DEPARTMENT OF PHYSICS

e-mail ID: physicskgc2018@gmail.com

BRIEF HISTORY OF THE DEPARTMENT:

The Department of Physics in the present Kakatiya Government College has originated from the private sector college called "Kakatiya Science College". This was taken over by the Government of A.P., Medical and Health Department w.e.f. 01-02-1977, (G.O.Ms NO: 54 M & H, dated 18-01-1977). The new college was renamed as "Kakatiya Degree College" (Science). The KGC was finally taken over by the Government of A.P. Educational Department w.e.f. 01-04-1978 (GO MS NO.: 804 Edn.,dated 02-08-1978). On the day of 21-05-1982, the present "Kakatiya Government College" was formed.

The Department of Physics and its laboratories were operated in the nursing hospital building adjacent to Church opposite to Maternity Hospital, Hanamkonda, and it was shifted to the present premises in the year 1978.

ABOUT THE DEPARTMENT

The Department maintains a tradition of excellence in teaching at both undergraduate and postgraduate levels. Faculty of the department participate in research in the active and exciting areas of physics. The Physics Department is committed to continuous improvement in the quality of education by enhancement of the knowledge of students and staff members. The Physics Department has highly qualified staff & is well equipped with laboratories. The department presents a unique opportunity to study the exciting field with the guidance of well-qualified teachers.

VISION AND MISSION

Vision:

Popularize the subject among the students

Mission

Lay strong foundation of the subject in the students leading to further higher studies and research

- Simplification of the subject by the faculty in the form of simplified notes and easy to understand lectures.
- Conducting programmes like Physics stage shows/ certificate courses and symposia, giving clarity of Physics phenomena
- Inculcating interest in the subject among the students by involving them in research activities.

FACILITIES

- > The department has a separate Departmental Library with 150 reference and text books.
- > The department has 2 computers with internet facility.

Programme Outcomes:

Students of Physical Science are expect to

- > Inculcate scientific thinking and awareness.
- > Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena of Physics.
- > Acquire the skills in handling scientific instruments in the laboratory, and planning and performing experiments in a proper manner.
- > Explain the basic scientific principles and methods.
- > Analyze the applications of mathematics to the problems in physics and interpret the mathematical results.

Course outcomes:

- By the end of first year the student should learn a thorough understanding of mechanics and waves and oscillations.
- By the end of second year the students will have understanding of thermodynamics and optics
- By the end of the third year the students should acquire thorough knowledge of electromagnetism and modern physics
- By the end of the course a firm foundation in the subject is laid for further higher studies and research.

Laboratory Facilities

The college has a well-equipped and spacious laboratory, which can accommodate handsome number of Students comfortably.

The Department of Physics actively promotes the ethical principles in scientific research, critical thinking, and openness to social, scientific, technological and educational changes.

NAMES OF THE PROGRAMMES/ COURSES OFFERED (AT PRESENT)

The Physics department offers the following UG and PG courses.

1. Mathematics-Physics-Chemistry		EM
2 .Mathematics -Physics-Computer Science		EM
2 M Ω_{-} (D1)	J!	

3. M.Sc. (Physics) with specialization in Solid State Physics - EM

ANNUAL PROGRAMMES/ COURSES (Year Wise) Up to 2015-16

1.	Mathema	ntics	-Phy	vsics	s-Che	mistry		-	EM
2	3.6.1		DI		01	• ,			

- 2. Mathematics -Physics-Chemistry---TM3. Mathematics -Physics-Computer Science---EM
- 4. Mathematics -Physics-Computer Science
 -- TM
- M Ge (Diseries) swith susciplication in Galid State Diseries EN.
- 5. M.Sc. (Physics) with specialization in Solid State Physics --- EM

C.B.C.S. PROGRAMMES : COURSES (Semester Wise) from 2016-17 Up to 2017-18

- 1. Mathematics -Physics-Chemistry---EM2. Mathematics -Physics-Chemistry---TM
- 3. Mathematics -Physics-Computer Science --- EM
- 4. Mathematics -Physics-Computer Science --- TM
- 5. M.Sc. (Physics) with specialization in Solid State Physics --- EM

Kakatiya Government College. Hanamkonda Department of Physics

MSC Physics (PG) Students Progression Report: 2013-2018

S.No.	Name of the M.Sc.Student	Year of Study	Outgoing Year	Hall Ticket No.	Contact Mobile No.	UGC-CSIR NET/ TS SET/ GATE Qualificatiion	Present Engagement	Nature of Engagement	Topics of Ph.D./Research Project	
1	K.Ramya	2013-15	2015		9059384126	GATE 2016 (PH16S22139054) AIR: 2320	Asst.Prof of Physics, TSSWRDC Mulugu	Contractual		
2	Sreematha	2014-16	2016	15006S0421	6309763634		Asst.Prof of Physics, Telangana Uiversity, Nizamabad, Telangana	Contractual	Nonometorial	
2	Sreematha	2014-10	2016	1500650421	0309703034		Pursuing Ph.D. with Chaithanya Institute of Technology and Science, Hanamkonda	Part Time	— Nanomaterial	
3	Myrunneesa	2014-16	2016	15006S0417	6303087539		Completed Research Project, at HCU	Regular	Magnetic	
-	Begum						Currently doing B.Ed.(Phy.Sci)		Materials	
4	K.Mounika	2015-17	2017	16006S0418	8978697796	UGC-CSIR NET June 2018				
5	M.Kiran Kumar	2015-17	2017	16006S0402	8500385152	SET-2018	Lecturer In Physics, TSWRS khamamm	Contractual		
6	S.Raghava	2015-17	2017	16006S0401	8121131471	SET-2018	Private School Teacher			
						HCU-PhD 2018 HCU-PhD 2019 PCU-PhD-2019	Pursuing Ph.D. with Nanogenerator Harvesting			
7	7 P.Supraja 2	P.Supraja		P.Supraja 2016-18 20	JEST-2019 AIR: 656	Energy NIT Warangal Regular				
						GATE-2019 AIR: 1452				

Name in Full	: M MASOOD A	HMED MAHMOODI	
Designation	: ASSISSTANT F	PROFESSOR OF PHYSICS	
Father's name	: M JAMEEL AH	MED MAHMOODI	M2. 122
Mother's name	: KALEEM ANW	ARI	
Date of Birth	: 02-05-1972		
Qualifications	: M.Sc. (PHYSIC	S), SET	
Teaching Experience	: 6 YEARS		
Published: Single/ Joint	: ONE (JOINT), I	JSET, VOLUME 6, No 1, 201	7, 326-331
Training Programmes Attende	d : Refresher Co	urse :01, WORKSHOP :03	
Confidential Services to Govt.	Bodies : VERIFIC	ATION OFFICER, KU.	
	TRANSL	ATOR, PHYSICS PAPERS, 1	MAY 2019, TU.
E-mail: mas7864u@gm	nail.com	Contact No. : 9440584730	
Member on		Dept.of Physics, Kakatiya uni	
	2. BoS Membe	er, Dept.of Physics, GDC Sidd	ipet
Academic Council for evaluat	ion: Chief examiner	r	
Residential Address: 13-8-112	, SHAIRPURA ST	REET, WARANGAL (U), TS,	506002

Name in Full	: SREENIVAS BOO	RGU	
Designation	: ASSISSTANT PRO	FESSOR OF PHYSICS	
Father's name	: MUTHAIAH		1 -
Mother's name	: SAVITHRI		8
Date of Birth	: 15 th December, 1982	2	
Qualifications	: M.Sc,B.Ed, NET (P	h.D.)	
Teaching Experience	: 6 YEARS		No.
Training Programmes Attended	: RC-1 at KU Wgl	.,OC – 1 at OU Hyd.	
E-mail : srinuburugu@g	mail.com Co	ontact No. : 9492309885	
Member on LIFE MEMBE	R OF IAPT		
Academic Council for evaluati	on: Chief examiner		
Residential Address: H.No 2-1	0-749, SBH Colony, H	Ianamkonda.	

