P.R.GOVERNMENT COLLEGE (A), KAKINADA

DEPARTMENT OF PHYSICS & ELECTRONICS

Date	22 – 02- 2018
Conducted through DRC/JKC/ELF/ Dept. etc	Dept of Physics & Electronics
Nature of the Activity (Seminar/Workshop/Extension lecture etc.)	**Teacher training program**
Title of the Activity	**"Implimenting physics clusters - issues and challenges"**
Name of the Department/Committee	Photon club
Details of Resource person (Name, Designation etc.)	Prof. D. L. Sastry Garu Retd. Prof of Physics AU vizag, K.V. Ganesh , Lecturer in Physics, BGR GDC Tadepalligudem, P. Chanti Babu, Lecturer in Physics (C), GDC, Salur, N.L.V.R.K.Prasad, Lecturer in Physics, GDC, Ramachandrapuram
No. of Staff & Students Participated	80
Brief report of the activity	**Objectives of the Programme:** * To give an insight on various Clusters in Physics * To discuss the topics covered in various textbooks. * To gather study material and prepare question bank * To provide experimental knowledge * To encourage the students to opt for Physics Cluster Principal Dr. C. Krishna inaugurated the programme and congratulated the department for taking an initiative towards conduct of a training programme for teachers on newly introduced cluster system. The Chief guest Prof. D.L Sastry garu Retd. Prof of Physics AU Vizag , in his talk gave an overview of all the three Clusters in Physics. He touched upon various aspects of I Cluster. Sri. NLVRK Prasad, lecturer in Physics, GDC Ramachandra Puram expressed his view on the necessity of brainstorming among faculty from various colleges, whenever such changes in syllabi are made. The biggest challenge lies in procuring the needed equipment and conducting practicals said he. He also stressed on the fact that the teachers must share their resources both in electronic and print form to facilitate students both from rural and urban background. Sri. P. Chantibabu, in the third session discussed various hurdles encountered during the implementation of clusters and how to overcome them. He clarified various aspects related to tidal energy and wind energy and distributed the study material among the faculty present. He explained experiments pertaining to solar cell V-I characteristics.

	Sri. K. V. Ganesh Kumar lecturer in Physics, BGR GDC Tadepalligudem spoke on challenges in preparation of study material, the various books to be referred, the websites to be searched and useful u tube videos to be browsed. He urged the faculty to accept the new changes with a positive note. He showed his blog in which all the study material was uploaded and free to download. He explained experiments pertaining to solar cell series and parallel characteristics. Faculty and students participated in the Hands on Session and clarified their doubts regarding the practices on measurement of V-I Characteristics of Solar Cell, Tilt angle measurements, intensity variation estimation etc., The project works displayed by students were lauded by all the participants of the programme The programme concluded with a roundtable discussion on the question bank to be prepared, changes in the question paper pattern, types of project works to be allotted, number of students involved and future scope towards research in these fields.
Name of the lecturers who planned and conducted the activity	Dept of Physics & Electronics
Signature of the Lecturer in charge/ Convener of the committee	
Signature of the Principal	
Remarks