

GOVERNMENT DEGREE COLLEGE, PUTTUR

(Accredited with 'B⁺⁺' Grade by NAAC in Cycle-III)



QUALITY EDUCATION IS A GREAT TREASURE

REPORT OF *GUEST LECTURES ORGANIZED* **2025-26**

GUEST LECTURE-I

BIOFORTIFICATION AND GMO

ON 19/11/2025

DEPARTMENT OF BOTANY



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GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I


1. DEPARTMENT RESOLUTION

Department Resolution

01/10/2025

The Department of Botany has resolved to organize a guest lecture on "**Bioplastics, PHB, Biofortification and genetically modified foods**" on November 19, 2025. Dr. K Saivenkatesh, a lecturer in Botany from Government Degree College(M), Srikalahasthi, has been invited to lead the session. This lecture aims to provide students with foundational knowledge in biotechnology, which is an emerging field for sustainable future. Dr K Saivenkatesh's expertise in this area will help students understand the practical applications of biotechnology in research and environmental studies. The department will arrange the necessary facilities for the event, including the seminar hall and any required audiovisual equipment. This lecture is expected to enhance students' research skills and deepen their understanding of advances in plant biotechnology for environmental sustainability


Dr. P. SUJANA: M.Sc., M.Phil, PhD.
Lecturer in Botany,
GOVT. DEGREE COLLEGE
PUTTUR (A.P.)


S. PADMAVATHI
Lecturer in Botany
Govt. Degree & P.G. College
PUTTUR, Chittoor Dt., A.P.


Lecturer In-charge
Department of Botany
Govt. Degree & PG College
PUTTUR- 517 583, Chittoor (Dt.), A.P.



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GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I
2. INVITATION LETTER

GOVERNMENT DEGREE COLLEGE, PUTTUR - 517 583 (A.P)
[Reaccredited with B++ grade by NAAC]

Dr. B. Chandramouli

M.Sc., B.Ed., Ph.D.

Principal



Cell No: +91 9491931211

e-mail: puttoor.jkc@gmail.com

Website: <http://gdcputtur.edu.in>

Date: 18/10/2025

To
The Principal,
S V A Govt. Degree College,
Srikalahasthi,
Tirupathi (D.T)

Respected Sir,

Sub: Govt. Degree College, Puttur, Tirupathi Dist.-Seek permission to relieve Dr K Sai Venkatesh to deliver a guest lecture as a part of faculty exchange programme on 19-11-2025- Requested- Regarding.

We bring to your kind notice that as part of faculty exchange programme, the department of Botany of our college is organizing guest lectures for UG and PG students on 19-11-2025. In this regard, we would like to invite Dr K Sai Venkatesh, Lecturer in Botany to deliver a guest lecture in "Biofortification, Biodegradable plastics, PHB and Genetically modified foods", as his expertise, insights in this field, would greatly benefit our students/faculty members. We request you to confirm his availability at your earliest convenience. We request you to kindly confirm his availability to Dr. P. Sujana, Lecturer, department of Botany, Ph No.8333824096 and mail ID: sujanapapani@gmail.com.

We would be ever thankful to you if you give permission. This is for your kind approval and necessary action

Thank you

Yours faithfully,

[Signature]
PRINCIPAL
Govt. Degree College
Puttur



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I
3. ACCEPTANCE LETTER

To
The Principal,
Govt. Degree College,
Puttur
Tirupathi (D.T)

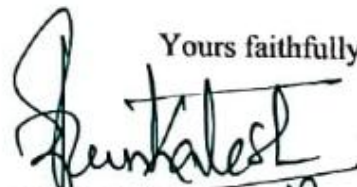
Respected Sir,

Sub: Acceptance of Dr. Sai Venkatesh Korlam -to deliver a guest as a part of
faculty exchange programme on 19-11-2025-Intimation- Regarding.

