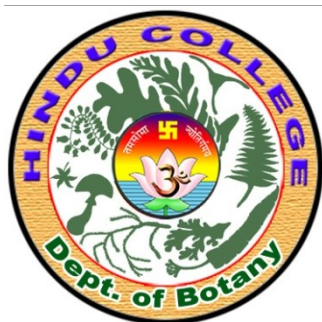




HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

DEPARTMENT OF BOTANY

EXPERIENTIAL LEARNING

COMMUNITY OUTREACH PROGRAMME

2020-2021

HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(Q_LM)

COMMUNITY OUTREACH PROGRAMME

SNO	ACTIVITY	DATE	DURATION hrs/days	No. of Participants
2020-21				
7	YOUTH DAY	12-01-2021	ONE DAY	08

LABORATORY SESSIONS

INDEX

S.No.	Name of The Activity	Date	Duration hrs/days	No. of Participants
2020-21				
4	BOTANY LAB EXPERIMENT “TISSUE SYSTEMS”			32

FIELD VISITS

INDEX

S.No.	Name of The Activity	Date	Duration hrs/days	No. of Participants
2020-21				
5	VISIT TO LAM FARM	01-02-2021	ONE DAY	17

HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(Q_LM)

National Youth Day

Title of the Event : National Youth Day
Date : 12-01-2021
Venue : Hindu College, Botany Department
Co-ordinator : K. V. S. Durga Prasad
No. of Staff members involved : 05
No. of Students involved : 30

Aim of the event : To bring the awareness of Swamy Vivekanda and his mission

Programme procedure: On the occasion of National youth day and swamy Vivekananda birthday. We arranged a meeting to the students in our department .Our teachers spoke about Vivekananda and also allowed the students to share their views .

Outcome of the Event: Students got very much motivated with the event.

HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(QLM)



HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(Q_LM)

BOTANY LAB EXPERIMENT “TISSUE SYSTEMS”
2020-2021

Name of the event : BOTANY LAB EXPERIMENT “TISSUE SYSTEMS

Venue : Botany lab – 1

Co-ordinator : G.V.S. Subrahmanyam

No. of students participated : 32

Objective of the event : To study the plant tissues, by taking the section cutting of the root, stem and leaf thin sections of roots of dicot and Monocot showing the tetrac (8 + vascular bundles) in Monocot. In stem, the vascular bundles are broken ring, and in Monocot they are scattered type.

Out of the event : The students got practical knowledge in identifying the internal structure of dicot and Monocot plants by studying the internal characters.



HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

Visit to LAM FARM

Name of the Event	: Field Visit to Lam Farm
Date	: 01-02-2021
Venue	: Lam Farm Agricultural Station, Amaravathi Road, Guntur
Chief Guest	: Dr. K. Sarada
Co-ordinator	: Dr. M. Madhavi
No. of Staff members involved	: 03
No. of Students participated	: 14

Objective of the Event : To bring awareness among students in practical knowledge and also to have interaction with scientists of the 'LAM FARM research station.

Plan of Execution: The Department of Botany organized study visit to LAM FARM Research Station Guntur, Dr.M.Madhavi involved very actively in co-ordinating this event. The other Staff members as K.V.S.Durga Prasad HOD of Botany, G.V.S. Subhramanyam and Dr. N. Kirshana also involved Students are very happy in explaining the crop techniques to the students. Students visited pathology division and learned the different diseases caused to the crop plant and the preventive measures to be take Dr.N.Suresh senior scientist explained the various techniques in Pesticides and insecticides. Dr. P.Lakshmana Rao senior scientist in soil science

Explained about different types of soils and also the growth. If crops in different soils pH Solubilities absorption capacities of soils Dr.K.Sarada Senior Scientist in Plant Biotechnology explained about the latest techniques that are used in crop improvement and explained the working mechanism of PCR-SDS-DNA isolation techniques.

The Department of Botany students learned the practical knowledge in handling the biotechnological tools and also different crops grown in the LAM field

Outcome of the Event: Students are very happy in learning the advance techniques in plant biotechnology and acquired knowledge on hands in techniques with scientists.

 HINDU COLLEGE GUNTUR
Department of Botany

The collage consists of 10 photographs arranged in a grid-like fashion. The top row shows the entrance of Acharya N.G. Ranga Agricultural University, a group of people in a field, and a group in front of a building. The middle row shows a group in a field, a group in front of a building, and a group in a laboratory. The bottom row shows a group in a field, a group in a laboratory, and a group in a field. A banner for the 'EDUCATIONAL TOUR' is visible in several photos.



HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

DEPARTMENT OF BOTANY

PARTICIPATIVE LEARNING

ASSIGNMENTS & WEB ASSIGNMENTS

WEBINARS

GROUP DISCUSSIONS

SEMINARS

2020-2021

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

INDEX ASSIGNMENTS

S.NO	TOPIC	No. of Participants
2020-21		
16	Transpiration	5
17	Plant diseases caused by Bacteria	5
18	Bentham& Hooker's Classification	5

WEB ASSIGNMENTS

S.No.	Name of the Topic	No. of students Participated
2020-2021		
10	Phytogeographic regions of India	1
11	Botanical nomenclature	1
12	Chromosomes	1

WEBINARS

SNO	ACTIVITY	DATE	DURATION hrs/days	No. of Participants
2020-21				
1	National Webinar on World Environment day	05-06-2020	One Day	500
2	Webinar on International Bio-Diversity Day	22-05-2021	One Day	175

GROUP DISCUSSIONS

Sl.No.	Name of the Topic	No.of Participants
2020-2021		

1	Population community	4
2	Virus living or non living	4
3	Heterospory and seed habit	4

SEMINARS

SNO	TOPIC	DURATION hrs/days	No. of Participants
2020-21			
16	General characters of viruses	10min	1
17	Annonaceae	10min	1

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(Q_LM)

ASSIGNMENTS

S.NO	TOPIC	No. of Participants
2020-21		
16	Transpiration	5
17	Plant diseases caused by Bacteria	5
18	Bentham& Hooker's Classificatio n	5

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

NATIONAL WEBINAR ON WORLD ENVIRONMENT DAY

Name of the Event: National Webinar on World Environment day

Date: 05-06-2020

Venue : Online Zoom Platform

Chief Guests : Prof.Dr. Appa Rao Podile, VC, University of HYD. Prof.KVSG Murali Krishna, JNTU Kakinada.

Other Dignitaries : Secretary & Correspondent and Principal

Co-ordinator : KVS Durga Prasad, HOD of Botany

No. of Staff members involved : 20

No. of Students participated : 500

Objective of the Event: To bring awareness about the importance and role of Nature to the Mankind, and also the role of public towards Nature.

Plan and Execution: World environmental day is celebrated as a festival every year on 6th June. In this process, the Department of Botany organised this event @ on-line due to pandemic.

The Resource Persons are:-



podili apparao-converted.pdf

Prof. Dr. Podile Appa rao *PhD, DSc(h.c), FNA, FNSc, FNASc, FNAAS, FAMI*

Senior Professor, J.C.Bose Fellow(DST), Vice Chancellor, University of Hyderabad, Adjunct Chair Professor, Department of Biotechnology, Asia University, Taichung, Taiwan

Topic- LIVING WITH THE VIRUS.

Given a wonderful talk on "Role of Virus in Protecting the Nature". Virus is playing a big role in cleaning the environment by decaying the dead bodies on earth from time to time. Among many viruses some are harmful as Corona Virus and some are beneficial as (SARS). He explained about the importance of virus to the mankind and nature, and also the explained the role of covid-19 as a population control tool in this Globe.

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

Prof. GVSG Murali Krishna. *B.E., M.E., PhD.,*

JNTU- Kakinada, Member SEAC, Member of MoEF Govt of India, Member of Committee of APCCB, EGDt. AP Scrutinizer.

Topic- TIME FOR THE NATURE.

He gave a valuable talk on Nature, the nature is called as a 'Mother', because it is accepting and bearing all the good and bad from the living organism. The nature is responding accordingly to seasons, time and factors. The nature always do best to the living organisms. If the nature is not in balanced condition, the effect is shown to the entire World. The World cannot go against nature, the things done by the human beings should be acceptable by the nature as plantation, afforestation, preventing forest fire, Saving the endangered and endemic Funa etc.

Outcome of the Event: The students and staff got good information about the viruses and the role of nature, and also learned about to protect the nature for our future generation. Poster presentation activity also conducted by the students on the same topic, as of that the students felt very happy in preparing their own poster presentation and explaining it.



Hindu College, Guntur

NAAC Re-Accredited 'A' grade college

Department of Botany

One Day National Webinar

On the eve of World Environment Day 5th June 2020

During the COVID-19 pandemic, at the time we are forced to stay indoors digital platforms are providing a great opportunity to learn virtually.

