

GOVERNMENT DEGREE COLLEGE : : BHADRACHALAM.  
BHADRADRI KOTHAGUDEM DISTRICT.

Date:28.04.2022.  
BHADRACHALAM

From,  
Sri.D.Bhadraiah.,M.Sc.,M.Ed.,  
Principal(F.A.C),  
Govt.Degree College,  
BHADRACHALAM.  
BHADRADRI KOTHAGUDEM(Dt.)

To,  
The Commissioner of Collegiate  
Education.,  
Vidya Bhavan.,  
Nampally.  
HYDERABAD.  
TELANGANA STATE.

Respected Sir,

Sub:-Govt.Degree College, Bhadrachalam-Collegiate Education-  
JIGNASA-2021-Attending for presentation of Student Study  
State Level Project-Request for according permission and  
Sanction of "ON DUTY" to certain Staff members of this  
College-Reg.

Ref:-File No.CCE-AC/JIGN/1/2021-ACADEMIC CELL,Dt.20.04.2022. of  
Commissioner of Collegiate Education.

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With reference to the subject cited above, I would like to bring to  
your kind notice that the details of the Staff members who are attending to guide  
and supervise the students of this college who are participating in *Presentation of  
State Level Student "JIGANASA-2021" Project* at various venues on different  
dates are furnished as below :

Sl No	Name of the Staff Member	Designation	Venue of Attending	Date of Attending	Remarks
✓ 01	Sri.D.Veeranna	Asst.Prof.of Chemistry	INDIRA PRIYA DARSINI GDC(W),NAMPALLY, HYDERABAD	30.04.2022	
✓ 02	Smt.V.Ragha Suma	C.F. in Chemistry	INDIRA PRIYA DARSINI GDC(W),NAMPALLY, HYDERABAD	30.04.2022	
03	Sri.K.Surya Rao	Asst.Prof.of Economics	GDC,KHAIRATHABHAD HYDERABAD	29.04.2022	
04	Smt.B.Durga bhavani	Guest Faculty in Computers	GDC,KHAIRATHABHAD HYDERABAD	29.04.2022	

So, I kindly request you to accord permission to attend and sanction  
" ON DUTY" to the above said Staff members.

Thanking You Sir,

*Sri D. Veeranna*  
Yours faithfully,

**Principal**  
Govt.Degree College  
Bhadrachalam-507 111,  
Bhadradi Kothagudem Dist.

**Proceedings of the Commissioner Collegiate Education,  
Telangana :: Hyderabad.**

**Present: Sri.Navin Mittal, IAS**

Sub Collegiate Education- Jignasa Student Study Projects-2021- List of Selected Student Study Projects for State Level Presentation- Instructions- Issued- Reg.

Ref: File No. CCE-AC/JIGN/1/2021-ACADEMIC CELL Dated:15.09.2021

Commissionerate of Collegiate Education gives prominence to provide the opportunity to the students of all Government Degree Colleges to explore problems and challenges which have real world applications through project based learning. Learning through projects also increases the possibility of long-term retention of what students have learnt and establishes the linkage between theory and practice.

In view of the above, the Department has received a total of 855 Study Projects from all the Government Degree Colleges in 15 subjects. The projects were evaluated by a committee consisting of subject experts who have an aptitude for research and innovation. Out of 855 Projects, 285 projects have been selected in 15 subjects for state level presentation.

The subject wise selected list of Jignasa Study Projects for State Level Presentations is placed in the Annexure - I

In this regard, all the Principals of GDCs as per the Annexure-I are directed to ensure that the Mentor/Supervising faculty shall guide the students and prepare them thoroughly for state level presentations. Further, the Principals also instructed to send the soft copies of full length Study Projects which are selected for State Level Presentations by 18<sup>th</sup> April, 2022 to [jignasa-ce@telangana.gov.in](mailto:jignasa-ce@telangana.gov.in) and instruct the faculty supervisors to submit the hard bound copies at the time of

