

काशी हिन्दू  
विश्वविद्यालय



BANARAS HINDU  
UNIVERSITY



**BHU**

## NATIONAL SEMINAR

on

### **Sustainable Agriculture for Food Security and Better Environment**

**Date: 24<sup>th</sup> March, 2018**

**Venue: Malaviya Centre for Innovation, Incubation and Entrepreneurship, Indian Institute of Technology, Banaras Hindu University**

**Organized by: DDU KAUSHAL KENDRA, Rajiv Gandhi South Campus, Barkachha, Banaras Hindu University**

#### **Banaras Hindu University**

Banaras Hindu University is a leading residential & internationally reputed temple of learning situated at half a mile away from the bank of Ganga in the holy city of Varanasi- “the sacred city” Known for spirituality. The University was founded by the great nationalist and visionary leader, Mahamana Pt. Madan Mohan Malviya, in 1916. The university is spread over 4,000 acres in two campuses – i.e. the main campus being in Varanasi and the second campus being developed at Rajiv Gandhi South Campus, Barakachha, Mirzapur. There are 4 institutes, 17 faculties, more than 140 teaching departments, 4 advanced centers and 4 interdisciplinary schools, 1 undergraduate college for women and more than 80 hostels with more than 30,000 students, about 1,800 teachers and nearly 5,000 non-teaching staffs.

#### **About the RGSC, Barkachha**

Rajiv Gandhi South Campus, Barkachha is situated about 12 kilometers from Mirzapur railway station on Robertsganj highway. It has huge campus of over 2600 acres. This campus runs more than 22 interdisciplinary courses including Bachelor of vocation in Food Processing, Management and Medical Lab Technology. This campus has administrative block, lecture theatre complex, student’s health center, separate boys and girls hostels, guest house, residential facility, dairy farm, two full-fledged banks, Malaviya park etc. Vindhyachal temple is very nearby to this campus. Some tourist attraction such as Windom fall, Sirsi fall and Tanda fall are very nearby to this campus.

## About DDU Kaushal Kendra

For Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood, Deen Dayal Upadhyay Kaushal Kendra are introduced so as to ensure that the graduates of higher education system have adequate knowledge and skills for employment and entrepreneurship. The higher education system has to incorporate the requirements of various industries in its curriculum, in an innovative and flexible manner while developing a holistic and well groomed graduate.

## Objectives of DDU Kaushal Kendra

- Create skilled manpower for industry requirements at various levels.
- To provide vertical mobility to from short term certificate courses to degree programme.
- To provide supplementary modular training programmes according to job roles at NSQF Level 5 onwards by conducting assessment and certification with respective sector skill councils (SSCs) so that a learner irrespective of his/her training background is made job ready with necessary work skills (soft, communication, ICT skills etc) and fill the gaps in the domain skills measured against QPs/NOS.
- To provide judicious mix of skills relating to a profession and appropriate content of General Education.
- To provide flexibility to the students by means of pre-defined entry and multiple exit points.
- To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.

At DDU Kaushal Kendra, Rajiv Gandhi South Campus, BHU following skill orientated courses are running:

- Bachelor of Vocation in Food Processing and Management
- Bachelor of Vocation in Retail and Logistics and Management
- Bachelor of Vocation in Hospitality and Tourism Management
- Bachelor of Vocation in Medical Laboratory Technology
- Master of Vocation in Food Processing and Management
- Master of Vocation in Retail and Logistics and Management
- Master of Vocation in Hospitality and Tourism Management
- Master of Vocation in Medical Laboratory Technology

## About the Seminar

Agriculture is an important sector that acts as major contributor to the Indian economy. Agricultural engineering is developed to make advances in sustainable agriculture which is totally ecofriendly. Food security and crop production will gain strength, if agricultural engineering is developed appropriately. Food Processing industry especially agro-horticulture based research is identified as a thrust area of development. Fruit and Vegetables such as Banana, Jack, Fruits,

Orange, Lemon, Potato, Tomato, etc. have good marketing scope if harvested processed and packaged. Food Processing also includes the development of protein rich foods and food additives. There is an increasing interest in applying modern food technology, food and nutrition problems. The main nutritional implications are in particular reducing food wastage and preventing losses in nutritive value and conserving or enhancing palatability. Innovative food processing technologies such as High Pressure Processing, High Pressure Thermal Sterilization, Radiofrequency, Ultrasound, Ultraviolet, Pulsed Electric Fields Processing, etc. are the only suitable options for sustainable food security. This will not only help for food protection, but will also help us to increase our export potential. The economic status of producers will also improve resulting in an inclusive growth. We need innovative technologies suitable to India's conditions and newer ventures in food industries to process and preserve the food. It will also create awareness amongst stake holders on the values and qualities of available technologies as well as on the benefits of innovative technologies for processing, preservation and value addition of foods are essential for effectively managing our foods and for reducing post-harvest losses. The National Seminar on “**Sustainable Agriculture for Food Security and Better Environment**” will provide a national forum to academicians, scientists, researchers, small entrepreneurs and food processing industries, to discuss critical issues and concerns to advanced and innovative techniques in food processing and agricultural technologies for better environment. The seminar will also provide opportunities for networking and collaboration amongst researchers and industry.

