



NEHRU GRAM BHARATI

(Deemed to be University)
[Estd. U/s-3 of UGC Act 1956]



Kotwa-Jamunipur, Dubawal, Prayagraj, Uttar Pradesh, India

Marching ahead with confidence

Brief Report

Training

On



**“Preparation and Analysis of Underutilized Food
Products: A Hands-on Approach”**

(26-30 October, 2025)

Honouring Sri J.N. Mishra, Founder Chancellor

**The distinguished and charismatic figure in the domain of social
reformer on the occasion of his 88th Birth month anniversary**



Organized By

**Department of Botany, the Central Instrumentation Facility, and Green Audit
Committee Nehru Gram Bharati (Deemed to be University), Prayagraj**

About The University

Nehru Gram Bharati (Deemed to be University) occupies an esteemed place among the ruler universities of India for over decades now. Established on 27th June 2008, it is one of the promising institutes in the state of Uttar Pradesh situated at the bank of river Ganges. It was basically conceived by our 1st Prime Minister of India, Late Pt. Jawahar Lal Nehru, who laid the foundation stone of Nehru Gram Bharti on 26th July 1962 in the village of "Rishi Durvasha Ashram" Kotwa, Jamunipur, Dubawal Complex of his popular consultancy in Prayagraj district. His dream translated into reality by Shri. J.N. Mishra, who had a clear vision and dedication to the cause of upliftment of rural message through education.

As on date, the campus has emerged as a prominent establishment of professional, technical education and traditional education for meeting the aspirations of youth from rural as well as urban areas. To begin with "Rajiv Gandhi Degree College" was established in the year 1996 and upgraded to "Rajiv Gandhi Post Graduate College" from the academic session 2000-01 which subsequently merged into the 'Nehru Gram Bharti (Deemed to be University)' in 2008-09 after University Grants Commission recommended to the Ministry of Human Resources and Development for granting it Deemed to be university status. The MHRD notified vide its gazette Notification no: F.9-42/2005-43(A) dated as 27th June 2008 bestowing the Deemed to be university status to Nehru Gram Bharati.

University is composed of 6 campuses encircling approximately 76 acres of land spread over within a radius of about 5 km.

About The Training

The growing demand for sustainable food systems has created an urgent need to explore and utilize underutilized food products. These foods, often rich in nutrients, bioactive compounds, and cultural value, remain largely overlooked in mainstream markets. Their potential in addressing food insecurity, promoting health, and reducing agricultural waste is significant. However, limited awareness, inadequate processing knowledge, and lack of scientific analysis restrict their optimal utilization.

This training workshop on "Analysis of Underutilized Food Products: A Hands-on Approach" is designed to provide participants with both theoretical understanding and practical skills in identifying, characterizing, and analyzing these valuable resources. Through interactive sessions and hands-on laboratory exposure, participants will gain insights into modern analytical techniques, nutritional profiling, and value-addition approaches to the Mahua, Kainth, Bael etc.

Consensus Statement:

1. **Recognition of Potential** – Underutilized food products are valuable sources of nutrients, bioactive compounds, and cultural heritage that must be integrated into mainstream food systems.
2. **Need for Scientific Validation** – Systematic research and analytical evaluation are essential to establish the nutritional, functional, and safety profiles of these food resources.
3. **Capacity Building** – Hands-on training and knowledge dissemination are critical to empower students, researchers, and professionals in advancing sustainable food innovations.
4. **Promotion of Value Addition** – Innovative processing, product development, and commercialization strategies are necessary to enhance the acceptability and utilization of underutilized foods.
5. **Contribution to Sustainability** – The exploration and utilization of underutilized food resources align with global goals of food security, waste reduction, and sustainable development.





Patron
Sri Manish Mishra
Chancellor
Nehru Gram Bharti,
(Deemed to be
University), Prayagraj,
U.P.



