

DEPARTMENT OF CHEMISTRY  
SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

DEPARTMENTAL ACTIVITIES

2020-21



Dr.K.NAGARAJA SETTY

INCHARGE, DEPT.OF CHEMISTRY

Dr. K.MAHABOOB BASHA

PRINCIPAL

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SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : International Bio-Diversity Day

Date : 22-05-2020

By

DEPARTMENT OF CHEMISTRY

## International Bio-Diversity Day

### Brief Report:

A general awareness programme organized by the departments of Botany and Zoology on the occasion of international Bio-diversity day on 22-05-20 in Virtual mode. In this programme Principal, Staff and students are involved and express their views. The Principal said that every person to protect nature for better society .

Dr.K.Nagaraja Setty

Incharge , Dept.of Chemistry



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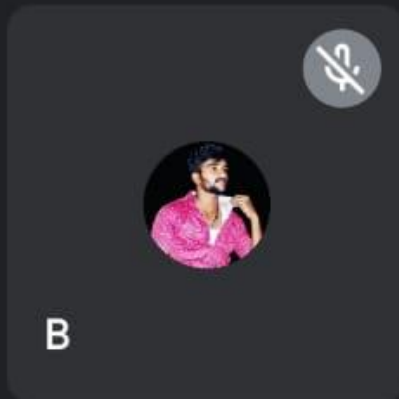
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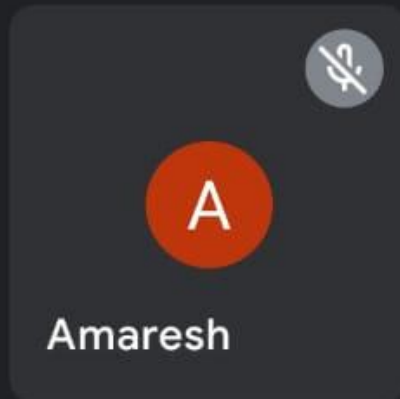
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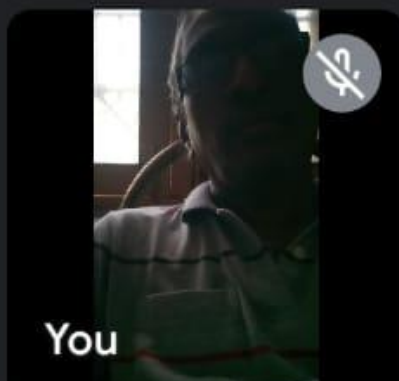
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SYEDA



dr.m



You



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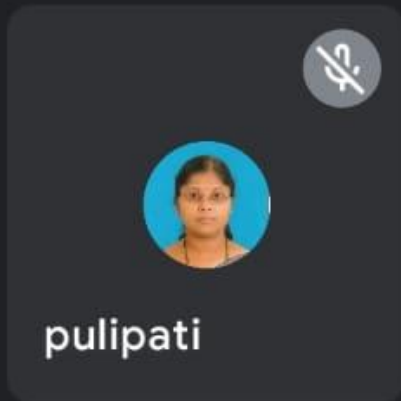
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Amaresh



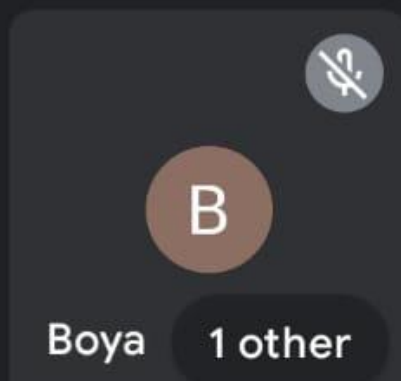
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SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Naame of the Activity : Telugu bashadinostavam

Date : 20-08-2020

By

DEPARTMENT OF CHEMISTRY

## Telugu bashadinostavam

### Brief Report:

The department of Telugu was organized a meeting on the occasion of Telugu bashadinostavam on 20-08-20. In this programme principal, staff and many students involved and express their views. Dr.K.Mahaboob basha, Principal said that Telugu is the 3rd most spoken language in India and ranks 16th across the world. It has been widely acclaimed since the ages by natives as well as the foreigners. The incharge of telugu department Smt.R.Jayasuseela said that the great emperor Srikrishnadevaraya, a polyglot himself, once said "Desa bhashalandhu telugu lessaa", depicting Telugu as the most versatile language he had ever come across.

Dr.K.Nagaraja Setty, Incharge, Department of Chemistry has stated that Rabindranath Tagore is said to have stated that Telugu is the sweetest of all (Indian) Languages.

Dr.K.Nagaraja Setty

Incharge , Dept.of Chemistry



Message by Dr.K.Mahaboob basha, Pricipal



Addressing by Srinivasa Ganapa, Vice-principal



Explain the significance of telugu language by R.Jaya Suseela



Message by Dr.K.Nagaraja Setty,Lec.in Chemistry

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Tree plantation

Date : 21-08-2020

By

DEPARTMENT OF CHEMISTRY

## Tree plantation

### Brief Report:

The principal and staff are planted trees in the premises of main building. The principal said that every one to feel social responsibility for protecting the trees for which balancing the atmosphere and to avoid the natural calamities.

Dr.K.Nagaraja Setty

Incharge , Dept.of Chemistry



Principal and staff



Dr.K.Nagaraja setty and J.Hemanth

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Constitution Day

Date : 26-11-2020

By

DEPARTMENT OF CHEMISTRY

## Constitution Day

### Brief Report:

The department of Political science was organized a meeting on the occasion of constitution day on 26-11-20. The principal, staff and students are participated in this programme. The principal express to significance of Constitution in India. He says that

1. It describes how a democratic nation should function
2. It explains who will form the government and what will be its roles and responsibilities
3. It explains the relationship between the state and the citizens
4. It limits the powers of the government and increases the role of citizens.

Finally, Many staff members were expressed the significant role of Constitution in India.

Dr.K.Nagaraja Setty

Incharge , Dept.of Chemistry

## CONSTITUTION DAY



Address the gathering by Dr.K.Mahaboob basha,principal



Address the gathering by Srinivasa Ganapa,Vice-principal

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Clean and Green programme

Date : 05-12 -2020

By

DEPARTMENT OF CHEMISTRY

## CLEAN AND GREEN PROGRAMME

### *Brief Report:*

A General awareness programme i.e. "Clean and Green" was organized by the Department of Chemistry as a part of Swachcha Bharath on 15-11-2020 in the college premises.

In the activity nearly 30 students involved and did cleanery activities surrounding the chemistry department for 3 hours.

During the activity unwanted plants are removed and new plants are planted before the Chemistry laboratory.

The Ground was cleaned by the students as it was filled with unwanted leaves and sticks etc. Finally the faculty were given snacks to the students as refreshment.

Dr.K.Nagaraja Setty

Incharge , Dept.of Chemistry



Staff and Students



Removal of weed plants and grass by II BZC students



Principal and staff



SML GOVERNMENT DEGREE COLLEGE

YEMMIGANUR, KURNOOL (DT)

Naame of the Activity : International Human Rights Day

Date : 10-12 -2020

By

DEPARTMENT OF CHEMISTRY

: International Human Rights Day

**Brief Report :**

**The departments of History, Political science and Economics are organized a meeting on the occasion of International Human Rights Day on 10-12-20. All the staff and students are participated in this programme and express their views.**

The theme of Human Rights Day 2020 is "Recover Better - Stand Up for Human Rights"

**International Human Rights Day** is celebrated across the globe by the people to achieve rights for human beings. This day is celebrated with an aim to improve the physical and socio-cultural well-being and welfare of the susceptible group of people throughout the world.

