WELCOME
TO
NAAC PEER TEAM
CYCLE-III

DEPARTMENT OF PHYSICS
S.V.C.R. GOVT. DEGREE COLLEGE
PALAMANER

INTRODUCTION

- Physics Department was Established in the Year 1997-98
- Core Subject of B.Sc. (M.P.C. &M.P.Cs.) Programme
- Electronics was Introduced in the Year 2020-21 of B.Sc. (M.E.Cs.)

DEPARTMENT OF PHYSICS AND ELECTRONICS

- Year of Establishment :1997-98
- Groups :B.SC.,(M.P.C., M.P.Cs., &M.E.Cs.)
- Number of Sanctioned Posts :03
- Number of Teaching Staff Working : 03
- Student Strength(2021-2022) :168
- Results in the Year (2021-22) :98%

DEPARTMENT POLICY

PROMOTE USAGE
OF
RENEWABLE ENERGY

BAN PLASTIC

BAN FLEXIES

Vision

To develop passion towards understanding of basic principles of Physics of today's technology and use it for self sustenance.

MISSION

- To develop analytical skills, logical thinking and problem solving abilities among the students.

- To empower the students with technology to blend themselves into various professions with a sense of social responsibility.

- To motivate the students towards higher education and research.

FACULTY DETAILS

S. No.	Name of the staff Member	Designation	Qualification	Experience (in years)
1	G.M .Shanmugam	Lecturer in Physics	M.Sc., M.Ed., M.Phil.	32+
2	M.Surya Sekhar Reddy	Lecturer in Physics	M.Sc., M.Ed., M.Phil., (Ph.D.)	27+
3	K. Venkatadri	Lecturer in Physics	M.Sc., B.Ed., (Ph.D.)	12+

PROFILE OF THE FACULTY

S. No.	Name of the staff Member	Professional honours	Achievements	Additional responsibilities
1	G.M .Shanmugam	1.Academic advisor for CCE Academic Audit	a) MRP: Solar thermal power generation(Sep 2014) b) One O C, Two RC c) Adjudicator in district level inspire award (5) d) Participated in 5 national seminar	1. Vice principal 2. A.V.E committee convener 3. FRS coordinator
2	M.Surya Sekhar Reddy	1.Acting as an advisor for INSPIRE organizing committee	a) Attended More than 50 seminars/work shops b) Conducted 2 National and 3 international seminars as a Convenor For more details https://bit.ly/3FIUmwL	1.Exams coordinator 2.UGC coordinator
3	K. Venkatadri	Adjudicator in district level inspire award (5)	a) Attended more than 20 seminars b) Attended pdfs for refreshing professional knowledge	1.Acting as member in different college level committees

POs, PSOs and COs

- PO1: To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community
- PO2: To motivate the students to pursue PG courses in reputed institutes.
- PO3: To learn the fundamental principles and scientific theorems related to basic sciences and their relevance in daily life
- PO4: To kindle the interest for research in students.
- PO5: To acquire placement in educational institutions, engineering and Industrial firms
- PO6: To endow the students with creative and analytical skills; this will equip them to become Entrepreneurs

POs, PSOs and COs

- PSO1:Interpret the principles, classifications, concepts, theories and mechanisms
- PSO2:Analyze hypothesis, procedures, properties, experimental facts and draw conclusions
- PSO3:Applytechniquesinsolvingproblems, results, sample analysis and production.
- PSO4: Discuss the latest trends and applications pertinent to higher studies and employability
- PSO5: Exhibit communicative competence and apply skills in computers, creative and critical thinking, interpersonal relationships and managing emotions in real life situations

POs, PSOs and COs

- Course – I: **"Mechanics ,Waves and Oscillations"**

  After study of "***Mechanics , waves and oscillations Course***", the student is able to

- CO1:Understand the vector operations, rotational dynamics, energy transformations through different methods such as collisions, scattering, etc.

- CO2: Explain the causes for natural phenomenon like solar system, day seasons etc.

POs, PSOs and COs

- CO3: Record the observations in different situations and exchange the facts from one situation to another.

- CO4: Understand the origin of production and transportation of Energy in different modes.

- CO5: Choose different measuring tools based on wave properties.

POs, PSOs and COs Mapping

	PO1	PO2	PO2	PO3	PO4	PO5	PO6	POS1	POS2	POS3	POS4	POS5
CO1	2	2	3	3	4	1	2	4	2	3	4	3
CO2	2	3	2	2	3	2	1	3	1	3	3	3
CO3	2	3	2	1	2	2	2	2	3	2	3	2
CO4	1	3	1	2	3	3	3	3	2	1	2	1
CO5	1	2	3	3	2	4	1	3	1	2	1	
Avg	1.6	2.6	2.2	2.2	2.8	2.5	1.4	3	1.4	2.2	2.6	2.4