Patron
Prof. Rohit Ramesh
Vice Chancellor,
Nehru Gram Bharti,
(Deemed to be
University), Prayagraj,
U.P.



Patron
Dr. S.C. Tiwari
Pro Vice-chancellor
Nehru Gram Bharti,
(Deemed to be
University), Prayagraj,
U.P.

Organizing Secretary:
MR. Pradeep Upadhyay
Faculty Department of Botany
Course Coordinator
Herbal Product Processing
NGB (DU) Prayagraj

Convener:
Dr. Adi Nath
Faculty, Department of Botany
Member Convener -WMC, GAC, IICs
In charge- Central Instrumentation Facility
NGB (DU) Prayagraj

Advisory Committee:

1. Prof. R.C. Tripathi, Prof. Incharge R&D, NGB
2. Sri S.S. Mishra, Registrar, NGB
3. Dr. Asheesh Shivam, Director, Research Centre
4. Dr. Rajesh Tiwari, Advisor to Chancellor, NGBDU
5. Dr. Shakti Nath Tripathi, Head, Dept. of Botany, NGB

Organizing Committee

1. Dr. Amitabh Chandra Dwivedi, Deptt. of Zoology, NGB
2. Dr. Archana Suhukla, Deptt. of Mathematics, NGB
3. Dr. Vikram Singh, Deptt. of Physics, NGB
4. Dr. Priyanka Chawla, Deptt. of Chemistry, NGB

Programme Schedule

❖ Technical Details:

❖ 26TH October, 2025, I Day

Venue	Nehru Gram Bharati Deemed to be University Research Centre Shashi Campus, Prayagraj
10:00Am- 11:00am	Reception and Registration
Key note Address 11:00-12:00	(Chief Guest) Prof. Gyaneshwer Chaubey, Department of Zoology, Banaras Hindu University, Varanasi

❖ DEMONSTRATION SESSION

Venue	Nehru Gram Bharati Deemed to be University Research Centre Shashi Campus, Prayagraj
Theme	Proximate Composition
Wet-Lab-I	Moisture content, Carbohydrates, Crude proteins, Crude fat, Crude fiber, Total Ash, Water soluble Ash, Acid Insoluble Ash, Nitrogen Free Energy (NFE), nergy (Kcal)
012:30pm-04:00pm	Dr. Adi Nath-Training Address and perform
05:30pm	Tea

❖ 27TH October 2025 IInd Day

Venue	Nehru Gram Bharati Deemed to be University, Central Instrumentation Facility, Jhuthi Taali, Prayagraj
Theme	<i>Dietary Fiber constituents</i>
10:30am-11:30 am	I.L.-Dr. Shikha Khare, Department of Home Science, NGBDU (Fiber and its type) Dr. Tuhinanshu Mishra, Technical Development Officer, NGBDU (Fuel cells from kitchen waste)
11: 30-12:40	Dr. Adi Nath (Anti-inflammatory and hepatoprotective activity of underutilized food items) Nehru Gram Bharati Deemed to be University, Department of Botany, Research Laboratory, Prayagraj
01:26pm – 04:00pm	Total soluble sugar (Anthone Method), Reducing sugar (Nelson-Somogyi Method), Non-Reducing sugar (Sulphuric acid Method), Starch (Anthone Method), Neutral Detergent Fibre (NDF), Acid Detergent Fibre (ADF), Hemicellulose, Cellulose, Lignin, Pectin