NT 1 TO 11	BAULBAND	- DI	
Name in Full	: RAJU BANDA	ARI	
Designation	: ASSISSTANT	PROFESSOR OF PHYSICS	
Father's name	: RAJARAM		100-00
Mother's name	: LAKSHMI		25
Date of Birth	: 02.07.0977		
Qualifications	: M.Sc. (PHYSIC	CS), SET	
Teaching Experience	: 6 YEARS		
Books Published	: 1.EAMCET – P	RASHNALA NIDHI(Telugu M	Iedium) Question
	Bank(Telugu aka	ademy) – ISBN :818180262	
	1.B.Sc.,Third Ye	ear Physics Electromagnetism	(Telugu akademy)
	ISBN : 978-81	-8180-512-6	
Training Programmes Attend	ded : $RC - 1$ at MA	NUU HYD., OC-1 at JNTU HYD	
Confidential Services to Go	vt. Bodies :		
E-mail: rajubandaris@ho	tmail.com	Contact No. : 9491821252	
Member on LIFE MEN	ABER OF IAPT		
Academic Council for evalu	ation: Chief examine	er	
Residential Address: Pasra.,	Mandal: Govindarad	Pet., Dist: Mulug - 506347	

Name in Full	: Dr. KETHIRE	DDY NARENDAR					
Designation	: ASSISSTANT	PROFESSOR OF PHYSICS					
Father's name	: K SRINIVAS F	REDDY					
Mother's name	: K ANASUYA						
Date of Birth	: 05.04.1974		C PARA AL				
Qualifications	: M.Sc., B.Ed, Pl	n.D.					
Teaching Experience	: 4 years						
Published: Single/ Joint	: 18						
Abstracts in Conf/Seminar Pr	roceedings Publishe	ed : 03					
Presented : National / Interna	tional : 04						
Training Programmes Attend	ed : $RC - 1$ at KU.,	INDUCTION TRAINING PROG	RAM AT NIT				
	WARANGAL						
Confidential Services to Gov	t. Bodies : Paper Se	etting					
E-mail : kethireddynaren	@gmail.com	Contact No. : 9393662344					
Academic Council for evalua	tion: Chief examine	er					
Residential Address: HNO. 1-8-477/1, FLAT NO.501A, SRI SAI PRAKASH APPARTMENTS,							
BALAS	BALASAMUDRAM, HANAMKONDA						

Name in Full	: SURASI KIRA	AN	
Designation	: ASSISSTANT	PROFESSOR OF PHYSICS	
Father's name	: SARAIAH		90
Mother's name	: YASHODA		A A
Date of Birth	: 25.10.1980		
Qualifications	: M.Sc. (PHYSIC	CS), SET	
Teaching Experience	: I years		
Research Papers Published:	Single: 01		
E-mail: surasi.kiran@	@gmail.com	Contact No. : 9849135431	
Residential Address: H.No.3	- 7- 195/1, Gudibano	dal, Hanamkonda, WGL (U), 50	06001

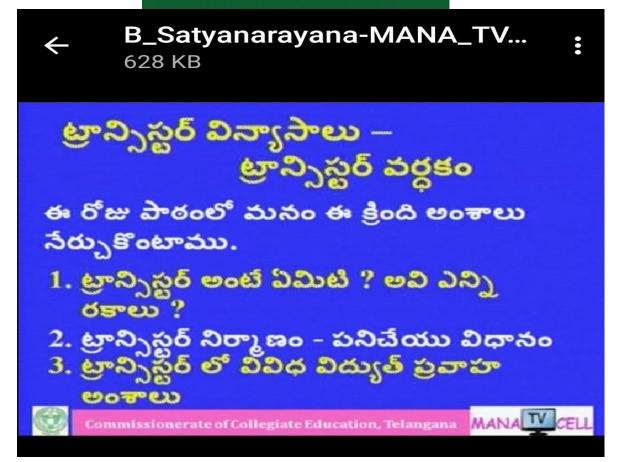
Details of e --content

S. No	Name of the Lecturer	РРТ	Lectures uploaded on YouTube
1	M. Masood Ahmed Mahamoodi	15	05
2	B. Raju	25	26
3	B. Sreenivas	21	25
4	Dr. K. Narendar	25	09
5	B.Satyanarayana	21	05

MANA TV – LIVE LECTURES BY B.SATYANARAYANA



Kakatiya Govt. College, Hanmakonda, Warangal Dist.



S. No.	Торіс	Telecast on (Date)
1	Transistor- Configurations - Amplifiers	06.01.2015
2	Raman Effect	28.01.2015

CERTIFICATE COURSES:

Year -1 (2016-17)							
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	
Certificate course in Fundamentals in Electric House Wiring	PHY -EHW	2017 07.04.2017	1	3 weeks	66	66	
		Y	ear 2 (2017-18)				
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	
Certificate Course in preparation of electric and electronic circuits	РНҮ-СКТЅ	2017	1	3 weeks	72	72	
		Y	ear 3 (2018-19)				
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	
CERTIFICATE COURSE in Problem solving Techniques	PHY-PST	2019	1	30 days	74	74	
		Y	ear 4 (2019-20)				
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering Date of Start	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	
Certificate course in Basic Experimental techniques in Physics	PHY-BET	2019 05.08.2019	1	30 days	120	120	
Certificate course on Domestic Electric appliances	PHY- DEA	2019 11.10.2019	1	30 days	110	110	
Recent Developments in Nanotechnology	PHY-NANO	2019 12.09.2019	1	30 days	164	164	
Awareness on renewable energy sources	PHY-RES	2020 28.01.2020	1	30 days	172	172	

Year 5(2020-21)							
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year	
Fundamentals of Nanotechnology	NAT	2021 01.11.2021 - 09.12.2021	1	30 days	100	100	











Certificate Course in Yoga

Kakatiya Givit College Attanamkonda Certificate Courses on YOGA The kakatiya Gout College is going to conduct a certificate course on YOGA at Per the guideme & the CCE, Hyderabad. The Principal has constitued a committee with the following members. 1) chairman 1- Sri K. Satyanarayena (Mith 2) Converier i- Sri T. Jewan Keye (Mith 3) Co-conveneri- Sri K. madusudhan Physical director. Kell 9) Members 1) Sri P. Lanni Navi mha murthy. Leet in Commerce. Furst ii) Sri B. Muralidhar . (ii) Sri B. Muralidhar . (iii) Sri B. Muralidhar . (iii) Sri A. Srintwaa reddy . Leet in Chemistry (iv) Dr. D.V. Laxing cather . (iv) Dr. D.V. Laxing cather . (iv) Sri A. Brahmaids (iv) Sri A. Sri Sri S. Brahmaids (iv) Sri A. Brahmaids (iv) Sri A. Sri Sri S.	De 3011 2015 The 1900A committees aftembled is us principal chamble under the chairmanetip of principal et 12.20 pm and resolved the following decisions. () Antereness mogramme Boydette course in Yoga to the students 2,10,20015 at 12.30pm in Room NO.48. 2) Selector can be made at the end by the programme. 3) Yoga programme conducted daily tran- 3.30pm to 5:30 pm in the college priomises. 4) Yoga programme conducted for Cohrs as pro ccc orders. 5) Registration fee & 1001- collected from students for certificite course in Yoga. () Aboure resolutais are made at per ccc guidelives. 3) Soper to 3:1. Personature. 3) Soper to 2:30 pm in the college priomises. 4) Yoga programme conducted from students for certificate course in Yoga. () Aboure resolutais are made at per ccc guidelives. 3) Sopersonations in the collected from students 5) Convends of the model of the per 2) Convends of the model of the per 2) Conversed to the model. 5) Sopersonation of the students 5) Sopersonation of the students. 6) Aboure resolutais are made at per ccc guidelives. 5) Sopersonations in the students 5) Sopersonations in the students 5) Sopersonations in the students 6) Aboure resolutais are made at per 2) Convends of the model students 6) Dr. Du lexer satarist purs 7) the A-boulder. All South and South an
	EIN YOGA S/o rgeDistrict se organised by Kakatiya Government ices of Commissionarate of Collegiate

SEMINARS / CONFERENCES / WORKSHOPS / GUEST TALKS ORGANIZED BY THE DEPT:

Sl.No	Year	Name of the workshop/ seminar	Number of Participants	Date From – To	
		2019-20			
1	2019-20	A seminar on Basics of Integration Technology	120	24.10.2019	
2	2019-20	A seminar on Special Theory of Relativity - Dr.B.V.A.Rao	129	11.11.2019	
3	2019-20	A seminar on Superconductivity and its Applications - Ch. Sreedhar	145	19.02.2020	
		2018-19			
4	2018-19	A seminar on Central forces - P.Thyagaiah	74	09.07.2018	
5	2018-19	A Seminar on Raman Effect and its Applications - Prof.V.R.K.Murthy	48	05. 11.2018	
6	2018-19	One day workshop for students on preparation of low cost equipments	50	06.08.2018	
7	2018-19	A seminar on Comprehension of Physics- Dr.M.Shankarnarayana	99	05.10.2018	
2017-18					
8	2017-18	Seminar on Quantum Mechanics - Dr.V.R.K.Prasad	47	30. 11.2017	
9	2017-18	Seminar on Semiconductors - Dr.P.Bala Bhaskar, Principal,GDC Cheriyal	42	31.07.2017	
10	2017-18	one Day Workshop on Experiments in Physics - Sponsored by IAPT	77	09.04.2018	
11	2017-18	Seminar on Cathode Ray Oscilloscope - Dr.B.Venkataram Reddy	133	19.04.2018	
		GHANAMKONDA		Page 11	

12	2017-18	Workshop for Physical Science s Teachers	109	15.12.2017
		2016-17		
13	2016-17	Career Guidence and Counselling- Dr. Veeraswamy, Public Relations officer, University arts & Science College, Hanamkonda	65	31.01.2017
14	2016-17	Seminar on Dielectrics and its Applications - Dr.Y.RangaReddy	95	15. 12.2016
15	2016-17	Seminar on Nuclear forces - Dr.M.Venkataramana	81	30.11.2016
16	2016-17	One day workshop on conceptual clarity over certain Physical Phenomenon	73	16.12.2016
17	2016-17	Seminar Molecular Spectroscopy - Prof.S.Sreehari	36	31.03.2017
18	2016-17	Seminar on " Keplers laws and Planetory motion" - N.Sreenivasa Rao, Asst. Prof.of Physics GDC Sathupalli	57	23.01.2017



Workshop for physical sciences teachers

Dr. Venkatramana of BARC Vizag addressing on the occasion of Symposium





(Reaccredited by NAAC with 'A' Grade) HANAMKONDA, WARANGAL.	all
DEPARTMENT OF PHYSICS ONE DAY WORKSHOP FOR PHYSICAL SCIENCES TEACHERS	
CERTIFICATE OF PARTICIPATION	
This is to certify that Mr./Mrs/DrM. Sammaiah	
as participated in One Day Workshop on newly introduced Physical Sciences Curriculum of Class X on 6th December, 2014 organized by the Department of Physics, Kakatiya Government College, Hanamkonda,	
 Co-ordinator Smt. R. Marthamma	_

Students' Projects:

Project name	Program Code	List of students undertaking project work/field work/internship		
2016-17				
		A.SANTHOSH - B.Sc(MPCs) - Iyr.		
		B.SARITHA - B.Sc(MPCs) - Iyr.		
Production of Cureent through Potatos	4	B.RADHIKA - B.Sc(MPCs) - Iyr.		
		E.SRAVANI - B.Sc(MPCs) - Iyr.		
		G.PRUDHVI RAJ - B.Sc(MPCs) - Iyr.		
		A.MAHESH - B.Sc(MPC)-I Yr		
		B.VAMSHI- B.Sc(MPC)-I Yr		
Law of conservation of angular momentum	4	CH.RAJU- B.Sc(MPC)-I Yr		
Law of conservation of angular momentum	4	D.HAREESH- B.Sc(MPC)-I Yr		
		D.KISHORE- B.Sc(MPC)-I Yr		
		J.RAJENDER- B.Sc(MPC)-I Yr		
	201	7-18		
		A. Sharath - MPC -II-Yr		
		D.Rakesh - MPCs - II Yr		
		M.Pranitha - MPC -III -E/M		
Numerical Aperture Plastic optical fibre	4	M.Naveen - MPC-III- T/M		
		M.Laxmiraju - MPC- III-E/M		
		J.Niharika - MPC-III -E/M		
		M.Shivani - MPC-III- E/M		
	201	8-19		
Determination of Acceleration due to gravity by	4	R.Shravani -MPCs- I - Yr.		

Simple pendulum, Compound Pendulum and		O.Sandhya - MPCs- I - Yr.
torsional pendulum - A comparative study and		P.Sruthi- MPCs- I - Yr.
study of errors		P.Kasthuri - MPCs- I - Yr.
		Shaik.Amreen - MPCs- I - Yr.
		V.Vineeth - MPCs- I - Yr.
		V.Harish - MPCs- I - Yr.
		E.Rakesh - MPCs- I - Yr.
		G.Anil - MPCs - I- Yr
		G.Naresh - MPCS - I - Yr.
		Ch,Sushmitha - MPCs - I Yr
Study of Curfe on Tousies of some liquids. A		D.Sandeep Kumar - MPCs - I- Yr
Study of Surface Tension of some liquids - A Comparative Study	4	I.Bhaskar - MPCs - I- Yr
comparative study		G.Yaku - MPCs - I- Yr
		K.Mounika - MPCs - I- Yr
		G.Vinod - MPCs - I- Yr
		G.Prathyusha - MPCs - I- Yr
		D.Rakesh - MPCs - IIIYr
		A.Santhosh - MPCs - IIIYr
Synthesis and Characterization of silver		A.Dinesh - MPCs - IIIYr
Nanoparticles from Feronia elephantum leaf	4	G.Prashanth - MPCs - IIIYr
extract		G.Sandeep - MPCs - IIIYr
		N.Ramesh - MPCs - IIIYr
		R.Shiva Kumar-MPCs - IIIYr
		B.Vijaya Laxmi - MPCs-I Yr.
	4	B.Kavitha - MPCs-I Yr.
Estimation of Errors - Relative Density		B.Yamuna - MPCs-I Yr.
		B.Suma - MPCs-I Yr.
		Ch.Vinay - MPCs-I Yr.

		D.Arun Prasad - MPCs-I Yr. D.Triveni - MPCs-I Yr.
	20	19-20
		A.Meghana-MPCs-II-Yr
		B.Venkatesh - MPCs- II - Yr.
		Ch.Ruchitha Reddy MPCs- II - Yr.
		Ch.Pavan - MPCs- II - Yr.
		D.PurnimaMPCs- II - Yr.
Determination of Refractive index of various	4	G.Vasavi MPCs- II - Yr.
liquids using Newton's Rings	+	J.PavanMPCs- II - Yr.
		K.NarendraMPCs- II - Yr.
		M.Usha Rani MPCs- II - Yr.
		M.Kiranmayi MPCs- II - Yr.
		P.Shiva Krishna MPCs- II - Yr.
		Ch.Ramu- MPCs- II - Yr.
		Ch.Manaswitha - MPC- I - Yr.
		P.Deepika - MPC- I - Yr.
		B.Rajesh- MPC- I - Yr.
		A.Arun Kumar - MPC- I - Yr.
A study of effect of temperature on Viscocity of	4	Ch.Omkar- MPC- I - Yr.
various liquids	-	D.Shivaji- MPC- I - Yr.
		M.Sindhuja- MPC- I - Yr.
		A.Arun - MPC- I - Yr.
		G.Hanuman - MPC- I - Yr.
		P.Venkatesh - MPC- I - Yr.
Cauchy's Constants	4	A.Meghana-MPCs-II-Yr
	т	B.Rajkumar- MPCs-II-Yr

		Ch.Pavan - MPCs- II - Yr.
		G.Chandu -MPCs-II-Yr
		G.Sandeep - MPCs - IIYr
		K.Ugender -MPCs-II-Yr
		M.Usha Rani -MPCs- II - Yr.
		Ch.Ramu- MPCs- II - Yr.
		Ch.Anand- MPCs-II-Yr
		G.Vasavi -MPCs- II - Yr.
		M.Sampath-MPCs-II-Yr
		P.Arun-MPCs-II-Yr
		P.Karthik-MPCs-II-Yr
		S.Umesh-MPCs-II-Yr
		R.Srija-MPCs-II-Yr
		G.naveen- MPCs- II - Yr.
		J.Anitha-MPCs-II-Yr
		J.Praveen-MPCs- II - Yr.
Determination of Thickness of human hair by		V.Srikanth-MPCs-II-Yr
wedge method		N.Ramesh - MPCs - IIYr
		K.Rajender-MPCs-II-Yr
		D.PurnimaMPCs- II - Yr.
		S.Bhargav Raj-MPCs-II-Yr
		V.uday kiran-MPCs-II-Yr
		V.Venkata Rajesh-MPCs-II-Yr
		M.Arshad Pasha-MPCs-II-Yr
		A.Rohith-MPCs-I-Yr
Determination of acceleration due to gravity	4	A.Shiva smitha-MPCs-I-Yr
with different pendulums- a comaparative study		B.Jeevan babu-MPCs-I-Yr
		Ch.manasa-MPCs-I-Yr