On this World Environment Day, we must learn how all living beings on earth are connected in the web of life and how we can act for nature.

No registration fees. Certificate of Participation will be issued after the submission of evaluation form after the webinar



SPEAKERS

10:00 am -11am
11:15 am -12.15am

Noon Session: 2:00 pm - 4:00 pm
Poster presentation competitions only for students .
Topic: Time for Nature
1st 2nd 3rd cash prizes and merit certificates will be given

Interested Candidates can register by using the link given below. Registrations will close by 2nd June 9:00 PM with limited seats available. Zoom Meeting link & Whatsapp link will be sent to the candidates

Prof. Dr. Appa Rao Podile
Ph.D., D.Sc.(h.c.), FNA, FASc, FNAsc, FNAAS, FAMI
Senior Professor, J.C. Bose Fellow (DST)
Vice Chancellor, University of Hyderabad
Adjunct Chair Professor, Department of Biotechnology
Asia University, Taichung, Taiwan
Topic: Living With the virus

Prof. KVSG Murali Krishna
B.E., M.E., PhD.,
JNTU Kakinada, Member SEAC,
Member of MoEF Govt of India
Member of Committee of APCCB,
EGDt, AP, Scrutinizer
Topic: Time for Nature

ORGANISING COMMITTEE

Chief Patron	Patron	Organizing President	Organizing Secretary	Organizing Committee
Sri S.V.S Somayaji, President, Hindu College Committee	Sri Ch. Rama Krishna murthy, Secretary and Correspondent, Hindu College Committee.	Smt. V. Mani kumari, Principal	Sri K.V.S Durga Prasad, HOD, Botany 9848110174	Dr. M. Madhavi, Lecturer in Botany G.V.S Subramanyam, Lecturer in Botany

For more Details – durgaprasad.katrapati@gmail.com, 9848110174, 7981058549

Link: <https://forms.gle/nSUKqGG7KzEo4UzV7>

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)



Hindu College, Guntur

NAAC Re-Accredited 'A' grade college
Department of Botany
One Day National Webinar
On the eve of World Environment Day 5th June 2020






Chief Patron	Patron	Organizing President	Organizing Secretary	Organizing Committee
Sri S.V.S Somayaji, President, Hindu College Committee	Sri Ch. Rama Krishna murthy, Secretary and Correspondent, Hindu College Committee,	Smt. V. Mani kumari, Principal	Sri K.V.S Durga Prasad, HOD, Botany 9848110174	Dr. M. Madhavi, Lecturer in Botany G.V.S Subramanyam, Lecturer in Botany

HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(QLM)

POSTER PRESENTATION-PARTICIPANTS LIST

HINDUCOLLEGE GUNTUR		
NATIONAL WEBINER - FRIDAY 05.06.2020		
DEPARTMENT OF BOTANY		
SNO	NAME OF THE PARTICIPANT	COLLEGE ADDRESS
1	Anam Shahid	Debojyoti Mondal, Sayan Kumar Saha Surendranath College, University of Calcutta.
2	ANAMIKA BISWAS , MITALI PAUL , ROHIT DAS , SAYANTIKA ROY	DEPERTMENT OF BOTANY, SURENDRANATH COLLEGE , UNIVERSITY OF CALCUTTA.24/2 ,MG ROAD , KOLKATA-700009
3	ARITRIKA SINHA	DEPARTMENT OF BOTANY SURENDRANATH COLLEGE.
4	chakradhar dirisala	HINDU COLLEGE GUNTUR
5	CHANDRIMA ADHIKARY	DEPARTMENT OF BOTANY SURENDRANATH COLLEGE.
6	KSV MANIKANTA	TJPS GUNTUR
7	Laasyapriya Mudigonda	HINDU COLLEGE GUNTUR
8	A.RAJA Mallika Reddy	AGRICULTURAL COLLEGE, BAPATLA
9	N VIJAY SAHIT	HINDU COLLEGE GUNTUR

HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(QLM)



HINDU COLLEGE, GUNTUR [AP]
RE-ACCREDITED BY NAAC WITH 'A' GRADE
DEPARTMENT OF BOTANY
NATIONAL WEBINAR
WORLD ENVIRONMENTAL DAY - 05-06-2020

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Mrs/Ms
has successfully participated in the one day National Webinar on the
occasion of World Environmental Day organized by Department of
Botany on 05-06-2020



Organizing Secretary
KVS. Durga Prasad,
HOD of Botany

Smt. V. Mani Kumari
Principal, Hindu College

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

Webinar on International Bio-Diversity Day

Name of the Event: International Bio diversity Day

Date: 22-05-2021

Venue : Online Zoom Platform

Chief Guest:Dr. A. V. V. S. Swamy, (HOD,ENV.ANU.) ; Dr .V. Sailaja, HOD,(Zoology VSU.)

Co-ordinator : Dr. M.MADHAVI

No. of Staff members involved : 25

No. of Students participated : 352

Objective of the Event: To bring awareness among students and staff about, Bio diversity. The role of human beings in protecting the loss of Biodiversity.

Plan and Execution:Botany Department organized national webinar on event of “Biodiversity Day”. Staff scholars and students from various colleges and universities attended this webinar.

Dr. Swamy sir: Explained the role of human beings in protecting the loss of Biodiversity, explain the methods of Ex -situ and In- situ conservation. Also explained about species biodiversity; different species living in a place and on two individual is identical to itself.

Genetic diversity: Every individual exhibits different shape, size, and colour with respect to its habitat. The same individual exhibits in different forms because of its genetic variability.

Ecosystem diversity: Each and every individual have its own habit and habitat.

Dr.V.Sailaja garu: Explained about the statistical data of Biodiversity of India and International India is the world 8th most bio-diverse region of the world of 102,718 species of found 36 Bio diversity hot spots.

Outcome of Event: Acquired good knowledge by this webinar .

HINDU COLLEGE – GUNTUR

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Hindu College, Guntur

NAAC Re-Accredited 'A' grade college
Department of Botany

One Day National Webinar 22nd May 2021 10 AM to 1PM
On the Occasion of International day for Biological Diversity Day



22 MAY 2021

BIODIVERSITY DAY

We're part of the solution #ForNature

Speakers



Dr V.Sailaja,
Head I/C, Dept. of Botany
Asst. Professor of Zoology
Vikrama Simhapuri University
P.G Centre Kavali,
SPSR Nellore Dt.



Dr. A.V.V.S. Swamy
Associate Professor
H.O.D. Environmental Science
Acharya Nagarjuna university
Nagarjunanagar,
Guntur District, A.P.

ORGANISING COMMITTEE

Chief Patron :
Sri S.V.S Somayaji,
President, Hindu College Committee

Patron :
Sri Ch. Rama Krishna Murthy,
Secretary and Correspondent,
Hindu College Committee,

Organizing President :
Dr. D.N. Deekshit, Principal

Organizing Secretary :
Sri K.V.S Durga Prasad, HOD, Botany
9848110174

Organizing Committee:
Dr. M. Madhavi,
G.V.S Subramanyam,
Dr. N. Krishna
Dr. G. Ramesh

WHATSAPP MESSAGE

Hindu College Guntur AP, Department of Botany
National Webinar on International Biological Diversity Day
Time: May 22, 2021 Saturday, 10:00AM to 1-00 PM.

We request you to connect virtually and participate in the webinar on this very important day .

Join Zoom Meeting

<https://us02web.zoom.us/j/85226079582?pwd=dkNJUjJhMWtDOEF0dmFIYkI4d2hndz09>

Meeting ID: 852 2607 9582

Passcode: 123456

HINDU COLLEGE – GUNTUR
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GOOGLE FORM LINK FOR REGISTRATION

<https://docs.google.com/forms/d/e/1FAIpQLSenh36SMd59kOzhz6vG07iOZHHiRDTWUOBmwEBI4A0FGd8IyQ/closedform>

WHATSAPP GROUP

Follow this link to join my WhatsApp group:

<https://chat.whatsapp.com/D4PSFDu9OfOJmUkyUM2lxK>



Biodiversity grp
Group chat invite

Follow this link to join my WhatsApp group:

<https://chat.whatsapp.com/D4PSFDu9OfOJmUkyUM2lxK>

18:27 ✓✓

View group

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

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PROGRAMME SHEET

**Hindu College, Guntur**

NAAC Re-Accredited 'A' grade college
Department of Botany
One Day National Webinar 22nd May 2021 10 AM to 1PM
On the Occasion of International day for Biological Diversity Day