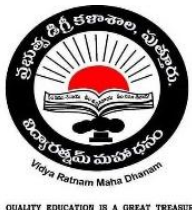
I am Sai Venkatesh Korlam, lecturer in Botany, GDC, Srikalahasthi, express my sincere gratitude for the gracious invitation to deliver a guest lecture on **“Biofortification, Biodegradable plastics, PHB and Genetically modified foods”** at GDC, Puttur organized by Department of Botany, on 19-11-2025. It is an honor to be considered for such an esteemed opportunity.

I am delighted to accept the invitation and am eager to share my insights and expertise in Plant Biotechnology with the students at your institution. I am committed to delivering a presentation that will engage and enlighten the attendees, and I am open to structuring the lecture format according to the preferences and requirements of the students at your institution.

Thank you,

Yours faithfully,

(Dr. Sai Venkatesh Korlam)

H. Sai Venkatesh, M.Sc., (Ph.D.)
Lecturer in Botany
S.V.A. Govt. College (M)
Srikalahasti, Tirupati (Dt.) A.P.-517 644



GOVERNMENT DEGREE COLLEGE, PUTTUR

DEPARTMENT OF BOTANY

GUEST LECTURE-I

4. PERMISSION LETTER FROM PRINCIPAL

Permission Letter for arranging Guest Lecture

To

The Principal,
Govt. Degree College,
Puttur

Sir

Sub: GDC, Puttur-Department of Botany, - Permission to Arrange a Guest Lecture on "Biofortification, Biodegradable plastics, PHB and Genetically modified foods" on 19/11/2025-Request- Reg.

Permitted
Gladly
4/11/25

The Department of Botany seeks your kind permission to organize a guest lecture on the topic "Biofortification, Biodegradable plastics, PHB and Genetically modified foods. We have invited Dr K Sai Venkatesh, Lecturer in Botany at SVA Government Degree College(M), Srikalahasthi, to deliver this lecture on November 19, 2025. Dr K Sai Venkatesh's expertise in the field of Plant Biotechnology will provide valuable insights.

The lecture is expected to benefit our students by expanding their understanding of Biotechnology. We will make all necessary arrangements to ensure a successful event.

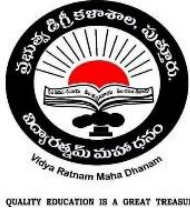
We kindly request your approval to proceed with the arrangements for this guest lecture.

Thank you for considering our request.

Thanking you

Yours Sincerely,

Lecturer In-charge
Department of Botany
Govt. Degree & PG College
PUTTUR- 517 583, Chittoor (Dt.), A.P.



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I
5. CIRCULAR

Circular

It is here by informed to all the students of second year BSc Botany students to attend the guest lecture on “Biofortification and GMO” by Dr Saivenkatesh, Lecturer in Botany, Govt Degree College(M), Srikalahasthi on 19/11/20245


Lecturer In-charge
Department of Botany
Govt. Degree & PG College
PUTTUR- 517 583, Chittoor (Dt.), A.P.



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF Botany
GUEST LECTURE-I
6. ACTIVITY REPORT

Name of the Faculty : **Dr K Saivenkatesh**
Name & Address of the College : Lecturer in Botany,
Govt. degree College(M), Srikalahasthi
Name of the topic : **Bioplastics, PHB, Biofortification and GMO**
Date : 19/11/2025
Time : 11.00 am-01.00 pm

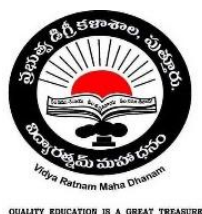


Outcome of the Extension lecture :

The guest lecture on Biofortification and Genetically Modified Plants by Dr. K Sai Venkatesh on 19/11/2025 highlighted innovative strategies for enhancing crop nutrition and genetic modifications for sustainable agriculture. It also discussed the potential of biofortified crops to combat malnutrition and improve global food security.

