GOVERNMENT DEGREE COLLEGE,
JAMMALAMADUGU
(Reaccredited by NAAC With ' B ' Grade)
(Affiliated to Yogi Vemana University, Kadapa)
Ramireddy Palli Road, Y.S.R Kadapa District, Andhra Pradesh 516 434

GOVERNMENT DEGREE COLLEGE, JAMMALAMADUGU

EXTENSION LECTURE REPORT

on

"OSCILLOSCOPE"

ORGANIZED BY

Internal Quality Assurance Cell,

GDC, YERRAGUNTLA

Date: 05-10-2026

VENUE: GOVT. DEGREE COLLEGE YERRAGUNTLA

YSR KADAPA (DIST)

From
Dr. M. Ravi Kumar, M.Sc.Ph.D.,
Principal,
Govt Degree College,
Yerraguntla
YSR Kadapa Dist

To
The Principal,
Govt Degree College
Jammalamadugu
YSR Kadapa Dist

Rc No.32 A /2026 Date: 01-10-2026

Sir,

Sub:- Govt Degree College, Yerraguntla, YSR Kadapa Dt -Arrangement of Guest Lecturer for the subjects Telugu, Physics and Botany Regarding.

***

It is to bring to your notice the following requirement for your favorable action.

As the Lecturers for the five subjects, Physics, Commerce, History, Botany, Economics and Telugu are deputed to Junior Colleges on "OD Basis" we have no scope to appoint contract / guest faculty to these subjects.

In this regard keeping the welfare of the stake holders, I would like to seek your support and cooperation in arranging Guest Lecturer for Telugu, Physics and Botany subjects; two days for week to prepare the students for the semester and examinations

Thanking you sir for your extension of services and cooperation.

1/10/26

PRINCIPAL
GOVT. DEGREE COLLEGE
YERRAGUNTLA - 516 309.
Y.S.R. Kadapa (Dist.) A.P.

From
The Principal,
Govt Degree College.
Jammalamadugu,
YSR Kadapa.

To
The Principal,
Govt. Degree College, Yerraguntla,
YSR Kadapa.

Rc.No.73/Spl/Guest Lecture/2026-27 Dated03.10.2026

Sir,

Sub:- Government Degree College, Jammalamadugu- Deputation of certain lecturers to Engage Guest Lecture– Regarding.

Ref. Letter from the Principal, GDC,Yerraguntla. Dt.01.10.2026 vide Rc.No.32. A/Dated01.10.2026

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As in the reference cited, the following faculty members are deputed to engage Guest Lecture in following dates at GDC, Yerraguntla. Further, The Principal, GDC, Yeraaguntla are requested to issue attendance certificate as per schedule mentioned in the table.

S.NO	NAME OF THE FACULTY	SUBJECT	RELIEVING DATE
1	Dr.S.C. SANJEEVA REDDY	TELUGU	03.10.2026
2	SRI.C. BALASUBRAMANYAM	PHYSICS	05.102026
3	Dr.P.SUBBARAMIREDDY	BOTANY	07.10.2026

Thanking you Sir

Yours faithfully

PRINCIPAL
Government Degree College
JAMMALAMADUGU.
3/10/2026

Copy to

1.Dr. SC Sanjeeva Reddy, Lecturer in Telugu

2.Sri. C.Balasubramanyam , Lecturer in Physics

3.Dr. P.Subbarami Reddy, Lecturer in Botany

Date:05.10.2026

ATTENDANCE

A Guest Lecture on **"Oscilloscope"** was delivered to the students by **Sri. C. Balasubramanyam, Contract Lecturer in Physics, Government Degree College, Jammalamadugu, Kadapa District**, on **05-10-2026** at **Government Degree College, Yerraguntla, Kadapa District.**

5/10/26

PRINCIPAL
Principal
GOVT. DEGREE COLLEGE
YERRAGUNTLA - 516 309.
Y.S.R. Kadapa (Dist.) A.P.

Profile of the Speakers/Resource Persons

Sri. C. BALASUBRAMANYAM

Current Position: Lecturer, Department of Physics,

Government Degree College, Jammalamadugu

YSR Kadapa (Dist), Andhra Pradesh, India

Mobile: (+91)-9705349068

E-mail: balasubramanyam18@gmail.com

Academic Records:

i) M.Sc. (S.K University-61%)

ii) M. Phil (Periyar University, SALEM)

iii) Qualified APSET in 2018

Teaching Experience: (24 Years)

SYNOPSIS

OSCILLOSCOPE

The **Cathode Ray Oscilloscope (CRO)** is an electronic instrument used to visually display and measure electrical signal waveforms.