PROGRAMME SCHEDULE 10.00 AM to 1.00 PM

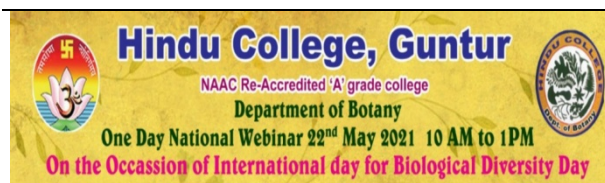
9.45 to 10.05	: Sri K.V.S. Durga Prasad Inaugural speech and Video play
10.05 to 10.15	: Sri Ch. Ramakrishna Murthy, Secretary & Correspondent
	: Dr. D.N. Deekshit, Principal
	: Dr. N. Viswam, Vice Principal
10.15 to 10.30	Sri S.V.S. Lakshmi Narayana Vice President, Hindu College, Guntur
10.30 to 10.35	: Introduction of Speaker, Dr. V. Sailaja by Dr. M. Madhavi
10.35 to 11.15	: Dr. V. Sailaja, Assistant Professor of Zoology, Vikram Simhapuri University
11.15 to 11.25	: Interaction Session - Dr. S.V.S. Girija
11.25 to 11.30	: Thanks by Miss K. Meghana, I M.Sc. Botany
11.30 to 11.35	: Sri P.M. Prasad, Vice Principal
11.35 to 11.40	: Introduction of Speaker, Dr. A.V.V.S. Swamy By Sri G.V.S. Subrahmanyam
11.40 to 12.40 PM	: Dr. A.V.V.S. Swamy, HOD of Environmental Science, Acharya Nagarjuna University
12.40 to 12.50	: Interaction session and Thanks by Dr. N. Krishna
12.50 to 12.55	: Vote of Thanks by Dr. G. Ramesh

ZOOM LINK:
<https://us02web.zoom.us/j/85226079582?pwd=dkNJUjJhMWtDOEF0dmFIYkI4dHdz09>
Meeting ID: 852 2607 9582
Passcode: 123456

HINDU COLLEGE – GUNTUR

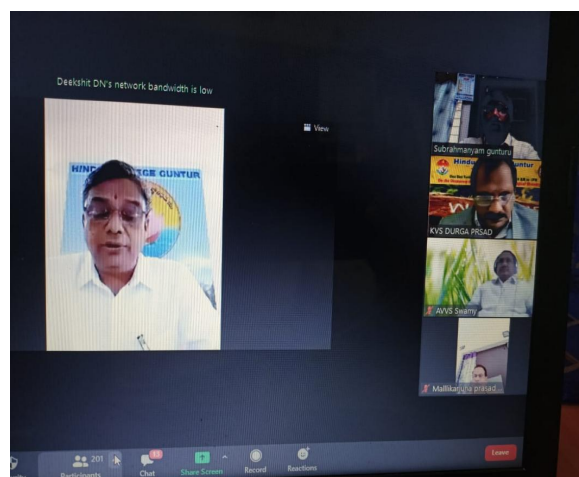
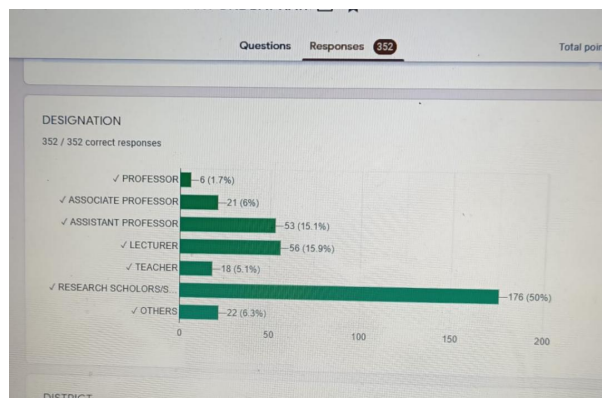
STUDENT CENTRIC METHODS

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Response for the webinar from various states of the country

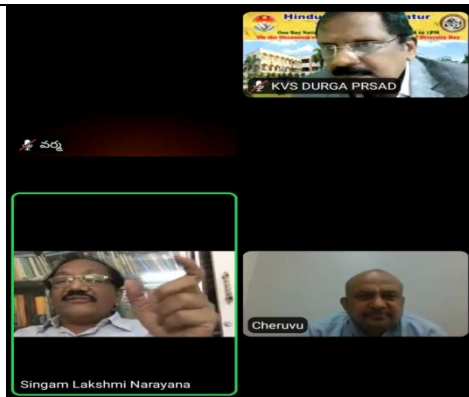
Andha Pradesh	302		
Telangana	26	PROFESSOR	6
Dehradun	4	ASSOCIATE PROFESSOR	24
Jharkhand	4	ASSISTANT PROFESSOR	58
Karnataka	5	LECTURER	66
Kerala	16	TEACHER	19
Madhya pradesh	6	RESEARCH SCOLOR/STUDENT	252
Maharashtra	6	OTHERS	26
Manipur	2		
Marrakech	2		
Meghalaya [ML]	1		
Morocco	1		
New Delhi	2		
Odisha	6		
Rajasthan	10		
Tamil Nadu	11		
Uttarakhand	34		
Uttar Pradesh	8		
West Bengal	5		
TOTAL	451		



HINDU COLLEGE - GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)



PRESS COVERAGE



జీవ వైవిధ్య పరిరక్షణ అవసరం

గుంటూరు సాంస్కృతికం, న్యూస్ టుడే: స్థానిక జంతుశాస్త్ర విభాగాధిపతి డాక్టర్ వీఎస్ శైలజ హిందూ కళాశాల పుష్క శాస్త్ర విభాగం ఆధ్వర్యంలో జీవ వైవిధ్య పరిరక్షణ ప్రాధాన్యం శనివారం అంతర్జాతీయ జీవ వైవిధ్య దినోత్సవం పాఠశాల స్థాయినుంచే అందరికీ తెలియజేసిన అవకాశాన్ని పురస్కరించుకొని జూమ్ అంతర్జాల వేదికగా జాతీయ సదస్సు ఆరిగింది. సదస్సులో దేశ వ్యాప్తంగా 250 మంది పాల్గొన్నారు ముఖ్యఅతిథిగా ఆచార్య నాగార్జున విశ్వవిద్యాలయం పర్యావరణ శాస్త్ర విభాగాధిపతి ప్రొఫెసర్ పీవీపీఎస్ స్వామి పాల్గొన్నారు. ఆయన ప్రసంగిస్తూ జీవ వైవిధ్య అధ్యయనాలు విస్తృతంగా జరగాల్సిన అవసరం ఉందన్నారు. స్థానిక ఉన్న ప్రతి జీవికీ ఏదో ఒక ప్రత్యేకత ఉంటుందని, దానిని గుర్తించి దానికి తగిన ప్రాధాన్యం ఇవ్వాలన్నారు. ఈ పద్ధతి లేనందు వల్లనే ప్రస్తుతం ప్రపంచాన్ని మహమ్మారి గడగడ లాడినట్లొందన్నారు. గౌరవ అతిథిగా పాల్గొన్న విక్రమ సింహపురి విశ్వవిద్యాలయం

జీవ వైవిధ్య పరిరక్షణతోనే మానవ మనుగడ

గుంటూరు ఎడ్యుకేషన్, జీవ వైవిధ్య పరిరక్షణ సైన్ మానవజాతి మనుగడ అధారమే ఉందని ఏపీ నీయూ పర్యావరణ శాస్త్ర విభాగాధిపతి ప్రొఫెసర్ పీ.వి.వి.ఎస్.స్వామి పేర్కొన్నారు. అంతర్జాతీయ జీవ వైవిధ్య దినోత్సవం సందర్భంగా శనివారం మార్చిడ్ సెంటర్లో హిందూ కళాశాల, టోటల్ విభాగ ఆధ్వర్యంలో ఆన్లైన్లో జాతీయస్థాయి సదస్సు నిర్వహించారు. ముఖ్య అతిథిగా పాల్గొన్న ప్రొఫెసర్ స్వామి మాట్లాడుతూ ప్రకృతిలో మనిషిలో పాటు సకల జీవ, జంతుజాలం అంతర్భాగమన్నారు. అయితే మనది స్వార్థంతో రుబ్బా ఉన్న జంతుత్వం, పక్షాల్ని నాశనం చేస్తూ దివంగి జీవ మనుగడనే ప్రాధాన్యం చేసుకుంటున్నాడని ఆంధ్రేశ పక్షం చేశారు. జీవ వైవిధ్య అధ్యయనాన్ని



విభాగంలో వివిధ రాష్ట్రాల నుంచి పాల్గొన్న వారిలో కిరిసి మాట్లాడుతున్న స్వామి

మరింతగా విస్తృతం చేసి, ప్రతి జీవని గుర్తించి ప్రాధాన్యత ఇవ్వాలని సూచించారు. జీవ వైవిధ్య పరిరక్షణ ప్రాధాన్యతను విక్రమ సింహపురి విశ్వ

విద్యాలయం జంతుశాస్త్ర విభాగాధిపతి డాక్టర్ కె.వి. ఎస్. శైలజ వివరించారు. హిందూ కళాశాల కార్యదర్శి సీహెచ్. రామకృష్ణమూర్తి మాట్లాడుతూ మనది ఎడ్యుకేషన్లో సమస్యల్నించికీ ప్రకృతిలోనే పరిష్కారాలు ఉన్నాయన్నారు. పర్యావరణ భావాలతోగలిగితే అనే మానవజాతిని కాపాడుతుందని తెలిపారు. వెబినార్లో కళాశాల ఉపాధ్యక్షుడు ఎన్.వి.ఎస్. లక్ష్మీనారాయణ, ప్రెస్ పాల్ డాక్టర్ డీఎన్ డీకీత్, వైస్ చైర్మన్ పి.ఎం. ప్రసాద్, సమన్వయకర్త ఎన్.వి.ఎస్. గిరిజ, కార్యదర్శి కె.వి.ఎస్. దుర్గాప్రసాద్, అధ్యాపకులు డాక్టర్ మాధవి, సుబ్రహ్మణ్యం, కృష్ణ, రమేష్తో పాటు దేశవ్యాప్తంగా వివిధ రాష్ట్రాల నుంచి 250 మంది పాల్గొన్నారు.

