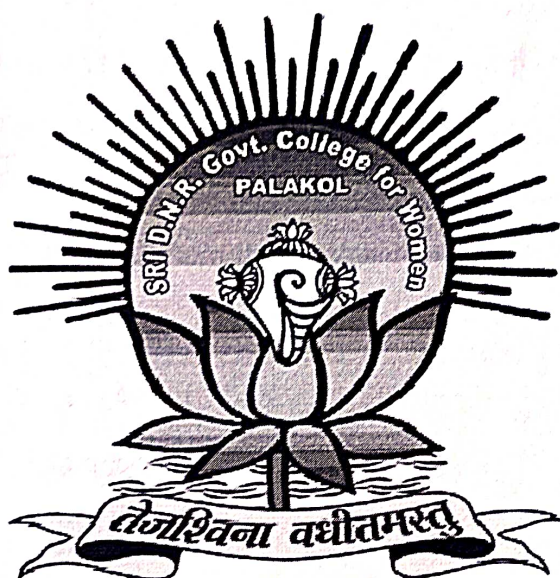


SRI DNR GOVT. DEGREE COLLEGE FOR WOMEN

DEPARTMENT OF PHYSICS

2



PROFILE OF PHYSICS DEPARTMENT

DEPARTMENTAL PROFILE

PART-A

HISTORY OF THE PHYSICS DEPARTMENT

Sri.D.N.R. Govt. Degree College for women, Palakol was established in the year 1982 with B.Com and B.A (with history, economics and politics combination) to cater the needs of the women in and around palakol.

Later B.Sc, course was introduced in the year 2001 with Mathematics, physics and computer science combination as self finance course. Thus physics depart was established in the year 2001.In 2006-2007 introduced B.Sc group with mathematics, physics and chemistry combination. The following staff worked as faculty members in the department of physics

1. Sri K. Narasimha Rao	2001-2002
2. Smt.NVRD Padma Latha	2002-2003
3. Sri.R.S. Sairam	2003-2004
4. Kum.M.L.k Prasanna	2004-2005
5. Sri L.Satyanarayana Murthy	2005-2007
6. Sri. Ch. Sundar Singh	2007-2021
7. Sri .K. Srikanth Kumar	2009-2013
8. Smt.N.V.R.D. Padma Latha	2013-2016
9. Sri P.KRISHNA	2016-2020
10. Sri Ch.Sundar Singh	2006-2021 (Transferred)
11. Dr. L Malleswara Rao	2021- Till to date
12. Kum. R. Ravali	2021- Till to date

Sir C.V. Raman Indian Physicist & Nobel prize Winner for
Raman Effect in 1928



VISION

Empowerment of students with value based holistic education and transforms them as enlightened citizens of the country with global standards through incessant pursuit of excellence

Aims and Objectives

- To create awareness on higher studies through Career Guidance
- To contribute for the multi dimensional development of the students by imparting necessary knowledge and skills in the subject as well as related activities so as to enable them to face the future challenges.
- To nurture the Zeal for learning Physics in students by focusing on its applications in day-to-day life

Teachers' Profile

The institution has two Sanctioned Faculty positions, out of which one Regular Lecturer with more than 30 years experience has joined on 09-10-2021 presently working in this college and One Contract Lecturer with more than 01 years experience is working against the Sanctioned Posts.

COURSES OFFERED BY THE DEPARTMENT:

S. No	Name of the Course	Intake	Year of establishment	Nature of the course
1	B.Sc (MPCs)	24	2001	Self finance
2	B.Sc (MPC)	30	2006	Conventional

FACULTY DETAILS OF THE DEPARTMENT:

S. No	Name of the Faculty	Qualification	Experience
1.	Dr L. Malleswara Rao	M.Sc,M.Phil, Ph.D	30 Years
2.	Kum.R. Ravali	M.Sc.	01 Years

WORK LOAD PARTICULARS OF THE DEPARTMENT:**Consolidated work load of the Department**

S. No	Class / Year	Subjects Dealing	Class/Year	Work load
1	I, II, III B.Sc	I,II III,IV VA,VB VI Papers	I, II,III,	50

Lecturer wise work load of the Department

S. No	Name of the Faculty	Subjects Dealing	Class/Year	Work load
1	Dr L. Malleswara Rao	Paper-I,II,V,&VI	III BSc, IB.Sc	22
2	Kum.R. Ravali	Paper-III, IV,V & VI	III BSc, .II B.Sc	21

STUDENTS' ENROLLMENT PARTICULARS (in 1st year):

S. No	Name of the Course	2011-12	2012-13	2013-14	2014-15	2015-16
1.	B.Sc (MPC)	24	30	22	16	24
2.	B.Sc (MPCs)	08	24	25	25	28

S. No	Name of the Course	2016-17	2017-18	2018-19	2019-20	2020-21
1.	B.Sc (MPC)	16	15	06	17	26
2.	B.Sc (MPCs)	23	18	17	14	22