Its main sections are the **Cathode Ray Tube (CRT), time-base circuit, power supply, and vertical and horizontal amplifiers**.

The CRT consists of an **electron gun, deflection system, fluorescent screen, and glass envelope**. The electron gun produces, accelerates, and focuses the electron beam, while the vertical and horizontal deflection plates control the position of the beam on the screen. The fluorescent screen converts the electron beam into a visible light spot.

The **time-base circuit** generates a saw-tooth voltage that moves the electron beam horizontally across the screen at a uniform rate, providing the time axis. The input signal is applied to the **vertical amplifier** and produces vertical deflection proportional to the instantaneous voltage of the signal. The horizontal amplifier applies the time-base voltage to the X-plates. Thus, the combined horizontal sweep and vertical deflection produce the waveform of the input signal on the screen.

The **front panel controls of a CRO** are mainly used to adjust the brightness, focus, vertical position, horizontal position, voltage scale, time scale, and triggering of the displayed waveform. Important controls include **Intensity, Focus, Vertical Position, Horizontal Position, Volts/Division, Time/Division, AC/DC/GND coupling, Trigger Level, Trigger Source, and Sweep controls**. These controls enable the user to obtain a clear and stable waveform and measure its **amplitude, time period, frequency, phase difference, and other signal characteristics**.

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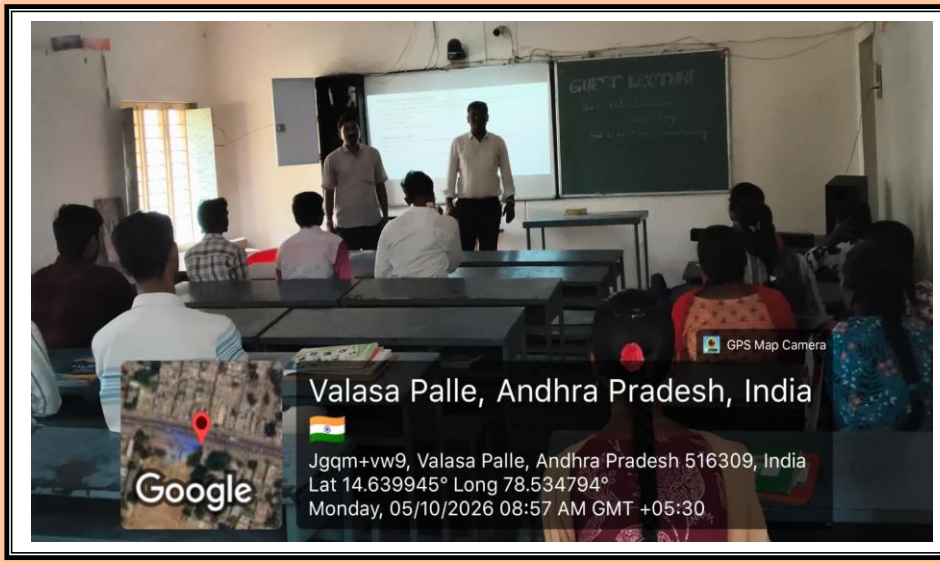
INTERNAL QUALITY ASSURANCE CELL