సాక్షి Sun, 23 May 2021
https://epaper.sakshi.com/c/68637114

జీవ వైవిధ్యంపై ప్రజల్లో అవగాహన కల్పించాలి

గుంటూరు(విద్య), మే 22, ప్రజలకు జీవవైవిధ్యంపై విస్తృత ప్రచారం చేయాలని ఆచార్య నాగార్జున విశ్వవిద్యాలయం పర్యావరణశాస్త్ర విభాగాధిపతి ఆచార్య పీవీపీఎస్ స్వామి పేర్కొన్నారు. అంతర్జాతీయ జీవవైవిధ్య దినోత్సవం సందర్భంగా శనివారం జూమ్ యాప్ ద్వారా హిందూ కళాశాల ఆధ్వర్యంలో

నిర్వహించిన సదస్సులో ఆయన మాట్లాడారు. విక్రమ సింహపురి పర్మిట్ జంతుశాస్త్ర విభాగాధిపతి డాక్టర్ వీఎస్ శైలజ, హిందూ కళాశాల ప్రెస్ పాల్ డాక్టర్ డీఎన్ డీకీత్, వైస్ చైర్మన్ పిఎల్ ప్రసాద్, కోఆర్డినేటర్ ఎన్.వి.ఎస్. గిరిజ, కేవీఎస్ దుర్గాప్రసాద్, డాక్టర్ మాధవి, సుబ్రహ్మణ్యం, కృష్ణ, రమేష్ తదితరులు పాల్గొన్నారు.

HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(Q_LM)

E-Certificate for participants



HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(QLM)



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HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

Group Discussion::2020-2021

Topic : “POPULATION COMMUNITY”

Title of the Event : Group Discussion

Venue : Botany lab

Co-ordinator : Dr. M. Madhavi

No. of Staff members involved : 01

No. of Students involved : 04

Objective of the event: To study the Population community.

Discussion: The students discussed about population community. Population it is a group of individuals of the same species which can reproduce among themselves and occupy a particular area in a given time. Community it is an assemblage of several populations in a particular area and exhibits interaction and interdependence through trophic relationship. Populations are biotic parts of the environment because they are alive. When you combine all of the populations of say a forest and population grass population do population bear population that group called the community.

Outcome of the Event: The students got good practical and theory knowledge.



HINDU COLLEGE – GUNTUR STUDENT CENTRIC METHODS

2.3.1(QLM)

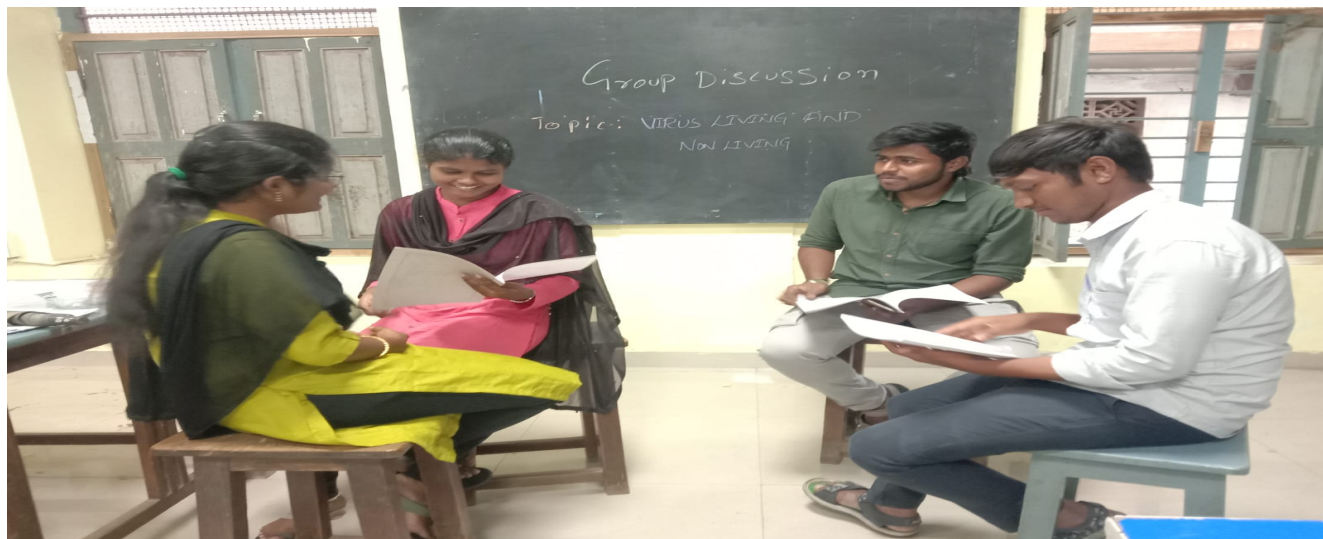
Topic : “VIRUS LIVING OR NON LIVING”

Title of the Event : Group Discussion
Venue : Botany lab
Co-ordinator : K.V.S. Durgaprasad
No. of Staff members involved : 01
No. of Students involved : 04

Objective of the event: To study the Virus living or non living.

Discussion: The students discussed on the virus, living and non-living virus. Virus can only be seen under an electron microscope. Viruses are not free living they can only be parasites. All viruses inject living organism and may cause disease viruses cause many types of diseases such as polio, Ebola and hepatitis. Viruses reproduce by getting their nucleic acid strand into a prokaryote or eukaryotic cell. The RNA or DNA strand then takes over the cell machinery to reproduce copies of itself and the protein coat viral injections in animals trigger an immune response which usually kills the injecting virus vaccines can also produce immune response they give an artificially acquired immunity to the specific viral injection.

Outcome of the Event: This group discussion has given a good knowledge of student in sharing them the information among them this is very useful for improving communication skills.



HINDU COLLEGE – GUNTUR STUDENT CENTRIC METHODS

2.3.1(QLM)

Topic : “HETEROSPORY AND SEED HABIT”

Title of the Event : Group Discussion

Venue : Botany lab

Co-ordinator : Dr. M.Madhavi

No. of Staff members involved : 01

No. of Students involved : 04

Objective of the event: To study the heterospory and seed habit

Discussion: Students are discussed on the heterospory and seed habit. Heterospory is the production of spores of two different sizes and sexes by the sporophytes of land plants the smaller of these, the microspore is male and the larger megaspore is female heterospory evolved during the Devonian period from isospory independently in several plant groups.

Outcome of the Event: This group discussion has given a good knowledge of student in sharing them the information among them this is very useful for improving communication skills.



HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(Q_LM)::2020-21

Name of the Department: Botany

Student name : Syed. Sameeja

Topic: General characters of viruses

Duration : 10 mins

No. of students attended : 14

Synopsis -General characters of viruses:

They are ultramicroscopic disease-causing organisms.

They have no cellular organisation and metabolic machinery.

They need host's machinery to make their replicas or copies.

They have simple structure and basically composed of nucleic acid wrapped in protein coat.

They are obligatory and intracellular parasites.

They are completely inactive outside the host.

They are always specific in their action i.e. infect a particular organism or organ.

They are neither capable of growth nor division.

They can be crystallised and even in crystalline form, their infectivity is retained.

They can undergo mutations.

Viruses are non-living characters, they are not cells.

They do not have a cytoplasm or any kind of cellular organelles to carry out any kind of metabolism.

Viruses are able to infect all living forms including plants, animals, human beings and even micro-organism.

Viruses are Obligate intracellular parasites they require a living cell or organism for its multiplication.

Viruses can be observed only under the electron microscope.