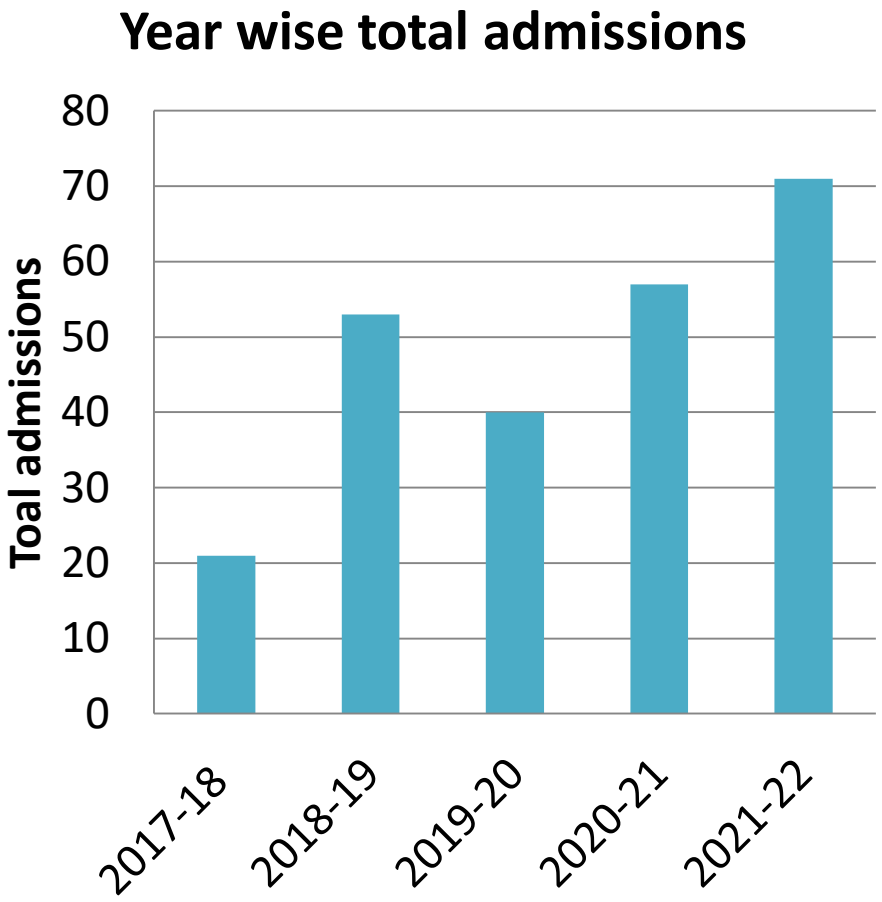
1-Poor 2-Average 3-Good 4 –Excellent

FACILITIES

- ICT enabled Classrooms
- Well equipped laboratory
- **Adequate Computer lab with required software's (Keil, LTspice)**
- **Departmental library with required books**
- **Well designed Teaching Learning Material(TLM)**

ADMISSIONS COMPARISON

Year	Number of Students Admitted
2017-18	21
2018-19	53
2019-20	40
2020-21	57
2021-22	71



RESULTS

Year	Number Appeared	Number Passed	% Pass
2017-18	21	19	95
2018-19	23	23	100
2019-20	20	20	100
2020-21	43	42	98
2021-22	35	32	91

STUDENT PROGRESSION

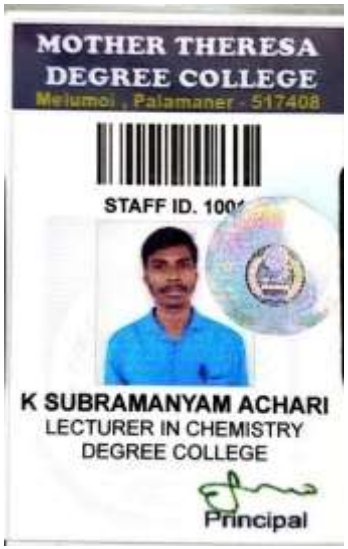
YEAR/ CATEGEORY	2017-18	2018-19	2019-20	2020-21	2021-22
TOTAL NUMBER OF PASSED OUTS	19	23	20	32	42
NUMBER JOINED IN HIGHER EDUCATION	08	06	04	12	09
NUMBER GOT EMPLOYMENT	09	14	12	16	28
TOTAL NUBER OF STUDENTS PROGRESSED	17	20	16	28	37
% OF PROGRESSION	89	87	80	87	88

For Details Please click https://gdcplnr.edu.in/department-education.php?course=11

Student Progression (Employment)

DR PURUSHOTHAM
R&D, Syngene, Banlore.

K Subramanyam
Lecturer in Chemistry



For more Details please click https://bit.ly/3ZetXOy

B. VANI
HDBF, PLMNR

G. BALAJI, BPO
Mphasis, Blore

DEPARTMENTAL ACTIVITIES

ACADEMIC YEAR→ ACTIVITY↓	2017-18	2018-19	2019-20	2020-21	2021-22
Student projects	02	03	05	05	08
Field trips/tour	03	02	02	02	04
Mana tv/LMS lecture videos	01	06	80	90	100
Guest lectures arranged	03	02	01	08	03
Remedial coaching	10 hours	15 hours	16(online)	18 (online) hours	15 hours

COMPUTER/EXPERIMENTAL SKILLS LEARNING









SOLAR ENERGY(Best Practices)

Skill Development

During the Cleaning

After Cleaning

Maintenance
of
College Solar Power Project

For Solar Energy Hands on Experience
Please visit to
https://youtube.com/watch?v=HG6XQwoisEk&feature=share

BEST PRACTICE

ELECTRICAL HOME APPLIANCES

(Skill Development)

Students Regularly attend for Maintenance/Repairs of Electrical Appliance like Fans, Tube lights, R.O water plant etc.

Our Students did Complete wiring for Renovated Seminar Hall

RESEARCH FACILITY

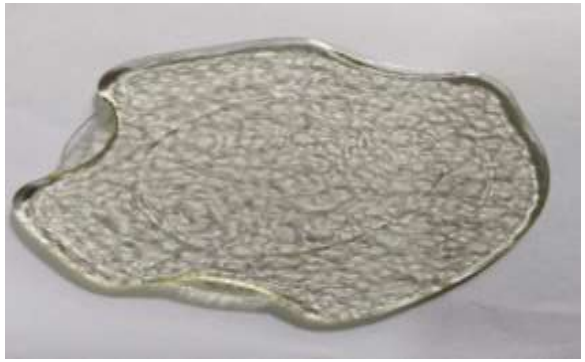
Muffle Furnace
Temperature up to 1700^{oc}

(Glass Samples Preparation)

Hot air oven

Magnetic stirrer with Heater (Nanoparticles Preparation)

REASEARCH FACILITY



Glass Samples

Transition Metals doped Cadmium Sulfide DMS Nano particles

RESEARCH FACILITY

Total Number of Papers Published : 14

Number Submitted for Publication : 03

Number of Papers under Manuscript Preparation : 02

Dr. Babu Publications https://scholar.google.com/citations?user=eUYVQPgAAAAJ
List of publications : https://bit.ly/3FTbujG

STUDENT PROJECTS

STUDENT PROJECTS

WIND TURBINE

SOLAR POND

Project Works

More Details : https://bit.ly/40aHeZz

Field Trips

Visit to Environ Industries Palamaner

Visit to Environ Rathna Biotech Pvt. Ltd Kolamasana palli

STUDENT SUPPORTIVE SERVICES

www.gdcplnr.edu.in

S.No	Name	URL
1	Syllabi	https://bit.ly/3JH1xHb
2	Library E Books	https://bit.ly/40xwR1P
3	ICT Material	https://bit.ly/40bH8kF
4	Old Question Papers	https://bit.ly/40yFARA
5	Study Material	https://bit.ly/3K4fb8D
6	Career Guidance	https://bit.ly/42F99Tl
7	3D LMS	https://msrphysics.teachmint.in/