Few reasons for celebrating this day are as follows:

1. To leverage the awareness about human rights among the people across the globe.
2. To accentuate the efforts of the United Nations General Assembly in order to progress the comprehensive human rights conditions.
3. To interact and celebrate in association to discuss and highlight the crucial issues of human rights.
4. To motivate the susceptible group of people like women, minorities, teenagers, poor, disabled person, and others to participate in this event.

Dr.K.Nagaraja Setty

Incharge , Dept.of Chemistry



Message by Dr.K.Nagaraja Setty, Incharge, Dept.of chemistry



Address by J.Hemanth, Vice-Principal

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Swachha Bharath

Date : 06-2 -2021

By

DEPARTMENT OF CHEMISTRY

## Swachha Bharath

**Brief Report :** A General awareness programme organized by the Department of Chemistry as a part of Swachha Bharath on 06-02-2021 in the college premises.

In the activity nearly 20 students involved and did cleanery activities surrounding the chemistry department .

During the activity unwanted plants are removed.The Ground was cleaned by the students as it was filled with unwanted leaves and sticks etc. Finally the faculty were given snacks to the students as refreshment.

Dr.K.Nagaraja Setty

Incharge ,Dept.of Chemistry



II BZC Students





Principal and staff



Staff and Students

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Naame of the Activity : World Earth Day

Date : 22-04 -2021

By

DEPARTMENT OF CHEMISTRY

## World Earth Day

### Brief Report:

On the occasion of World Earth Day on 22-04-21, a programme is celebrated and it is recognised that a healthy environment is the foundation for a stable and productive society and to ensure the well-being of present and future generations, we all must participate to protect, conserve and sustainably manage our natural resources.

Trees and plants consume CO<sub>2</sub> which has increased the Earth's temperature, increased storms and sea level rises and freshwater, glacier melting that threatens lives.

Birds, Bees and other insects pollinate the plants we need to eat to stay healthy and nutritionally.

Finally a few students expressed their views on the topic and the other students are encouraged to participate and to express their ideas.

K. Nagaraja Setty  
Incharge of the Dept.



Message by Dr.K.Mahaboob Basha, Principal



Address by Dr.K.Nagaraja Setty, Incharge, Dept.of Chemistry



Explain the importance of earth day by Dr.M.Suseelamma,Incharge

Dept.of Botany



B.Jaya Sree,I BZC

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Naame of the Activity : World Environment Day

Date : 05-06-2021

By

DEPARTMENT OF CHEMISTRY

## World Environment Day .

### Brief Report:

The Department of Chemistry was conducted a District level essay writing competition on the occasion of world Environment Day on 05-06-21. In this event 26 students are participated in various colleges.

### **Topic: Environmental Sustainability: Challenges and Viable Solutions**

**Date: 05-06-2021**

The following is the list of winners

1. I Prize: M.Chandrika, III Bio-tech, Govt. college for Men, Kurnool
2. II Prize: K.Subhanbee, III BZC, KVRGOvt. Degree College for Women, Kurnool
3. III Prize: G.Sandya ,II BZC SML Govt. Degree College, Yemmiganur
4. Consolation Prize : B.Uma Maheswari, III BZC, SML Govt. Degree College, Yemmiganur

The principal and Staff extend hearty Congratulations to the winners and the participants of the event.

Dr.K.Nagaraja Setty

Incharge, Dept. of Chemistry

**Topic: Environmental Sustainability:Challenges and Viable Solutions- Date: 05-06-2021**

SNO	Name & Address	Mobile Number	Remarks
1	G.Sandya, II BZC SML GDC, Yemmiganur	6305995614	III Prize
2	M.Veeresh, II BZC SML GDC, Yemmiganur	9182300210	
3	B.Lakshmi, II BZC SML GDC, Yemmiganur	9347920834	
4	T.Mahendra, I BZC SML GDC, Yemmiganur	9154541595	
5	E.Anusha, II BZC SML GDC, Yemmiganur	9154541749	
6	S.Anitha, II BZC SML GDC, Yemmiganur	6302970229	
7	Sunitha, I BZC SML GDC, Yemmiganur		
8	G.Somesh Yadav, I Year SML GDC, Yemmiganur	9207090134	
9	B.Uma Maheshwari, III BZC SML GDC, Yemmiganur	9052239201	Consolation
10	U.Lakshmi Narayana, II MPCs SML GDC, Yemmiganur	9441475330	
11	B.Vanaja, II BZC SML GDC, Yemmiganur	7670967733	
12	N.Ganesh naidu, III BZC SML GDC, Yemmiganur	9908790611	
13	B.Amaresh, III BZC SML GDC, Yemmiganur	9392677581	

14	M.Rajeshwari,II MPcs SML GDC,Yemmiganur	8317679760	
15	T.Adilakshmi, I BA SML GDC, Yemmiganur	770384090	
16	O.Ashok I BZC SVB Govt.Degree College,Koilakuntla	9392321146	
17	K.Devendra, I BCH SVB Govt.Degree College,Koilakuntla	9705407247	
18	D.Thriveni, III B.Com Govt.Degree college,Atmakur	9391845580	
19	V .Shanmuhappa, III Year Govt.Degree College, Alur	7989099286	
20	M.N.Ravi Teja, III BA Govt.Degree College, Alur	6281005413	
21	.M.Chandrika, II Bi.B.C Govt College for Men, Kurnool	9010194471	I Prize
22	Mr. Yuvaraj, II Bi.B.C Govt College for Men, Kurnool	7013291714	
23	M.Mounika,III MZC Govt College for Men, Kurnool	9959982657	
24	B.Haritha, III Bi.B.C Govt College for Men, Kurnool	9502001185	
25	V.Nagrjuna, III MZC Govt College for Men, Kurnool	9985372299	
26	K.Subhanbee, III BZC K.V.R.Govt.Degree College for Women(A)	7075812520	II Prize



**SML GOVERNMENT DEGREE COLLEGE**

**YEMMIGANUR, KURNOOL (DIST)**

**(Accredited with "B" Grade by NAAC)**

**WORLD ENVIRONMENT DAY- 2021**

**Organised by**

**Department of Chemistry**

**Certificate**

This is to certify that Mr  
/Miss \_\_\_\_\_ has  
participated in District level Essay writing competition  
(Virtual Mode) conducted by Department of Chemistry,  
SML.Govt.Degree College, Yemmiganur, Kurnool Dist. on the  
occasion of World Environment Day on 5<sup>th</sup> June 2021 &  
placed in \_\_\_\_\_

Dr.K.NAGARAJA SETTY

Incharge, Dept. of Chemistry

Dr.M.SUSEELAMMA

IQAC Coordinator

Dr.K.MAHABOOB BASHA

Principal



Consolation Prize: B.Uma maheswari,III BZC,SML GDC,Yemmiganur



II Prize: K.Subhan bee,III BZC, KVRGC(W),Kurnool



III Prize: G.Sandya,II BZC,SML GDC,Yemmiganur



I Prize: M.Chandrika,II Bio-tech. GC(M),Kurnool

DEPARTMENT OF CHEMISTRY  
SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Guest Lecture on Polymers in Daily life