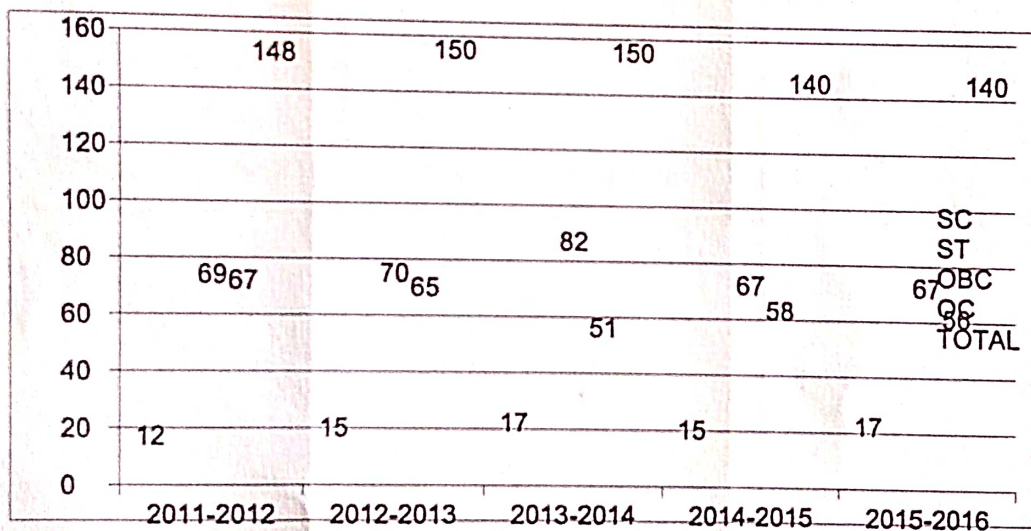
STRENGTH PARTICULARS:

S.No	Course	2011-12	2012-13	2013-14	2014-15	2015-16
1	B.Sc (MPC)	92	90	75	68	24
2	B.Sc (MPCs)	65	59	57	74	28
S.No	Course	2016-17	2017-18	2018-19	2019-20	2020-21

1	B.Sc (MPC)	58	51	48	49	50
2	B.Sc (MPCs)	63	61	49	50	52

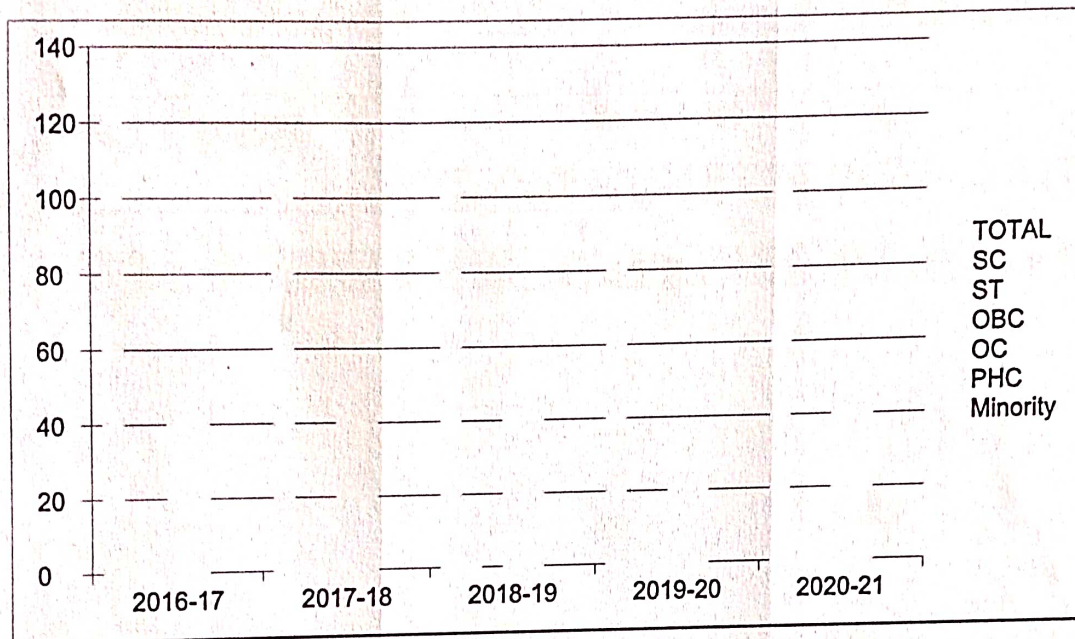
SOCIAL PROFILE OF THE STUDENTS:

Year	2011-12	2012-13	2013-14	2014-15	2015-16
Social profile	No	No	No	No	No
SC	12	15	17	15	17
ST	NIL	NIL	NIL	NIL	NIL
OBC	69	70	82	67	67
OC	67	65	51	58	56
PHC	NIL	NIL	NIL	NIL	NIL
Minority	NIL	NIL	NIL	NIL	NIL
Total	148	150	150	140	140



Year	2016-17	2017-18	2018-19	2019-20	2020-21
Social profile	No	No	No	No	No
SC	10	11	12	8	09
ST	2	01	NIL	1	2
OBC	50	46	46	35	47

OC	59	54	50	39	45
PHC	NIL	NIL	NIL	NIL	NIL
Minority	NIL	NIL	NIL	NIL	NIL
Total	121	112	108	83	102



ACADEMIC PERFORMANCE:

S. No	Year Course	2011-12	2012-13	2013-14	2014-15	2015-16
		Pass %	Pass %	Pass %	Pass %	Pass %
1	B.Sc	60	66	84	59	51

A* - Appeared, P* - Passed

Year	2016-17	2017-18	2018-19	2019-20	2020-21
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1	B.Sc	Pass %	Pass %	Pass %	Pass %	Pass %
		52	83	85	84	87

SUBJECTWISE RESULTS:

S. No	Subject	PASS PERCENTAGE (%)				
		2011-12	2012-13	2013-14	2014-15	2015-16
1	physics	76	83	88	60	75

S. No	Subject	PASS PERCENTAGE (%)				
		2016-17	2017-18	2018-19	2019-20	2020-21
1	physics	80	86	82	74	92

PART -C

ACTIVITIES PLANNED AND EXECUTED:

Following are the activities planned and executed by the department

Extension / Guest Lectures (arranged in our college)