❖ **28TH October, 2025, III Day**

Venue	Nehru Gram Bharati Deemed to be University Research Centre ShashiCampus, Prayagraj
Theme:	Anti-Nutritional Analysis and Antioxidant Activity
10:30Am-11:30 am	I.L. Dr. Monika Gupta, Dept. of Home Science, NGBDU (Antioxidants and Anti-nutrition) Mr. Pradeep Upadhyay, Dept. of Botany, NGBDU (Computational biology)
11:30am – 4:00am	Tannic Acid, Saponin, Phytic Acid, Oxalates, Total Phenolic Contant (TPC) Ibrahim Khalil,et.al.,2012,Total Flavonoid Contant (TFC) Change et .al,2002; Stakovic,2011,Total Flavonol Contant (TF) Pattanayak et. al;2011& Kalita et. al;2013, DPPH Assay (2,2-diphenyl-1-picrylhydrazyl) Mensor LL,et.al,2001, Hydrogen peroxide (H2O2) Ruch RT,et.al,1984, Reducing Power Assay(RPA) Yen GC,Duh PD;1994, ABTS assay Thaipong et al 2006; Gan et.al. 2010., Phosphomolybdenum(PM) Assay Prieto P et al.1999, Ferric reducing antioxidant power (FRAP) assay Benzie & Strain;1996

❖ **29TH October, 2025, IV Day**

Venue	Nehru Gram Bharati Deemed to be University Research Centre ShashiCampus, Prayagraj
Theme:	Quantitative constituents and Vitamines
10:30Am-11:30 am	I.L. Dr. Kiran Gupta, Dept. of Zoology, NGBDU (Amla and Singhara) Dr. Archana Shukla, Dept. of Mathematics, NGBDU (Quantificationof Biological Compounds)
11:30am – 2:00am	Alkaloids, Lipid contents (Folch Method-1987), Vitamine C (Dye Titration Method), β -carotene (Columm chromatography)

❖ **30TH October, 2025, V Day**

Venue	Nehru Gram Bharati Deemed to be University Research Centre ShashiCampus, Prayagraj
Theme:	Heavy metals
10:30Am-11:30 am	Dr. Manjita Mishra, Assistant Registrar, NGBDU (Diatoms base Biosensor against plant Pathogen) Dr. Durgesh Nandini Goswami, Dept. of Chemistry, NGBDU (Heavy Metal; Sources; Assesment)
11:30am – 2:00am	(API- I,Vol. VII)2008 -Lead (Pb), Cadnium (cd), Arsenic (As), Mercury (Hg)
02:00pm –03:00pm	Valedictory Session: (Chief Guest) Dr. Ashwani Kumar, Associate Professor, Department of Botany, University of Allahabad

Total Registration

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Last Date 25 October, 2025, Available Seat -30

REGISTRATION FORM

**N.B: Mode of Payment: online/NEFT/RTGS/DD Account Details: Nehru Gram
Bharati University**

Account Number: 66630200000126

IFSC Code: BARB0VJHGNJ

(Fifth character is zero)

Bank Name: Bank of Baroda, Hanumanganj

REGISTRATION

Please fill up the registration form and send it to adinathupadhyay@gmail.com

NAME	Riya Kushwaha
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DATE OF BIRTH	06/08/2006
DESIGNATION	Student
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E-MAIL ID	tanukushwaha229@gmail.com
MOBILE NO.	8052768707
REGISTRATION FEE DETAILS: DD NO./DATE /NEFT/RTGS/ OR ANY OTHER ONLINE WITH REFERENCE NUMBER	UPI TRANSACTION ID – 112806773383
REMARKS (Office Use Only)	

All participants try to pay the registration fee in advance and confirm through mail.



