V.K.V GOVERNMENT DEGREE COLLEGE, KOTHAPETA

(Accredited by NAAC "B" Grade)

(An ISO 9001:2015 Certified College by HYM International Certifications Pvt. Ltd.)

PHYSICS DEPARTMENT PROFILE





About the Department.

- The Department of Physics started B.Sc MPC (TM) programme in the year 1985-86.
- In the year 2005-06 a self-finance group MPCs was added to the exiting one.
- Now the Department of Physics is working with one regular Faculty and one Guest faculty.
- The faculty with high Qualification & experience like M.Ed,
 MPhil, NET and Ph.D were worked in the department.
- For the last 35 years it has been serving its best to the students of Kothapeta and its surroundings.
- Earlier this college was affiliated to Andhra University,
 Visakhapatnam. Now it is affiliated to Adikavi Nannaya
 University, Rajahmundry.
- The Department having well equipped class rooms\ cum laboratory.

TEACHING FACULTY WORKED IN DEPARTMENT

S. No.	Name of the Faculty	Year of Joining in the College	Year of Leaving the College	Photo	Profile
1.	B. Vishnu Murthy	2017	Dec 2021		Click here
2.	A. Simhadri	2017	Oct 2021		Click here
3.	B. Naresh				Click here

THE PRESENT TEACHING FACULTY:

S. No.	Name of the Faculty	Date of Joining in the Service	Year of Joining in the College	Photo	Profile
1.	Dr. K. Ankama Rao M.Sc., M.Phil., Ph.D	14-03-1997	11-10-2021		Click here
2.	Smt K. Sai Lakshmi M.Sc., BEd	-	07-04-2022		Click here

THE PRESENT NON -TEACHING STAFF

S. No.	Name of the Faculty	Date of Joining in the Service	Year of Joining in the College	Photo
1.	Sri A. Samuel Store Keeper	03-08-1992	04-10-2021	
2.	Sri. S. Vinayaka Rao Record Assistant	08-04-1994	09-10-2021	

VISION

To deliver innovative and responsive education with high quality and motivate the students to gain advanced skills which helps the society.

MISSION

- To learn both practical and theoretical physics with applied capabilities.
- To improve analytical, creative thinking among the students.
- To motivate the students being responsible to the need of the society.
- To encourage the students towards the participative learning.
- To apply the practical knowledge in our daily life.

Profile of the faculty

1. Dr. K. Ankama Rao

- Delivered guest lecturers in various colleges.
- Acted as Academic Auditor for various colleges as per CCE orders
- National Seminar/ webinar organized.
- Head, Department of Physics, V.S.R & N.V.R College, Tenali (Autonomous), A.P.
 from 12-12-2012 to 11-09-2021.
- Convener for Examination Committee, V.S.R & N.V.R College, Tenali (Autonomous),
 A.P. from 2012-2021.
- SIP Coordinator 2019-2021
- APOSS Book editor
- IQAC Member and convener for Criteria IV
- IQAC Coordinator, VKV GDC, Kothapeta
- BOS University Nominee for Physics of SVKP & Dr K.S. Raju Arts and Science College, Penugonda
- AKNU BOS member as subject expert in physics

2. Smt. K. Sai Lakshmi

- Delivered guest lecturers in various colleges.
- Acted as member in internal Audit.

CURRICULAR ASPECTS

- The Affiliated University (AKNU) syllabus is strictly implemented.
- Feedback is taken from the students.
- In general, the syllabus is revised periodically by the APSHE and Affiliated University.
- Corresponding with University Board of Studies about the Syllabus.

Teaching, Learning and Evaluation

- Bridge courses are arranged for the needy basing on the post admission analysis.
- Remedial coaching arranged for academically backward students.
- In addition to Lecture method, Interactive methods, Student Seminars, Group Discussions Quiz are arranged for effective learning.
- Teaching aids such as models, ICT based learning using LCD Projectors are used.