	B.Deepika-MPCs-I-Yr
	E.Ashok-MPCs-I-Yr
	G.Sandeep-MPCs-I-Yr
	K.Kishore kumar-MPCs-I-Yr
	K.Bharath chandra-MPCs-I-Yr
	K.Soujanya-MPCs-I-Yr
	M.Pravalika-MPCs-I-Yr
	N.Rakesh-MPCs-I-Yr
	S.Nithish Kumar-MPCs-I-Yr
	V.Akhil-MPCs-I-Yr
	J.Rajesh-MPCs-I-Yr
	B.Maneesha-MPC-II-Yr
	B.rajashekar-MPC-II-Yr
	P.Shiva Krishna -MPC-II-Yr
	R.Durga Prasad-MPC-II-Yr
	P.Saibabu-MPC-II-Yr
A study on specific rotation of different solvents	P.Pranay kumar-MPC-II-Yr
using polarimeter	N.Mahesh-MPC-II-Yr
	M.Sageera baig-MPC-II-Yr
	M.Sallauddin-MPC-II-Yr
	K.Narender-MPC-II-Yr
	J.Praveen-MPCs- II - Yr.
	Ch.Rammohan Sandeep-MPC-II-Yr
	A.Vinod kumar -MPC-I-Yr
Determination of surface tension of different	B.Deepika-MPCs-I-Yr
liquids by capillary rise method	Ch.Omkar- MPC- I - Yr.
quide by cupitally file method	D.Rajesh-MPC-I-Yr
	D.Shivaji-MPC-I-Yr

		G.Deepika-MPC-I-Yr
		G.Sandeep-MPC-I-Yr
		G.Naveen- MPCs- I - Yr.
		K.Pavan-MPC-I-Yr
		M.Ashok-MPC-I-Yr
		N.Anusha-MPC-I-Yr
		N.Rakesh-MPCs-I-Yr
	4	K.Rajinikanth- MPC-I Yr.
		J.Rajesh - MPC-I Yr.
		V.Akhil - MPC-I Yr.
		V.Bhargavi - MPC-I Yr.
Statistical error analysis for differnet Physical		T.Kalyan - MPC-I Yr.
measurements		Sk.adar- MPC-I Yr.
		P.Deepika - MPC-I Yr.
		P.Mahender - MPC-I Yr.
		P.Shekhar - MPC-I Yr.
		K.Ajay - MPC-I Yr.
		K.Chander - MPC-I Yr.

Academic Council Evaluation Services by Faculty:

S.No.	Name of the Lecturer	Paper Setting	Resource Person	Examiner
1	A. Sanjeeva Reddy	Paper setting	-	-
2	Dr. K. Narendar	Paper setting	-	-
3	Md. Yousuf Hussain Ansari	Paper setting	Resource person	Examiner
4	B. Raju	Paper setting		Examiner
5	M. Masood Ahmed Mahamoodi	Paper setting Translator		
6	B.Sreenivas	Paper setting		

Details of Publications: (State/National/International):

S. No.	Name of the Faculty	Research Papers & Books	Books Authored
1	Md. Yousuf Hussain Ansari	Research papers	
2	B. Raju		Electromagnetism for B.Sc third year V Sem (T/M and E/M) by Telugu academy Hyd. EAMCET- Physics Vol-I &II (T/M) – Published by Telugu Akademi, Hyd.
3.	Dr.K.Narender	Published 18 research papers	
4.	M. Masood Ahmed Mahamoodi	One research paper	

Faculty as Members on Academic Bodies at Autonomous/University/Workshops:

M. Masood Ahmed Mahamoodi	 Department of Physics, Kakatiya University Warangal Government Degree College (Autonomous) Siddipet, Dist: Siddipet

STUDENT CENTRIC ACTIVITIES:

S. No	Name of the Student	Class	Торіс
1	M. Nagajyothi	MPC - II -TM	Interference
2	N. Anusha	MPC - II - TM	Newton's Rings
3	A. Sampath	MPC-II- TM	Nicol Prism
4	M. Swarnalatha B. Srikanth	II year TM	Thermodynamic Potential
5	Ch. Mounika	I Year TM	Renewable and Non- Renewable Sources
6	K. Shyamala	III year MPC EM	Photo Electric Effect
7	M. Srikar	III year MPC EM	De-Broglie Theory of Matter Waves
8	P. Srikanth	III year MPCs EM	Rotational Energies and Spectrum
9	A. Sravanthi	III year MPC EM	Crystal Structure
10	Ch. Prashanth	III year MPCs EM	Potential Barrier
11	Ch. Mounika P. Dinakar	III year MPC EM	Raman Effect & Electro Magnetics
12	K. Nirosha	III year MPCs TM	Hysteresis and B.H. Curve
13	G. Vamshikrisha A. Shirisha	III MPC EM	Anti-Ferro Magnetism
14	E. Arun Kumar	II MPCs EM	Newton Rings
15	A. Sravanthi K. Laxmi	II MPCs EM	Carnot Cycle & Nicol Prism

Seminars / Workshops organized involving Students:





STUDENT SEMINARS



























QUIZ PROGRAMMES









EXTENSION LECTURES



An extension lecture by Dr.M.Shankarnarayana on "COMPREHENSIVE PHYSICS" ON 5th OCTOBER 2018



Field Trips/Industry Tours organized for Students:

S.	Place of Visit	Date of	Strength
No.		Visit	
1	Department of Physics Central Instrumentation Centre, KU WGL	14-12-2013	25
2	Department of Physics Central Instrumentation Centre, KU WGL	02-12-2014	20
3	Department of Physics Central Instrumentation Centre, KU WGL	07-01-2016	15
4	Industrial Training Centre	27-04-2017	45
5	Industrial Training Centre	07-12-2017	41

Field trip to Department of Physics,

KAKATIYA UNIVERSITY, WARANGAL



Field trip to CENTRAL INSTRUMENTATION CENTRE, KAKATIYA UNIVERSITY, WARANGAL









Field trip to ELECTRIC CONTROL BOARD, WARANGAL









Remedial Classes for students with, Minutes, Attendance Registers and other Documents:

Remedial classes were conducted

Remedial classes are conducted after identifying slow learners and for those who fail to do well at Exams.

STUDENTS PARTICIPATION IN INTER-COLLEGIATE COMPOSITIONS (JIGNASA):

S. No.	Jignasa	Year	Торіс	Participated students
1	Jignasa	2016-17	A study on electromagnetic principles	1.M.Upender Reddy 2.T.naga Lakshmi 3.S.Usha Sree 4.P.Anjali 5.B.Anusha
2	Jignasa	2017-18	A Study of Waste Electrical And Electronic Equipment (WEEP) Disposal And Management	1.Ch.Raju 2.N.Navya 3.B.Bharath 4.K.Ankith 5.A.Santhosh
3	Jignasa	2018-19	Synthesis and Characterization of Silver Nanoparticles from Feronia elephantum leaf extract	 D.Rakesh A.Santhosh A.Dinesh G.Prashanth G.Sandeep N.Ramesh
4	Jignana	2020-21	Energy Audit – KGC A Case Study	 N.Adarsh, B.Sc(MPCs)III- Yr. B.ManiDeepak,B.Sc(MPCs)III - Yr. D.Shivaji,B.SC(MPC)III-Yr. K.Akhila,B.SC(MPCs)I - Yr. Ch.Lokesh Reddy, B.Sc (MPCs) - IIYr. E.Sandhya B.SC(MPCs) - II Yr.