S.No	Date	Class	Subject/Topic	Resource person	Brief report
1.	26-10-09	IIBSc	Carnots' reversible heat engine	Sri K. Lakshmi Narayana	HOD , Sri YN college Narasapur,
2.	17-09-10	IBSc	Waves & oscillations	Sri L. Malleswara	Lecturer in physics,

				rno	Sri YN college Narasapur.
3.	19-11-10	IBSc	Vector analysis	Sri APV Appa Rao	Lecturer in Physics, Sri YN college Narasapur,
4.	18-08-11	IIIBSc	Raman Effect	Sri A. Sheshagiri Rao	Lecturer in Physics, Sri ASNM Govt.Degree college,Palakol,
5.	24-10-11	IIBSc	Lasers	Smt.NVRD Padma Latha	Lecturer in Physics, Sri ASNM Govt.Degree college,Palakol,
6.	28-09-12	IIIBSc	Electro Magnetism	Sri K. Ram Narayana	Lecturer in Physics, BGBS Women college,Narasapuram
7.	19-10-12	I B.Sc	Ultrasonics	Sri A. Sheshagiri Rao	Lecturer in Physics, Sri ASNM Govt.Degree college,Palakol,
8.	21-01-14	IIB.Sc	Diffraction of light	Sri K. Ram Narayana	Lecturer in Physics, BGBS Women college, Narasapuram
9.	22-10-14	IIB.Sc	Abberations	Sri C.S. Anand Kumar	Lecturer in Physics SVKP&KS Raju Arts & Science College Penugonda
10.	30-10-14	IIIB.Sc	Electrostatics	Sri J Ram Mohan	Lecturer in Physics Sri YN college Narasapur,
11.	19-11-14	IIIB.Sc	Capacitors	Sri APV Appa Rao	Lecturer in Physics, Sri YN college Narasapur,
12.	25-11-15	IIIB.Sc	Self&MutualInductance	SriPRamaKrishna	Lecturer in Physics, Sri YN college Narasapur,
13.	16-12-14	IIB.Sc	Polarisation	SriLMalleswarRao	Lecturer in Physics, Sri YN college Narasapur
14.	03-09-15	IIIB.Sc	Career Guidance	Sri VSrinivasaRao	Academic Officer CCE
15.	04-09-15	IIB.Sc	PlancksRadiationLaw	Sri SrinivasaRao	Lecturer in Physics

					SVKP&KS Raju Arts & Science College Penugonda
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Extension / Guest Lectures (at other colleges)

S.No	Date	Class	Subject/Topic	Resource person	Name of the college	Brief report
1	09-01-2009	IIBSc	Lasers	Ch.sundar Singh	Sri ASNM Govt.Degre college, palakol	
2	02-11-2015	IIIB.SC	Magnetism	Ch.sundar Singh	BGBS Women college,Narasapur	

Personality Development, Career Guidance:

S.No	Date	Name of the Activity	Resource person	Brief Report
1.	03-09-15	Career Guidance	Sri VSrinivasaRao Academic Officer CCE	How to prepare for competitive examinations

Educational Tours, Industrial and Field Visits:

S. No	Date	Organisation / Industry	No. of Students Benefited	Brief report
1.	28-01-15	GasTurboPower station VIJESWARAM	35	Field Trip Working of power plant With gas
2	03-02-16	GasTurboPower station VIJESWARAM	40	Field Trip Working of power plant With gas

Departmental Level Activities:

Apart from subject related classroom activities following activities were conducted at departmental level.

- **Departmental Quiz Competitions:**
- **District Level Student Seminar**

Class Seminars

S. No	Year	Subject	No. of class seminar s	No. of students presented
1	2013-14	Physics	15	15
2	2014-15	Physics	08	08
3	2015-16			
4	2016-17			
5	2017-18			
6	2018-19			
7	2019-20			
8	2020-21			

SWOC ANALYSIS:

Strengths: 1. Both the Lecturers are well qualified and hardworking and can motivate the students for pursuing higher studies.
2.To serve poor, rural and vulnerable students

Weaknesses:

- 1.As physics is a hard subject, it is difficult to inculcate scientific temper in the students.
- 2.As it is rural area social stigma towards marriage is a major hurdle for promoting higher education among girls.

Opportunities:

- 1.Physics has a wide scope in research, teaching and competitive edge.

Challenges :

To inculcate research attitude in students

FUTURE PLANS

- To prepare students for various state and national level competitive exams
- To involve more number of students in seminars and project works

- To conduct State level seminar
- To subscribe for more National journals
- To conduct district level competitions in view of Abdul Kalam Birthday on 15th October

PART-B

CRITERIA WISE INPUTS

CRITERIA-I: CURRICULAR ASPECTS

Department of physicsis following the common core syllabus prescribed by Board Of Studies – ADIKAVI NANNAYA.University.RAJAHMUNDRY

1. Curriculum Design:

2. Curricular Activities /Aspects:

- a. **Annual curricular plan:** ACP is prepared in the beginning of the academic year in which curricular, co-curricular, extra curricular activities and hours required are planned.
- b. **Review of syllabus:** In the Departmental meeting review of coverage of syllabus is done regularly.
- c. **Synopsis:** Synopsis is prepared well in advance by the faculty in concerned subjects.
- d. **Teaching Diaries:** Daily activities are recorded by the faculty in the prescribed teaching diary supplied by District Resource Centre of ID College.
- e. **Departmental Activities Register:** Co-curricular extra-curricular activities are recorded in this register.