By

A.Satyanaarayana,Lec.in Chemistry

GDC,Vayalpadu

Date : 07-06-2021

By

Dr.K.NAGARAJA SETTY

## Guest Lecture

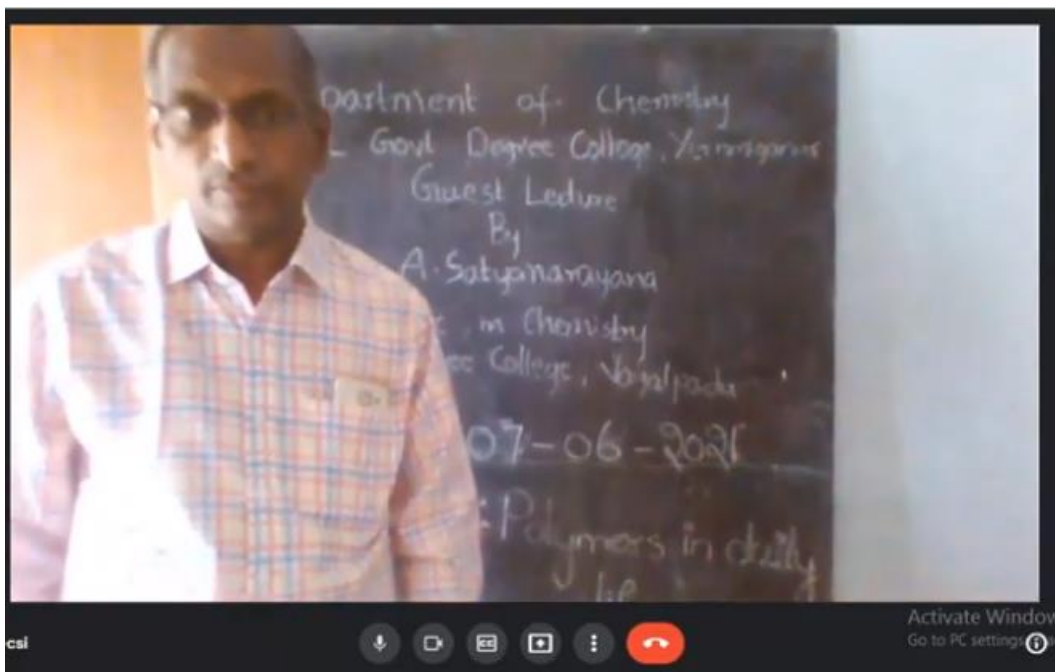
**Brief Report:** A.Satyanarayana, Lecturer in Chemistry, Govt. Degree College, vayalpadu, Chittoor was invited at our college on 07-06-21 as a guest lecturer on virtual Mode.

He took the class for B.Sc, IIIrd year students after addressing to the students by the principal. His guest lecture was on "Polymers in Daily Life" which plays an important role with the society point of view. Many of the students' doubts were clarified and students got a clear concept on that topic.

In this programme Dr.K.Mahaboob Basha, Principal, Dr.M.Suseelamma, IQAC coordinator were participated.

Dr.K.Nagaraja Setty

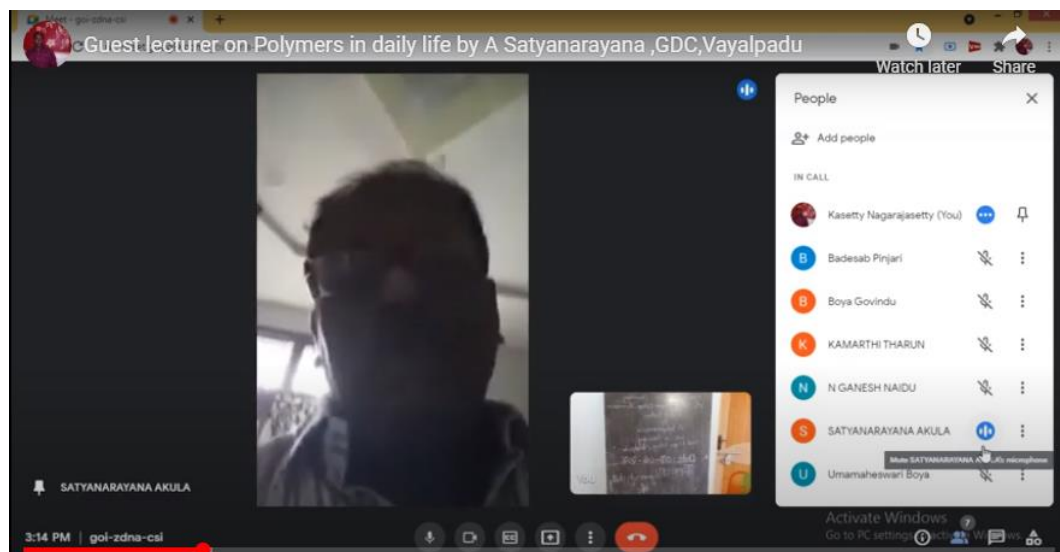
Incharge, Dept.of Chemistry



Welcome address by Dr.K.Nagaraja setty, Inchage,Dept. of chemistry



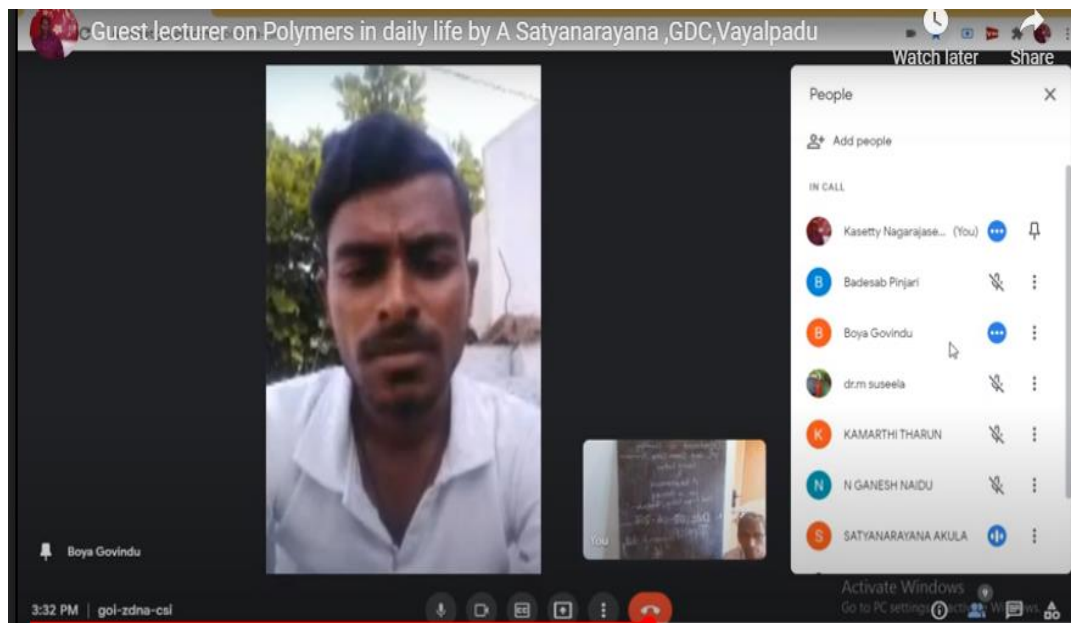
Message by Dr.K.Mahaboob Basha, Principal



Guest lecture delivered by A.satyanarayana,lec.in chemistry,GDC,Vayalpadu



Vote of thanks by Dr.M.Suseelamma, IQAC Coordinator



B.Govindu III BZC Interacted with Guest

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : International Yoga Day

Date : 21-06-21

By

DEPARTMENT OF CHEMISTRY

## International Yoga Day

### Brief Report :

On the occasion of International Yoga day the NSS unit of this college was organized a meeting on 21-06-21 and some exercises conducted for staff for better health.

In this occasion Our college Pricipal addressed the gathering and he said that everyone has practice some exercises daily for good health. In this programme staff and students are participated.