DEPARTMENT OF PHYSICS

PROGRAMMES OFFERED

S.No	PROGRAMME NAME	NAME OF THE COMBINATIION	MEDIUM
1	B.Sc. MPC	MATHS PHYSICS CHEMISTRY	ENGLISH
2	B.Sc. MPCs	MATHS PHYSICS COMPUTER SCIENCE	ENGLISH
3	B.Sc.	Physics (minor)	ENGLISH

STUDENTS PURSUING B.Sc. PHYSICS & PHY(Minor) DURING THE ACADEMIC YEAR 2024-2025

Group	First Year	Second Year	Third Year	Total
MPC	05			05
MPCs			09	09
Physics	17	09		26
(Minor)				

Infrastructure and Learning Resources

- Fully equipped laboratories and Smart Boards in Class Rooms.
- Collection of Reference books in departmental library.
- Teachers prepared PowerPoint Presentations.

PHYSICS LABORATORY



PHYSICS DEPARTMENT

EQUIPMENT







Department of Physics having MOU with the following Organizations

- Government Degree college, Ravulapalem
- SVKP& Dr K.S.Raju Arts and Science College(A), Penugonda

MOU Activities

S. No.	Name of the Guest and address	Name of the Topic	Date	Number of Students attended
	20)22-2023		
1.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Lasers	15-09-2022	31
2	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Multistage Rocket	21-02-2023	15
	20	23-2024		
1.	Sri S. Srinivasa Rao Lecturer in Physics, SVKP & Dr KS Raju Arts and Science College, Penugonda	Nuclear Physics	29-03-2022	13
2.	Sri S. Srinivasa Rao Lecturer in Physics, SVKP & Dr KS Raju Arts and Science College, Penugonda	Renewable energy	28-04-2022	24
3.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Interference of light	12-07-2022	27
4.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Alternating Currents	25-08-2022	23
		2024-2025		
1.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Industry and Renewable Epicentre	01-10-2024	52

Department of Physics Result Analysis

RESULTS 2022-23

S.No	Year	SEM	Paper	Appeared	Passed	% of pass
1	I	I	I	17	10	58.8
2	I	I	SDC	16	14	81
3	I	II	II	14	11	78.5
4	II	III	III	34	17	50
	II	IV	IVA	31	07	23
5			IVB	31	16	51.6
	777	₹7	VI C	39	31	80
6	III	\mathbf{V}	VII C	39	34	87
7	III	VI	Internship	38	38	100

RESULTS 2023-24

	ODD SEMESTR								
S.No	Year	SEM	Paper	Appeared	Passed	% of pass			
1	I	I	I	16	14	87.5			
2	I	I	II	16	14	87.5			
3	II	III	III	14	13	92.8			
4	TTT	V	VI C	30	22	73.4			
4	4 III		VII C	28	24	85.7			
			EVEN SE	MESTR					
S.No	Year	SEM	Paper	Appeared	Passed	% of pass			
1	I	II	II	9	4	44.4			
2	I	II	SDC	9	9	100			
2	**	IV	IV A	14	14	100			
3	3 II		IV B	14	14	100			
4	III	VI	6 month Internship	12	12	100			

DEPARTMENT ACTIVITIES

Guest Lecturers Arranged

S. No.	Name of the Guest and address	Name of the Topic	Date	Number of Students attended						
	2022-2023									
1.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Lasers	15-09-2022	31						
2	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Multistage Rocket	21-02-2023	15						
3.	Sri B. Adinarayana Murthy, Lecturer in Physics, Govt Degree College, Razol	Physics in daily life	25-03-2023	14						
4.	Sri K. Suresh Kumar Lecturer in Physics	Diffraction of Light	26-07-2023	28						
		2023-2024								
1.	Sri S. Srinivasa Rao Lecturer in Physics, SVKP & Dr KS Raju Arts and Science College, Penugonda	Nuclear Physics		13						
2.	Sri S. Srinivasa Rao Lecturer in Physics, SVKP & Dr KS Raju Arts and Science College, Penugonda	Renewable energy		24						
3.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Interference of light		27						
4.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Alternating Currents		23						

S. No.	Name of the Guest and address	Name of the Topic	Date	Number of Students attended					
	2024-2025								
1.	Sri Ch. S. V. V. N. Satyamurthy Lecturer in Physics, Government Degree College, Ravulapalem	Industry and Renewable Epicentre	01-10-2024	52					

Internships 2022-23

S.No	Project	No.of students alloted	Name of the project	Duration	Name of the Industry	No of students completed
1	CSP	14+13=27	Access to safe water drinking, Water pollution	One month	Students local area	27
2	Short term internship	13		2 month	Lakshmi Aluminium Industry, Kothapeta	13
3	Semester term internship	04+06		6 month	Rama and Royal PVC industry, Kothapeta	10