- f. **Additional inputs:** To provide extra information about the topic beyond syllabus following inputs are used by the faculty.
- PPT's and ICT based downloads
 - Clippings from newspapers, journals etc.
 - Charts
- g. **Bridge classes:** Non faculty students are identified at entry level and basic concepts will be explained.
3. **Curriculum enrichment programs:**
- Guest/Extension lectures
 - Field trips
 - Study projects
 - ICT and Creative Assignments
 - Seminars.
4. **Feedback on Curriculum:** Analysis of feedback collected from students on curriculum was intimated to Board of studies /University orally for necessary action.

CRITERIA-II: TEACHING, LEARNING AND EVALUATION

Teaching methods and Teaching Aids:

- **Lecture cum Demonstration Method:** Traditional lecture method is supplemented by additional inputs and continuous interaction with students.
- **Interactive Method:** Group works like,
 - Peer teaching
 - Group discussions.
 - Debates
 - Role plays
 - Class room Seminars
 - Tutorials etc. are used for effective teaching.
- **Supplementary Teaching Methods**
 - Guest and Extension lectures
 - Field trips
 - Seminars and workshops
- **AV methods:** Following Audio visual methods are also used for making presentation more interesting.
 - MANA TV as per SAPNET
 - OHP
 - Projector
 - CD
 - Interactive Board
 - PPTs
 - Video lectures –online and recorded
 - Internet

Learning:

- **Quiz-** subject quiz is conducted to students to enhance subject knowledge and competitive spirit
- **Teaching Models-** For easy learning teaching models like charts prepared by the students are displayed in class rooms and commerce lab.
- **ICT and Computer assisted learning-** Accounting practical work is done by students using Tally software, and MS office.
- **Field Visits-** To impart practical knowledge and for providing interaction with industry field visits are organized.
- **Library-** Departmental library as well as central library assist the students in learning process.

Evaluation:

The evaluation practices of the department are as follows.

- Assignments
- Slip tests, Surprise Tests, Term and Pre-final examinations.
- Question and Answer method.
- Class room performance like Seminars, Group Discussions, Quiz, Debates and Role Plays.
- Participation in co-curricular and extra curricular activities.
- Project work

CRITERIA-III: RESEARCH, CONSULTANCY AND EXTENSION

The faculty members and students of the department make continuous effort to develop and update their subject knowledge through different activities and methods. They are as follows.

1. **Study Projects :**
2. **Creative Assignments:**
3. **Seminars attended:** To update their knowledge faculty of the department attended and presented following papers.

Ch. Sundar Singh. Lecturer in physics attended various seminars and work shops

SR.N O	Dates	Place&venue	Spons ored	Topic	State/Natio nal	Participation/ Paper Presentation
1	18,19 Dec-2004	Sri YN College, Narsapur	U G C	Atmospheric Oceanic physics- the present future	State level	Participated
2	31 July- 2006 and 1 August	Ch.S.D.ST.Theresa's Autonomous college for women ,ELURU	U G C	Cyclone,Earth quake,tusanami&disaster management	National level	International variation of monsoon rainfall
3	27,28	VSR&NVR college,	NSPE,2	Emerging Trends in	National	Participated

	October-2006	Tenali	006	physical Education and Experimental physics		
4	1 Dec-2006	YN college, Narsapur	U G C	Gandhi and rural development	National	Participated
5	3 Feb-2007	AU, Waltair	USIC	Low-power VLSI design and technology	Workshop	Participated
6	8 th to, 21 st April-2008	INFOSYS, Hyderabad	Project genesis	Global skills enhancement	State level	Trained
7	2 Feb-2008	YN college, Narsapur	U G C	Natural calamities Role of scientists and administrators	National	Participated Floods of Maharastra-2005
8	7,8 March-2009	YN college, Narsapur	U G C	Role of biodiversity on sustainability of the environment	National	Threats of biodiversity
9	4,5 July-2009	SKBR college, Amalapuram	U G C	Alternative energy sources traditional/local/modern initiatives	National	Participated
10	11 th Nov 2009	Sri DNR Govt.Degree college for women, Palakol	UGC	Empowerment of women through self help groups	state	Women Entrepreneurship in India
11	1 st , 2 nd dec-2010	Sri DNR GD College for women, palakol	UGC	Reservation for women in legislature and its impact on protection of women rights.	National	Participated
12	29 March-2011	YN college, Narsapur	U G C & ICSSR	The role of HRD in improving good governance	National	Participated
13	15 th 16 th Nov, 2011	INFOSIS, Hyderabad	State	.Refresher Course	CCE	Participated
14	24 th , 25 th , NOV, 2011	GDC(A), RAJAHMUNDRI	UGC	Advanced research concepts in physics	National	participated
15	8 th , 9 th Nov, 2012	Sri DNR GDC(W), palakol	UGC	Violence against women in India	National	Violence against women in India
16	11 th to 21 st dec, 2012	GVIT Bhimavaram	ISTE workshop	Engineering thermodynamics	IIT Bombay	Participated
17	23 rd feb 2013	Sri YN college Narasapur	UGC	25 years autonomy Issues, achievements and challenges	State level	Participated
18	22 nd february 2014	Sri YN college Narasapur	UGC	Recent trends in climatic changes and managing strategies	regional	Impact of climate change
19	8 th 9 th dec 2014	Govt. college Autonomous R.J.Y		Advanced Technology Oriented Materials ATOM-2014	National	Participated
20	11 th dec 2014	DNR (A) College Bhimavaram	UGC	Recent trends in spectroscopy- 2014	National	Introduction to Nanotechnology looking at nano particles
21	20 th dec 2014	SKBR College Bhimavaram	UGC	Quality Enhancement initiatives in Higher Education institutions	—	Participated
22	3 rd 4 th Feb	Ch.S.D.St Theresa's	UGC	Global trends in earth's	National	