Dr.K.Nagaraja Setty

Incharge, Dept. of Chemistry



Principal and staff



# యోగాతో సంపూర్ణ ఆరోగ్యం

అదోని అర్చన్: దైనందిక జీవితంలో ఆరోగ్య పరమైన సమస్యలు రాకుండా ఉండాలంటే యోగానే మార్గమని, యోగాతో సంపూర్ణ ఆరోగ్యం లభిస్తుందని ఆర్ట్స్ కళాశాల ప్రిన్సిపాల్ అయ్యప్ప అన్నారు. సోమవారం స్థానిక ఆర్ట్స్ కళాశాలలోని ఇండోర్ స్టేడియంలో అంతర్జాతీయ యోగా దినోత్సవం మనంగా జరుపుకున్నారు. ముందుగా వివిధ రకాల యోగాసనాలు వేశారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ రోజూ గంట సమయాన్ని వ్యాయామం, యోగాసనాలకు కేటాయిస్తే జీవితమంతా ఉల్లాసంగా, ఉత్సాహంగా గడపవచ్చని సూచించారు.

**తపాలా శాఖలో..**  
పట్టణంలోని తపాలా శాఖ ప్రధాన కార్యాలయంలో ప్రపంచ యోగా దినోత్సవాన్ని మనంగా జరుపుకున్నారు. ఈ మేరకు ప్రజలకు చేరవేసే ప్రతి ఉత్తరం మీద స్పెషల్ సిరా ముద్రను వేసినట్లు డివిజన్ తపాలా అధికారి హరికృష్ణప్రసాద్ తెలిపారు.

కరోనా మహమ్మారి ఉధృతి దృష్ట్యా ప్రజలను సమూహ పరచకూడదనే ఉద్దేశంతో అవగాహన కల్పించేలా యోగాతో చేయండి - ఇంట్లోనే ఉండండి అనే సందేశాన్ని ఉత్తరాలపై ముద్ర వేసినట్లు ఆయన తెలిపారు.  
ఎమ్మిగనూరుటౌన్: ఆరోగ్యంగా ఉండేందుకు ప్రతి ఒక్కరూ యోగా అలవాటు చేసుకోవాలని స్థానిక మహాయోగి లక్ష్మమ్మవ్వ ప్రభుత్వ డిగ్రీ కళాశాల ప్రిన్సిపాల్ మహబూబ్ బాష సూచించారు. అంతర్జాతీయ యోగా దినోత్సవాన్ని పురస్కరించుకొని సోమవారం కళాశాల ఆవరణలో అధ్యాపకులతో కలిసి ఆయన యోగా చేశారు. ఆయన మాట్లాడుతూ యోగ, ధ్యానంతో ఆరోగ్యంతో పాటు మానసిక ఒత్తిడి దూరం అవుతుందన్నారు. ప్రతిరోజూ యోగా చేయాలని సూచించారు. అధ్యాపకులు హరీష్ బాబు, నాగరాజేశ్వర్లి, సుశీలమ్మ, తిమ్మెస్వామి, వెంకట్రాముడు తదితరులు పాల్గొన్నారు.



అదోని ఆర్ట్స్ కళాశాలలో యోగాసనాలు వేస్తున్న ప్రిన్సిపాల్

అన్నది: యోగాతో మానసిక, శారీరక ఒత్తిడిని జయించవచ్చని ఆలూరు బీజేపీ ఆసెంబ్లీ కన్వీనర్ వెంకటరాముడు అన్నారు. అంతర్జాతీయ యోగా దినోత్సవం సందర్భంగా సోమవారం అన్నదిలోని బీజేపీ కార్యాలయంలో ఆ పార్టీ నాయకులు యోగాసనాలు వేశారు. ఈ సందర్భంగా వెంకటరాముడు మాట్లాడుతూ పద్మాసనం, వజ్రాసనం, సుష్ట వజ్రాసనం, శైలభాసనం, ధనుర్భాసనం, సూర్య నమస్కారం, జ్ఞాన ముద్ర, పృథ్వీ ముద్ర, సూర్య ముద్ర, వాయు ముద్ర, లింగ ముద్రాసనాలు వేస్తూ ఆరోగ్యాన్ని కాపాడుకోవచ్చన్నారు. ప్రతి ఒక్కరూ యోగ



యోగా చేస్తున్న బాబుపా నాయకులు

అదోని పట్టణం, స్కూలుకు: ఫూల్స్ ను మనకు అందించిన అద్భుత ఆరోగ్య సూత్రమే యోగా అని బాబుపా రావు కార్యదర్శి కునిగిరి సీలకంఠ అన్నారు. హనుమాన్ సగర్ లోని బుద్ధి నేతురత్న షాంలలో, వెంకటరమణ దేవాలయ ప్రాంగణంలో బాబుపా అధ్యక్షులలో యోగా దినోత్సవం నిర్వహించారు. పార్టీ అదోని చివర్లా సాచిత్రి, పట్టణ అధ్యక్షుడు జి.ఎం. సాయికుమార్, పట్టణ ప్రధాన కార్యదర్శి ఆదారి విజయలక్ష్మి, కోశాధికారి దిల్లెల దత్తా



మీగ ముద్రలో మహాయోగి లక్ష్మమ్మవ్వ కళాశాల అధ్యాపకులు

## అద్భుత ఆరోగ్య సూత్రమే యోగా

బీజేపీని నాయకులు అంజయకుమార్, ఓపీసీ మోర్గా పట్టణ అధ్యక్షుడు లక్ష్మీనారాయణ తదితరులు పాల్గొన్నారు. అదోని గ్రామీణం, స్కూలుకు: అదోని ఆర్ట్స్ కళాశాలలో సోమవారం అంతర్జాతీయ యోగా దినోత్సవం నిర్వహించారు. విద్యార్థులు, అధ్యాపకులు పలు ఆసనాలు వేశారు. కళాశాల ప్రిన్సిపాల్ అయ్యప్ప వ్యాయామ విభాగా దిపతి ఎల్లెస్వామి మాట్లాడుతూ దైనందిక జీవితంలో యోగాను అలవాటు చేసుకోవాలన్నారు.  
**చోళనూరు (హలహల్లి), స్కూలుకు:** ప్రతిఒక్కరూ వ్యాయామం చేయడంతో ఆరోగ్యం సిద్ధిస్తుందని యోగా గురువు లక్ష్మీనారాయణ అన్నారు. స్థానిక సిద్ధేశ్వరస్వామి ఆలయ ఆవరణలో దినారంబకు పలు యోగాసనాలను నేర్పించారు. నరసింహ, దినానంద, చిన్నబసవ, వెంకటగిరి మర్రిగోడు, తదితరులు పాల్గొన్నారు.  
**ఎమ్మిగనూరు, స్కూలుకు:** మనిషికి యోగాసనాలు ఎంతో ఆవసరమని మహాయోగి లక్ష్మమ్మవ్వ డిగ్రీ కళాశాల ప్రిన్సిపాల్ మహబూబ్ బాష అన్నారు. విద్యార్థులు, సిబ్బందితో కలిసి యోగాసనాలు చేశారు. యోగా మానసిక ఒత్తిడికి, ఉల్లాసానికి ఎంతో దోహదపడుతుందన్నారు. ఎన్.సీ.కే.ఎల్.సి.లో హరీష్ తదితరులు పాల్గొన్నారు.  
అలూరు, స్కూలుకు: యోగాతో ఒత్తిడి దూరమవు



అలూరు : ఆసనాలు వేస్తున్న డిగ్రీ విద్యార్థులు

తుండని ప్రధానాచార్యులు నాగరత్నమ్మ అన్నారు. యోగా దినోత్సవాన్ని పురస్కరించుకుని అలూరులోని ప్రభుత్వ డిగ్రీ కళాశాలలో విద్యార్థులు యోగాసనాలు వేశారు. అదర్థ పాఠశాల వ్యాయామ ఉపాధ్యాయుడు తుదప్ప ఇంటి వద్ద చిన్నారులతో యోగాసనాలు వేయించారు.  
**అన్నది, స్కూలుకు:** నిత్యం యోగా, ధ్యానం చేస్తే ఆయురారోగ్యం కలుగుతుందని బాబుపా అలూరు నియోజకవర్గ కన్వీనర్ దుమ్మ వెంకటరాముడు తెలిపారు. స్థానిక పార్టీ కార్యాలయంలో అంతర్జాతీయ యోగా దినోత్సవం సందర్భంగా మండల కన్వీనర్ వీరేడ్ల అధ్యక్షులలో ఆసనాలను వేశారు. సుధాకర్, యాదులయ్య, సంజయ్, యమరాజు, శంకర్ తదితరులు పాల్గొన్నారు.

SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Help Line Center(Online Admissions)

Date : 2020--2021

By

DEPARTMENT OF CHEMISTRY

## Help Line Center (Online Admissions)

### Brief Report :

The APSHEC has recognized the SML Government Degree College, Yemmiganur has Help Line Center for online Admissions for the academic year 2020-21 in Adoni region of Kurnool district. Nearly 621 students visited the centre . Help line Centre Coordinator and Technical assistants worked for 26 days and resolve the querries. The principal of this college Dr.K. Mahaboob basha has visited the centre daily and give necessary suggestions.



Dr.K.Mahaboob Basha, Principal and Dr. K.Nagaraja setty

HLC Coordinator



Verifying the certificates by Technical assistant



SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Digital classes

Date : 22-04 -2021

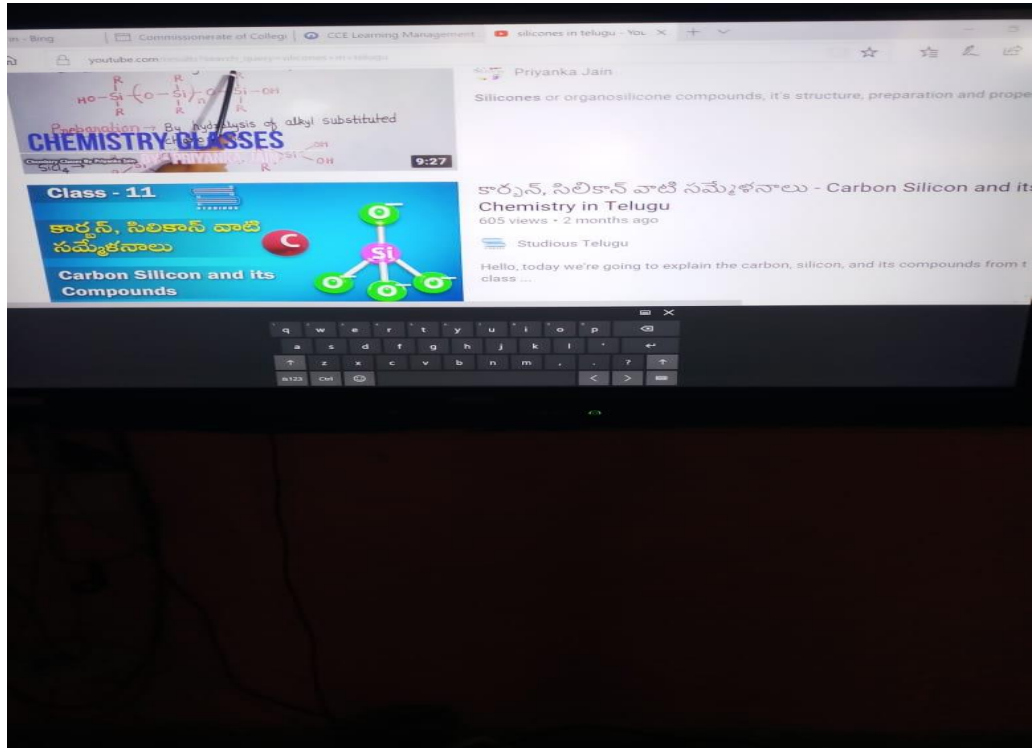
By

DEPARTMENT OF CHEMISTRY



I BZC Students





SML GOVERNMENT DEGREE COLLEGE  
YEMMIGANUR, KURNOOL (DT)

Name of the Activity : Student seminars

Date : 19-06-2021

By

DEPARTMENT OF CHEMISTRY

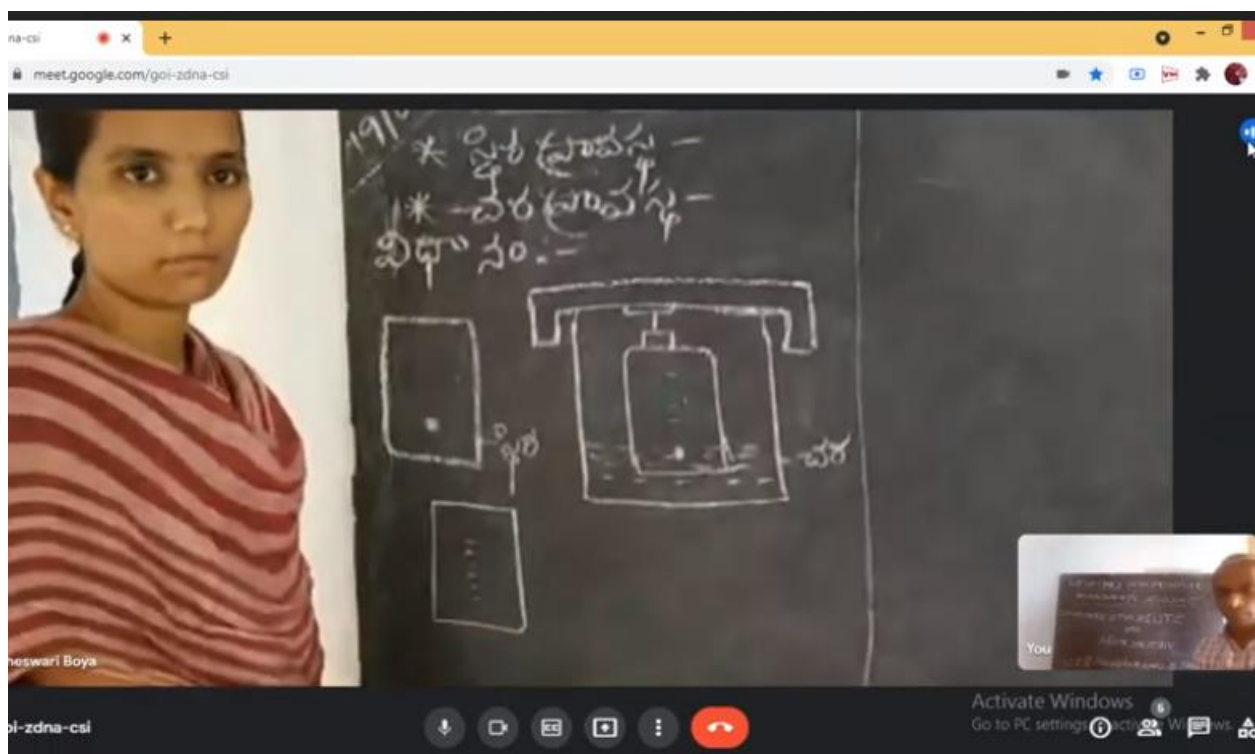
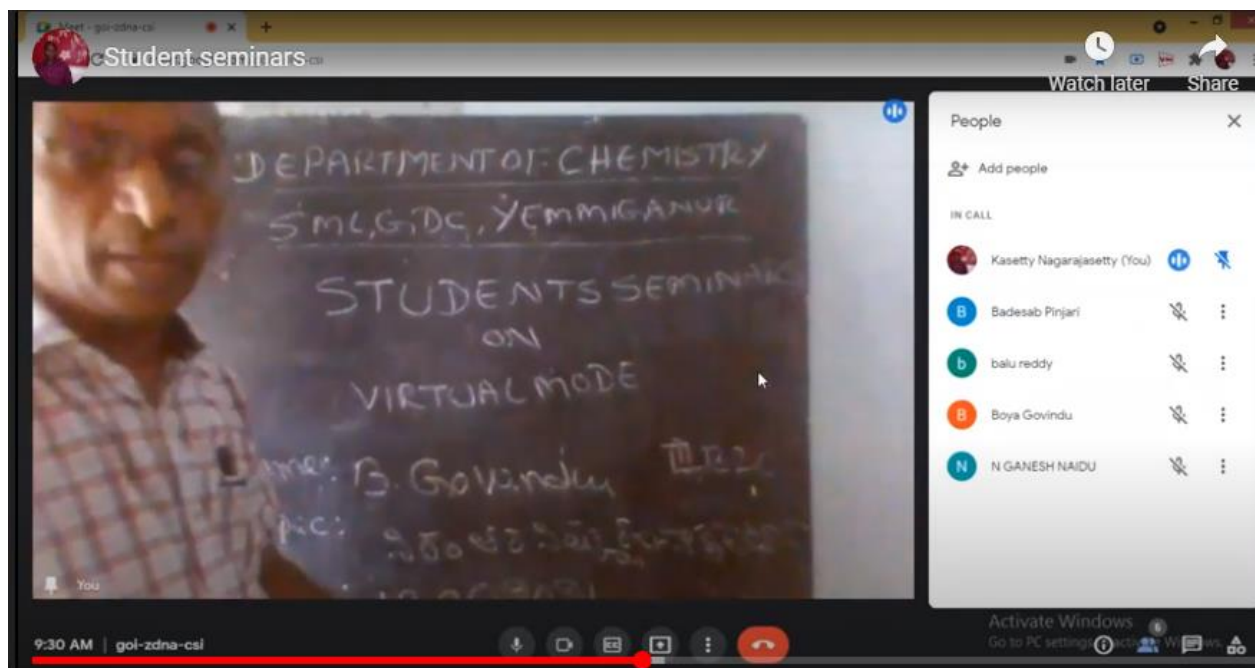
## Student seminars