E-FACILITIES / e-Content available:

Name of the faculty: Raju Bandari

S.No	Торіс	You tube Link
1	Vector Analysis- Vector and Scalar Fields-Derivation of Del Operator and Laplacian	https://youtu.be/WWstluNhYqk
2	Gradient of Scalar Field and numericals on Gradient	https://youtu.be/qdtRWpkDMsl
3	Divergence of a Vector Field and Numericals	https://youtu.be/9H5bHSASHsA
4	Curl of a Vector Field and Physical Significance	https://youtu.be/h_aryeWyQoo
5	Vector Integration-Line, Surface and Volume integration	https://youtu.be/7Nnkd-RacmQ
6	Gauss's Divergence Theorem	https://youtu.be/fR1PpJe2eDs
7	Stoke's Theorem	https://youtu.be/oc_wmVHLaog
8	Green's Theorem	https://youtu.be/5U i1mUO8Ho
9	Numericals on Vector Analysis	https://youtu.be/xOn2C6OxmPc
10	Numericals on Vector Analysis	https://youtu.be/NaYP5IRK2iE
11	Special Theory of Relativity- Galilean Transformations	https://youtu.be/yhkr4-xch1c
12	Michelson - Morley experiment	https://youtu.be/6pKgtSlnKnc
13	Postulates of Special Theory of Relativity and Lorentz Transformations	https://youtu.be/ 7f1Snve59o
14	Length Contraction and time dilation	https://youtu.be/Xuxg07CQ_jM
15	Variation of mass with velocity and Einstein's mass - energy equivalence relation	https://youtu.be/y82pxxEWX74
16	Four vector formalism	https://youtu.be/FhIYBa0uu80
17	Numerical problems - 1 on Special theory of relativity	https://youtu.be/jebfT5pgY-w
18	Numerical Problems- 2 on Special theory of relativity	https://youtu.be/Y0G0gNo1LAk
19	Central forces 1	https://youtu.be/AAdhhffR74E
20	Central forces 2	https://youtu.be/pU1BIChxDds
21	Central forces 3-Acceleration of a particle in polar coordinates	https://youtu.be/RFhXMboYIWs
22	Lecture- 4 Equation of motion of a particle under influence of Central forces	https://youtu.be/KhiOEyj6MyI
23	Lecture-5 Central Forces- Gravitational field Intensity, Gravitational Potential and Kepler Laws	https://youtu.be/woCN4MwKCCA
24	Derivation of Kepler's first Law	https://youtu.be/OWLYf1vobyQ
25	Kepler's 2nd & 3rd Law	https://youtu.be/MosTPPqWIZc
26	Central forces - 8	https://youtu.be/5gWywT0yWQQ
27	Lecture-9-Numericals on Vector Analysis	https://youtu.be/xOn2C6OxmPc

Name of the faculty: Sreenivas Boorgu

S.No	Торіс	You tube Link
1	Newton's Laws of Motion	https://youtu.be/AoVRak36P54
2	System of Variable Mass	https://youtu.be/-FURnQldzYs
3	Conservation of Mechanical Energy	https://youtu.be/MzI-W6EGnds
4	Conservation of Momentum	https://youtu.be/6NHYkNCegXI
5	Collisions	https://youtu.be/TdonoVwFzz0
6	Elastic Collision in Two Dimensions	https://youtu.be/sTXvL3u8FYQ
7	Collisions in Two and Three Dimensions	https://youtu.be/SUsuGm1o7ms
8	Problems in Mechanics of Particles	https://youtu.be/Ndxol14SZt0
9	Mechanics of Rigid bodies	https://youtu.be/ZSEvmk47xOk
10	Mechanics of Rigid bodies	https://youtu.be/-S8a1jUFIT0
11	Equation of motion of a rotating rigid body	https://youtu.be/iFZzRzfVPrY
12	Combined Translational and Rotational motion	https://youtu.be/kYyUCohTW5Q
13	Angular momentum and Inertia tensor	https://youtu.be/IRZc6AeFDls
14	Euler equations	https://youtu.be/hqurlGLCaKc
15	Symmetric top	https://youtu.be/0ANARig9LHg
16	Gyroscope	https://youtu.be/0IxGDyE7ftw
17	Precession of Equinoxes	https://youtu.be/O7q7kse6Ybw
18	Moment of inertia	https://youtu.be/-HCYRTHWgmE
19	Solid State physics	https://youtu.be/IYe4gFx_NMo
20	Crystal symmetry	https://youtu.be/b1elOiaqMx8
21	Miller Indices	https://youtu.be/3V9rFBTxkxk
22	Atomic packing fraction	https://youtu.be/TIcMSADLFvQ
23	X-ray diffraction and Bragg's law	https://youtu.be/dy0LdOosPII
24	Reciprocal lattice	https://youtu.be/wKEoHoX9NDc
25	Numerical problems on Crystal structure	https://youtu.be/dVGqe9mcuGU

S.No	Topic You tube /Gogle Drive		
1	Introduction to Electrostatics	https://youtu.be/7i6sXelltXs	
2	Problems on Coulomb's law	https://youtu.be/K6fQ4yNGn-Y	
3	Gauss's law, Integral orm	https://youtu.be/jwVZNIJIhqw	
4	Gauss's law differential form and application	https://youtu.be/Gc9KDmiH5Gc	
5	Gauss's law applications	https://youtu.be/ AqN1QRIftI	
6	Gauss's law applications	https://youtu.be/Tv9G_EJ5i9M	
7	Electric potential	https://youtu.be/_li4TtFHpX8	
8	Electric potential and relations, potential due to point charge	https://youtu.be/6nwBJg5ZCf0	
9	Potential due to Charged Spherical Conductor and energy density	https://youtu.be/VyBMfQ-fKyE	

Name of the faculty: Dr.K.Narender

Best Practices of the Department:

- Problem-Based Learning- Introduction of problem solving assessment to the UG students to have comprehensive understanding of Physics.
- Intensive coaching for JAM and PG entrance of reputed institutions of national level.
- Study material: The department is providing the study materials to the students.
- > The department encourages the M.Sc students to pursue research.

Bench Mark of the Department (Greatest Recognition Activity of the Department)

- ➤ Mr.A.Santhosh has qualified IIT JAM -2019,
- ➤ Kumari K.Ramya has secured 20 th rank in CSIR JRF/LS

Future Plans and Intention of the Department:

- Establish of research facilities.
- Strengthen the alumni activities.
- Start B.Sc Electronics course .

Other Responsibilities of the Department:

S. No.	Name of the Lecturer	Additional Responsibility	Convener/ Member
1	M. Masood Ahmed Mahamoodi	Audio Visual Committee	Convener
2	B. Raju	IQAC / NAAC /AV Education	Member
3	B. Sreenivas	Eco Club / AV Education	Member
4	Dr. K. Narendar	IQAC	Member

Departmental Library:

The departmental library has nearly 200 books. Nearly 150 books are available in e-library:



List of Mentors the classes concerned working in the Department and the record of counseling held with the mentees and action taken report (mentor wise):

S.No.	Name of the Mentor	Group	No. of Students
1	Dr. K.Narendar	III MPCs EM	
2	B.Sreenivas	III MPCs TM	
3	M.Masood Ahmed Mahamoodi	II MPC EM	
4	B.Raju	I MPCs	
5	S.Kiran		

Development of low cost Physics instruments by students







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e-mail: warangal.jkc@gmail.com, website: https://gdcts.cgg.gov.in/hanamkonda.edu)





KAKATIYA GOVERNMENT COLLEGE, HANUMAKONDA. DIST: HANUMAKONDA. TELANGANA STATE - 506001



(Affiliated to Kakatiya University, Warangal) (e-mail: warangal.jkc@gmail.com, website: https://gdcts.cgg.gov.in/hanamkonda.edu)

DEPARTMENT OF PHYSICS

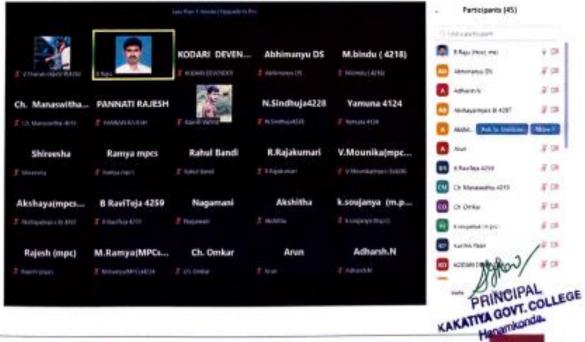
Brief report on WEBINAR on "Maxwell's equations -A Mathematical Approach". Resource Person: D.Venkanna., Asst.Prof of Mathematics, Date: 15.06.2021

With a motto of inducing interest in Physics subject, Department of Physics organized a webinar on 15.06.2021 through ZOOM entitled "Maxwell's equations -A Mathematical Approach".

Mr.D. Venkanna, Asst. Professor of Mathematics, was the resource person. Around 45 students of B.Sc - final year participated in the programme. The speaker beautifully explained the Maxwell's equations and its applications with the help of animations and other ICT tools in the context of Mathematical approach.