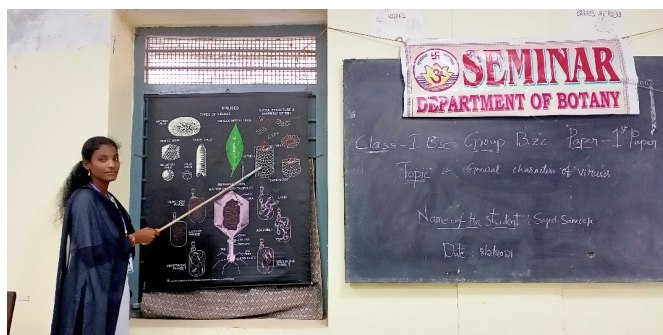
They are 10 to 100 times smaller than bacteria and its size ranges from 20 to 300 nm so these viruses can pass easily through bacteriological filters. They are filterable.

Size of viruses is measure with the help Ultrafiltration, ultracentrifugation and electron microscopy.

Viruses do not have any kind of cellular organisation.

Viruses have spikes which help the virus to attach on the host cell.

It contains either DNA or RNA as a nuclear material.



HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

Name of the Department: Botany

Student name: SK. Shahina

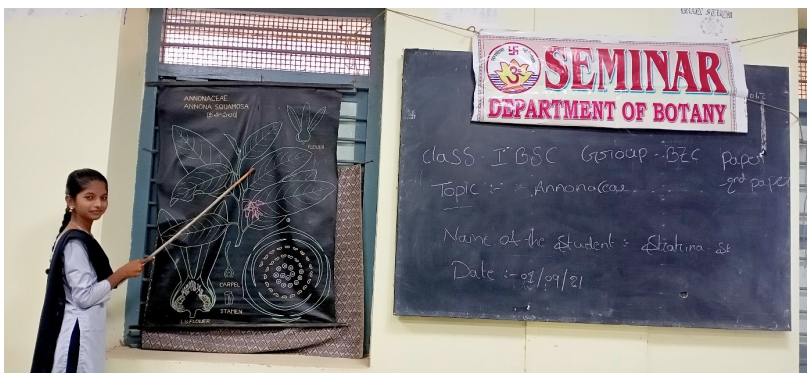
Topic: Annonaceae

Duration : 10 mins

No. of students attended : 14

Synopsis-Annonaceae: Annonaceae are flowering plants consisting of trees, shrubs, or rarely lianas having 2106 accepted species and more than 130 genera. Several genera produce edible fruits, most notably *Annona*, *Anonidium*, *Asimina*, *Rollinia*, and *Uvaria*. The family is concentrated in the tropics, and about 900 species are neotropical, 450 are Afrotropical, and the other species are Indomalayan. Some of the species in this family are used as food ingredients having medicinal properties.

The family Annonaceae is composed of more than 119 genera with more than 2000 species. It is the largest family in Magnoliales. Only four genera (*Annona*, *Asimina*, *Rollinia*, and *Uvaria*) produce edible fruit. The genus *Annona* is composed of about 120 species and is the most important source of edible fruit in Annonaceae. *Annona cherimola* L., *Annona muricata* L., *Annona squamosa* L., *Annona reticulata* L., *Asimina triloba* L., and the interspecific hybrid atemoya (*A. cherimola* x *A. squamosa* Mabb.) are some of the most important species of this genus. The Annonaceae consist of trees, shrubs, or woody vines (lianas). The leaves are usually distichous, simple, and exstipulate. The inflorescence is a solitary flower or cyme. The flowers are bisexual [unisexual] and hypogynous. The perianth is triseriate, usually 3+3+3, hypanthium absent. The stamens are numerous, usually spiral, apostemonous, rarely basally connate. Anthers are longitudinally dehiscent. The pollen is released as monads, tetrads, or polyads. The gynoecium consists of numerous carpels with superior ovaries, either apocarpous with usually spiral carpels, or rarely syncarpous with whorled carpels. Placentation is variable; ovules are anatropous or campylotropous, bitegmic or rarely tritegmic, 1-numerous per carpel. The fruit is an aggregate of berries or dry and indehiscent units, or a syncarp in which the unit berries fuse to a fleshy receptacular axis. The seeds are endospermous, the endosperm ruminant (having an uneven, coarsely wrinkled texture), oily, sometimes starchy. Resin canals and a septate pith are usually present.





HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(Q.M)

DEPARTMENT OF BOTANY

PROBLEM SOLVING

CHARTS & WORKING MODELS

STUDENT PROJECT WORKS

QUIZ ON BOTANY SUBJECT

2020-2021

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(Q_LM)

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LIST OF CHARTS & MODELS

SNO	NAME OF THE CHART/WORKING MODEL	No of Charts
2020-21		
12	Krebs Cycle	1
13	Electron Transport	1
14	PS-I & PS-II Cycles	1

STUDENT PROJECTS

SNO	ACTIVITY	PRINCIPAL INVISTIGATOR	No. of Particip ants
2020-21			
7	A STUDY ON WATER ECO SYSTEM	KVS DURGA PRASAD	03

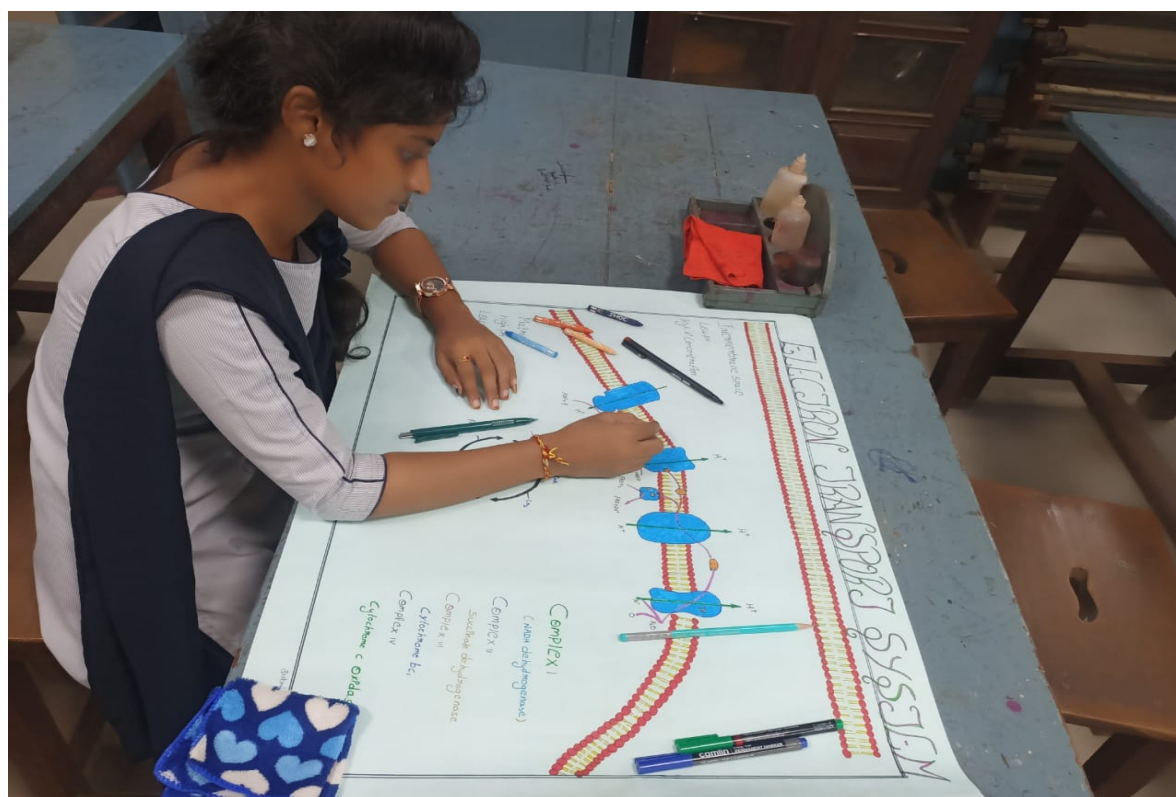
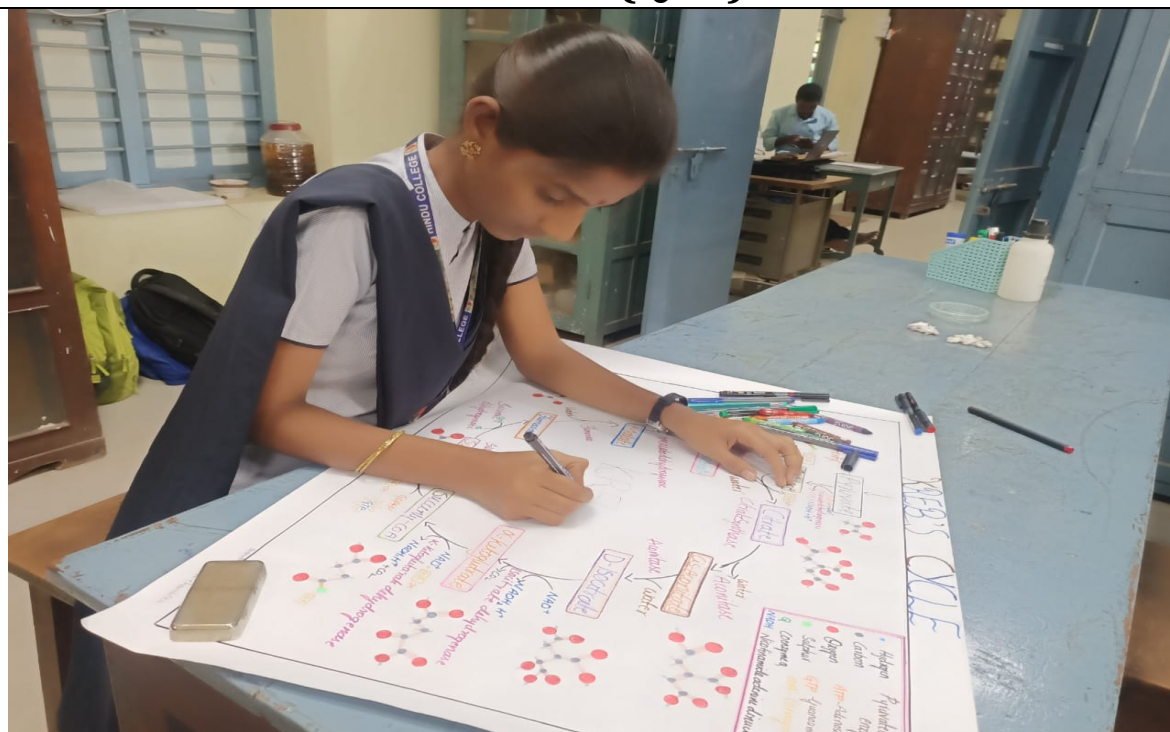
QUIZ ON BOTANY SUBJECT