### Brief Report:

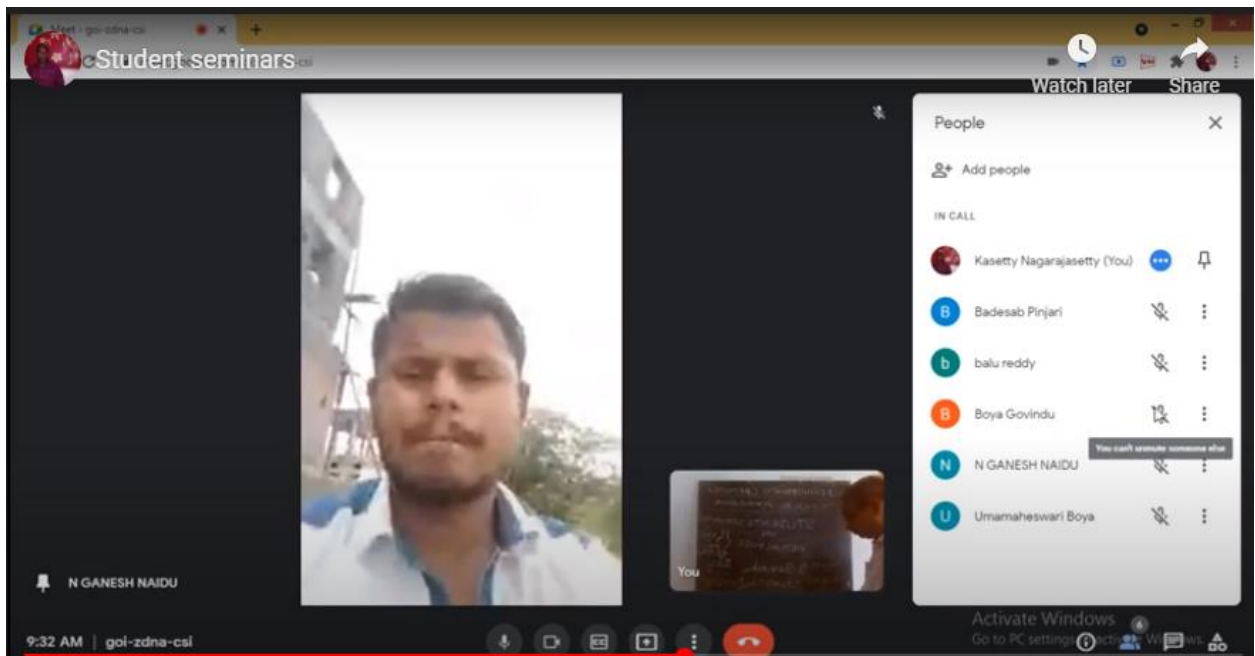
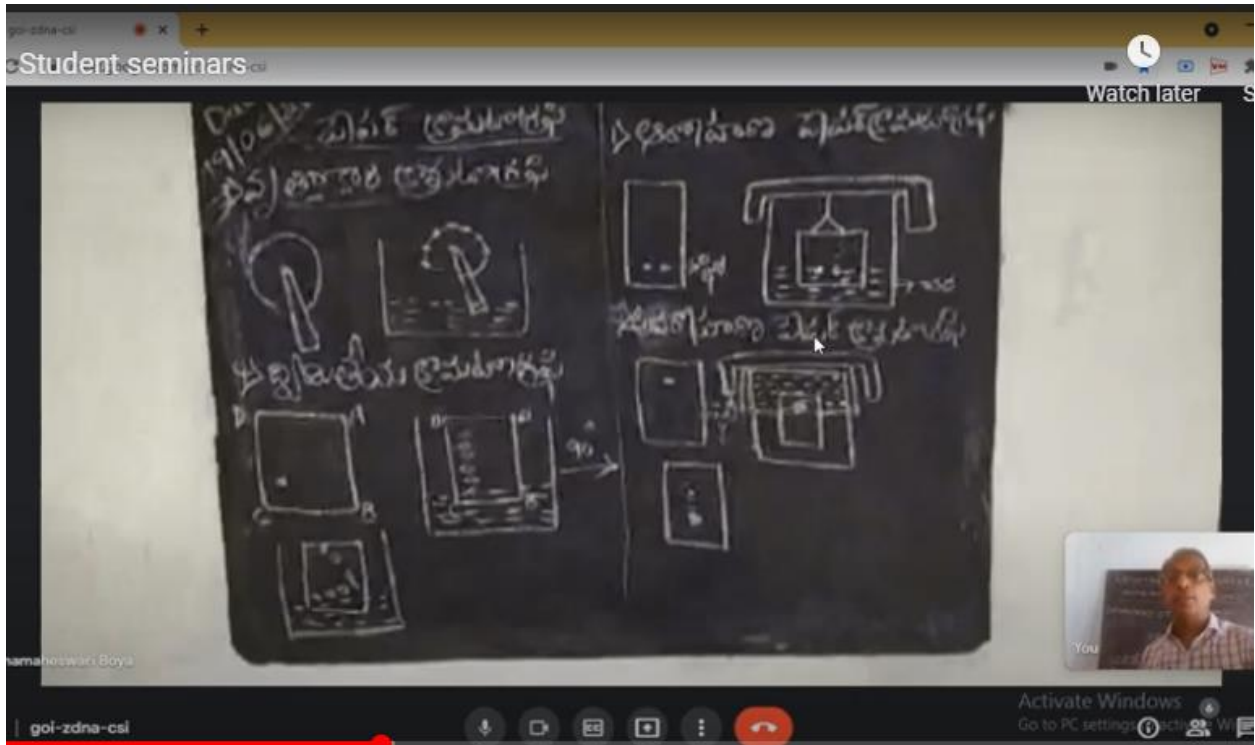
The Student seminars are conducted by Dept. of chemistry for the academic year 2020-21 on off-line and virtual mode for I,II & III students. Many of the students are participated and expressed their views in good manner.