2015	(A) College for woman Eluru		climate from recent observation		
31 st Aug 1 st Sept. 2015	VKV Govt college Kotha peta	UGC	Recent development in Nano tech. & Nano science	National	Participated
24 10 th oct2015	Andhra University, vizag	GCTA-AP	Quality enhancement in govt.Degree colleges-Role of teachers	State level	participated
25 20 th Nov2015	GDC(A),Rajahmundry	HANS A SOLUTIONS	Light Emitting devices & materials	Regional	participated
26 8 th 9 th January	Sri YN college Narasapur	UGC	Promoting excellence in higher education-issues and challenges	National	

Seminars & Workshops attended by Smt.N.V.R.D.PadmaLata

S.No	Date	Title of the seminar	College	Participated/Presented
1.	18-12-2004 & 19-12-2004	Atmospheric and oceanic Physics/ State Level	Sri Y N College Narsapur	Participated
2.	11-11-2006	Strengthening of Govt. Colleges for Enhancement of Quality in Higher Education/StateLevel	Sri DNR GDC(W) Palakol	Presented paper
3.	11-09-2007 & 12-09-2007	Rights of the Physically Challenged-Socio Economic & Political Dimensions/ StateLevel	Sri ASNM GDC Palakol	Presented Paper
4.	13-09-2008 & 14-09-2008	Changing values & Practices In Indian Democracy/ NationalLevel	MVN JS & RVR College Malikipuram	Participated
5	18-03-2011	Preparation and Charecterisation Of non linear Optical Materials/ NationalLevel Workshop	Govt. Arts College Rajahmundry	Participated
6	09-09-2011 & 10-09-2011	Development of Bio-Active Molecules From Natural Products/ National Level	Sri ASNM GDC Palakol	Participated
7.	21-10-2011 & 22-10-2011	Role of SEZs in Development State Level Workshop	Sri ASNM GDC Palakol	Participated
8.	24-11-2011 & 25-11-2011	Advanced Research Concepts in Physics/ National Conference	Govt. Arts College Rajahmundry	Presented Paper
9.	02-12-2011 & 03-12-2011	Rights of the Physically Challenged-Socio Economic & Political Dimensions/ State Level	Sri ASNM GDC Palakol	Participated
10	19-12-2011 & 20-12-2011	Role of Women in Political Decision Making/ National Level	KGRL COLLEGE Bhimavaram	Presented Paper
11.	27-01-2012 & 28-01-2012	Recent Trends in Advanced Materials/ National Level	Sir C R Reddy College Eluru	Presented Paper

12.	13-09-2014	Teacher development & skill update workshop	Sri S C I M GDC	Participated
13.	08-12-2014 & 09-12-2014	Advanced Technology Oriented Materials National Conference	Govt. Arts College Rajahmundry	Participated
14.	20-12-2014	Quality Enhancement Initiatives In Higher Education Institutions workshop	S K B R College Amalapuram	Participated

4. Guidance & Publications:

Publication:

S.No	Name of the faculty	Publication
1	Sri Ch .Sundar Singh	Present & Future trends in India's Higher Education

5. **Faculty Forum:** To update subject knowledge faculty of the department present papers in the "Faculty Forum" at institutional level organized through Research Committee of the college.
6. **Consulting Services:** Nil
7. **MoU & Linkages:** The department has linkages with the Sri.A.S.N.M. Govt.College, Palakol,W.G.Dt and Y.N.M.College,Narsapur.,W.G.Dt.

CRITERIA-IV: INFRASTRUCTURE AND LEARNING RESOURCES:

- Class Rooms – Spacious and well ventilated class rooms with black board and white boards with sufficient furniture.,with the following facilities :
 - Wi-Fi Facility in the lab
 - Projector – 01
 - Printer – 01
 - Storage Almirah - 06
 - Computers-01
 - Computer tables and chairs – 01
- Departmental Library – There is separate library to the department which has
 - Text books: 60
 - Reference books: 12
 - Journals: 01
 - Question Bank 01
 - Previous question papers: Maintained
- Notice Board – Wall magazines and important notifications are displayed.
- Availing Audio Visual room, MANA TV of the institution.

CRITERIA-V: STUDENT SUPPORT AND PROGRESSION:

The department is paying more attention towards support services along with academic activities. These activities are helpful to develop skills, self confidence, positive thinking, competitive spirit, moral and ethical values and result in all round development of the students.

- Department is providing following support services to the students.
1. Career Guidance and Personality development programmes:
 2. Ward Counselling
 3. Students progression: Many of students pursue PG after completion of graduation. Their progression is as follows:

S. No	Year	Percentage
	Course	
1	PG %	5%
2	B.Ed%	2%
3	EMPLOYMENT %	5%
4	SELF EMP %	5%

CRITERIA-VI: GOVERNANCE AND LEADERSHIP:

Department is very actively involving in different institutional planning, implementation, monitoring and evaluation activities.