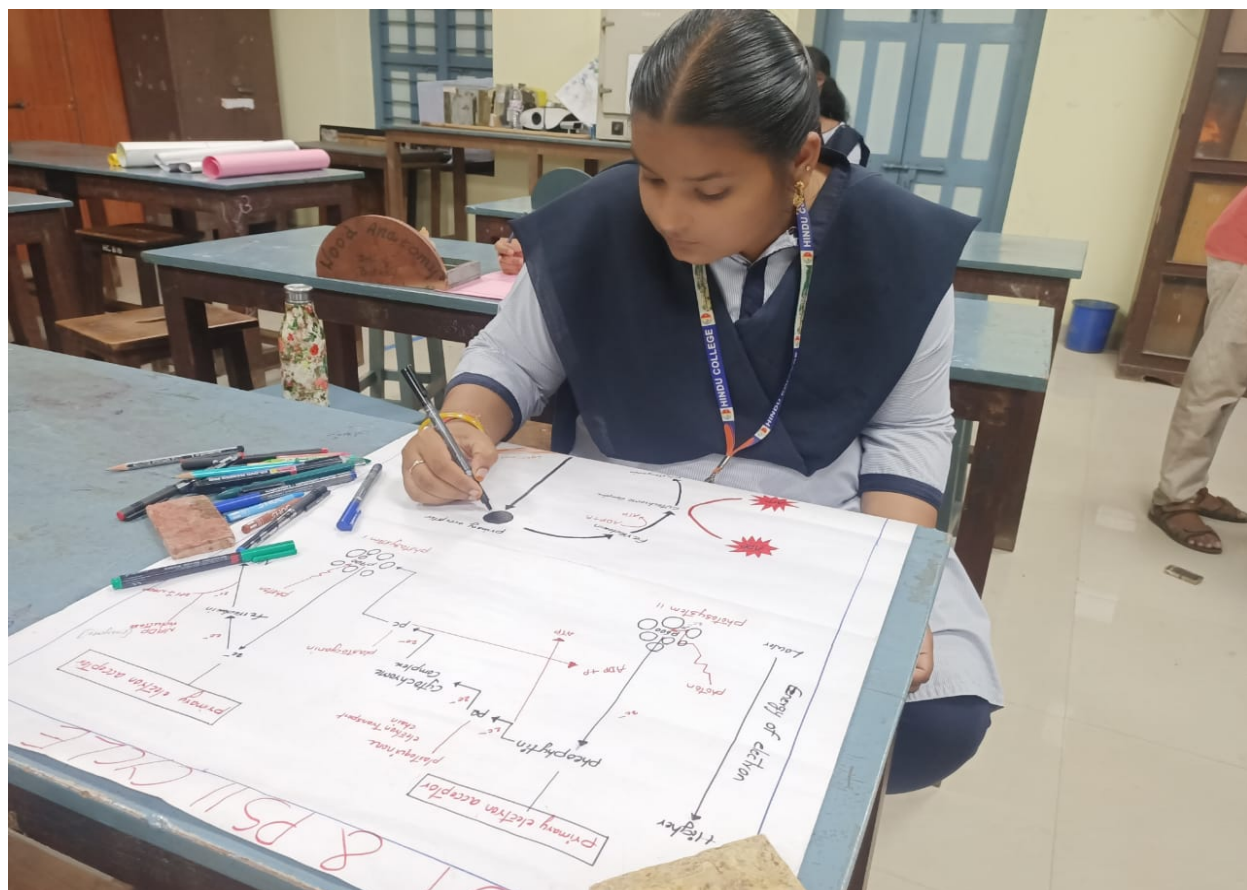
SNO	ACTIVITY	DATE	DURATI ON hrs/days	No. of Particip ants
2020-21				
4	Online Quiz Competitions	16-7-2020 to 19-7-2020	FOUR DAYS	1060
5	Quiz on Botany subject on the occasion of Dr.T.S.Ramarao's death anniversary (An Inter Collegiate Botany Quest on botany subject)	19-12-2020	ONE DAY	100

HINDU COLLEGE - GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)





HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS
2.3.1(Q_LM)

A STUDY ON POND ECOSYSTEM

A. Sasank Sai, B. Spandana, Sk. Amreen
3rd BZC Students

Project submitted to
The Research committee
HINDU COLLEGE
GUNTUR.

Project Guide
SRI K.V.S. DURGA PRASAD
HOD
Department of Botany
HINDU COLLEGE
GUNTUR.



Department of Botany
HINDU COLLEGE
GUNTUR
December - 2020



DEPARTMENT OF BOTANY, HINDU COLLEGE, GUNTUR

This is to certify that the project entitled “A study on Eco system” submitted by A. Sasank Sai, B. Spandana, Sk. Amreen incorporates the bonafied project work carried out by the in the Department of Botany, Hindu College, under my supervision. This work has not been previously submitted.

K.V.S. Durga Prasad
HOD
Department of Botany
Hindu College, Guntur.

**Department of Botany
HINDU COLLEGE
GUNTUR.**



DECLARATION

We declare that the present work entitled “A Study on Eco System” submitted to research committee Hindu College is a bonafied work done by us under the supervision of Sri KVS Durga Prasad, HOD in the Department of Botany, Hindu College, and this work has not submitted earlier in any other institution

Place: Guntur

**A.Sasank Sai
B. Spandana
Sk. Amreen**

CONTENTS

INTRODUCTION

MATERIALS AND METHOD

RESULTS

CONCLUSION

REFERENCES

Project on study of fresh water ecosystem

Abstract:

A community of plants depends on sunlight for energy, water, mineral, nutrients come from soil. Ecosystem operating in aquatic habitats is called as water ecosystem. They may be fresh water or saline ecosystem. Fresh water ecosystem may be sedimentary as lakes and ponds. Lentic habitats are represented 3 zones littoral, limnetic, profundal zones. Pond ecosystem is example of lentic type, it has abiotic components and biotic components such as quality and quantity of water, frequency of water, pH inorganic salts and organic salts, temperature and light, Biotic components are producers, consumers, decomposers. Producers are two types macro and microphytes consumers are heterotrophs, these are primary, secondary and tertiary consumers. Decomposers are as micro organism or micro consumers play important role in the recycling of minerals in the pond ecosystem.

Introduction:

Organisms living in a particular area may interact with the nonliving (abiotic) physical components of the environment such as air, soil, water and sunlight. Ecosystems are classified into water-based aquatic and land-based terrestrial ecosystem categories. Based on the quality of water involved, the aquatic ecosystems are further classified into fresh water and marine water types. Freshwater ecosystems are a subset of Earth's aquatic ecosystems. They include lakes and ponds, rivers, streams and springs, and wetlands. They can be contrasted with marine ecosystems, which have a larger salt content. Freshwater habitats can be classified by different factors, including temperature, light penetration, and vegetation. The freshwater ecosystems are generally classified into two major groups as, lentic and lotic ecosystems. The term Lentic

ecosystems is given to standing water bodies or still water bodies. The LENTIC Ecosystems includes all standing water bodies like Lakes, ponds, swamps or bogs. The term lotic ecosystem is given to the flowing water bodies. The LOTIC ecosystems include all flowing water bodies like river, springs, creek. The subject of study of freshwater ecosystems is known as **limnology**. Almost all ecological factors like temperature, light, pH, dissolved gases, dissolved salts in water, turbidity, alkalinity, depth and areal distribution, all of these parameters play an active role in controlling the habitat of aquatic ecosystems. Hence, it is necessary to study the freshwater ecosystems in detail.