Experiential Learning

First Hand Knowledge Acquisition

1.Please visit

https://youtu.be/y9fjJ0o7-lg

2.Please click on below link

https://youtube.com/watch?v=HG6XQwoisEk&feature=share

How best we Reach/Monitor

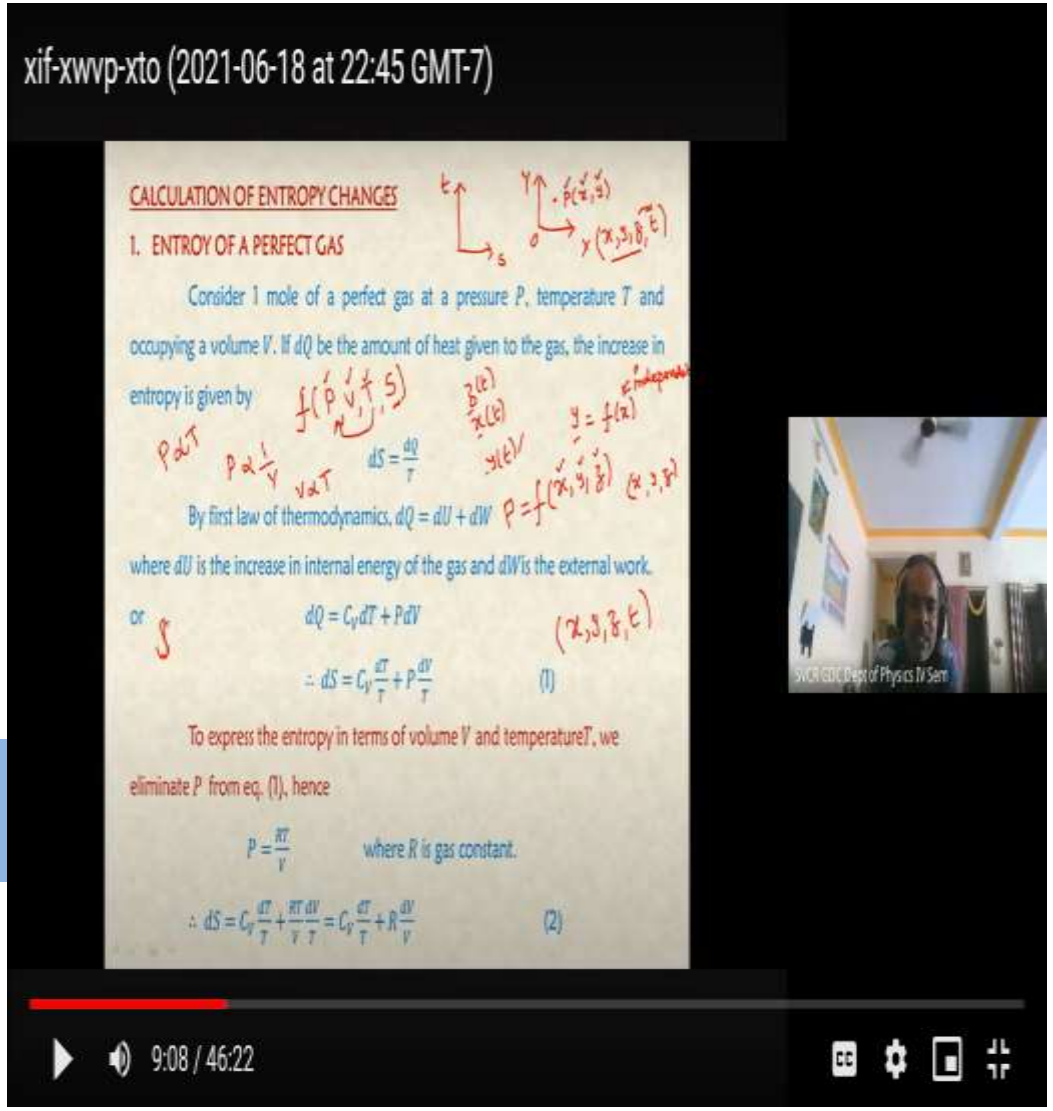
Online Teaching

Online Teaching Videos Link 1 :
https://bit.ly/3JLvmGv

Online Classes Attendance:
https://bit.ly/3TH33h7

Online Exams Question paper link :
https://forms.gle/rjWiwiMDJ3qB5Lbn7

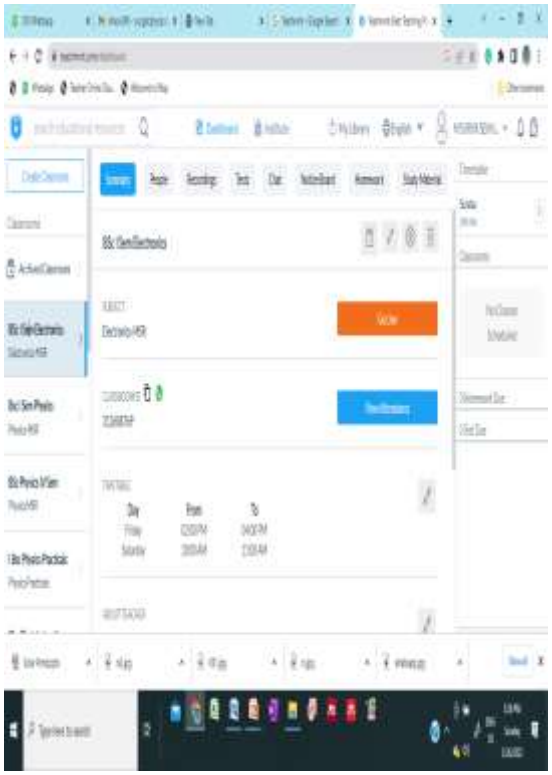
Online Exams Corrected Papers :
https://bit.ly/3FSJo8c