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REGISTRATION

Please fill up the registration form and send it to adinathupadhyay@gmail.com

NAME	MS. SANSKRITI GAUR
MR./MS./DR./PROF.	
DATE OF BIRTH	08-03-2006
DESIGNATION	STUDENT
ORGANISATION (Full address)	KULBHASKAR ASHRAM P. G, COLLEGE
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REGISTRATION FEE DETAILS: DD NO./DATE /NEFT/RTGS/ OR ANY OTHER ONLINE WITHREFERENCE NUMBER	
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NAME	Shreyansh Durganishi
MR./MS./DR./PROF.	
DATE OF BIRTH	22/02/2007
DESIGNATION	Student
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REGISTRATION FEE DETAILS: DD NO./DATE /NEFT/RTGS/ OR ANY OTHER ONLINE WITH REFERENCE NUMBER	UPI TRANSACTION ID - 112807194156
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NAME	Mohak Jainwal
MR./MS./DR./PROF.	
DATE OF BIRTH	13/01/2006
DESIGNATION	Student
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MOBILE NO.	8423488476
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NAME	Sanskriti Shukla
MR./MS./DR./PROF.	
DATE OF BIRTH	10/05/2005
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NAME	Astha Tiwari
MR./MS./DR./PROF.	
DATE OF BIRTH	02/06/2007
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REGISTRATION FEE DETAILS: DO NO./DATE /NEFT/RTGS/ OR ANY OTHER ONLINE WITH REFERENCE NUMBER	UPI: Transaction ID - 529027022142
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Account Number: 66630200000126
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REGISTRATION

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MR./MS./DR./PROF.	
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REMARKS (Office Use Only)	

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NAME	
MR./MS./DR./PROF.	Akhil Kumar Singh
DATE OF BIRTH	25/12/2005
DESIGNATION	Student
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MOBILE NO.	8756332733
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Bharati University**

Account Number: 66630200000126

IFSC Code: BARB0VJHGNJ

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REGISTRATION

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NAME	Sanskriti Shukla
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MOBILE NO.	7081808824
REGISTRATION FEE DETAILS: DD NO./DATE /NEFT/RTGS/ OR ANY OTHER ONLINE WITH REFERENCE NUMBER	UPI TRANSACTION I'D — 112802185625
REMARKS (Office Use Only)	

All participants try to pay the registration fee in advance and confirm through mail.



Start Available - 30, Registration Last Date - October 25, 2025, Registration Fees - 1000
Mode of Payment: online/NEFT/RTGS/DD Account Details: Nehru Gram Bharati University
Account Number: 66630300000526
IFSC Code: BARBOVJH4NJ
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Registration Form

NAME MR./MS./DR./PROF.	MAHIMA GUPTA
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REMARKS (Office Use Only)	

REGISTRATION

Please fill up the registration form and send it to adithyapadhyay@gmail.com

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Mahima
Gupta
(Signature of Participant)

Certificate Distributions













NEHRU GRAM BHARATI (DU)
Workshop on Food Products
26.10.2025 11:31

























Media Coverage

पांचदिनी कार्यशाला का हुआ आगाज

प्रयागराज। नेहरू ग्राम भारती मानित विश्वविद्यालय में 'स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके पोषक मूल्य के विश्लेषण' विषय पर पांचदिनी कार्यशाला का शुभारंभ हुआ। मुख्य अतिथि प्रो. ज्ञानेश्वर हेड (बीएचयू) ने बताया कि जीनोम तकनीक से खाद्य पदार्थों की गुणवत्ता बढ़ाने में नई संभावनाएं खुली हैं। कुलपति प्रो. रोहित रमेश ने ऐसे प्रशिक्षणों को शिक्षा की गुणवत्ता के लिए आवश्यक बताया।

जीन और जीनोम तकनीकी की दी जानकारी

जासं, प्रयागराज : नेहरू ग्राम भारती मानित विश्वविद्यालय में पांच दिवसीय कार्यशाला का आयोजन हुआ। स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके पोषक मूल्य के विश्लेषण विषयक कार्यशाला के मुख्य अतिथि बीएचयू की साइटोजेनेटिक्स प्रयोगशाला के जीन विज्ञानी प्रो. ज्ञानेश्वर ने जीन और जीनोम तकनीकी की जानकारी दी। एनजीबीयू के कुलपति प्रो. रोहित रमेश ने प्रशिक्षण की सार्थकता के लिए प्रतिभागियों की संतुष्टि पर बल दिया। धन्यवाद कुलसचिव एसएस मिश्रा ने दिया। समन्वयक डा. आदि नाथ ने किया।