Signature of the Faculty :

(Dr. Sai Venkatesh Korlam)



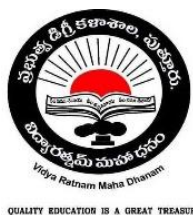
GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I

7. C V of the Guest



Sai Venkatesh Korlam at present working as an Lecturer in Botany in S V A Government College, Srikalahasti, Tirupati Dist., A.P. He completed M.Sc., Botany from Andhra University, Visakhapatnam in 2009 and was later appointed as Lecturer through APPSC in 2012. He completed one Minor Research Project funded by UGC and organized a national seminar sponsored by UGC' as co-convenor. He authored 3 books and published 20 research articles in various international journals. He participated in national and international seminars and conferences. He has been contributing articles related to Biology since 2016 for Telugu dailies.

K. Sai Venkatesh, M.Sc., (Ph.D.)
Lecturer in Botany
S.V.A. Govt. College (M)
Srikalahasti, Tirupati (Dt.) A.P.-517 644



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I

8. Synopsis of the Lecture

A BRIEF NOTE ON BIOPLASTICS, PHB, BIOFORTIFICATION AND GENETICALLY MODIFIED ORGANISMS

Bioplastics are eco-friendly plastics derived from renewable biological sources such as plants and agricultural waste. They help reduce dependence on fossil fuels used in traditional plastic production. Bioplastics are biodegradable and decompose faster than conventional plastics, reducing environmental pollution. Their use is increasing in packaging, agriculture, and consumer goods. As awareness of environmental sustainability grows, demand for bioplastics continues to rise.

Polyhydroxybutyrate (PHB) is an important type of bioplastic produced by many bacteria as a natural storage compound. PHB has properties similar to synthetic plastics but is fully biodegradable. This makes PHB suitable for sustainable packaging, medical devices, and eco-friendly manufacturing. Production of PHB can be improved through genetic engineering to enhance bacterial yield. Research on PHB shows the potential of biotechnology in developing environmentally responsible materials.

Biofortification is a strategy used to improve the nutritional value of staple food crops. It helps address micronutrient deficiencies such as lack of iron, vitamin A, and zinc. Biofortification can be achieved through selective breeding, agronomic practices, or genetic modification. This method is especially useful in developing countries where diet diversity is limited. Biofortified crops support better public health and nutrition without major changes in eating habits.

Genetically Modified Organism (GMO) technology plays a major role in both biofortification and agricultural improvement. GMOs are organisms whose genes have been altered to introduce desirable traits such as pest resistance and higher yield. GMO crops reduce chemical pesticide dependence and increase food production efficiency. However, their use raises ethical, environmental, and safety concerns among the public. When applied responsibly, genetic engineering, bioplastics, and biofortification together illustrate the powerful role of biotechnology in solving global challenges.


(Dr. Sai Venkatesh Korlam)



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF Botany
GUEST LECTURE-I

9. Attendance and feedback

Name of the Lecturer: Dr. K Sai Venkatesh

Date: 19/11/2025

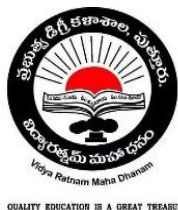
Name of the College: Govt. Degree College(A), Srikalahasti

Name of the Topic: **Bioplastics, PHB, Biofortification and Genetically modified Organisms**

The following students attended the lecture,

The following students attended the lecture,

Sl.No.	Name of the Student	Class	Tick			Signature of the Student
			Excellent	Good	Useful	
1	AATURU POORNACHANDRA	II BSC-BOTANY	✓			Apoorna chandra
2	A V PUSHPA	II BSC-BOTANY	✓			A.v.Pushpa.
3	BANDELA NISHA	II BSC-BOTANY	✓			B.Nisha
4	B VASAGI	II BSC-BOTANY	✓			B. Vasagi
5	CITRAKULA JAYASREE	II BSC-BOTANY	✓			C. Jayasree
6	CHINNAGOVINDAPPAGARI RAJESH	II BSC-BOTANY	✓			C. Rajesh
7	DANA TEJAKRISHNA	II BSC-BOTANY		✓		D. Tejakrishna
8	GNANASHEKHAR MAHESWARI	II BSC-BOTANY	✓			G. Maheswari
9	K BHUVANESHWARI	II BSC-BOTANY	✓			K. Bhuvaneshwari
10	K KAVYA	II BSC-BOTANY	✓			K. Kavya
11	MENATI NANDINI	II BSC-BOTANY	✓			M. Nandini
12	MENATI YAMINI	II BSC-BOTANY	✓			M. Yamini