Structure of ecosystem:

An ecosystem is a dynamic complex of plant, animal, and microorganism communities and the nonliving environment, interacting as a functional unit. A pond is a quiet body of water that is too small for wave action and too shallow for major temperature differences from top to bottom. It usually has a muddy or silty bottom with aquatic plants around the edges and throughout. However, it is often difficult to classify the differences between a pond and a lake, since the two terms are artificial and the ecosystems really exist on a continuum. Generally, in a pond, the temperature changes with the air temperature and is relatively uniform. Lakes are similar to ponds, but because they are larger, temperature layering or stratification takes place in summer and winter, and these layers turnover in spring and fall. Ponds get their energy from the sun. As with other ecosystems, plants are the primary producers. The chlorophyll in aquatic plants captures energy from the sun to convert carbon dioxide and water to organic compounds and oxygen through the process of photosynthesis. Nitrogen and phosphorus are important nutrients for plants. The addition of these substances may increase primary productivity. However, too many nutrients can cause algal blooms, leading to eutrophication.

Producers • Phytoplankton, literally “wandering plants,” are microscopic algae that float in the open water and give it a green appearance. They carry out photosynthesis using carbon dioxide that is dissolved in the water and release oxygen that is used by the bacteria and animals in the pond.

- Periphytic algae are microscopic algae that attach themselves to substrates and give the rocks and sticks a greenish brown slimy appearance. They also carry out photosynthesis and produce oxygen, often near the bottom of the pond where it can be used by decomposers.

- Submerged plants grow completely under water

- Floating plants include plants that float on the surface and plants that are rooted on the bottom of the pond but have leaves and/or stems that float.

- Emergent plants are rooted in shallow water but their stems and leaves are above water most of the time.

- Shore plants grow in wet soil at the edge of the pond. Consumers

- Zooplankton are microscopic animals that eat phytoplankton or smaller zooplankton. Some are single-celled animals, tiny crustaceans, or tiny immature stages of larger animals. Zooplankton float about in the open water portions of the pond and are important food for some animals.

- Invertebrates include all animals without backbones. Macroinvertebrates are big enough to be seen with the naked eye. Some of them are only found in clean water.

- Vertebrates are animals with backbones. In a pond these might include fish, frogs, salamanders, and turtles.

Decomposers Animal waste and dead and decaying plants and animals form detritus on the bottom of the pond. Decomposers, also known as detritovores, are bacteria and other organisms that break down detritus into material that can be used by primary producers,

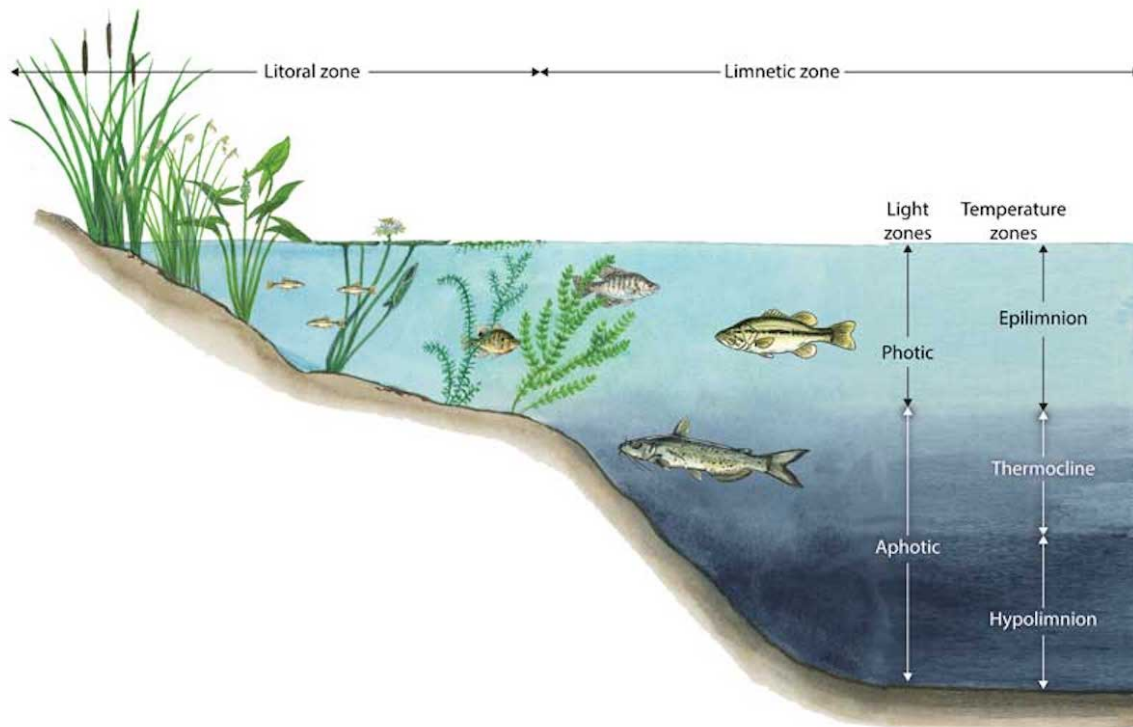


Fig.1 Different zones in Pond ecosystem

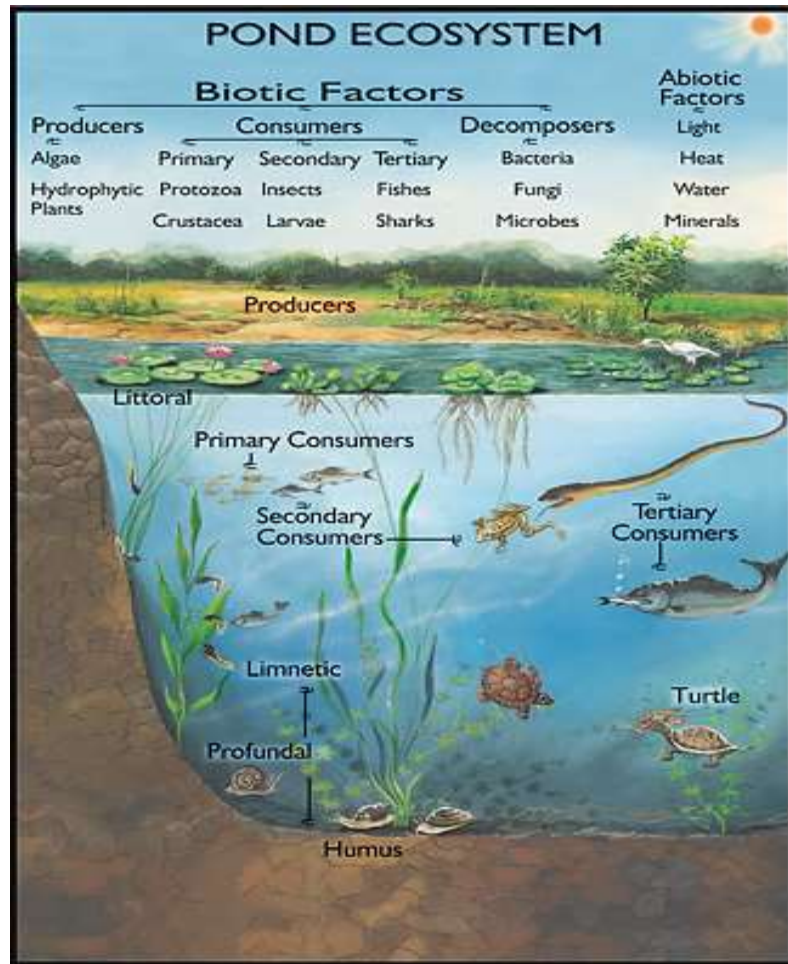


Fig 2: Pond ecosystem

Conclusions:

The Aquatic ecosystems also provide a home to many species including the phytoplankton, zooplankton, aquatic plants, insects, fish, birds, mammals, and others. They are organized at many levels, from the smallest building blocks of life to complete ecosystems, encompassing communities, populations, species, and genetic levels. Humans have long depended on aquatic resources for food, medicines, and materials. as well as fishing and tourism. They are overexploitation of species, pollution from urban, industrial, and agricultural activities, as well as the habitat loss and damming and diversion of water into other places. All these contribute to the declining levels of aquatic biodiversity, especially the freshwater ecosystems.