AS. No	Name of the member	Name of the committee	Designation
1	Ch sundarsingh	1,CHEMISTRY 2,LIBRARY	In charge
1	Ch sundarsingh	1.ADMISSION COMMITTEE-I B.Sc(MPC) 2.AUDIO VISUAL EDUCATION 3 .HOUSE EXAMINATIONS 4.UNIVERSITY EXAMINATIONS	Convenor
2	Ch sundarsingh	1.College Level Placement Officer under the Project Jawahar Knowledge Centers established by the C.C.E.,A.P.,Hyderabad	Co-ordinator
3	Ch sundarsingh	1. ATHLETIC ASSOCIATION 2. SCIENCE ASSOCIATION 3. CAREER GUIDENCE 4. N.S.S 5. ALUMINI ASSOCIATION 6. STUDENT UNION 7. UGC 8. HOUSE EXAMINATION 9. SWATCH BHARAT	Member
4	Ch sundarsingh	IIIB.Sc(MPC)	proctor
1	Smt.NVRD Padma Latha	ADMISSION COMMITTEE IBSc(MPCS)	Member
2	Smt.NVRD Padma Latha	1 .ATHLETIC ASSOCIATION 2. STUDENT UNION 3.SCIENCE ASSOCIATION 4. WOMEN EMPOWERMENT CELL 5 AUDIO VISUAL EDUCATION	Member

3.	Smt.NVRD Padma Latha	II B.Sc(MPC)	proctor
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CRITERIA-VII: INNOVATIONS AND BEST PRACTICES:

Department of Physics has conducted One District Level Student Seminar,
 Organises National Science Day, Celebrates Birthdays of eminent Scientists
 Sir C.V. Raman, Madam Curie & Former President Late Dr.A.P.J. Abdul Kalam
 to inculcate Scientific temper among students

DEPARTMENTAL PROFILE

PART-A

HISTORY OF THE PHYSICS DEPARTMENT

Sri.D.N.R. Govt. Degree College for women, Palakol was established in the year 1982 with B.Com and B.A (with history, economics and politics combination) to cater the needs of the women in and around palakol.

Later B.Sc, course was introduced in the year 2001 with Mathematics, physics and computer science combination as self finance course. Thus physics department was established in the year 2001. In 2006-2007 introduced B.Sc group with mathematics, physics and chemistry combination. The following staff worked as faculty members in the department of physics

- | | |
|-------------------------------|----------------|
| 1. Sri K. Narasimha Rao | 2001-2002 |
| 2. Smt.NVRD Padma Latha | 2002-2003 |
| 3. Sri.R.S. Sairam | 2003-2004 |
| 4. Kum.M.L.k Prasanna | 2004-2005 |
| 5. Sri L.Satyanarayana Murthy | 2005-2007 |
| 6. Sri. Ch. Sundar Singh | 2007-Till date |
| 7. Sri .K. Srikanth Kumar | 2009-2013 |
| 8 Smt.N.V.R.D. Padma Latha | 2013-Till date |

vision

Empowerment of students with value based holistic education and transforms them as enlightened citizens of the country with global standards through incessant pursuit of excellence

Aims and Objectives

- To create awareness on higher studies through Career Guidance
- To contribute for the multi dimensional development of the students by imparting necessary knowledge and skills in the subject as well as related activities so as to enable them to face the future challenges.
- To nurture the Zeal for learning Physics in students by focusing on its applications in day-to-day life

Teachers' Profile

The institution has two Sanctioned Faculty positions out of Which One Regular Lecturer is working And One Contract Lecturer with more than 13 years experience is Working Against The Sanctioned Posts

COURSES OFFERED BY THE DEPARTMENT:

S. No	Name of the Course	Intake	Year of establishment	Nature of the course
1	B.Sc(MPCs)	30	2001	Self finance
2	B.Sc(MPC)	24	2006	Conventional

FACULTY DETAILS OF THE DEPARTMENT:

S. No	Name of the Faculty	Qualification	Experience
1.	Ch.Sundar Singh	M.Sc, B.Ed.	16 Years
2.	Smt.N.V.R.D.Padma Latha	M.Sc, B.Ed	14 Years

WORK LOAD PARTICULARS OF THE DEPARTMENT:**Consolidated work load of the Department**

S. No	Class / Year	Subjects Dealing	Class/Year	Work load
1	I, II, III B.Sc	I,II III,IV Papers	Paper I, II,III,IV	50

Lecturer wise work load of the Department

S. No	Name of the Faculty	Subjects Dealing	Class/Year	Work load
1	Ch.Sundar Singh	Paper-II,III,&IV	III BSc,IIBSc	25
2	Smt.NVRD. Padma Latha	Paper-I,III & IV	III BSc,IBSc	25

STUDENTS' ENROLLMENT PARTICULARS(in 1st year):