Role of Apps

TLP

Whats app Group



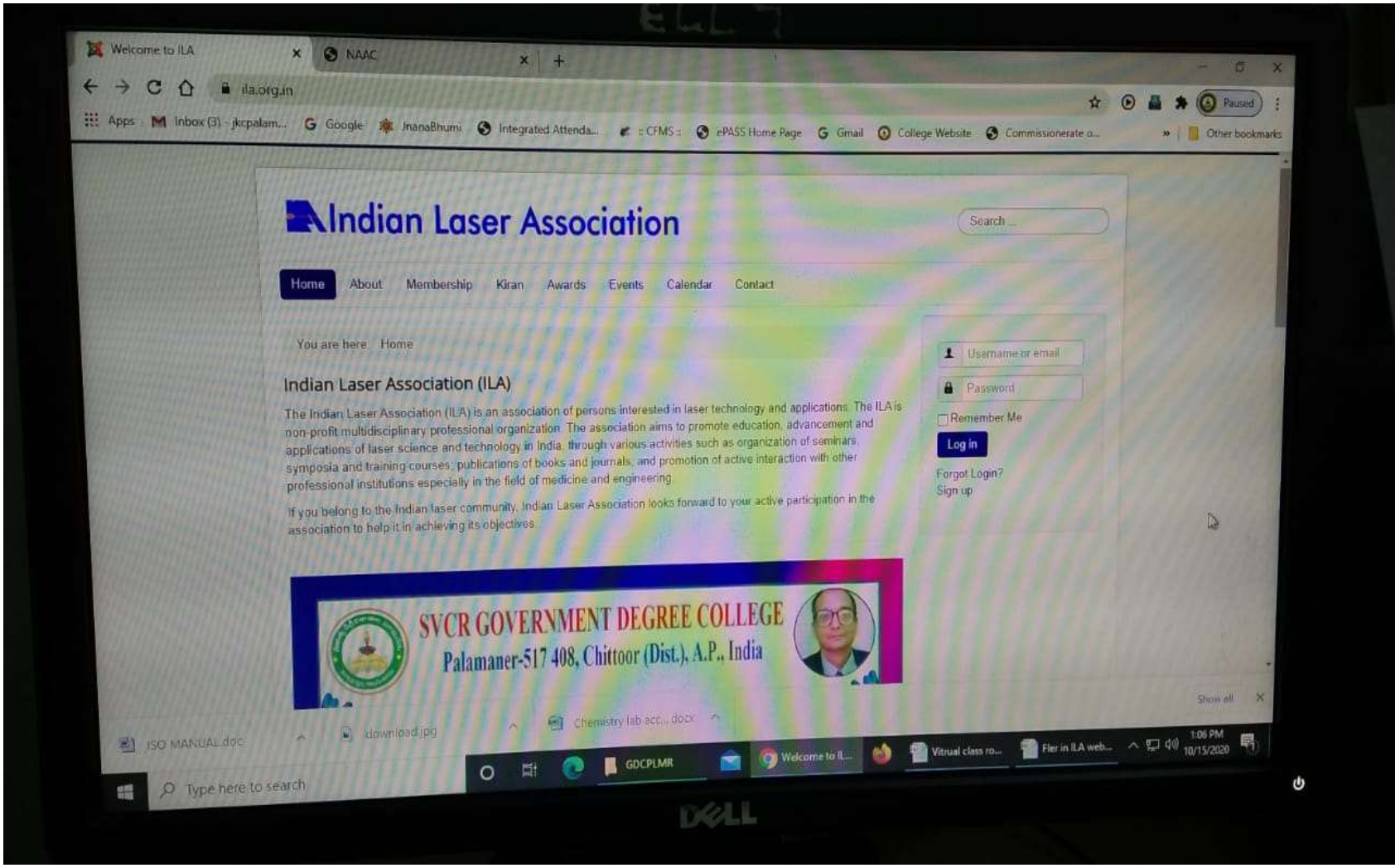
Teach mint app

http://103.39.134.234/cce_spms/

WEBINARS

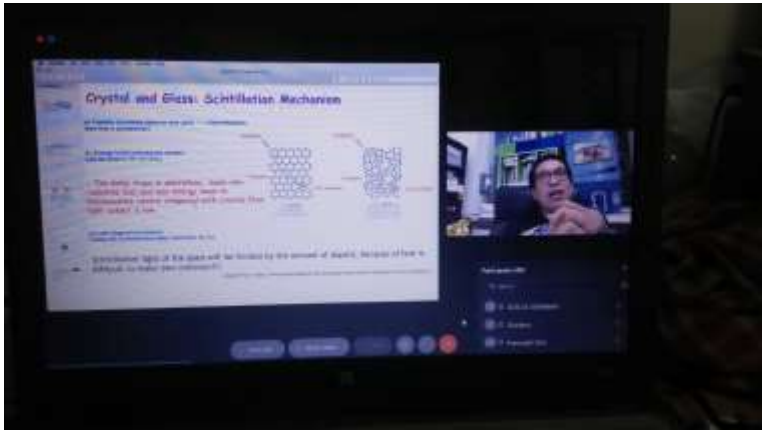
S. No.	Title of the webinar	Duration	National/ international	Date
1	RAMSE-2020	2 day	International	23rd &24th September 2020
2	Role of spectroscopy in Material Science for Engineering applications	1 day	National	17/06/2020
3	*Dr. Dilip Bhawalkar: His Role and Guidance for Development of Optics and Laser Technology in India*	1 day	International	16/10/2020
4	RAMST-2021	1 Day	International	12/06/2021

LASER man DD Bawalkar



INTERNATIONAL WEBINARS

Prof. Tanabe Setsuhisa,
Kyoto University, Kyoto, Japan.



Prof. Luis Carlos,
University of Aveiro, **Portugal**

Prof. Victor Lavin,
University of LA Laguna, **Spain**

Prof. Michael F.Reid,
University of Canterbury, **Newzaeland**

Webinars link

https://drive.google.com/drive/folders/1OUNRp-qkV8gaAMqjbPDUR8lQkAHSR7pO?usp=sharing

https://drive.google.com/drive/folders/1OUNRp-qkV8gaAMqjbPDUR8lQkAHSR7pO?usp=sharing