Dr.K.Nagaraja Setty

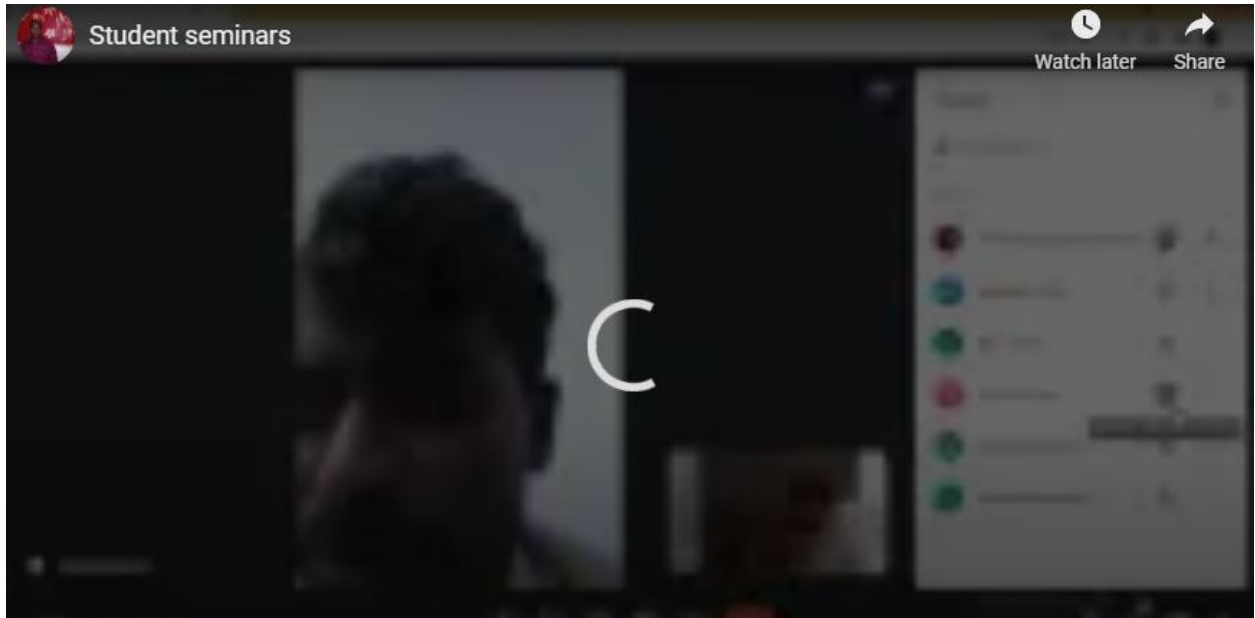
Incharge, Dept. of Chemistry



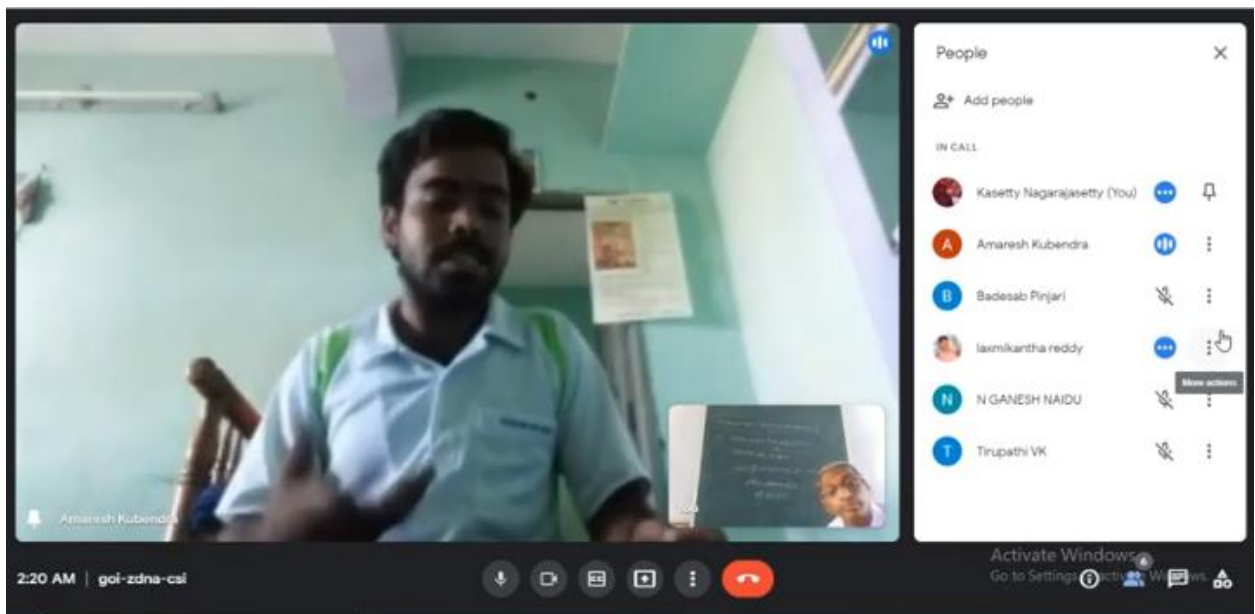
B. Uma maheswari III BZC



N.Ganesh Naidu III BZC



B.Govindu III BZC



B.Amaresh III BZC



II BZC Students



II BZC Students



II BZC Students



I BZC Students



I BZC Students



I BZC Students

SML.GOV.T.DEGREE COLLEGE, YEMMIGANUR

DEPARTMENT OF CHEMISTRY

STUDENT STUDY PROJECT

ON

Detection of Adulterants in some Common Food-Stuff

2020-2021

- |                          |         |
|--------------------------|---------|
| 1. B.Uma Maheswari       | III BZC |
| 2.P.Triveni              | III BZC |
| 3.B.Govindu              | III BZC |
| 4.P.Bade Saheb           | III BZC |
| 5.B.Lakshmi Kantha Reddy | Faculty |

GUIDED BY

Dr.K.NAGARAJA SETTY

Incharge,Dept. of Chemistry

# Detection of Adulterants in some Common Food-Stuff

**AIM:** The Objective of this project is to study some of the Common food adulterants present in different food stuffs

## 1.INTRODUCTION:

Food Adulteration can be defined as the practice of adulterating food or contamination of food materials by adding a few substances, which are collectively called adulterants.

Adulterants are the substance or poor quality products added to food items for economic and technical benefits. Addition of these adulterants reduces the value of **nutrients** in food and also contaminates the food, which is not fit for consumption. These adulterants can be available in all food products which we consume daily, including dairy products, cereals, pulses, grains, meat, vegetables, fruits, oils, beverages, etc.

## 2. Reasons for adulterating food products:

- Practised as a part of the business strategy.
- An imitation of some other food substance.
- Lack of knowledge of proper food consumption.
- To increase the quantity of food production and sales.
- Increased food demand for a rapidly growing population.
- To make maximum profit from food items by fewer investments.

## 3. ACT-1954

An Act to make provision for the prevention of adulteration of food.