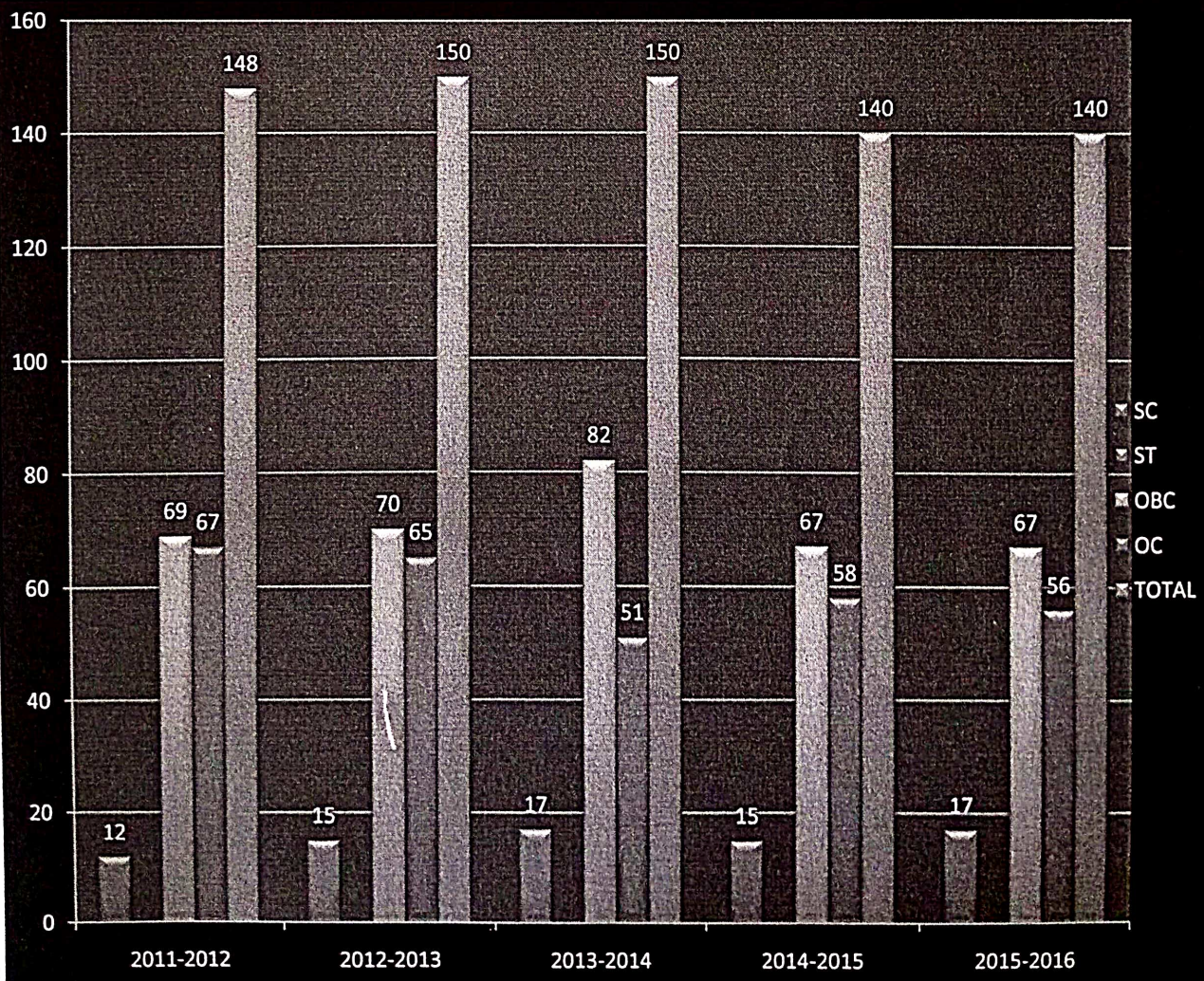
S. No	Name of the Course	2011-12	2012-13	2013-14	2014-15	2015-16
1.	B.Sc(MPC)	24	30	22	16	24
2.	B.Sc(MPCs)	08	24	25	25	28

STRENGTH PARTICULARS:

S.No	Course	2011-12	2012-13	2013-14	2014-15	2015-16
1	B.Sc(MPC)	92	90	75	68	24
2	B.Sc(MPCs)	65	59	57	74	28

SOCIAL PROFILE OF THE STUDENTS:

Year	2011-12	2012-13	2013-14	2014-15	2015-16
Social profile	No	No	No	No	No
SC	12	15	17	15	17
ST	NIL	NIL	NIL	NIL	NIL
OBC	69	70	82	67	67
OC	67	65	51	58	56
PHC	NIL	NIL	NIL	NIL	NIL
Minority	NIL	NIL	NIL	NIL	NIL
Total	148	150	150	140	140



ACADEMIC PERFORMANCE:

S. No	Year Course	2010-11	2011-12	2012-13	2013-14	2014-15		
		Pass %	Pass %	Pass %	Pass %	A*	P*	Pass %
1	B.Sc	61	60	66	84	59	30	51

A* - Appeared, P* - Passed

SUBJECTWISE RESULTS:

S. No	Subject	PASS PERCENTAGE (%)				
		2010-11	2011-12	2012-13	2013-14	2014-15
1	physics	80	76	83	88	60

PART –C**ACTIVITIES PLANNED AND EXECUTED:**

Following are the activities planned and executed by the department

Extension / Guest Lectures (arranged in our college)

S.No	Date	Class	Subject/Topic	Resource person	Brief report
1.	26-10-09	IIBSc	Carnots' reversible heat engine	Sri K. Lakshmi Narayana	HOD , Sri YN college Narasapur,
2.	17-09-10	IBSc	Waves & oscillations	Sri L. Malleswara rao	Lecturer in physics, Sri YN college Narasapur.
3.	19-11-10	IBSc	Vector analysis	Sri APV Appa Rao	Lecturer in Physics, Sri YN college Narasapur,
4.	18-08-11	IIIBSc	Raman Effect	Sri A. Sheshagiri Rao	Lecturer in Physics, Sri ASNM Govt.Degree college,Palakol,

