

Report
of
Professional Development Program on
Recent Trends in Agriculture for Sustainable Food and Nutritional Security

Agriculture is the largest industry in the entire globe. It employs over a billion people. Pasture and cropland cover over half of the world's livable territory and offer habitat and food for a diverse range of animals. When agricultural activities are managed sustainably, they can help protect watersheds, preserve key habitats, and improve soil health and water quality. Unsustainable activities, on the other hand, have major irreparable consequences. The necessity for long-term resource management has become more critical. As the world's population expands, so does demand for agricultural commodities. Agriculture is one of the most significant frontiers for conservation around the world because of its strong interconnections with the global economy, human societies, and biodiversity.

Integral Institute of Agricultural Technology and Sciences (IIAST), organised a two-week virtual professional development programme on “Recent Trends in Agriculture for Sustainable Food and Nutritional Security” from 23rd November to 7th December, 2021. This Professional Development Program (PDP) was designed to learn, explore and apply sustainable techniques in the present era to decrease the environmental degradation due to conventional farming practices applied on the field. Speakers from prestigious institutes and universities shared their perspectives on recent technological trends with the participants from different states.

PDP HIGHLIGHTS:

The Chief Patron of PDP was **Prof. S. W. Akhtar**, Hon’ble Chancellor and Founder, Integral University, the Patrons were **Dr. Syed Nadeem Akhtar**, Hon’ble Pro-Chancellor, Integral University and **Prof. Javed Musarrat**, Hon’ble Vice Chancellor, Integral University who were the constant source of support. The PDP was conducted under guidance of Co-Patrons **Prof. Aqil Ahmad**, **Prof. T. Usmani**, **Prof. Wahaqul Haq**, **Mr. Ahmad Raza**, **Prof. Syed Misbahul Hasan**, **Prof. Zafar Idris**, **Syed M. Faizan Akhtar** and **Prof. M. A. Khalid** and Members of Managing Committee, **Prof. (Dr.) Mohd. Haris Siddiqui**, Dean, Faculty of Agricultural Science

and Technology, **Prof. Syed Aqeel Ahmad**, Director, HRDC, **Prof. Abdul Rahman Khan**, Controller of Examinations . The Convener was **Dr. Saba Siddiqui**, Head, Department of Agriculture, Integral University.

Inaugural Session:

The inaugural session was successfully conducted on 23rd November, 2021 **Bishop Prof. (Dr.) Rajendra B. Lal**, Vice Chancellor, SHUATS, Prayagraj graced the occasion as Chief guest . Other distinguished guests **Dr. A.K. Singh**, DDG, Agricultural Extension, ICAR, **Mr Alok Ranjan (IAS)**, Former Chief Secretary and Agriculture Production Commissioner, **Dr. M. J. Khan**, Chairman, Indian Chamber of Food and Agriculture, **Dr. Shailendra Rajan**, Director, ICAR-CISH, Lucknow enriched the participants with their experience and Intellect. The Introductory Address was delivered by Pro Vice Chancellor **Prof Aqil Ahmad**, Co-Patron, PDP, Inaugural Address was given by Hon'ble Vice Chancellor **Prof. Javed Musarrat**, Patron, PDP and Presidential Address by Hon'ble Chancellor & Founder **Prof. Syed Waseem Akhtar**, Chief Patron, PDP.

PDP Sessions:

PDP Sessions			
Date	Module	Speakers	Topic
23/11/2021	Module I Modern Tools and Techniques for Sustainable Agriculture	Dr. D. R Sena Principal Scientist, Division of Agricultural Engineering, ICAR- IARI, New Delhi Ph. No. 7983332891	Modern Tools and Techniques for Sustainable Agriculture
		Dr. Somshubhra Chakraborty Assistant Professor, Department of Agricultural and Food Engineering, IIT Kharagpur Ph. No. 8670125707	Applications of Advance Sensors and AIML in Soil Management