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HINDU COLLEGE – GUNTUR
STUDENT CENTRIC METHODS

2.3.1(QLM)

Online Quiz Competitions

Name of the Event: Online Quiz Competitions

Date: 16-7-2020 to 19-7-2020

Venue : Online

Co-ordinator : GVS Subramanyam

Chief Guest : KVS Durga Prasad

Other Dignitaries: Principal and Secretary&Correspondent

No. of Staff members involved: 05

No. of Students participated: 1065 from different colleges

Aim of the Event: To bring awareness among students in botany subject and scientists.

Programme procedure: The Botany Department is organising Botany quiz for all the UG and PG students, the quiz is purely on life sciences, to gain knowledge on each and every topic, it becomes easy for competitive exams and research entrance. its a good programme bring happiness and healthy environment among students.

Outcome of the Event: All the students are happy in participating the quiz, we gave prizes for first, second and third.

HINDU COLLEGE – GUNTUR STUDENT CENTRIC METHODS

2.3.1(QLM)

GOOGLE FORM LINK FOR ONLINE QUIZ ON BOTANY SUBJECT

<https://docs.google.com/forms/d/1uDbfp263OkJWCbPso19gkGwAuser0LERVXxtEKP4hqE/edi>

FEEDBACK LINK FOR ONLINE QUIZ ON BOTANY SUBJECT

<https://docs.google.com/spreadsheets/d/1Ufl5p5TXG6TJrYXa5kyaS1IM8RzZjEYqNmOfx39rs-E/edit#gid=296168136>



Copy of QUIZ ON BOTANY SUBJECT

Questions

Responses

Settings

Total points: 25



Section 1 of 2

ONLINE QUIZ IN
BOTANY SUBJECT

On behalf of M.Sc., BOTANY WING OF
DEPARTMENT OF BOTANY,
HINDU COLLEGE, GUNTUR,
ANDHRA PRADESH, INDIA

Email *

Valid email

This form is collecting emails. [Change settings](#)

NAME *

Short answer text

College and Place *

Short answer text

DISTRICT *

Short answer text

STATE *

Short answer text

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

MOBILE NUMBER *

Short answer text

SEX *

- ☐ MALE
- ☐ FEMALE
- ☐ TRANSGENDER

AGE *

- ☐ 15-20YEARS
- ☐ 21-50 YEARS
- ☐ 50 YEARS ABOVE

OCCUPATION *

- ☐ STUDENT
- ☐ TEACHER/LECTURER/PROFESSOR
- ☐ OTHERS

ANY SUGGESTION RELEVANT TO COVID PANDEMIC *

Long answer text

After
section 1 Continue to next section

Section 2 of 2

QUIZ QUESTIONS



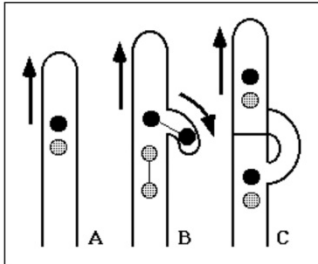
Description (optional)

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

1. What it is called? *



- ☐ Budding
- ☐ conjugation
- ☐ Clamp connection
- ☐ Binary fission

24. Primary productivity

- ☐ is equal to the standing crop of an ecosystem.
- ☐ is greatest in freshwater ecosystems.
- ☐ is the rate of conversion of light to chemical e...
- ☐ is inverted in some aquatic ecosystems.

25. Most important causative pollutant of water that changes its pH is *

- ☐ Plastic
- ☐ Glass Junk
- ☐ Iron Junk
- ☐ Detergents

HINDU COLLEGE - GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)



Hindu College, Guntur

NAAC Re-Accredited 'A' grade college

Department of Botany

Online Botany Quiz Competition

From 16th to 19 th July 2020



1065 members
from 20 states
participated in
the competition.

FEEDBACK - FIRST PAGE

1	QUIZ ON BOTANY SUBJECT (Responses)																																				
2	Time stamp	Email Address	Score	NAME	College and District	STATE	MOBILE NUMBER	SEX	AGE	OCCUPATION	ANY SUGGESTION RELEVANT TO THE QUIZ	1. What is the function of the cell wall?	2. Spore is a reproductive structure in which organism?	3. The flower is a modified shoot. Name the parts of a flower.	4. Which is the true meristem?	5. What is the function of the phloem?	6. Which is the true meristem?	7. Which is the true meristem?	8. Which is the true meristem?	9. Which is the true meristem?	10. Which is the true meristem?	11. Which is the true meristem?	12. Which is the true meristem?	13. Which is the true meristem?	14. Which is the true meristem?	15. Which is the true meristem?	16. Which is the true meristem?	17. Which is the true meristem?	18. Which is the true meristem?	19. Which is the true meristem?	20. Which is the true meristem?	21. Which is the true meristem?	22. Which is the true meristem?	23. Which is the true meristem?	24. Which is the true meristem?	25. Which is the true meristem?	
3	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	Wudayavathi Sai Chandra	Government College, Kadapa	Andhra Pradesh	777409	MALE	15-20YEARS	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	
4	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	MADDA ANKURU	MAHARAJA COLLEGE, KADAPA	ANDHRA PRADESH	936409	MALE	21	STUDENT	Yes	Clamp connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G
5	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	K. Ramesh Babu	Hindu College, Kadapa	Andhra Pradesh	936409	MALE	21	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G
6	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	AMMALAKETHURU NOBLE	GOVERNMENT COLLEGE, KADAPA	ANDHRA PRADESH	936409	MALE	21	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G
7	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	Y.M.M. CHAITANYA	GOVERNMENT COLLEGE, KADAPA	ANDHRA PRADESH	936409	MALE	21	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G
8	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	ANANDU	GOVERNMENT COLLEGE, KADAPA	ANDHRA PRADESH	936409	MALE	21	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G
9	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	N. Anurag	GOVERNMENT COLLEGE, KADAPA	ANDHRA PRADESH	936409	MALE	21	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G
10	7/16/20 10:16:05	shashika.ireddy@gmail.com	20	Wudayavathi Sai Chandra	Government College, Kadapa	Andhra Pradesh	777409	MALE	15-20YEARS	STUDENT	No	Connects to the rest of the plant	At the base of the shoot	Cycas	Palmae	Lemna and Spirogyra	Present in the primary cell wall	Nucleoid	Present below the phloem	Schmid	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G	W & G

FEEDBACK - LAST PAGE

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

ONLINE QUIZ ON BOTANY SUBJECT - CERTIFICATE



HINDU COLLEGE::GUNTUR

(Re-accredited by NAAC as Grade 'A')



DEPARTMENT OF BOTANY

Online Quiz Competition

Certification of Merit

This is to Certify that

{{full name}}

Of

{{other identifier}}

has participated in online quiz in Botany subject
conducted by M.Sc Botany Wing of Department of
Botany, Hindu College, Guntur On **{{date}}**
and scored **{{percent}}**


K.V.S. DURGA PRASAD
HOD of Botany


V. MANI KUMARI
Principal


Dr.M.MADHAVI
Course Director


G.V.S. SUBRAHMANYAM
Coordinator

123 certificates

HINDU COLLEGE – GUNTUR

STUDENT CENTRIC METHODS

2.3.1(QLM)

An Inter Collegiate Botany Quest On Botany Subject

Name of the Event: Quiz on Botany subject on the occasion of Dr.T.S.Ramarao's death anniversary (An Inter Collegiate Botany Quest on botany subject)

Date: 19-12-2020

Venue : Department of Botany On line Zoom Plat form

Co-ordinator : K.V.S. Durga Prasad

Chief Guest : Dr. M. Jaganmohan M.D; Professor in Gastroenterology, Siddhartha medical college, Vijayawada

No. of Staff members involved: 05

No. of Students participated: 100 students for 10 different colleges

Objective of the Event: On the occasion of Legendary personality, Dr.T.S. Ramarao's, death anniversary conducted quiz on botany subject through the interaction among the students of different colleges.

Plan and Execution: In memory of **Dr.T.S. RAMARAO** former HOD of Botany every year we are conducting an inter collegiate Botany competitions in quiz elocution poster presentation . We prepared a broucher regarding the event and is circulated among different colleges .Every year we used to conduct in large scale physically but because of pandemic we conducted this in online .Nearly 10 colleges responded to the competitions . Winners awarded e-certificate and cash prize. The competitions are inaugurated by a chief guest Dr. M. Jaganmohan M.D Professor in Gastroenterology Sidhardha medical college Vijayawada.

Outcome of the event: The students came to know about the legend Dr. T.S. Ramarao. Different college students got interacted very well. They got very good awareness on botany subject

HINDU COLLEGE – GUNTUR STUDENT CENTRIC METHODS

2.3.1(QLM)