5.	24-10-11	IIBSc	Lasers	Smt.NVRD Padma Latha	Lecturer in Physics, Sri ASNM Govt.Degree college,Palakol,
6.	28-09-12	IIIBSc	Electro Magnetism	Sri K. Ram Narayana	Lecturer in Physics, BGBS Women college,Narasapuram
7.	19-10-12	I B.Sc	Ultrasonics	Sri A. Sheshagiri Rao	Lecturer in Physics, Sri ASNM Govt.Degree college,Palakol,
8.	21-01-14	IIB.Sc	Diffraction of light	Sri K. Ram Narayana	Lecturer in Physics, BGBS Women college, Narasapuram
9.	22-10-14	IIB.Sc	Abberations	Sri C.S. Anand Kumar	Lecturer in Physics SVKP&KS Raju Arts & Science College Penugonda
10.	30-10-14	IIIB.Sc	Electrostatics	Sri J Ram Mohan	Lecturer in Physics Sri YN college Narasapur,
11.	19-11-14	IIIB.Sc	Capacitors	Sri APV Appa Rao	Lecturer in Physics, Sri YN college Narasapur,
12.	25-11-15	IIIB.Sc	Self&MutualInductance	SriPRamaKrishna	Lecturer in Physics, Sri YN college Narasapur,
13.	16-12-14	IIB.Sc	Polarisation	SriLMalleswarRao	Lecturer in Physics, Sri YN college Narasapur
14.	03-09-15	IIIB.Sc	Career Guidance	Sri VSrinivasaRao	Academic Officer CCE
15.	04-09-15	IIB.Sc	PlancksRadiationLaw	Sri SrinivasaRao	Lecturer in Physics SVKP&KS Raju Arts & Science College Penugonda

Extension / Guest Lectures (at other colleges)

S.No	Date	Class	Subject/Topic	Resource person	Name of the college	Brief report
1	09-01-2009	IIBSc	Lasers	Ch.sundar Singh	Sri ASNM Govt.Degre college, palakol	
2	02-11-2015	IIIB.SC	Magnetism	Ch.sundar Singh	BGBS Women college,Narasapur	

Personality Development, Career Guidance:

S.No	Date	Name of the Activity	Resource person	Brief Report
1.	03-09-15	Career Guidance	Sri VSrinivasaRao Academic Officer CCE	How to prepare for competitive examinations

Educational Tours, Industrial and Field Visits:

S. No	Date	Organisation / Industry	No. of Students Benefited	Brief report
1.	28-01-15	GasTurboPower station VIJESWARAM	35	Field Trip Working of power plant With gas
2	03-02-16	GasTurboPower station VIJESWARAM	40	Field Trip Working of power plant With gas

Departmental Level Activities:

Apart from subject related classroom activities following activities were conducted at departmental level.

- **Departmental Quiz Competitions:**
- **District Level Student Seminar**

Class Seminars

S. No	Year	Subject	No. of class seminars	No. of students presented
1	2013-14	Physics	15	15
2	2014-15	Physics	08	08

SWOC ANALYSIS:

Strengths: 1. Both the Lecturers are well qualified and hardworking and can motivate the students for pursuing higher studies.

2.To serve poor, rural and vulnerable students

Weaknesses:

1.As physics is a hard subject, it is difficult to inculcate scientific temper in the students.

2.As it is rural area social stigma towards marriage is a major hurdle for promoting higher education among girls.

Opportunities:

1. Physics has a wide scope in research,teaching and competitive edge.

Challanges :

To inculcate research attitude in students

PART-B

CRITERIA WISE INPUTS

CRITERIA-I: CURRICULAR ASPECTS

Department of physicsis following the common core syllabus prescribed by Board Of Studies – ADIKAVI NANNAYA.University.RAJAHMUNDY

1. Curriculum Design:

2. Curricular Activities /Aspects:

- a. **Annual curricular plan:** ACP is prepared in the beginning of the academic year in which curricular, co-curricular, extra curricular activities and hours required are planned.
- b. **Review of syllabus:** In the Departmental meeting review of coverage of syllabus is done regularly.
- c. **Synopsis:** Synopsis is prepared well in advance by the faculty in concerned subjects.
- d. **Teaching Diaries:** Daily activities are recorded by the faculty in the prescribed teaching diary supplied by District Resource Centre of ID College.
- e. **Departmental Activities Register:** Co-curricular extra curricular activities are recorded in this register.
- f. **Additional inputs:** To provide extra information about the topic beyond syllabus following inputs are used by the faculty.
 - PPT's and ICT based downloads
 - Clippings from newspapers, journals etc.
 - Charts
- g. **Bridge classes:** Non faculty students are identified at entry level and basic concepts will be explained.

3. Curriculum enrichment programs:

- Guest/Extension lectures
- Field trips
- Study projects
- ICT and Creative Assignments
- Seminars.

4. **Feedback on Curriculum:** Analysis of feedback collected from students on curriculum was intimated to Board of studies /University orally for necessary action.

CRITERIA-II: TEACHING, LEARNING AND EVALUATION

Teaching methods and Teaching Aids:

- **Lecture cum Demonstration Method:** Traditional lecture method is supplemented by additional inputs and continuous interaction with students.
- **Interactive Method:** Group works like,
 - Peer teaching
 - Group discussions.
 - Debates
 - Role plays
 - Class room Seminars
 - Tutorial setc. are used for effective teaching.
- **Supplementary Teaching Methods**
 - Guest and Extension lectures
 - Field trips
 - Seminars and workshops
- **AV methods:** Following Audio visual methods are also used for making presentation more interesting.
 - MANA TV as per SAPNET
 - OHP
 - Projector
 - CD
 - Interactive Board
 - PPTs
 - Video lectures –online and recorded
 - Internet

Learning:

- **Quiz-** subject quiz is conducted to students to enhance subject knowledge and competitive spirit
- **Teaching Models-** For easy learning teaching models like charts prepared by the students are displayed in class rooms and commerce lab.
- **ICT and Computer assisted learning-** Accounting practical work is done by students using Tally software, and MS office.
- **Field Visits-** To impart practical knowledge and for providing interaction with industry field visits are organized.
- **Library-** Departmental library as well as central library assist the students in learning process.

Evaluation:

The evaluation practices of the department are as follows.

- Assignments
- Slip tests, Surprise Tests, Term and Pre-final examinations.