2023-24

S.No	Project	No.of students alloted	Name of the project	Duration	Name of the Industry	No of students completed
1	CSP (6-5-2023 to 5-6-2023)	08	Access to safe water drinking, Water pollution	One month	Students local area	08
2	Short term internship (6-5-2023 to 4-7-2023)	09		2 months	Glossary Soft Tech Pvt. Ltd.	09
3	Semester term internship (12-2-2024 to 31-5-2024)	05 (MPC) + 07 (MPCs)		6 months	Rama and Royal PVC industry, Kothapeta + Sri Lakshmi Aluminum Industry Kothapeta	04 + 07

2024-25

S.No	Project	No.of students alloted	Name of the project	Duration	Name of the Industry	No of students completed
1	CSP					
2	Short term internship					
3	Semester term internship	05		6 months	CODENEKSA PVT. LTD., KAKINADA	05

Important Days Observed

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S. No.	Name of the Guest and	Day Celebrated	Date	No. of Students	
	address			attended	
	2	022-2023			
1.	Dr K. Suresh.				
	Lecturer in Physics	Energy	16-12-2022	37	
	Govt. Arts College (A),	Conservation			
	Rajamahendravaram	week			
2	Chief Guest: Sri B. Vishnu Murthy, Rtd Principal (FAC),	National	28-02-2023	54	
	VKV GDC, Kothapeta	Science Day	26-02-2023	54	
	Guest of Honor: Dr. B. Ram				
	Prasad, Dt. Coordinator,				
	Jana Vignana Vedika				
	2	023-2024			
1.		Energy			
	Lecturer in Physics Govt. Degree College, Tuni	Conservation week	18-12-2023	21	
2.	Sri B. Seshagiri Rao,	Week			
		National	28-02-2024	55	
	School Asst. Science, ZPH	Science Day			
	School, Vanapalli				
	2	024-2025			
1.	Sri. N. Satyanarayana	National		_	
	HM, ZPPGH School, Kothapeta	Science Day	28-02-2025	48	
Rottiapeta					
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Best Practice of the Department

S. No.	Name of the Activity	Name of the	Date	Number of
		Organization		Students
				Participated
		2022-2023		
1.	School to college			
	practical orientation	Priyadarsini School	17-11-2022	34
	Physics Practical	students,		
	Awareness programme	Kothapeta		
	to the high School			
2	students Science exhibition visit	Girls High School		
	Awareness programme	students,	13-12-2022	28
	to the students	Kothapeta	13-12-2022	20
		2023-2024		
1.	School to college	Girls High School		
	practical orientation	Kothapeta	10-03-2022	26
	Physics Practical			
	Awareness programme			
	to the high School			
	students			
2024-2025				
1.	Save energy and save			
	money			

Industrial Tour

S. No.	Name of the Organization and address	Date	Number of Students participated		
	20	22-2023			
1.	"SRI LAKSHMI ALUMINIUM INSUSTRY" Kothapeta	17-08-2022	24		
	20	23-2024			
2.	"RAMA & ROYAL PVC COMPANY" Kothapeta	14-03-2024	14		
2024-2025					
3.	"SRI LAKSHMI ALUMINIUM INSUSTRY" Kothapeta	01-03-2025	08		

Certificate Courses offered

S. No.	Name of the Course	Duration of the Course	Number of		
			Students		
			Completed		
	202	22-2023			
1.	Basic Electrical Appliances	01 April 2023 to	20		
		30 April 2023			
	202	23-2024			
1.	Basic Quantum Mechanics	18 January 2022 to			
		04 March 2022	20		
	2024-2025				
1.	Electrical Winding	05 February 2025 to			
		04 March 2025	09		

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S. No.	Name of the School	Name of the activity	Date	Number of
				Students
				participated
		2022-2023		
1.	Priyadarsini School, Kothapeta	Orientation to High Students on Physics Practicals	17-11-2022	98
		2023-2024		
2.	Govt. Jr College, Kothapeta	Orientation to Jr college Students on Physics Practicals	24-02-2024	52
2024-2025				
3.	ZPPH School, Kothapeta	Orientation to High Students on Physics Practicals	28-02-2025	49