STUDENTS PARTICIPATION INTERNSHIP

Students working in Internship

Students interacting with Mentor

Our then Principal Dr. P. Babu Showing the Device Assembled by the Students

Students Receiving Certificates from Mentor

For more details visit https://youtu.be/y9fjJ0o7-lg

STUDENTS PARTICIPATION

M. Bhargavi

III BSc MPCs

Participated in

Web development Work Shop in Bengalore

U. Lakshmi Devi

M. Bhargavi

R.Divya

B.Babu

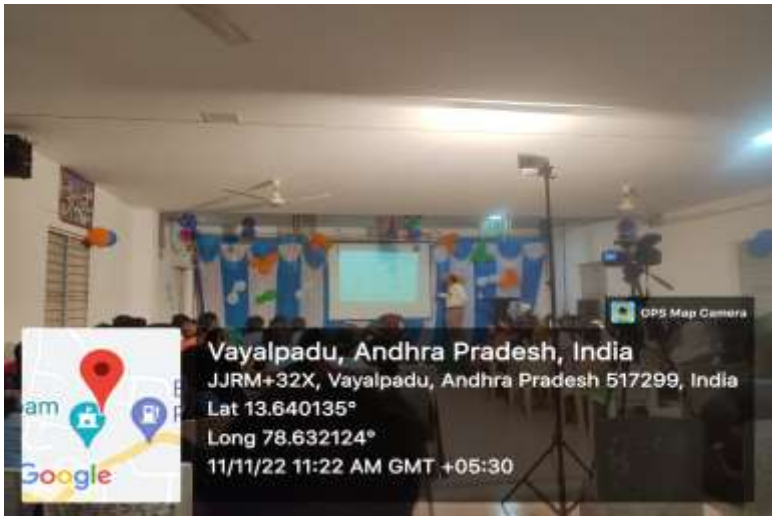
K.Naveen and other 6 Members selected for

Apps Development Programme,

received Free Laptops from Joining Dots Organization

STUDENTS PARTICIPATION

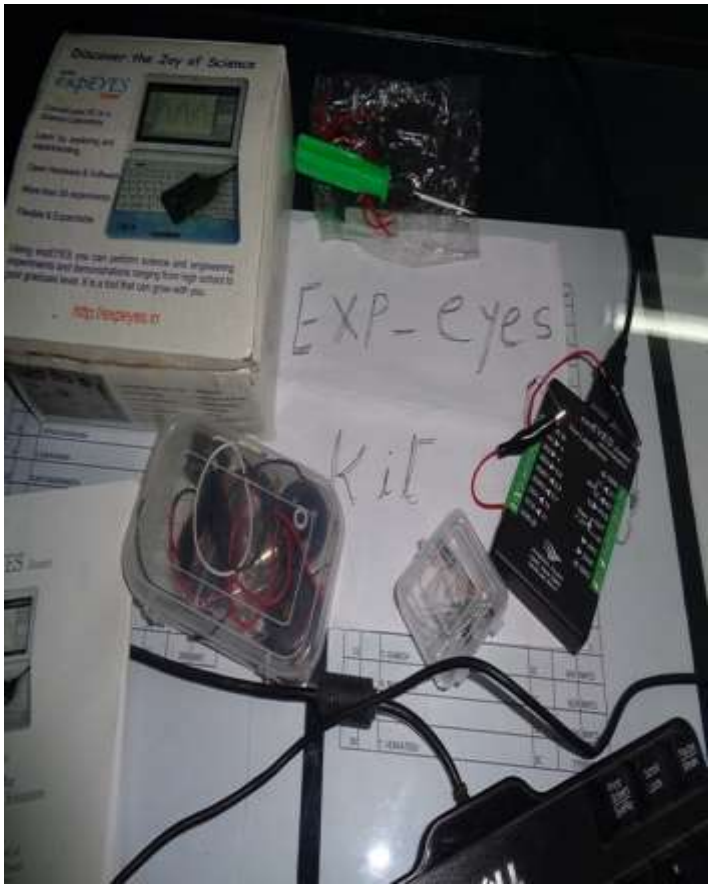
3-Day Science Academy Lecture Work shop on "Recent Advances in Functional Materials" held during 10-12 November 2022 at NTR Degree College Vayalpadu, Annamayya District.A.P.



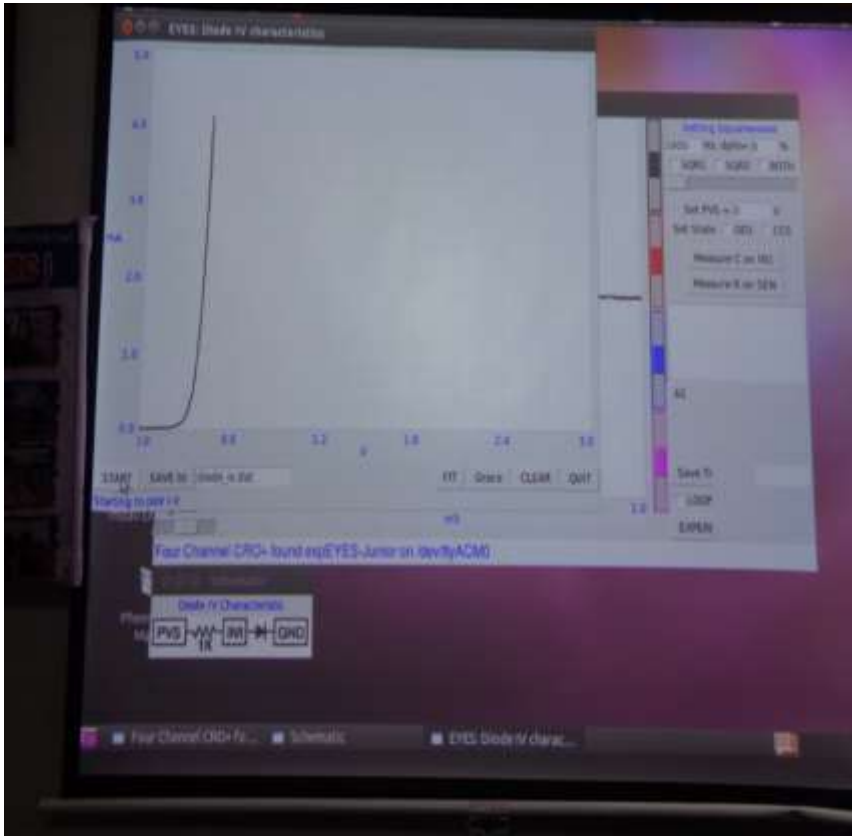
K. Naveen,
B. Babu,
P. Mahalakshmi,
U. Lakshmi Devi and10 more Students
Participated in Work Shop got Certificates