संक्षिप्त समाचार

स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके पोषक मूल्य के विश्लेषण विषयक पांच दिवसीय कार्यशाला का शुभारंभ

नेहरू ग्राम भारती मानित विश्वविद्यालय प्रयागराज में केंद्रीय उपकरण शाला एवं वनस्पति विज्ञान विभाग के संयुक्त तत्वावधान में दिनांक 26-30 अक्टूबर 2025 तक आयोजित पांच दिवसीय कार्यशाला स्थानीय खाद्य सामग्रियों की तैयारी



एवं उनके पोषक मूल्य के विश्लेषण के उद्घाटन समारोह में बतौर मुख्य अतिथि साइटोजेनेटिक्स लेबोरेटरी जंतु विज्ञान विभाग बनारस हिन्दू विश्वविद्यालय वाराणसी के प्रसिद्ध जीन विज्ञानी प्रो. ज्ञानेश्वर हेड ने जीन और जीनोम तकनीकी के द्वारा रानी केतवन और सैनिक विवाद जैसे मुद्दों को दृष्टांत देकर हल निकाला तथा बताया की खाद्य पदार्थों के विश्लेषण तथा गुणवत्ता बढ़ाने में मोलेक्युलर मार्कर के प्रयोग से धान गेहूं बाजरा की उन्नत किस्में तैयार की गई है, एनजीबीयू के कुलपति प्रो. रोहित रमेश ने ट्रेनिंग की सार्थकता हेतु प्रतिभागियों की संतुष्टि पर बल देते हुए बताया कि इस तरह के प्रशिक्षण शिक्षा की गुणवत्ता बनाए रखने में उपयोगी होते हैं, धन्यवाद ज्ञापन विश्वविद्यालय के कुलसचिव श्री एस. एस. मिश्रा ने दिया तथा कार्यक्रम का समन्वयक डॉ आदि नाथ ने किया, कार्यक्रम के तकनीकी सत्र में सम्पूर्ण कार्बोहाइड्रेट क्रूड प्रोटीन फैट टैनिन लिग्निन पेक्टिन फाइबर सहित सभी आवश्यक पोषक तत्वों की कॉन्सेप्ट को बताते हुए प्रशिक्षण कार्य करवाया गया, इसमें प्रो. बृजेंद्र मिश्रा डॉ राजेश तिवारी डॉ आशीष शिवम् डॉ शक्ति नाथ त्रिपाठी श्री प्रदीप उपाध्याय डॉ शिवश्रेय यादव डॉ संतेश्वर मिश्रा श्री विमलेश दुबे श्री सोमेश जी शकुंतला जी सहित बड़ी संख्या में प्रतिभागी शामिल रहे।

स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके पोषक मूल्य के विश्लेषण विषयक पांच दिवसीय कार्यशाला का शुभारंभ



बीके यादव/बालजी दैनिक

प्रयागराज : नेहरू ग्राम भारती मानित विश्वविद्यालय, प्रयागराज में केंद्रीय उपकरण शाला एवं वनस्पति विज्ञान विभाग के संयुक्त तत्वावधान में दिनांक 26-30 अक्टूबर 2025 तक आयोजित पांच दिवसीय कार्यशाला स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके

पोषक मूल्य के विश्लेषण के उद्घाटन समारोह में बतौर मुख्य अतिथि साइटोजेनेटिक्स लेबोरेटरी, जंतु विज्ञान विभाग, बनारस हिन्दू विश्वविद्यालय, वाराणसी के प्रसिद्ध जीन विज्ञानी प्रो. ज्ञानेश्वर हेड ने जीन और जीनोम तकनीकी के द्वारा रानी केतवन और सैनिक विवाद जैसे मुद्दों को दृष्टांत देकर