Students were all praise for the simple, smooth and lucid approach of the concept of Maxwell's equations and its applications At the end of the programme, the doubts raised by the participants were clarified by the speaker.





KAKATIYA GOVT.COLLEGE, HANUMAKONDA | DEPT.OF PHYSICS -WEBINARS - (2020-21)



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DEPARTMENT OF PHYSICS

Brief report on WEBINAR on "Mathematical Physics with a focus on Vector Analysis" Resource Person: Dr.B.Prabhakar., Asst.Prof of Mathematics, Date: 05.07.2021

With a motto of inducing interest in Physics subject, Department of Physics organized a webinar on 05.07.2021 through 200M entitled "Mathematical Physics with a focus on Vector Analysis".

Dr.B.Prabhohar Asst. Professor of Mathematics was the resource person. Around 52 students of B.Sc. - Second year participated in the programme. The speaker explosited in a lucid manner the concept of vectors and its applications in Physics with appropriate mathematical models.

Students benefitted a lot from the easy approach explanation by the speaker.

At the end of the programme, the students were given a chance to get their doubts clarified by the speaker.





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DEPARTMENT OF PHYSICS

Brief report on WEBINAR on "Crystal Systems - Bravais Lattices" Resource Person: Dr.B.Ramesh., Asst.Prof of Chemistry, Date: 20.08.2021

To give clarity on the concept of crystallography, Department of Physics organized a webinar on 20.08.2021 through 200M entitled "Crystal systems-Bravais Lattices".

Dr.B.Ramesh, Asst. Professor of Chemistry, was the resource person. Around 68 students of B.Sc - final year participated in the programme. The speaker explained the concept of Bravais lattices using 3D - models and animations

The participants appreciated the clarity of concepts and the beauty of the presentation.

At the end of the programme, the students were given a chance to get their doubts clarified by the speaker.





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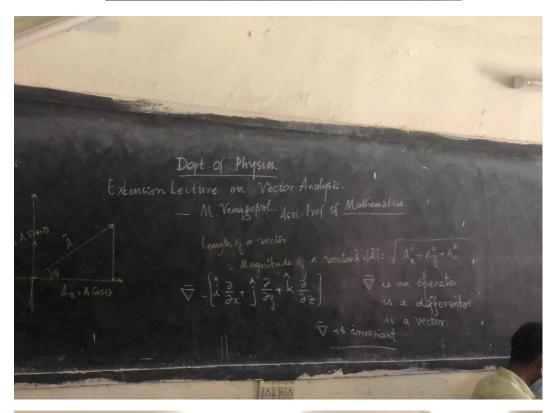


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SEMINAR / EXTENSION LECTURE Topic: VECTOR ANALYSIS on 02.11.2021



Dept. of Physics. Instorn Lecture on Vector Analysis. - M. Venugopal. Assi Fred of M Length of a vector - Magnitude of a vector $\overline{\nabla} = \left(i\frac{2}{2}+j\frac{2}{2}+k\frac{2}{2}\right)$.







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Seminar on Special Theory of Relativity

On 03.12.2021

Resource Person: D.Anantha Ramakrishna Principal, GJC, Dharamaram & Eenadu Telugu daily Newspaper Columnist



A Brief Report on the Seminar

A seminar on **Special Theory of Relativity** is organized by the Department of Physics, on 03.12.2021.Resource Person of the seminar: D.Anantharama Krishna, Principal of Govt.Jr.College, Dharmaram. Dist: Peddapally, and Eenadu daily News paper Columnist .About 117 students from B.Sc., attended the seminar.

D. Anatha Ramakrishna delivered a lucid lecture to the spell-bound student community. The students expressed their opinion in the end. The doubts of the students were clarified by the speaker.











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A seminar on Integral transforms – Applications in Physics

Date: 08.12.2021

Resource Person: M.Venugopal, Asst.Prof.of Mathematics



Brief Report on Seminar

A seminar on Integral transforms –Applications in Physics is conducted by the Department of Physics, M.Venugopal. Asst.Prof of Mathematics has given the talk on Integral Transforms – Applications in Physics, on 08.12.2021.

Resource person has delivered the lecture with more no.of applications in Physics of integral transformations. The students expressed their satisfaction after the seminar.

A seminar on Gauss' Divergence Theorem with Different Approaches

Resource Person: D.Venkanna, Asst.Prof. Of Mathematics

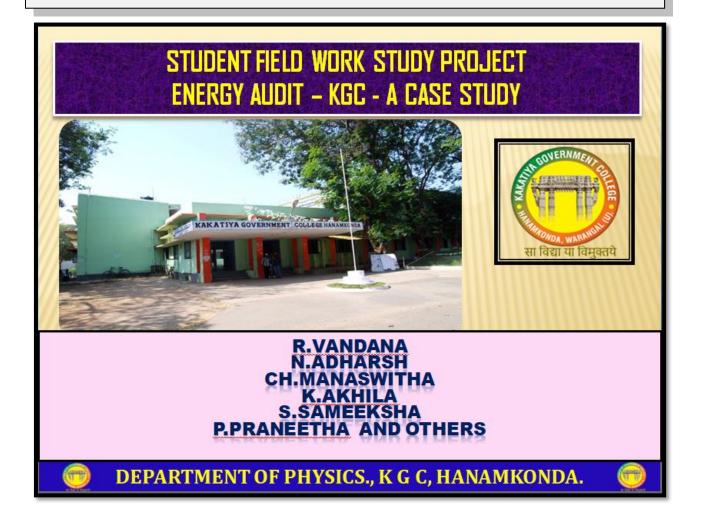








STUDENT FIELD WORK – STUDY PROJECT ENERGY AUDIT – KGC – A CASE STUDY



The Energy Audit was defined to meet the following objectives:

- Conduct a simple Walk-Through audit or observation of the energy consumption of electrical appliances within the KAKATIAYA GOVERNMENT COLLEGE, HANAMKONDA building.
- Review and analyze energy usage history to create a baseline for which savings can be measured in the audited building.







Student Study Project

KAKATIYA GOVT. COLLEGE, HANAMKONDA

DIST: WARANGAL., TELANGANA – 506001 (Affiliated to Kakatiya University, Warangal) (e-mail: warangal.jkc@gmail.com, website: https://gdcts.cgg.gov.in/hanamkonda.edu)

DEPARTMENT OF PHYSICS



TITLE OF THE PROJECT:

C.V. RAMAN

A BRILLIANT SON OF INDIA

A . Arun Kumar - MPC – II – Yr., B . Manasa,- MPCs – II - Yr., D . Chandradeep - MPC -I - Yr., G . Sandeep Kumar – MPCs – III - Yr., G . Sanaeetha-MPC – I - Yr., K . Praharsha-MPC – I – Yr., A . Liinaa – MPCs-I- Yr., A . Swapna – MPCs – I Yr., A. Ashok – MPC – III - Yr.,

Objectives:

- 1. To know the history and the chronology of C.V.Raman works in Physics.
- 2. To understand the wide range of applications of Raman effect in various fields
- 3. To motivate the students towards scientific research

ABSTRACT of the Study Project:

In 1928 the Indian physicist C. V. Raman (1888-1970) discovered the effect named after him virtually simultaneously with the Russian physicists G. S. Landsberg (1890-1957) and L. I. Mandelstam (1879-1944).

Here, we provide a biographical sketch of Raman through his years at Calcutta (1907-1932) and Bangalore (after 1932).

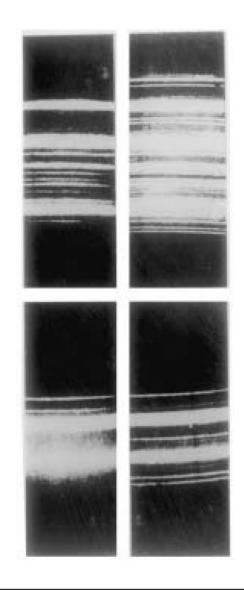
His scientific work in acoustics, astronomy, and optics up to 1928, including his views on Albert Einstein's light-quantum hypothesis and on Arthur Holly Compton's discovery of the Compton effect, with particular

reference to Compton's debate on it with William Duane in Toronto in 1924, which Raman witnessed. then we examine Raman's discovery of the Raman effect and its reception among physicists.

Finally, we examine the reasons for why Landsberg and Mandelstam did not share the Nobel Prize in Physics for 1930 with Raman.