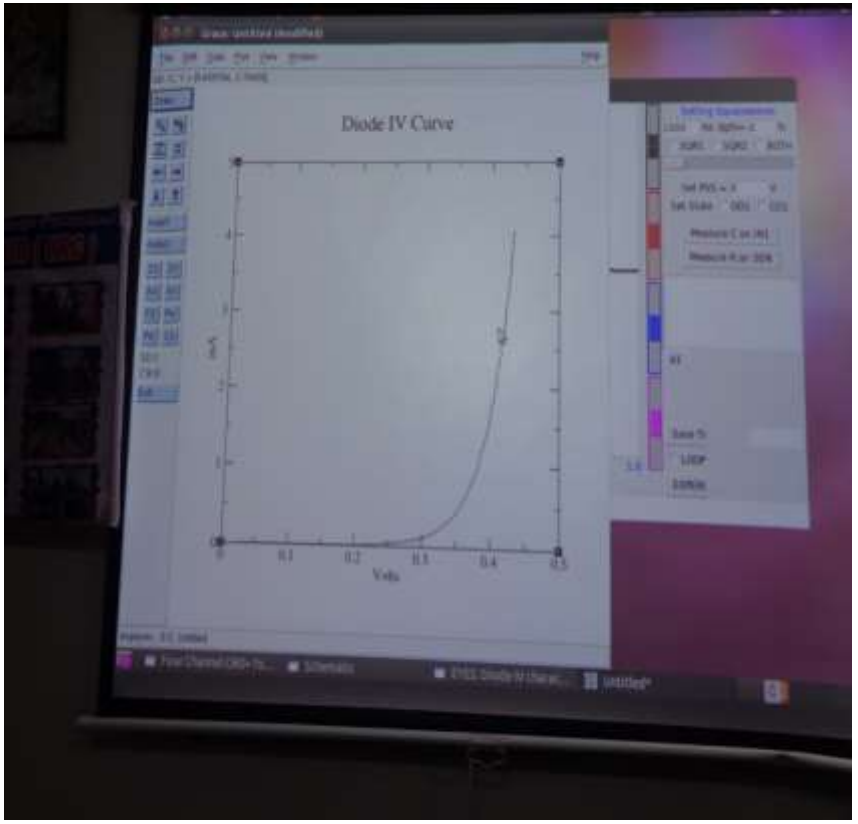
Exp-EYES

- Experiments for young engineers and scientists(Exp-EYES)
- It is useful to visualize more than fifty physics experiments
- We are using this device to explain electrical, electromagnetic and electronics concepts to the students

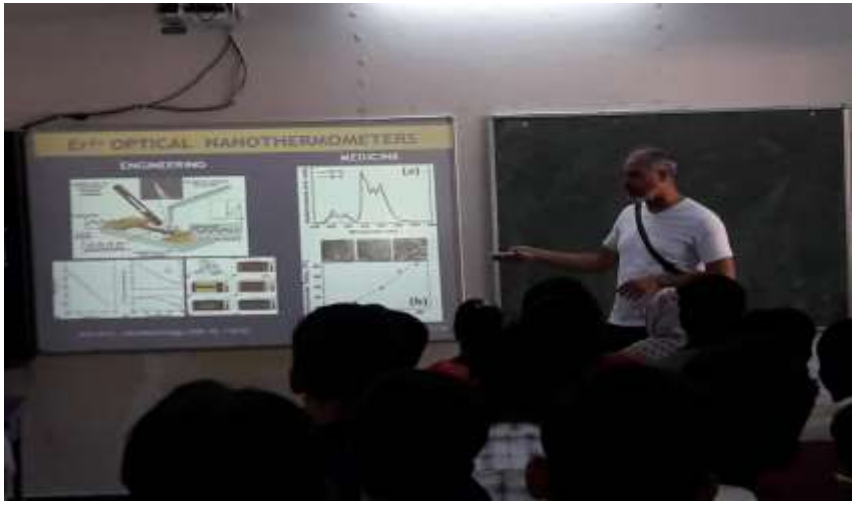


P-N JUNCTION DIODE CHARACTERISTICS THROUGH Exp-EYES





GUEST LECTURES



Prof. Victor Lavin,

University of LA Laguna,

Spain

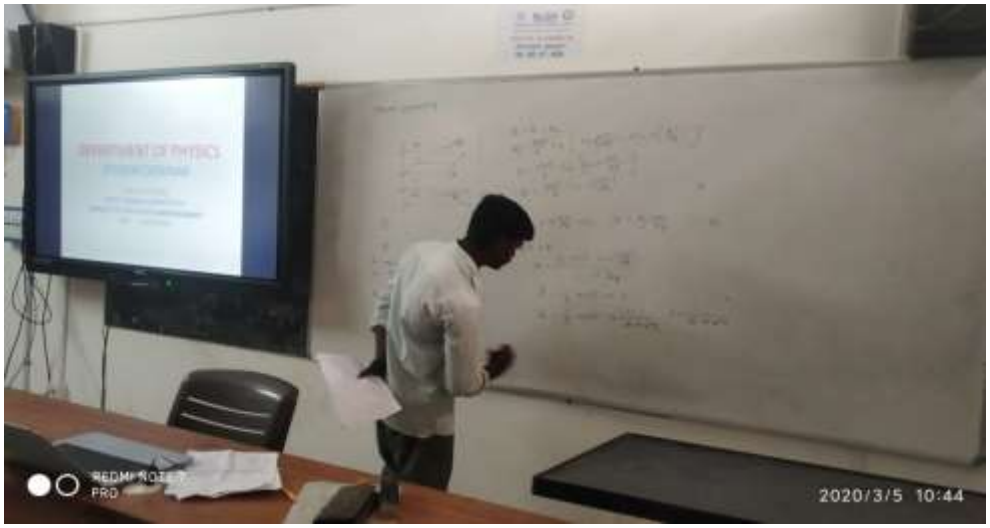
Visited our College in October 2019.

Delivered Lecture on

“Nano materials”,

Motivated the Students and faculty towards Research .