हल निकाला तथा बताया की खाद्य पदार्थों के विश्लेषण तथा गुणवत्ता बढ़ाने में मोलेक्युलर मार्कर के प्रयोग से धान, गेहूं, बाजरा की उन्नत किस्में तैयार की गई है। एनजीबीयू के कुलपति प्रो. रोहित रमेश ने ट्रेनिंग की सार्थकता हेतु प्रतिभागियों की संतुष्टि पर बल देते हुए बताया कि इस तरह के

प्रशिक्षण शिक्षा की गुणवत्ता बनाए रखने में उपयोगी होते हैं। धन्यवाद ज्ञापन विश्वविद्यालय के कुलसचिव श्री एस. एस. मिश्रा ने दिया तथा कार्यक्रम का समन्वयक डॉ आदि नाथ ने किया। कार्यक्रम के तकनीकी सत्र में सम्पूर्ण कार्बोहाइड्रेट, क्रीड प्रोटीन, फैट, टैनिन, लिगनिन, पेक्टिन, फाइबर सहित सभी आवश्यक पोषक तत्वों की कॉन्सेप्ट को बताते हुए प्रशिक्षण कार्य करवाया गया। इसमें प्रो. बृजेंद्र मिश्रा, डॉ राजेश तिवारी, डॉ आशीष शिवम्, डॉ शक्ति नाथ त्रिपाठी प्रदीप उपाध्याय, डॉ शिवश्रेय यादव, डॉ संतेश्वर मिश्रा विमलेश दुबे सोमेश शकुंतला सहित बड़ी संख्या में प्रतिभागी शामिल रहे।

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स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके पोषक मूल्य के विश्लेषण विषयक पांच दिवसीय कार्यशाला का समापन

राज हिन्दू संवाददाता प्रयागराज। मेहरा ग्राम भारतीय मानित विश्वविद्यालय, प्रयागराज में केंद्रीय उपकरण शाला एवं वनस्पति विज्ञान विभाग के संयुक्त तत्वावधान में दिनांक 26-30 अक्टूबर 2025 तक आयोजित पांच दिवसीय कार्यशाला 'स्थानीय खाद्य सामग्रियों की तैयारी एवं उनके पोषक मूल्य के विश्लेषण' के समापन समारोह में वरिष्ठ मुख्य अतिथि वनस्पति विज्ञान विभाग, इलाहाबाद विश्वविद्यालय, प्रयागराज के एसोसिएट प्रोफेसर डॉ. अश्वनी कुमार ने अंडरग्रेजुएट खाद्य सामग्री के मार्केट तकनीकी को पोषक तत्वों से भरपूर होने के साथ प्रॉक्सिमिटी उत्पाद तैयार करके बढ़ाने हेतु निर्देशन किया। एनजीबीयू के कुलपति प्रो. रोहित रमेश ने ट्रेनिंग की सार्थकता हेतु प्रतिभागियों की

संतुष्टि पर बल देते हुए बताया कि इस तरह के प्रशिक्षण शिक्षा की गुणवत्ता बनाए रखने के साथ उपलब्ध उपकरणों का सामाजिक आर्थिक अध्यापन हेतु तकनीकी के स्थानांतरण द्वारा उपयोगी होते हैं।



धन्यवाद ज्ञापन विश्वविद्यालय के कुलसचिव एस. एस. मिश्रा ने दिया तथा कार्यक्रम का समन्वयक डॉ. आदि नाथ ने किया। कार्यक्रम के तकनीकी सत्र में सम्पूर्ण काबीहाइड्रेट, कूड प्रोटीन, फैट,

टैनिन, लिगनिन, फेनिन, फाइबर सहित सभी आवश्यक पोषक तत्वों की कौन्सेंट को बताते हुए प्रशिक्षण कार्य अनवरत करने हेतु विज्ञान और प्रौद्योगिकी को सामाजिक पहुंच हेतु वादा किया। इसमें डॉ.

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