(1) This Act may be called the **Prevention of Food Adulteration Act, 1954**.

(2) It extends to the whole of India .

(3) It shall come into force on such date<sup>2</sup> as the Central Government may, by notification in the Official Gazette, appoint.

## 4.Punishment

Any adulterant which is injurious to health, he shall, in addition to the penalty to which he may be liable under the provisions of section 6, be punishable with **imprisonment for a term which shall not be less than one year but which may extend to six years and with fine which shall not be less than two thousand**

5.

<b>Milk and Curd</b>	<b>Water and starch powder.</b>	<b>Stomach disorders.</b>
<b>Ghee, Cheese and Butter</b>	<b>Mashed potatoes, Vanaspati and starch powder.</b>	<b>Gastro-intestinal disturbances and other stomach disorders.</b>
<b>Grains</b>	<b>Dust, Pebbles, Stones, Straw, weed seeds, damaged grain, etc.</b>	<b>Liver disorders, Toxicity in the body, etc.</b>
<b>Pulses</b>	<b>Dyes, chemical and Lead Chromate.</b>	<b>Stomach disorders.</b>
<b>Coffee powder</b>	<b>Chicory, tamarind seeds powder.</b>	<b>Diarrhoea.</b>
<b>Tea</b>	<b>Artificial colouring agents.</b>	<b>Liver disorders.</b>
<b>Sugar</b>	<b>Chalk powder, Washing soda, Urea, etc.</b>	<b>Stomach disorders and kidney failure.</b>
<b>Pepper</b>	<b>Dried papaya seeds and blackberries.</b>	<b>Severe allergic reactions including stomach and skin irritations.</b>
<b>Mustard seeds</b>	<b>Argemone seeds.</b>	<b>Abdominal contractions, sluggishness and increased excretion.</b>
<b>Edible Oils</b>	<b>Mineral oil, Karanja oil, castor oil and artificial colours.</b>	<b>Gallbladder cancer, allergies, paralysis, cardiac arrest, and increased LDL cholesterol.</b>
<b>Turmeric Powder</b>	<b>Pesticide residues, sawdust, chalk dust, industrial dyes, metanil yellow dye arsenic, lead metal etc.</b>	<b>Cancer and Stomach disorders.</b>
<b>Chilli and</b>	<b>Reddish powder, Rhodamine B dye, Red lead</b>	<b>Metal toxicity, Cancer, lead</b>

<b>Coriander powder</b>	<b>dung powder, soluble salts, water-soluble synthetic colours and other common salts.</b>	<b>poisoning, tumour, variations in blood pressure and other stomach related disorders.</b>
<b>Cinnamon sticks</b>	<b>Cassia bark.</b>	<b>Liver Damage, Low Blood Sugar, Mouth Sores and increased risk of cancer.</b>
<b>Cumin seeds</b>	<b>Coloured grass seeds, sawdust and charcoal dust</b>	<b>Stomach disorders.</b>
<b>Jam, Juice and Candies</b>	<b>Non-permitted dyes including metanil yellow and other artificial food dyes.</b>	<b>These dyes are highly carcinogenic that have the potential to cause different types of cancer.</b>
<b>Jaggery</b>	<b>Washing soda, chalk powder</b>	<b>Vomiting and other Stomach disorders</b>
<b>Honey</b>	<b>Molasses, dextrose, sugar and corn syrups</b>	<b>Stomach disorders</b>
<b>Fruits and Vegetables</b>	<b>Chemical dyes, Malachite green, calcium carbide, copper sulphate and oxytocin saccharin wax.</b>	<b>Stomach disorders, vomiting, and dyes used are highly carcinogenic.</b>
<b>Tomato sauces</b>	<b>Pumpkin pulp, non-edible artificial colours and flavours.</b>	<b>Gastritis and inflammation of vital organs.</b>
<b>Ice Cream</b>	<b>Pepper oil, ethyl acetate, butyraldehyde, nitrate, washing powder. The kind of gum is added which is prepared by boiling different animal parts including the tail, udder, nose, etc.</b>	<b>Dreadful diseases that affect organs including lungs, kidneys, and heart.</b>

# SUGAR

Substance name: Sugar

Adultrant: Washing soda & chalk powder

Identification Reaction: Adultrant sugar+water+dil HCl---→Brisk effervations with evaluation of CO<sub>2</sub> gas

Causes: Ulcer, Stomach pain, Vomiting



## TURMERIC POWDER

Substance Name : Turmeric powder

Adultrant: : Lead chromate

Identification Reaction : Turmeric powder+conc HCl-----→Violet Colour

Causes: : Anemia, Convultition, Blindness, cancer



## CHILLI POWDER

Substance Name : Chilli powder

Adultrant: :Potassium dichromate

Identification Reaction : Chilli Powder+ dil  $\text{HNO}_3$ ----- $\rightarrow$ Yellow colour

Causes: :Carcinogenic(Cancer) disease



## OIL

- Substance Name : Oil
- Adultrant : Argemone oil
- Identification Reaction : Oil+Conc HNO<sub>3</sub>-----→Red colour will appear
- Causes : Loss of vision,Heart disease,Beri-Beri



## COFFEE POWDER

Substance Name : Coffee Powder

Adultrant : Chicori or Tamarind seeds powder

Identification Reaction : coffee powder is sprinkled on a water, Coffee powder floats on water and chicory settles at bottom

Causes : Ulcer, Dysentery



## Milk

Substance Name : Milk

Adultrant : Rice Powder

Identification Reaction : Milk+Iodine+heat---->Cooling---> Violet colour

Causes : Dysentery, Vomtings



## GHARAM MASALA

Substance Name : Gharam masala

Adultrant : Atrificial colour

Identification Reaction : Garam masala+Ether+H<sub>2</sub>SO<sub>4</sub>-----Red Colour

Causes : Anaemia, Convulsion, Cancer



## GHEE

Substance Name : Ghee

Adultrant : Dalda

Identification Reaction : Ghee +dil HCl+Sugar----→Red colour

: Ghee+ dil HNO<sub>3</sub>-----→Yellow colour (bottom)

Causes : Cancer,Ulcer,Obesity



## CORIANDER POWDER

Substance Name : Coriander powder

Adultrant : Common salt

Identification Reaction : Coriander powder+AgNO<sub>3</sub>----→White ppt (Curd like)

Causes : High B.P., Stomach pain



## 6. How can Adulteration be Prevented

According to the National Health Service and Food Research Institute, several food products have been adulterated to increase the quantity and make more profit. This practice of adding adulterants to food products are quite common in all in developing countries and other backward countries.

Every year, the 7th of April is celebrated as the World Health Day globally and as per the reports, WHO aims to bring a general awareness about the adulterations of food products, motivate and inspire everybody to have a healthy, balanced diet.

## 7. Certain safety tips to avoid Adulteration

1. Avoid dark coloured, junk and other processed foods.
2. Make sure to clean and store all the grains, pulses and other food products.
3. Wash fruits and vegetables thoroughly in running water before they are used.
4. Check if the seal is valid or not, before buying food products like milk, oil and other pouches.
5. Always make sure to check and buy products having an FSSAI-validated label, along with the license number, list of ingredients, manufactured date, and its expiration.

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## 9.CONCLUSION:.

Adulteration in food is normally present in its most crude form, prohibited substances are either added or partly or wholly substituted. Normally the contamination/adulteration in food is done either for financial gain or due to carelessness and lack in proper hygienic condition of processing, storing, transportation and marketing. This ultimately results that the consumer is either cheated or often become victim of diseases. Such types of adulteration are quite common in developing countries or backward countries.

## 10.References:

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**THANK YOU**