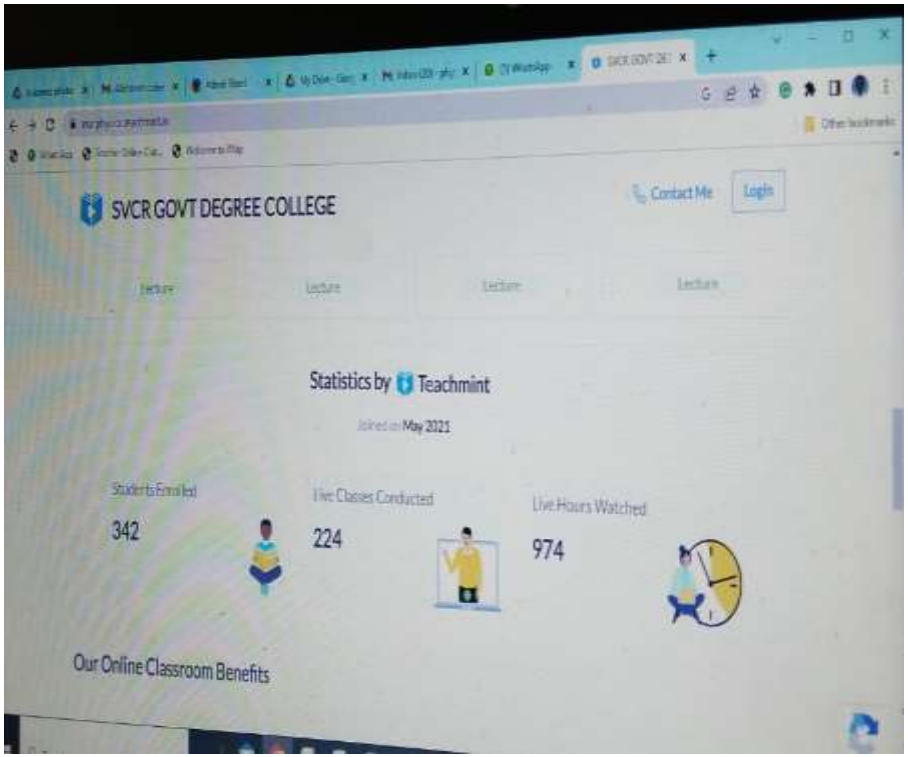
STUDENT SEMINARS

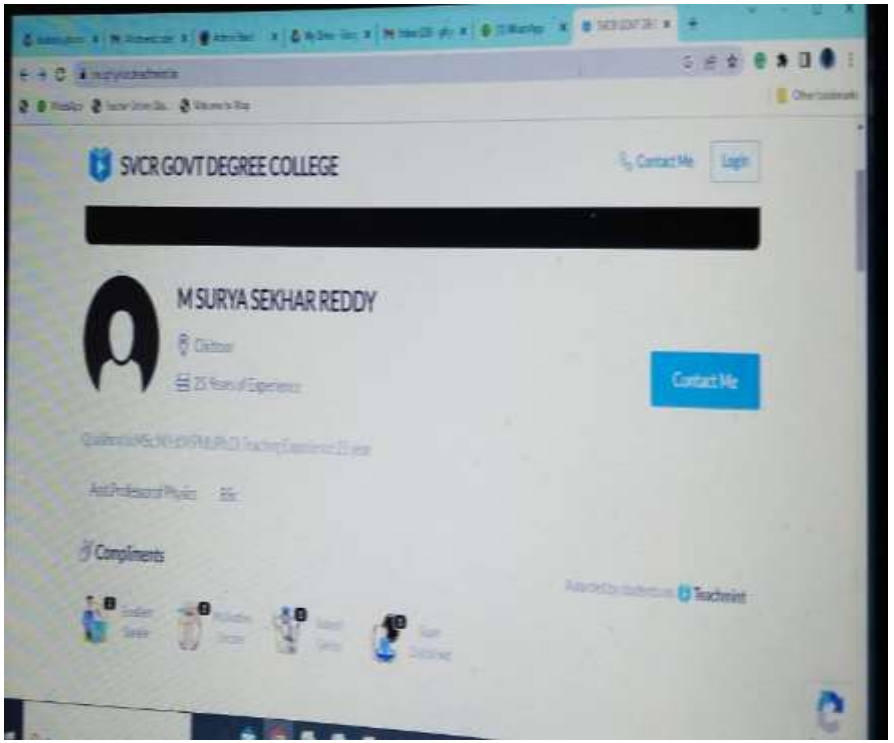


Quiz /Debate photographs

LMS

https://msrphysics.teachmint.in/





Slow and advanced Learners : https://bit.ly/3z6wGyJ

BEST ACHIEVEMENTS

K. Subramanyam Achari

2015-18

APEdCET-2021

Physical Sciences

State 4th Rank

ఏపీ ఎడ్‌సెట్‌-21లో జిల్లాకు చెందిన ఇద్దరు విద్యార్థులు రాష్ట్రస్థాయి ర్యాంకులు సాధించారు. ఫిజికల్ సైన్స్ విభాగంలో పలమనేరు సమీపంలోని ఎంపీ కోటూర్‌కు చెందిన కె.సుబ్రమణ్యం ఆచారి 4వ ర్యాంకు సాధించాడు. సోషల్ స్టడీస్ విభాగంలో మదనపల్లెకు చెందిన కె.రమలేష్ రెడ్డి 7వ ర్యాంకు సాధించాడు.

- న్యూస్‌టుడే, తిరుపతి(ఎస్వీయూ), మదనపల్లె విద్యావిభాగం

ఉపాధ్యాయుడు కావాలని..

పలమనేరు సమీపంలోని ఎంపీ కోటూర్‌కు చెందిన సుబ్రహ్మణ్యం ఆచారిది వ్యవసాయ కుటుంబం. తల్లిదండ్రులు జ్యోతి, గోవిందాచారి. పలమనేరులోని ఓ ప్రైవేటు కళాశాలలో అతను అధ్యాపకుడిగా పనిచేస్తున్నారు. ప్రభుత్వ ఉపాధ్యాయుడు కావాలన్న లక్ష్యంతో ఏపీ ఎడ్‌సెట్‌లో ఫిజికల్ సైన్స్ విభాగంలో పరీక్ష రాశాడు. రాష్ట్రస్థాయిలో నాలుగో ర్యాంకు సాధించాడు. అతని ఆనందానికి అవధులు లేకుండా పోయాయి. ఉపాధ్యాయుడు కావాలన్న తన లక్ష్యంలో మొదటి మెట్టు ఎక్కానని, త్వరలోనే తన ఆకాంక్షను నెరవేర్చుకుంటానని సుబ్రహ్మణ్యం 'న్యూస్‌టుడే'తో పేర్కొన్నారు.