ACADEMIC YEAR: 2026-27

REPORT ON EXTENSION LECTURE

Name of the Program	EXTENSION LECTURE
Title	OSCILLOSCOPE
Date	05.10.2026
Mode (Online/Offline)	Offline
Venue	Govt. Degree College, Yerraguntla
Department	IQAC & PHYSICS
Objective	To provide students with a clear understanding of the construction, working principle, controls, and applications of an oscilloscope.
Resource Person Details	Sri. C. BALASUBRAMANYAM, Lecturer in Physics GDC, JAMMALAMADUGU, Kadapa (Dist.)
Beneficiaries	All the Physics Students
No. of Beneficiaries	18
Outcome	**Outcome:** Students will be able to understand the operation of an oscilloscope and interpret and measure basic electrical waveforms and signal parameters.
Feedback	Good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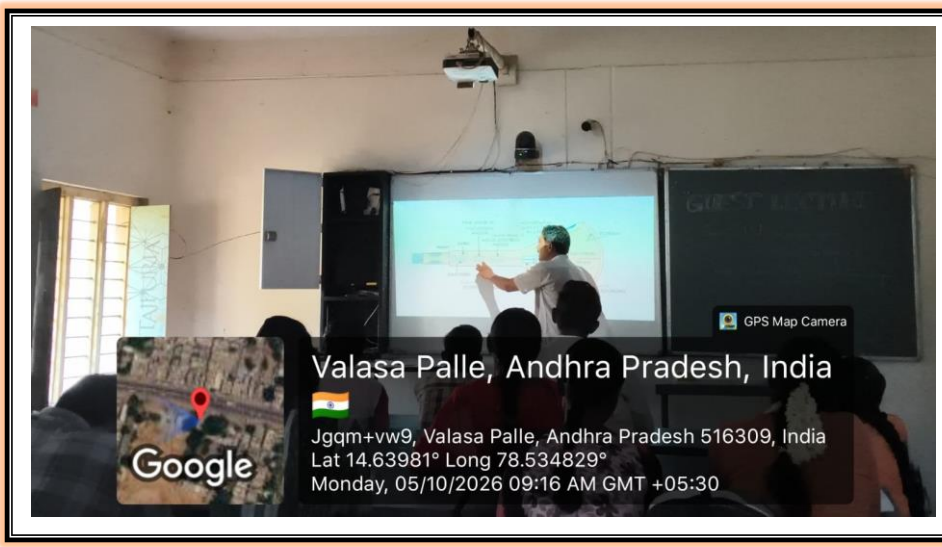
Google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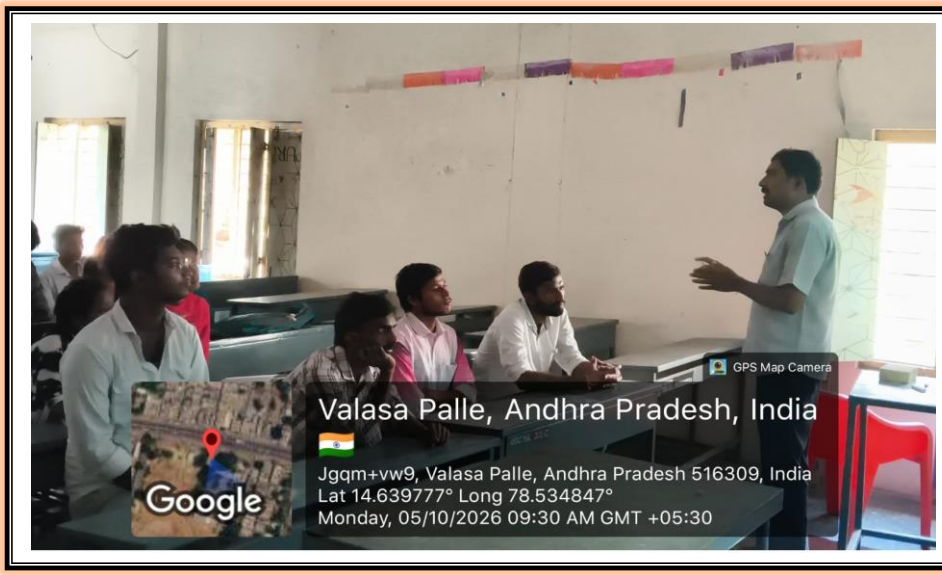
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Jgqm+vw9, Valasa Palle, Andhra Pradesh 516309, India
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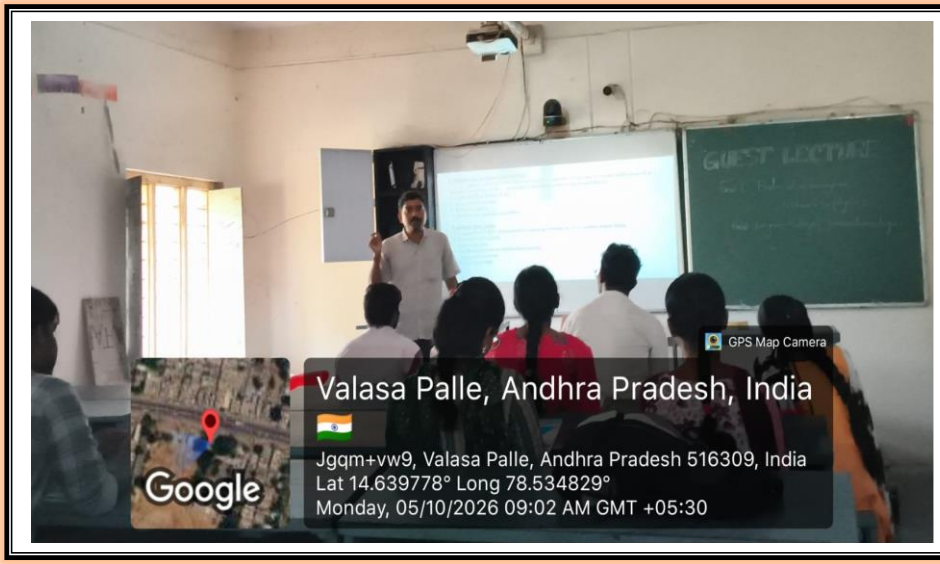
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Jgqm+vw9, Valasa Palle, Andhra Pradesh 516309, India
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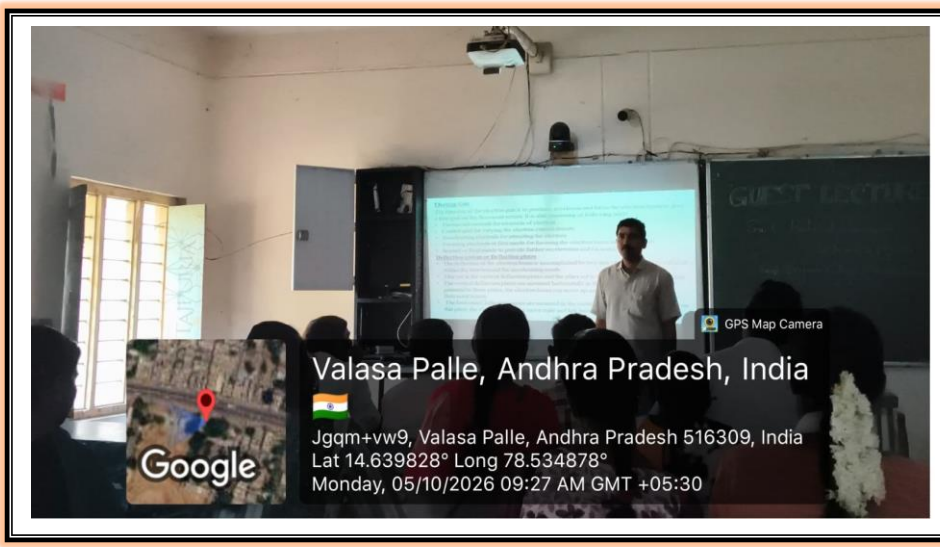
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Jgqm+vw9, Valasa Palle, Andhra Pradesh 516309, India
Lat 14.639828° Long 78.534878°
Monday, 05/10/2026 09:27 AM GMT +05:30
Google