### Objective of the seminar

- To understand the concept of food security in depth and role of government initiatives in ensuring food security to people.
- To understand the techniques to improve the productivity of Indian farmer sector.
- To spread awareness among the community about the food security programmes of the government.
- To know the importance advanced agricultural practices to improve the food security in our country.
- The seminar will give a platform to young researchers to understand the advanced methods applicable in agriculture and food processing sector.
- To spread the innovative and fruitful techniques for the Indian farmers.
- Role of Agriculture and food processing in Environmental Sustainable Development.

### Call for papers

Original papers or case studies on the above mentioned theme are invited from academicians, scholars and industry officials. The contribution can include any of the topics falling under the broad name of the main theme. The paper must be typed in 12 fonts in Times New Roman 1.5 line spacing. Abstract should have a limit of two paragraphs. Besides, there must be a listing of key words and few lines about the author with email address and contact number. The abstract should reach on or before 28<sup>th</sup> February, 2018 and complete paper should reach on or before 14<sup>th</sup> March, 2018 on the **Email: fooodddurgscbhu@gmail.com** Short listed papers shall be published in the book with ISBN and a special issue of the journal, IJARD (International Journal of

Academic Research and Development) on Sustainable Agriculture for Food Security and Better Environment. The Journals and Books will be provided to the participants only on the payment basis. No Souvenir will be provided in the kit bag.

### **Proposed themes of the Seminar**

#### **FOOD SECURITY**

Food insecurity in India, National food security act: objectives and importance, Challenges to Food security in India, Food Security Programmes in Uttar Pradesh: Challenges and Ways ahead, Food Security and Targeted Public Distribution System in India and Uttar Pradesh: Problems and Prospects, Role of state government in execution of food security programmes, Food Security and sustainable agriculture in India: proposals for effectiveness.

#### **AGRICULTURAL PROCESSING TECHNOLOGY**

Applied Researches in Agriculture, Crop Processing, Organic Agriculture, Agro Biotechnology, Livestock and Fisheries, Horticulture and Food Processing. Opportunities in Farm and Rural Entrepreneurship, Secondary Agricultural Processing Sector, Processing and Value Addition in AgriFood Industry, Agri Infrastructure Processing and Marketing, Agri management, Bonsai, Advance Farming, Ecobiodiversity, Bio pesticide, Composting, Water restoration and conservation

#### **NUTRACEUTICALS AND FUNCTIONAL FOODS**

Nutraceuticals, Probiotics, Food Nutrition, Tea, Spices and Medicinal Plants, Functional, Nutraceutical and Health Foods.

#### **FOOD BIOTECHNOLOGY**

Food Enzymes, Food Biotechnology & Nutrition, Food Biotechnology and Bioprocessing, Novel Biotech Applications in Foods Industry.

#### **DAIRY TECHNOLOGY**

Value Addition of Dairy Products, Dairy Byproducts and Waste Management, Novel Concepts in Milk Processing Equipment, Quality Control in Dairy Industry, Recent Developments in Dairy Industry.

#### **FOOD SAFETY AND QUALITY CONTROL**

Food Quality Control and Assurance, Security, Social and Rural Development, Quality, Safety and Hygiene in Food Processing, Certification, Accreditation and Standards for Food Entrepreneurs, Food Adulteration.

## **FOOD ENGINEERING**

Engineering Machines for Food Processing, Sustainable Technologies in Food Processing, Modern Packaging and Sanitation Technologies, Chemical Engineering, Fruit and Vegetable Processing and Engineering, Engineering Aspects in Food Processing, Modeling and Simulation Approaches in Food Processing.

## **FOOD PROCESSING TECHNOLOGIES**

Preservation Methods, Food Chemistry, Food Microbiology, Fruits and Vegetables Technology, Bakery Technology, Innovative Approaches in Food Processing, Food Packaging and Shelf Life, Food Toxicology, Traditional and Heritage Foods.