BEST ACHIEVEMENTS

S SALMA

2017-18

Modern Physics

100/100

SRI VENKATESWARA UNIVERSITY, TIRUPATI

PROVISIONAL CERTIFICATE CUM CONSOLIDATED MARKS MEMO

BACHELOR OF SCIENCE

Name: S SALMA

Hallticket: 0316014541

Medium: ENGLISH

Group: MPC

Father: SYED RASOOL

Class Achieved: DISTINCTION

Mother: S FAREEDA

I SEMESTER | II SEMESTER | I YEAR

III SEMESTER | IV SEMESTER | II YEAR

V SEMESTER | VI SEMESTER | III YEAR

AGG. MARKS SECURED: 3325 / 4200

LANGUAGE CGPA: 7.75

AGG. CREDITS SECURED: 158 / 158

FOUNDATION CGPA: 7.46

CGPA SECURED: 7.93

GROUP CGPA: 8.02

BEST ACHIEVEMENTS

G Chithra

III Semester 2021-22

Roll Number	0321014089
NAME	G CHITHRA
MEDIUM	TEL
LSGPA	7.70
GSGPA	9.19
ESGPA	6.73

PAPNAME	SUBNAME	SESSIONALS	MARKS	CREDIT	GRADE	GPOINT	MFLAG
3-01-R20	GENERAL ENGLISH	22	56	3	A	7.80	P
3-05-R20	TELUGU	24	52	3	A	7.60	P
3-07(2)-R20	ENVIRONMENTAL EDUCATION		35	2	B	7.00	P
3-07(4)-R20	PERSONALITY ENHANCEMENT AND		32	2	B	6.40	P
3-08(5)-R20	ENVIRONMENT AUDIT		34	2	B	6.80	P
1-3-112-R20	MATHEMATICS	23	70	5	E	9.30	P
3-3-116-R20	PHYSICS(WM)	25	75	4	O	10.00	P
3-3-116-R20P	PHYSICS(WM) PRACTICAL		48	1	O	9.60	P
3-3-106-R20	CHEMISTRY	25	55	4	A	8.00	P
3-3-106-R20P	CHEMISTRY PRACTICAL		49	1	O	9.80	P

Physics

100/100(10GP)

BEST ACHIEVEMENTS

U Lakshmi Prasanna

IV semester 2021-22

Modern Physics

100/100

(10GP)

Aggregate Details

ROLLNO	0321014061
NAME	U.LIANAPPA GARI LAKSHMI PRASANNA
MEDIUM	ENG
LSGPA	
GSGPA	8.26
ESGPA	

Marks Details

Paper Number	SUBJECTNAME	SESS	MARK	CREDIT	GRADE	GPOINT	MFLAG
1-4-112A-R20	REAL ANALYSIS	24	70	5	E	9.40	P
1-4-112B-R20	LINEAR ALGEBRA	24	51	5	A	7.50	P
3-4-116A-R20	ELECTRICITY, MAGNETISM AND	25	46	4	B	7.10	P
3-4-116A-R2P	ELECTRICITY, MAGNETISM AND		50	1	O	10.00	P
3-4-116B-R20	MODERN PHYSICS	25	75	4	O	10.00	P
3-4-116B-R2P	MODERN PHYSICS PRACTICAL		50	1	O	10.00	P
3-4-108A-R20	OBJECT ORIENTATED PROGRAMMING	25	45	4	B	7.00	P
3-4-108A-R2P	OBJECT ORIENTATED PROGRAMMING		50	1	O	10.00	P
3-4-108B-R20	OPERATING SYSTEMS	25	43	4	B	6.80	P
3-4-108B-R2P	OPERATING SYSTEMS PRACTICAL		49	1	O	9.80	P

MEMORANDUM OF UNDERSTANDING

S.NO.	NAME OF THE INDUSTRY/INSTITUTION	NATURE OF LINKAGE	DATE FROM MOU COME IN TO FORCE
1	Pavan Power Solutions Morum Palamaner	EXCHANGE OF FACULTY SHARING OF FACILITIES SHARING OF KNOWLEDGE	2019-20
2	Rathna biotech Kolamasana palli Palamaner	EXCHANGE OF FACULTY SHARING OF FACILITIES SHARING OF KNOWLEDGE	2019-20
3	Parag Dairy Private limited Krishapuram Palamaner	EXCHANGE OF FACULTY SHARING OF FACILITIES SHARING OF KNOWLEDGE	2020-21
4	Department of Physics SVU Tirupati	EXCHANGE OF FACULTY SHARING OF FACILITIES SHARINGOF KNOWLEDGE	2019-20 (Linkage)

For more Information visit : https://drive.google.com/drive/folders/1S7h77N881s-iGZN8aUlqwIFXjDItsMSX?usp=share_link

INTERACTION WITH ALUMNI

B. Naveen Kumar

Trainee Software Engineer **(Selected through JKC)**
WIPRO Bengalore
Motivational/Counseling Class

Alumni Registration form:
https://forms.gle/NwfsDH1hHTgKFC5L9

248

Whatts app Group members
174

Whattsapp Group:
https://chat.whatsapp.com/CbcUuxSH5Wk1C5dWUO3Vmf

ALUMNI FEED BACK

Alumni feed back about college and Department

a)Dr. Babu Madivala : Scientist from Japan

Click here to view:https://drive.google.com/file/d/128fHfbfB83cHbSgfvRu1e8C40qWtb_9D/view?usp=share_link

b) G S Prakash : Software Engineer

Click here to view : https://drive.google.com/file/d/1uo182-xIhhDFeBlpFLYSVZlwvexnUqtX/view?usp=share_link

c) E.A Aswini : IIT teaching faculty

Click here to view : https://drive.google.com/file/d/1cSt-E-6oTW_y_4wUEae2Xrh3U3G-Bfi9/view?usp=share_link

d) S Afrid basha: Faculty in Degree College

Click here to view : https://drive.google.com/file/d/1y-O0l-m7nNXCuDYbWNG_VyykvJjacx2B/view?usp=share_link

e) R. Raja sekhar Reddy : Persuing PG in MSc Physics

Click here to view *:* https://drive.google.com/file/d/1q1xPdL7G7WsEyrpevEmHwX3ErybU3wr_/view?usp=share_link

PARENT TEACHER RELATION SHIP

SUPPORT OF PARENTS

Smt.Jyothi
&
Sri K Govinda Achari

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B.Sc. 2014-17

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Sri Chaithanya IIT PU college
Bengalore
B.Sc . 2015-18
State EdCET 4th Ranker

K. Ammulu
Supervisor Q.C
Sri City, Tirupati
B.Sc. 2016-19

K. Kala
III Sem
B.Sc. (2021-24)

Parents Contact details : https://bit.ly/3LVybYt

THANK YOU