		Dr. A. K Singh Principal Scientist and Head, Division of Agricultural Engineering, ICAR-IISR Ph. No. 9415780095	Modern Tools and Techniques for Sustainable Sugarcane Production
24/11/2021	Module I Modern Tools and Techniques for Sustainable Agriculture	Dr. Indra Mani Head, Division of Agricultural Engineering, ICAR-IARI, Pusa, New Delhi Ph. No. 9868656885	Modern Tools and Techniques for Sustainable Agriculture
		Dr. V. K Tripathi Associate Professor, Department of Farm Engineering, Banaras Hindu University, Banras Ph. No. 8419061101	Sustainable Agriculture Water Management to enhance productivity
25/11/2021	Module II Hi-Tech Nursery Management	Prof B.N Hazarika Dean, College of Horticulture and Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh Ph. No. 9436250945	Hi-Tech Horticulture Nursery as enterprise
		Dr. R. K. Dubey Senior Scientist, Division of Crop Improvement, ICAR- IIVR, Varanasi Ph. No. 9436631121	Hi-Tech Nursey Management
		Prof. S. Manivannan Professor, Department of Horticulture, Central 9University of Tamil Nadu, Tamil Nadu Ph. No. 7602878189	Hi-Tech Nursery management Certification of Planting material
		Dr. Nageshwar Dubey Professor, Department of Earth Science, Addis Ababa Science	Parent Rock Lithology and its control on Ethiopian soil

		and Technology, Kilinto, Addis Ababa, Ethiopia, NE Africa Ph. No. 9450590877	
27/11/2021	Module III INM and IPM	Prof. P. Q Rizvi Chairman, Department of Plant Protection, Aligarh Muslim University, Aligarh Ph. No. 9412328718	Integrated Pest management in Rice
		Prof. Ramesh Chandra Head, Department of Soil Science, GPBUA&T, Pant Nagar Ph. No. 9412982048	IPNM Approach for sustainable agriculture
		Prof. B. K Sharma Professor, Department of Mycology and Plant Pathology, Banaras Hindu University, Varanasi Ph. No. 9454350649	IPM – A smart solution to plant disease management
29/11/2021	Module IV Livestock and Poultry Management	Dr. Mahesh Chander Head, Division of Extension Education, ICAR- Indian Veterinary Research Institute, Izzatnagar, Bareilly, U.P. Ph. No. 9411087833	Livestock and Poultry in India: Overview
		Dr Baba Saheb M. R. Thombre Associate Dean and Principal, College of Agriculture, Ambajogai, Maharashtra Ph. No. 9421195761	Role of Livestock in Indian economy
		Dr. B. Rai Director, Discipline of Livestock Production & Management, ICAR-CIRG, Mathura Ph. No. 6398139132	Livestock and Poultry Management
30/11/2021	Module V	Prof. M. Feza Ahmad	Post Harvest technology

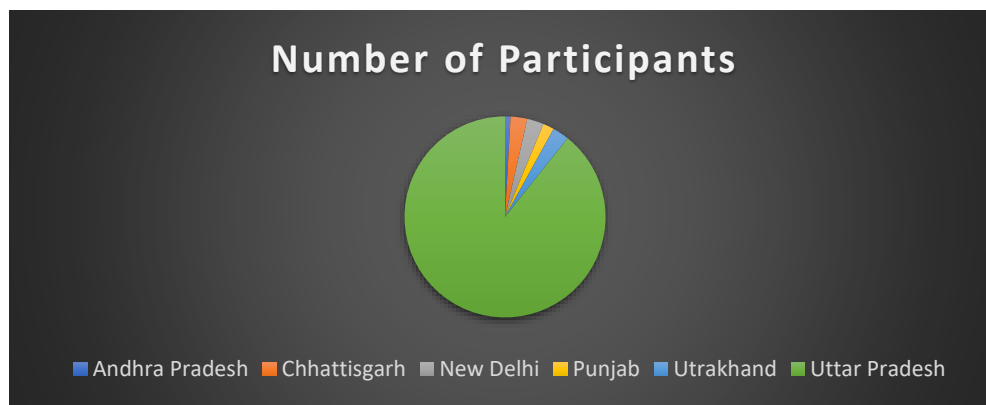
	Post Harvest Management and Value Addition	University Professor cum Chief Scientist, Department of Fruit and Fruit Technology, Bihar Agricultural University, Bhagalpur, Bihar Ph. No. 9773196203	
		Dr. Paramjeet S. Paresar Professor, Department of Food Engineering and Technology, SLIET, Longowal, Sangrur, Punjab Ph. No. 9417494849	Biotechnological Interventions Food Processing: Current status and future prospects
		Dr. Mohd. Waseem Siddiqui Scientist, Department of Food Science & Post Harvest Technology, Bihar Agricultural University, Sabour Ph. No. 9835502897	Contemporary packing systems for fruit and vegetables
1/12/2021	Module VI Climate change mitigation and food security	Prof. Venkatesh Dutta Professor, Department of Environmental Science, School of Earth & Environmental Sciences (SEES), BBAU, Lucknow Ph. No. 9918466778	Global warming associated with climate change and its impact on flora and fauna
		Dr. P. C. Abhilash Senior Assistant Professor, Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi Ph. No. 9415644280	Processing agrobiodiversity for Food security and climate adaptation