## **FOOD PROCESSING MANAGEMENT**

Energy and Infrastructure, Eco, Agro and Nature Tourism, Skills, Jobs and Entrepreneurship, Opportunities for Business and Investment in Food processing, Food business management.

## **HUMAN HEALTH**

Phage Therapy and Its Implication, Infectious and Microbial Problem, Nutrition and Natural Products, Status of Food Supplements in Cancer and Prevention, Weaning Food and its Implication in Health, Gene, Genomics Prospects of Health.

## **ENVIRONMENTAL TECHNOLOGY**

Waste management, Waste water treatment, Effluent treatments, Global Change and Atmospheric Pollution, Natural Resource Management, Sustainable Agriculture, Alternative Energy Resources, Socio-Economic and Legal Dimensions of Sustainable Development, Biodiversity and Bioconservation, Hazardous Wastes (Management and Handling), Waste Utilization and Management in Food Processing.

## **Organizing Committee**

### **CHIEF PATRON**

Vice Chancellor  
Banaras Hindu University Varanasi

### **PATRON**

**Prof. Kumar Pankaj**  
Dean, Faculty of Arts,  
Banaras Hindu University Varanasi

### **CO-PATRON**

**Prof. Saket Kushawaha**  
Professor In-charge, Honorary Director-DDU Kaushal Kendra  
RGSC, Banaras Hindu University

**Prof. O. P. Singh**  
Officer on Special Duty  
RGSC, Banaras Hindu University

**Prof. P.K. Mishra**  
Coordinator  
Malviya Centre for Incubation Centre, IIT, BHU

### **CONVENER**

**Dr. R.S. Mishra**  
Nodal Officer & Cordinator, DDU Kaushal Kendra, BHU

### **ORGANIZING SECRETARIES**

**Dr. Ashok Kumar Yadav**  
Assistant Professor  
DDU Kaushal Kendra, BHU

**Mr. Paritosh Tripathi**  
Manager, MCIE  
IIT, BHU

### **TREASURER**

**Dr. Manoj Kumar Singh**, Assistant Professor, Kriya Sharir, Faculty of Ayurveda, BHU  
**Dr. R.S. Mishra**, Assistant Professor, Office Management & Company Secretaryship, FOA, BHU

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DDU Kaushal Kendra, BHU

**Dr. Sana Fatma**  
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DDU Kaushal Kendra, BHU

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Institute of Ag. Sciences,  
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**Dr. Ashwani Kushwaha**  
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**Dr. Prabhat Tiwari**  
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Agro forestry, RGSC, BHU

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Faculty of Commerce, BHU

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Institute of Management  
Studies, BHU

## Registration Form

Name: .....  
Designation:.....  
Specialization:.....  
Title of Paper:.....  
Corresponding Ad-dress:.....  
Tel./Mob.:.....  
E-mail:.....  
Affiliation: .....  
(College /Institute/ University)  
Accommodation: yes..... No.....

### Detail of Registration Fee

Category	Without Accommodation (per Delegate)	With Accommodation (per Delegate)
Graduate/PG / Ph. D. Student	1000/-	1500/-
Academicians	1500/-	2000/-
Corporate	2500/-	3000/-

### IMPORTANT DATES

Last date of abstract submission	28-02-2018
Last date of full paper submission	02-03-2018
Confirmation of paper acceptance	10-03-2018
Last date of Registration	15-03-2018

### Programme of March 24<sup>th</sup> 2018

#### Schedule of Conference

08:00 AM to 10:30 AM: Registration  
10:30 AM to 11:30 AM: Inaugural / Opening Ceremony  
11:30 AM to 11:45 AM: Hi –Tea  
11:45 AM to 1:15 PM: Technical Session I PARALLEL Technical Session II  
01:15 AM to 02:00 PM: Lunch  
02:00 PM to 03:30 PM: Technical Session III PARALLEL Technical Session IV  
03:30 PM to 04:00 PM: Poster Presentation and Evaluation  
04:00 PM to 04:30 PM: Valedictory Function  
04:30 PM: onwards Hi Tea

**Note:** Separate registration will be there for co-author. Registration fee may be paid in cash. Registration fee includes kitbag and hospitality without Souvenir and Published book. Accommodation will be provided to the outstation registered delegates on prior communication on payment basis.

Date:

Signature:



**SECRETARIAT**

**Dr. R.S. Mishra (9415352550)**  
**Dr. Ashok Kumar Yadav (9451716338)**  
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**Venue:** Malaviya Centre for Innovation, Incubation and Entrepreneurship, Indian Institute of Technology, Banaras Hindu University