The first spectra taken by C. V. Raman and K. S. Krishnan. The upperleft photograph shows the incident light consisting of the spectrum of a quartz mercury arc lamp after passing through a blue filter that cuts out all wavelengths greater than the indigo line at 4358 Angstroms. The upper-right photograph shows the same spectrum when scattered by liquid benzene and taken with a small Adam Hilger spectroscope. Note the appearance of modified lines owing to the Raman Effect. The lower-left and the lower-right photographs show the same effect using a different filter. Courtesy of the Raman Research Institute, Bangalore. AN INTERNATIONAL HISTORIC CHEMICAL LANDMARK

THE RAMAN EFFECT

JADAVPUR, CALCUTTA DECEMBER 15, 1998





AMERICAN CHEMICAL SOCIETY



INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE



NATIONAL SCIENCE DAY

Discovery of Raman Effect

Dr. C. Y. Report tempes for

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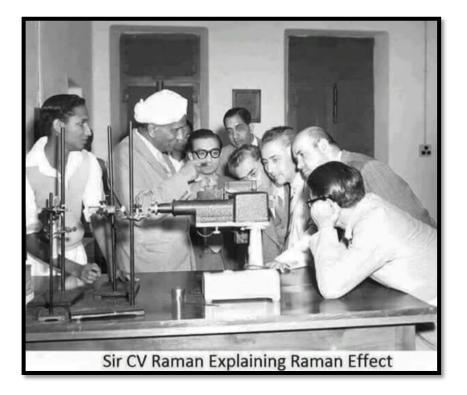
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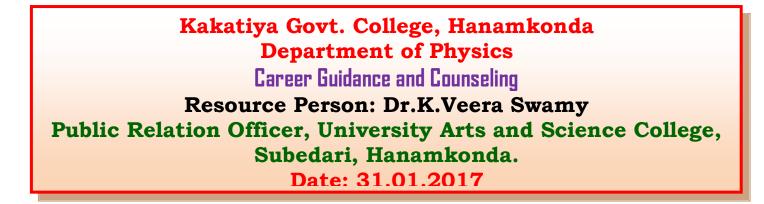
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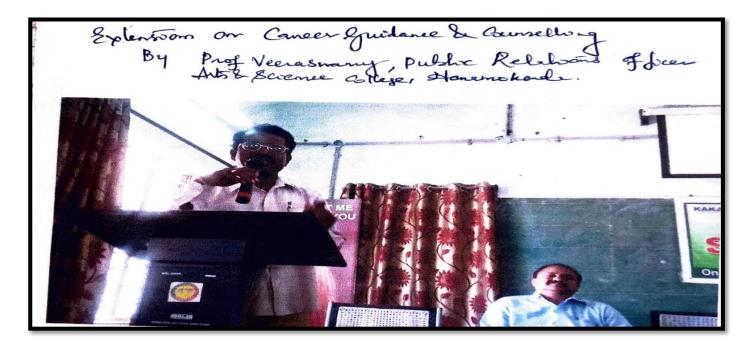
See.



KAKATIYA GOVT.COLLEGE, HANAMKONDA Dept.of Physics A seminar on **"Raman Effect and its Applications"** by Prof.V.Radha Krishna Murthy,Prof of Physics. Central Instrumentation Center, Dept. of Physics, Kakatiya University, Warangal Date: 05.11.2018

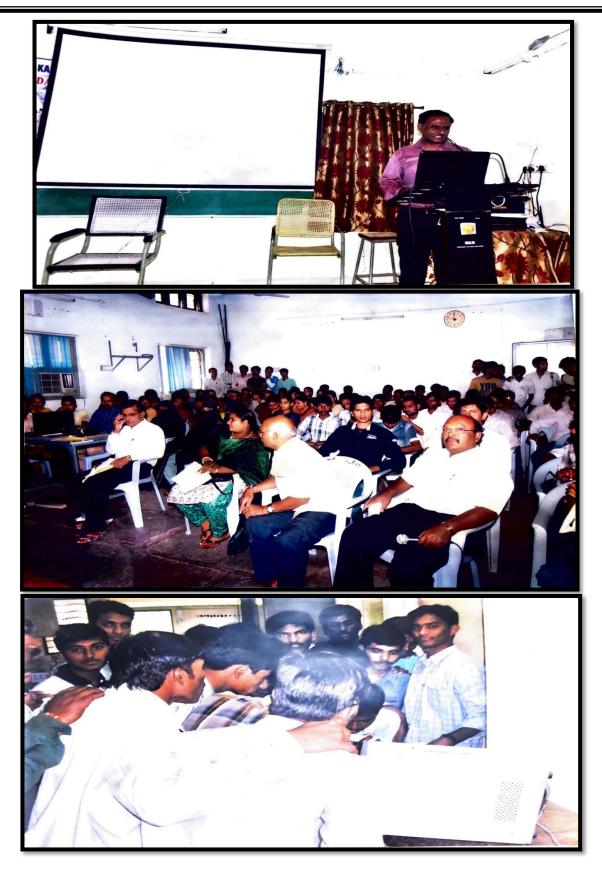








A Seminar on Cathode Ray Oscilloscope Resource Person: Prof.B.Venkat Ram Reddy, Prof.of Physics, Dept.of Physics, Kakatiya University, Warangal Date: 19.04.2018



KAKATIYA GOVT.COLLEGE, HANAMKONDA Dept.of Physics A seminar on "Dielectrics and its Applications" by Dr.Y.Ranga Reddy, Prof of Physics. Date: 15.12.2016





KAKATIYA GOVT.COLLEGE, HANAMKONDA DEPARTMENT OF PHYSICS One day Workshop on Preparation of low cost equipments

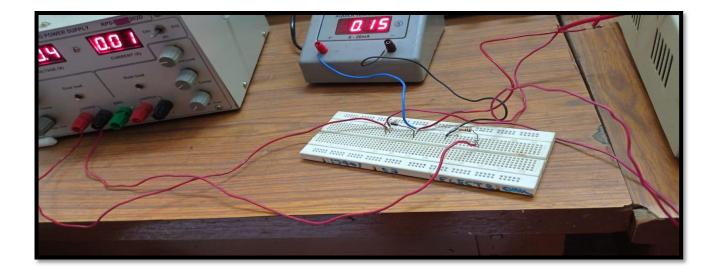
Date: 06.08.2018











KAKATIYA GOVT.COLLEGE, HANAMKONDA DEPARTMENT OF PHYSICS A Seminar on "Special Theory of Relativity" Resource Person: Dr.B.V.A.Rao, Asst. Professor, Department of Physics, NIT Warangal Date: 11.11.2019



Kakatiya Govt. College, Hanamkonda Department of Physics Seminar on Quantum Mechanics Resource Person: Dr.V.R.K.Prasad .Date: 30.11.2017





One Day Workshop on Conceptual clarity over certain Physical Phenomenon Resource Person: Dr.T. Anantha Krishnan, Prof.of Physics, Cochin University of Science and Technology, Kochi. Date: 16.12.2016



KAKATIYA GOVT.COLLEGE, HANAMKONDA DEPARTMENT OF PHYSICS One Day workshop on Experiments in Physics Date: 09.04.2018









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ONE DAY WORKSHOP ON EXPERIMENTS IN PHYSICS 9 th April 2018 Sponsored by INDIAN ASSOCIATION OF PHYSICS TEACHERS (IAPT) Telangana (RC22) Organized by DEPARTMENT OF PHYSICS KAKATIYA GOVERNMENT COLLEGE (NAAC "A") HANAMKONDA, WARANGAL URBAN (DIST), TELANGANA									
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			has participat	ed in the	ONE DAY WORK	SHOP ON EXPERIM	MENTS IN PHYSICS -		
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DEPARTMENT OF PHYSICS - KAKATIYA GOVERNMENT COLLEGE - HANAMKONDA ONE DAY WORKSHOP ON EXPERIMENTS IN PHYSICS - 2018 9 th April 2018 Sponsored by Set - 1 INDIAN ASSOCIATION OF PHYSICS TEACHERS (IAPT)									
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Page 1 of 17

DEPARTMENT OF PHYSICS - KAKATIYA GOVERNMENT COLLEGE - HANAMKONDA

ONE DAY WORKSHOP ON EXPERIMENTS IN PHYSICS - 2018 9th April 2018



Sponsored by INDIAN ASSOCIATION OF PHYSICS TEACHERS (IAPT)

Telangana (RC22)

Date: 08-04-2018

PRESS NOTE

The Department of Physics, Kakatiya Government College, Hanamkonda is organizing a One Day Workshop on "Experiments in Physics" on 9th April, 2018. This workshop consists of lectures by Prof. B. Venkatram Reddy, Kakatiya University, Warangal and Dr. M. Venkata Ramana, Principal, SRA&S UG and PG College, Kothagudem on focus areas, "The role of experiments in physics, Working and applications of CRO (Cathode Ray Oscilloscope), the phenomenon and applications of Hall Effect, Determination of 'specific charge (e/m) of electron' (magnetron method), Exhibition of diffraction phenomenon using day to day objects" and demonstrations of the experiments. This workshop is mainly aimed at giving a thorough understanding and the philosophy of experiments in physics for MSc (Physics) and final BSc students and lecturers of different colleges. Interested students and teachers can contact the workshop coordinator at 9441278378.