No	District	Name of the GDC	Subject	Name of the Project	Name of the Supervisor
				(working model)	
62	Rajanna Sircilla	GDC Agraharam	Physics	Photo acoustic spectroscopy	Rajesh.K
63	Ranga Reddy	GDC Hayathnagar	Physics	Study of Marangoni Flow on Fluid Surfaces	Dr.Parvathalu Kalakonda
64	Sangareddy	GDC Sadasivpet	Physics	The solar heating and night cooling of surfaces	P.Rajireddy
65	Siddipet	GDC Gajwel	Physics	The Importance of energy audit at institutional level	M. Bhavani
66	Wanaparthy	GDC (W) Wanaparthy	Physics	Water Analysis (TDS, pH and Temperature ) in GDC Women Wanaparthy	R.Manjula , G. Vishnumurthy
67	Yadadri Bhuvanagiri	GDC Alair	Physics	Investigation of Urine Glucose using Refractometric Analysis	Dr. K.Haritha
68	Yadadri Bhuvanagiri	GDC Ramannapet	Physics	Electrical energy consumption in the college- A case study	Madhu Dharmapuri
69	Bhadradi Kothagudem	GDC Bhadrachalam	Chemistry	Determination of vitamin c in various fruits and vegetables and the role of vitamin c in Covid 19	D Veeranna & V Raga Suma
70	Hanamkonda	GDC Hanamkonda	Chemistry	Studies on Bio Ethanol production from waste Banana and Orange Fruits using Ecologically friendly methods	Dr. Vasam Sreenivas
71	Hyderabad	GDC (W) Begumpet	Chemistry	Hydrogen-fuel of the future	1. Dr. G.Pranitha, 2. Dr. Rafia Sultana
72	Hyderabad	GDC Nayapul	Chemistry	"Controlled release of Volatile organic compound by pH sensitive hydrogels"	Dr.Dayanand & Dr Viplav Duth shukla
73	Jangaon	GDC Jangaon	Chemistry	Assessment of Heavy Metals in Contaminated Soil and	Dr.J.Uma Rani

## STUDENT STUDY PROJECT WORK

"TO DETECT THE PRESENCE OF INSECTICIDES AND  
PESTICIDES IN FRUITS AND VEGETABLES"

Done by the following students: II B.Sc Students

- 1) P. Manjusha - 033-21-4008
- 2) D. Nandini - 033-21-4003
- 3) A. Sai Sri - 033-21-3001
- 4) M. Aisha Nasreen - 033-21-3031

Project Supervisor : Smt. V. Ragha Suma

GUIDED BY :

Sri D. BHADRAIAH

Sri D. VEERANNA

Smt. V. RAGHA SUMA

Project:- To detect the presence of Insecticides and pesticides in fruits and vegetables.

Aim:- To detect the presence of Insecticides or pesticides (Nitrogen Containing) in various fruits and vegetables.

Materials required:- Samples of various fruits and vegetables, Alcohol, Sodium metal, Ferric chloride ferrous sulphate crystals; distilled water and dilute sulphuric acid.

Procedure:- Take different types of fruits and vegetables and cut them into small pieces and crush them separately. Take them into separate beakers and add 100ml of alcohol to each of these stir well and filter collect the filtrate in separate China dishes. Evaporate the alcohol by heating the China dishes one by one over a water bath and let the residue dry in the oven. Heat small piece of Sodium in fusion tube till it melts. Then add one of the above residues from China dish to this fusion tube and heat it till red hot. Now drop this tube in China dish containing 10ml of distilled water. Break the tube and boil the contents of the China dish for 5mts cool and filter the solution. Collect the filtrate. To the filtrate add 1ml of freshly prepared ferrous sulphate solution and warm the contents. Then add 2, 3 drops of ferric chloride solution and acidify with dilute Hcl. If a blue or green, precipitate or colouration is obtained. It indicates the presence of nitrogen containing insecticide. Repeat this test for other fruits and vegetables.

S. No	Name of the fruit or Vegetable	Test for the presence of nitrogen	Presence of Insecticide or pesticide residue
1.	Apple	Nil	Nil
2.	Grape	Nil	Nil
3.	Brinjal	Nil	Nil
4.	Tomato	Nil	Nil

Conclusion:- By the Experimental results it is found that there are no traces Nitrogen element or pesticides in the above fruits and vegetable.