		Dr. Kaushik Banerjee Principal Scientist, Department Agricultural Chemistry, ICAR- NRC for Grapes, Pune, Maharashtra Ph. No. 9890940914	Pesticides residues in fruits and vegetables – issues and management
2/11/2021	Module VII Organic Farming	Prof. R. B. Yadav Professor, Department of Agronomy, SVPUAT, Meerut Ph. No. 9412525632	Organic Farming
		Prof. Laxuman Sharma Professor, Department of Horticulture, Sikkim University, Sikkim Ph. No. 9434217895	Organic certification process for growers group
		Prof. Yogeshwar Singh Head, Department of Agronomy, CAU, Jhansi Ph. No. 7020192152	Relevance of organic farming in climate resilient sustainable agriculture
3/11/2021	Module VII Organic Farming	Dr. Dinesh Kumar Principal Scientist, Division of Agronomy, ICAR-Indian Agricultural Research Institute, New Delhi Ph. No. 9968233749	Introduction to Organic Farming
		Dr. Gerard Abraham Principal Scientist, ICAR- IARI, New Delhi Ph. No. 9871778380	Application of Azolla and Cyanobacterial biofertilizer in organic farming and sustainability

4/11/2021	Module VIII Integrated Farming System	Dr. V. K. Singh Director, CRIDA, Santoshnagar, Saidaba, Hyderabad Ph. No. 9821349639	Farming system approach for enhanced profitability and livelihood
		Prof. S. S. Walia Professor, Department Of Agronomy, Punjab Agricultural University, Punjab Ph. No. 8146400134	Innovative techniques in Agriculture: IFS
6/11/2021	Module VIII Integrated Farming System	Dr. L.R. Meena Principal Scientist, ICAR- Indian Institute of Farming Systems Research, Modipuram, Meerut Ph. No. 8979814026	Recent Advances in IFS in India

- Registered Participants – 112
- Online active engagement through content-based learning, assignments & quizzes on **Google platform**.
- Participants were from **6 different states** across India.

Chart: Number of Participants of PDP from different States



Valedictory Session:

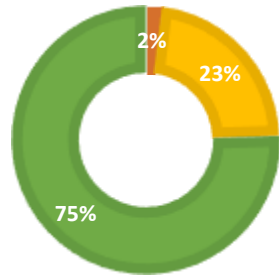
The valedictory session after two weeks PDP program was organized on 7th December 2021. The Chief Guest of the Valedictory session was **Dr. Ashwin Dutt Pathak**, Director, ICAR-IISR, Lucknow. The Distinguished Guest was **Dr. Virendra Shishodia**, Additional Director Agriculture, Govt. of U.P. and **Dr. A.K. Nigam**, Former Director, Institute of Applied Statistics and Development Studies was the guest of honor. The PDP Summary and Outcomes were presented by **Prof. Mohammed Haris Siddiqui**, Dean, Faculty of Agricultural Science & Technology, Integral University, Lucknow. The Presidential Address were delivered by Hon'ble Vice Chancellor **Prof. Javed Musarrat**, Patron, PDP.

The PDP Coordinators were Dr. Faria Fatima, Mr. Nadeem Khan, Dr. Md. Abu Nayyar and Dr. P. Smriti Rao. All the PDP related activities like e-content, quizzes, and attendance were effectively well-coordinated by the *Coordinators and Moderators (all staff members)*, who arranged for quality speakers for this PDP and walked the extra mile to bridge the participants with the speakers. Also, they were instrumental in ensuring the punctuality of the program. All the participants were enthusiastic and responsive throughout the event. PDP concluded with excellent feedback and positive response from all participants as they found the sessions to be insightful, informative, inspiring, and enriching.