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF Botany
GUEST LECTURE-I

9. Attendance and feedback

Name of the Lecturer: Dr. K Sai Venkatesh

Date: 19/11/2025

Name of the College: Govt. Degree College(A), Srikalahasti

Name of the Topic: **Bioplastics, PHB, Biofortification and Genetically modified Organisms**

Sl.No.	Name of the Student	Class	Tick			Signature of the Student
			Excellent	Good	Useful	
13	N LESHMA	II BSC-BOTANY	✓			N. Leshma
14	PACHAPPAGARI KEERTHI	II BSC-BOTANY	✓			P. Keerthi
15	PADIRI RAJESWARI	II BSC-BOTANY	✓			P. Rajeswari
16	PAMULA THULASI	II BSC-BOTANY		✓		P. Thulasi
17	PANDARAM MEGHANA	II BSC-BOTANY	✓			P. Meghana
18	PASIGUNTA SREELEKHA	II BSC-BOTANY	✓			P. Sreelekha
19	SATHRAWADA RUCHITHA	II BSC-BOTANY	✓			S. Ruchitha
20	D. BLESSION	II BSC-BOTANY	✓			D. Blession
21	T. HARINI	II BSC-BOTANY	✓			T. Harini

Signature of the lecturer

Signature of the Resource person

Signature of the Department In charge

Dr. P. SUJANA, M.Sc., M.Phil, PhD
 Lecturer in Botany,
 GOVT. DEGREE COLLEGE
 PUTTUR (A.P.)

Lecturer In-charge
 Department of Botany
 Govt. Degree & PG College
 PUTTUR- 517 583, Chittoor (Dt.), A.P.



GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I
10. APPRECIATION LETTER

GOVERNMENT DEGREE COLLEGE, PUTTUR - 517 583 (A.P)
[Reaccredited with B++ grade by NAAC]

Dr. B. Chandramouli

Principal

M.Sc., B.Ed., Ph.D.



Cell No: +91 9491931211

e-mail: puttoor.jkr@gmail.com

Website: http://gdcputtur.edu.in

To
Dr. Sai Venkatesh Korlam
Lecturer in Botany
Govt. Degree College,
Srikalahasthi
Tirupathi(D.T)

Respected Sir,

Sub: Appreciation for Delivering an Insightful Guest Lecture at GDC, Puttur in the
Department of Botany on 19-11-2025- Regarding.

On behalf of Department of Botany, GDC, Puttur I would like to express our heartfelt gratitude for your invaluable contribution as a guest speaker during the faculty exchange expertise lecture series held on 19-11-2025

Your insightful lecture on "**Biofortification, Biodegradable plastics, PHB and Genetically modified foods**" was incredibly engaging and enlightening. The depth of knowledge and real-world experience you shared provided an exceptional learning opportunity for everyone present.

Your willingness to share your insights and engage with our academic community reflects your dedication to education and the advancement of knowledge. We genuinely appreciate your support in fostering a vibrant learning environment. We hope for future opportunities to collaborate and benefit from your expertise.

Thank you

Yours faithfully,


PRINCIPAL
Govt. Degree College
Puttur,
Is

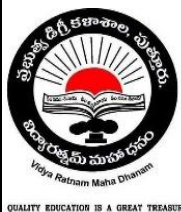


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DEPARTMENT OF BOTANY
GUEST LECTURE-I
11. Photogallery

Discussion session of the Invited talk





GOVERNMENT DEGREE COLLEGE, PUTTUR
DEPARTMENT OF BOTANY
GUEST LECTURE-I
11. Photogallery

Felicitation to Dr K Sai Venkatesh by College Principal Dr B Chandramouli



Signature of the In charge


Lecturer In-charge
Department of Botany
Govt. Degree & PG College
PUTTUR- 517 583, Chittoor (Dt.), A.P.

Signature of the Principal


PRINCIPAL
Govt. Degree College
Puttur.
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