Workshop Coordinator

Bfe

Organizing Secretary

Yours Truly

Chairperson and Principal

Dr. V.Vijayalakshmi

Bairy Satyanarayana

K. Rajanilatha

KAKATIYA GOVT.COLLEGE, HANAMKONDA DEPARTMENT OF PHYSICS

A Seminar on Kepler's Laws and Planetary Motion Resource Person: N.Sreenivasa Rao, Asst.Prof. of Physics, GDC, Sathupally Date: 23.01.2017

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KAKATIYA GOVT.COLLEGE, HANAMKONDA DEPARTMENT OF PHYSICS A Seminar on Central Forces Resource Person: P.Thyagaiah, Asst.Prof. of Physics, GDC, Narsampet Date: 09.07.2018





A seminar on Semiconductors Resource Person: Dr.P.Balabhaskar, Principal, GDC Cheriyal Date: 31.07.2017



A seminar on Super Conductivity and its Applications Resource Person: Ch.Sreedhar, Asst.Prof.of Physics, ABV GDC Jangaon Date: 19.02.2020

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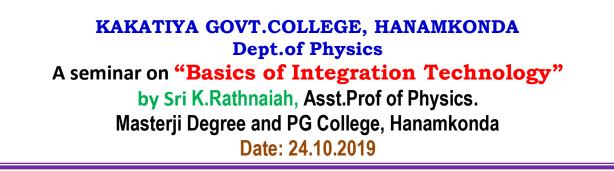
KAKATIYA GOVT.COLLEGE, HANAMKONDA Dept.of Physics A seminar on "Nuclear Physics"

by Dr.A.V.Ramana, Principal, SR Arts & Science College, Kothagudem. Date: 30.11.2016

Extensions Lecture on Huclear physics Dr M. Venhata Raman Primpel S. R. Arts & Science Callyon Icuite Gr 0/11/2016

KAKATIYA GOVT.COLLEGE, HANAMKONDA Dept.of Physics A seminar on "Spectroscopy" by Prof.Srihari, Retd.Prof of Chemistry. Date: 31.03.2017

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KAKATIYA GOVERNMENT COLLEGE – HANAMKONDA Dist: Warangal, Telangana State - 506001

(Affiliated to Kakatiya University, Warangal. Accredited by NAAC "A")

DEPARTMENT OF PHYSICS

ACADEMIC YEAR 2017-18

REPORT ON

WORKSHOP FOR PHYSICAL SCIENCES TEACHERS



Date: 15.12.2017

Subject: Physical Science (Physics)

Organized By:

DEPARTMENT OF PHYSICS

KAKATIYA GOVERNMENT COLLEGE, HANAMKONDA



Inaugural Session:

Sri.T.Jeevan Kumar, Lecturer in Physics is welcoming the gathering and elaborating the significance of workshop



Dr.V.Vijayalaxmi, Principal and Convener, One Day workshop for Physical Sciences Teachers- Dec – 2017 is delivering her inaugural address to the participants, Smt.K.Rajinilatha, Incharge, Dept.of Physics and coordinator of the Workshop can be seen on the dais.



Participants of the Workshop

Session Wise Photographs



Lab Activities - Set-III : Participants are curiously engrossed in learning to perform the experimental activities "Reflection of Light" while T.Jeevan Kumar, Lecturer in Physics, Kakatiya Govt Degree College, Hanmkonda is demonstrating and assisting them with the help of beautifully calligraphed charts, diagrams and very easily available equipments.



Lab Activities - Set-IV : Sri.J.Swamy, Lecturer in Physics, Govt Degree College, Hanamkonda is demonstrating the participants a series of experiments on "Dispersion of Light with Spectrometer and Sodium Light" and making them to have a hands on experience to take readings on their owns, with the help of beautifully calligraphed charts, diagrams and very easily available objects.



Lecture-4(part-1) : Sri.K.Madhusudan, Lecturer in Physics, SRR Govt UG & PG College, Karimnagar is presenting a talk on "Principles of Electromagnetism10th class Physical Science)" with the help of power point presentation as well as performance of the same with relevant apparatus at hand.



Lecture-4 (part-II): Sri.K.Madhusadan, Lecturer in Physics, SRR Gost UG & PG College, Karinnaagar is presenting a talk on "Principles of Electromagnetism)10ⁿ class. Physical Science/" with the help of power point presentation as well as performance of the same with relevant apparatus at band.



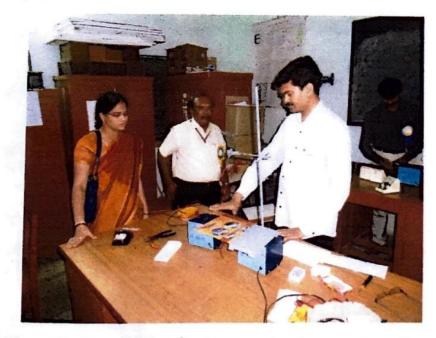
Lecture-3 : Dr.K.Narender Reddy, Junior Lecturer in Physics, Govt Junior College, Hanamkonda is delivering a talk on "Current Electricity (10th class Physical Science)" in a heuristic manner just with the help of a meter scale, thread and chalk based on simple linear geometric concepts.



Lab Activities - Set-II : Participants are trying to perform the experimental activity " Magnetic lines of force" on their in order to have a hands on experience Kumari while Kumari. Swetha and Kumari. Sindhuja, I-MSC(Physics) students of Kakatiya Govt Degree College, Hanmkonda are explaining and assisting them with the help of beautifully calligraphed charts, diagrams and very easily available equipments.



Lecture-1 : Sri.T.Jeevan Kumar, Lecturer in Physics is presenting a talk on "Reflection of Light (Ray Optics -10^{th} class Physical Science)" with the help of power point presentation.



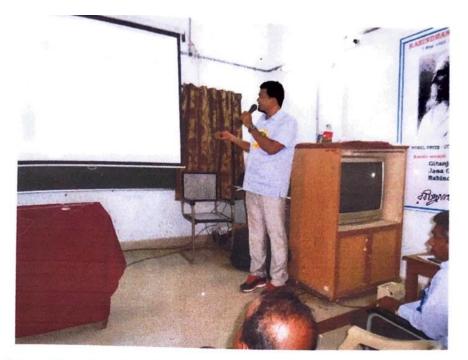
Lab Activities - Set-I : Sri.B.Raju, Lecturer in Physics, Govt Degree College, Eturnagaram is demonstrating to Smt Vasanthi, deputy DEO,Warangal Division a series of experiments and making them to have a hands on experience to take readings on their owns, on " Electricity, Ohm's la etc (10th class Physical Science)" with the help of beautifully calligraphed charts, diagrams and very easily available objects, while Sri.T.Jeevan Kumar and Sri.J.Swamy are arranging other experimental arrangements.



Participants are enthusiastically listening and jotting down notes of relevant phenomena of different topics pertaining to the Physical science, 10th class



Valedictory a Participants along with guest Sunt-Vasanthi, Dy.EO, Warangal Division are seen concentrating to the opinions poured out by the participants at the end of the workshop.



Lecture-4(part-I) : Sri.K.Madhusudan, Lecturer in Physics, SRR Govt UG & PG College, Karimnagar is presenting a talk on "Principles of Electromagnetism(10th class Physical Science)" with the help of power point presentation as well as performance of the same with relevant apparatus at hand.



Lecture-4 (part-II): Sri.K.Madhusudan, Lecturer in Physics, SRR Govt UG & PG College, Karimnagar is presenting a talk on "Principles of Electromagnetism(10th class Physical Science)" with the help of power point presentation as well as performance of the same with relevant apparatus at hand.