt in various institutions and also told the do's and don'ts of viewing the Eclipse. Also we watched Solar Eclipse at open field of Govt. Degree College, Salur on 26th December 2019 and took some photos with solar filters and with No. 12 solar glass plate. Especially we observed wooden pestle placed in brass bowl and ordinary bowl with water, without water, with turmeric water, with milk, before eclipse, during eclipse and after eclipse. From this finally students

conclude that these are all superstitions only.

Our students took photos using solar filters during solar eclipse in different times at Vizianagaram District and the edited final photo is as shown.



Activity 2: Feb 8th 2020 at Premasamajam, Phool Bhaugh, Vizianagaram (Vzm) Dist.

Feb 23rd 2020 at Govt. College for women, Srikakulam (Skml) Dist.

Title of the programme: SIKKOLU SRUJANOTSAVAM – Content Enrichment Program

Participants: 98 Teachers from VZM Dist. & 150 Students + 173 Teachers from SKLM Dist.

In collaboration with: Andhra Pradesh Physical Science Teachers Forum (APPSTF)

Catalyzed and supported by: IAPT RC 11 & National Anveshika Network of India (NANI)

Resource Persons: Dr. Joga Chandrasekhar Rao, HOD Physics, GDC, Salur, Vzm.

Sri. K. Hara Gopal, J L in Physics, Govt. Jr. College, Rajam, Sklm.

Program details: In our Andhra Pradesh one of the biggest Physical Science forum known as Andhra Pradesh Physical Science Teachers Forum (APPSTF) conducted Content Enrichment Program (CEP) for Physical Science Teachers working in Government and Zilla Parishad High Schools at Vzm district and Sklm district separately as well as conducted Proficiency Advancement Test for 10th class students simultaneously. In the morning session students were writing the test and teachers participated in CEP. We demonstrated Snell's law derivation, Rectilinear propagation of light, Refraction of light when light incidents normally, using of sine conventions in the derivation of Lens makers formula and also in solving problems, Lateral shift, Real depth - Apparent depth and relation between them, Finding refractive index of glass and water, Total internal reflection, Physical phenomenon involved in Rainbow formation, Spectrum and visible region etc. In the afternoon session teachers evaluated question papers and students participated in our demonstration program. Here we showed simple physics experiments like upthrust force, centre of mass, centre of gravity, Newton's 3rd law using magnets, Pascal's law, Bernoulli's principle, creating resonance using transparent pipe, wave motion using spring etc. After evaluation we gave the prizes. In this program Smt. G. Naga Mani, DEO, Dr. B. Narendra, Vizianagaram, Smt. K. Chandrakala, DEO, Sri. A.Prabhakar Rao, Ex. DEO, Srikakulam, Sri. Sai Srinivasa Sharma, State Hon'ble president, Dy. DEO'S, Science Officers, MEO's, HM's participated.



Content Enrichment Program at Govt. Degree College for Women, Sklm Dist for High School PS Teachers





Content Enrichment Program at Premasamajam, Vzm Dist for High School PS Teachers

Activity 3: Feb 27th 2020

Venue: Govt. Degree College, Salur, Vizianagaram Dist.

Title of the programme: National Science Day Celebrations-2020

Participants: 200 B. Sc Students and 21 Lecturers.

Catalyzed and supported by: IAPT RC 11 & National Anveshika Network of India (NANI)

Resource Persons: Dr. Joga Chandrasekhar Rao, HOD Physics, GDC, Salur, Vzm.

Sri. P. Chanti Babu, Lecturer in Physics, GDC, Salur, Vzm.

Program details: In the memory of Sir C V Raman, we celebrated National Science Day at our college. The main theme of our program is WOMEN IN SCIENCE. For this we conducted essay writing, elocution and working models competitions to degree college students studying in our Salur mandal. In the morning session, our college Principal Dr. T Radhakrishna garlanded C V Raman's photo which was drawn by B. Sc final year student Mr. B. Karuna. Our principal, in his first words said that every student must learn each concept by learning by doing method. He asked the students to think innovatively and do scientifically as our college is providing all the facilities; you should improve your scientific attitude and serve to the society. Sri P. Chanti Babu delivered Life Story of Sir C V Raman through ppt. Mr. P. Raja final year student explained about role of women in development of science through ppt. Students presented their working models like 1) drone, 2) formation of rainbow, 3) grass cutter, 4) wave motion, 5) hydraulic bridge, 6) hydraulic machine, 7) water clock, 8) solar smoke absorber, 9) walking robot, 10) wind energy, 11) water alarm, 12) homemade projector etc. In the afternoon session we demonstrated some experiments in mechanics, waves and oscillations, optics, solar energy and wind energy. In the valedictory function we gave the prizes to winners and also felicitated women science lecturers working in our college.





National Science Day Celebrations at Govt. Degree College – Salur, Vizianagaram Dist.

Thank you, sir, for publishing our RC 11 activities without missing. I am grateful to you for your kind cooperation and encouragement.

Thanking you sir.

Dr. J. Chandrasekhar Rao,

Secretary, RC – 11,

Andhra Pradesh.

3.2.2 Number of workshops/seminars/conferences including programs conducted Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the I

Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To
2019	Workshop on Construct-o-Colloquy 3 for teaching and learning physics	107	28-04-2019
2019	Workshop on Innovative Experiments in OPTICS	63	22-12-2019
2021	International Yoga day	200	21-06-2021
2021	Photo-Electric effect	70	29 -05- 2021
2022	IPR awareness program	90	03-11-2022



on Research
last five years

Link to the Activity report on the website