Date: 05.10.2026

CERTIFICATE OF APPRECIATION

This is to certify that **Sri. C. Balasubramanyam,** Contract Lecturer in Physics, Government Degree College, Jammalamadugu, Kadapa District, has delivered a **Guest Lecture on "Oscilloscope"** to the students at **Government Degree College, Yerraguntla, Kadapa District,** on **05.10.2026**. His expertise and valuable insights greatly enriched the session and benefited the students.

5/10/26

PRINCIPAL
In-charge
GOVT. DEGREE COLLEGE
YERRAGUNTLA - 516 309.
Y.S.R. Kadapa (Dist.) A.P.

FEEDBACK

S.No	Name of the Student	Department	Feedback/Suggestion	Signature
1)	K. Venkateswarulu	Physics	Excellent	K. Venkateswarulu
2	M Babu	physics	Excellent	M. Babu
3	R. Anil Bhargav Reddy	Physics	Good	R ABR
4	R. shyam	Physics	Good	R. shyam
5	D. santosh	Physics	Good	D. Santosh
6	shanthi raj	Physics	Good	shanthi raj
7	K. saraswathi	physics	Good	K. saraswathi
8	M. Bala chandrika	Physics	Better	M. Balachandrika
9	P. vishnusree	physics	Very Good	P. vishnu sree
10	K. Mounika	Physics	Good	K. Mounika
11	N. Ankitha	Physics	Excellent	N. Ankitha
12	Mohan yadav	Physics	Good	MO Mohan yadav
13.	K Naga anand kumar	physics	Good	K. Anand Kumar
14.	S. m. Yooq	Physics	excellent	[illegible]
15.	V. Geetha	physics	Good	V. Geetha