FEEDBACK ANALYSIS OF THE PARTICIPANTS

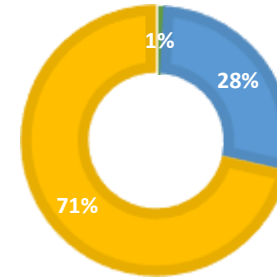
HOW SATISFIED WERE YOU WITH THE CONTENT OF PRESENTATION

■ Average ■ Very Good ■ Excellent



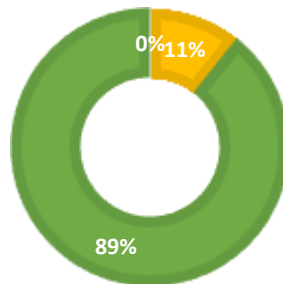
HOW YOU GRADE THE SESSION OF SPEAKERS

■ Average ■ Very Good ■ Excellent



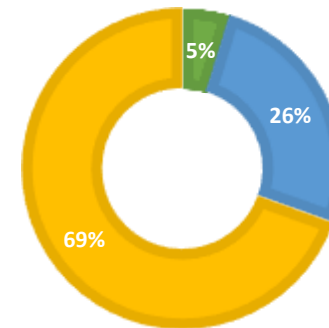
HOW RELEVANT AND HELPFUL FOR YOUR JOB/CAREER

■ Average ■ Very Good ■ Excellent



OVERALL FEEDBACK OF THE PDP

■ Average ■ Very Good ■ Excellent



GLIMPSE OF PDP





**INTEGRAL
UNIVERSITY**
LUCKNOW - INDIA

Celebrating
23 years of
EXCELLENCE

INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY (IIAST)
IS ORGANIZING

TWO WEEKS PROFESSIONAL DEVELOPMENT PROGRAMME (PDP)

ON

RECENT TRENDS IN SUSTAINABLE

AGRICULTURE

22 November - 6 December 2021



INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE AND TECHNOLOGY (IIAST)
 The Integral Institute of Agricultural Science and Technology was established in 2014 and since its inception it is striving hard to nurture young students and provide them to become a good contribution to the field of Agriculture.
 IIAST offers various undergraduate programmes B.Sc. (Hons.) Agriculture, B.Tech. Agriculture Production, four-year B.Sc. Agriculture Management, B.Sc. Agriculture & Food Processing/Agripreneurship, B.B.A. Agriculture Management and Ph.D. Programme in various categories of Agriculture.

The faculty and research facilities of Institute are taken into the rightly specified professionals, trained in updated and latest of Agriculture Science and Technology.
ABOUT THE PROFESSIONAL DEVELOPMENT PROGRAM
 Sustainable agriculture refers to farming methods that are favourable to the environment and allow for the production of crops or livestock without causing harm to future or current systems. The elements of sustainable agriculture is to meet society's current food and textile demands without endangering future generations' ability to meet their own. This PDP on Recent Trends in Agriculture for Sustainable Food & Nutritional Security aims to cater to a nation on experts on discussing, identifying open and potential problems of Sustainable Agriculture & their solutions. Members of the research and academic community will be able to enhance research on various emerging topics in Sustainable Agriculture.

WHO SHOULD ATTEND THE PDP?
 This course is beneficial for faculty members and academics from Agriculture Institutions/Colleges/Universities and working professionals from other Agricultural organisations. The members of state or national and the registration will be made on the spot basis for a fee basis.

- THEME**
- Agricultural Technology in Agriculture
 - Agricultural Production Management
 - Agricultural Quality Management
 - Agricultural Extension
 - Agricultural Economics & Bioinformatics
 - Agricultural Safety & Health
 - Agricultural Marketing
 - Agricultural Waste Management
 - Agricultural Policy & Regulation
 - Agricultural Education

RESOURCE PERSONS
 The Institute faculty members and experts in various fields, foreign, national institutions & industry members, experienced from all over the globe have been invited as resource persons in this initiative to give an expert advice to members of the PDP course.

INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY (IIAST)
IS ORGANIZING
TWO WEEKS
PROFESSIONAL DEVELOPMENT PROGRAMME (PDP)
ON
RECENT TRENDS IN AGRICULTURE FOR SUSTAINABLE
FOOD & NUTRITIONAL SECURITY
23 November - 7 December 2021

CHIEF PATRON **PATRONS**

CHIEF PATRON
 Prof. B. R. KUMAR
 VICE CHANCELLOR
 INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY

PATRONS
 Dr. SURESH KUMAR AGGARWAL
 DEAN, COLLEGE OF AGRICULTURE
 INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY
 Prof. JAYSHANKAR SHARMA
 DEAN, COLLEGE OF AGRICULTURE
 INTEGRAL INSTITUTE OF AGRICULTURAL SCIENCE & TECHNOLOGY

IAS MEMBERS

23 November 2021 | 10:00 am to 12:00 hours IST

REGISTRATION CHAIRMAN **SECRETARY**

IMPORTANT DATES/TIME

Registration Form Link: <https://forms.gle/9UjgqLzT7MhGcM>

MODULE AND SPEAKERS

Module VI: Market Value and Strategies for Sustainable Agriculture | Date: 31-31 November 2021

Dr. D. R. Jena
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. Anand Kumar
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. A. K. Singh
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Module VII: Market Value and Strategies for Sustainable Agriculture | Date: 01 November 2021

Dr. S. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. V. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. Pradeep Kumar
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Module VIII: Market Value and Strategies for Sustainable Agriculture | Date: 02 November 2021

Dr. S. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. V. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. Pradeep Kumar
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 IAS, IIT, Bhubaneswar

Module IX: Market Value and Strategies for Sustainable Agriculture | Date: 03 November 2021

Dr. S. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. V. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. Pradeep Kumar
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 IAS, IIT, Bhubaneswar

Module X: Market Value and Strategies for Sustainable Agriculture | Date: 04 November 2021

Dr. S. K. Mishra
 IAS, IIT, Bhubaneswar
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Dr. V. K. Mishra
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 IAS, IIT, Bhubaneswar

Dr. Pradeep Kumar
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Module XI: Market Value and Strategies for Sustainable Agriculture | Date: 05 November 2021

Dr. S. K. Mishra
 IAS, IIT, Bhubaneswar
 IAS, IIT, Bhubaneswar

Dr. V. K. Mishra
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 IAS, IIT, Bhubaneswar

Dr. Pradeep Kumar
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Module XII: Market Value and Strategies for Sustainable Agriculture | Date: 06 November 2021

Dr. S. K. Mishra
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Dr. V. K. Mishra
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Dr. Pradeep Kumar
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Module XIII: Market Value and Strategies for Sustainable Agriculture | Date: 07 November 2021

Dr. S. K. Mishra
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Module XIV: Market Value and Strategies for Sustainable Agriculture | Date: 08 November 2021

Dr. S. K. Mishra
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Module XV: Market Value and Strategies for Sustainable Agriculture | Date: 09 November 2021

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Module XVI: Market Value and Strategies for Sustainable Agriculture | Date: 10 November 2021

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Module I: Food System Management and Value Addition | Date: 01 November 2021

Prof. H. P. Singh
 IAS, IIT, Bhubaneswar
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Prof. P. K. Mishra
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Module II: Food System Management and Value Addition | Date: 02 November 2021

Prof. H. P. Singh
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Module III: Food System Management and Value Addition | Date: 03 November 2021

Prof. H. P. Singh
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Module IV: Food System Management and Value Addition | Date: 04 November 2021

Prof. H. P. Singh
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Module V: Food System Management and Value Addition | Date: 05 November 2021

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Module VI: Food System Management and Value Addition | Date: 06 November 2021

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Module VII: Food System Management and Value Addition | Date: 07 November 2021

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Module VIII: Food System Management and Value Addition | Date: 08 November 2021

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Module IX: Food System Management and Value Addition | Date: 09 November 2021

Prof. H. P. Singh
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Module X: Food System Management and Value Addition | Date: 10 November 2021

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Participants List

S.no	Name of Participant	Email-ID	Designation	Institute	Address	State
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9.	ASHUTOSH TIWARI	ashu276142@gmail.com	STUDENT	A N D U A & T KUMARGANJ AYODHYA	VILL PRATAPPUR CHHATAURA POST MANGITPUR DIST AZAMGARH	UTTAR PRADESH
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15.	Avantika Rai	avantikahdfsbbau@gmail.com	Assistant professor	RMLAU	C/59 NDUAT campus Kumarganj	U. P.
16.	MOHAMMAD MUZTABA	khanmuztaba12@gmail.com	Assistant Professor	Abdul Kalam technical University Lucknow	Gandhi Nagar Basti	Uttar Pradesh
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18.	Dr Prem Narayan Verma	pnverma@iul.ac.in	Assistant Professor	IIAST, INTEGRAL UNIVERSITY	B702 Spring Green Faizabad Road Lucknow	UP
19.	Dr. Suhail Ahmad Khan	suhailkhan@iul.ac.in	Assistant Professor	Integral University	IIAST, Integral University	UP
20.	Uday Veer Singh	uday1187@gmail.com	Assistant Professor	I.I.A.S.T., Integral University, Lucknow	Khutar Road Near Phool Baba Ashram Gola Gokarn Nath Lakhimpur Kheri	Uttar Pradesh
21.	Sandeep Kumar Singh	skumars@iul.ac.in	Senior lab instructor	IIAST integral University Lucknow	IIAST Integral University Lucknow	Uttar Pradesh
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