



उच्च संकाय प्रशिक्षण केन्द्र, सस्य विज्ञान विभाग, कृषि महाविद्यालय  
गोविन्द बल्लभ पन्त कृषि एवं प्रौद्योगिक विश्वविद्यालय  
पन्तनगर-263 145, उत्तराखण्ड

**CENTRE OF ADVANCED FACULTY TRAINING IN AGRONOMY**  
**College of Agriculture, G.B. Pant University of Agriculture and Technology**  
**PANTNAGAR-263 145, UTTARAKHAND**

No.CA/Agro./ 1365

Dated: 24.07.2017

**Dr. D.S. Pandey**

Professor & Head

and

Director, CAFT Agronomy

**Subject:** Nominations for the training programme on “**Crop Management Strategies for Augmenting Farmers Income**” From **September 13 to October 03, 2017** under CAFT Agronomy

**Dear Sir,**

Department of Agronomy, G.B. Pant University of Agriculture & Technology, Pantnagar-263145, Uttarakhand is organizing 21 days training course on “**Crop Management Strategies for Augmenting Farmers Income**” under the aegies of “**Centre of Advanced Faculty Training**” programme *w.e.f.* **September 13 to October 03, 2017** for teachers and researchers of various Agricultural Universities and ICAR/State Research Institutes.

You are therefore, requested to kindly nominate one or two persons not below the rank of Assistant Professor/Scientist (S1) from your University/ Institute for the aforesaid training. Separate application form is to be filled by each applicant. The duly completed application form (copy enclosed) should reach through proper channel to the undersigned latest by **16.08.2017**. The selected participants will be required to deliver a lecture on teaching/research/extension activities in their respective fields during the training period. The TA, boarding and lodging for aforesaid training programme will be borne by the host institute as per rules. The information of the training and performa can also be downloaded from the **website: [www.gbpuat.ac.in](http://www.gbpuat.ac.in)** and send after getting due approval from the competent authority. **Candidates are also required to apply online through website : [iasri.res.in](http://iasri.res.in) which is mandatory.**

With regards,

Yours Faithfully

(D.S. Pandey)

**Encl:** As above

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# CENTRE OF ADVANCED FACULTY TRAINING IN AGRONOMY



*Sponsored training*



**On**

## **“Crop Management Strategies for Augmenting Farmers Income”**

**(September 13 to October 03, 2017)**



**DEPARTMENT OF AGRONOMY  
COLLEGE OF AGRICULTURE**

***G.B. Pant University of Agriculture & Technology,  
Pantnagar-263 145, U.S. Nagar (Uttarakhand)***

## **ABOUT THE CAFT**

Department of Agronomy is one of the oldest Departments of the College of Agriculture. It came into existence in 1963 with Master's Programme in Agronomy. The Ph.D. programme in Agronomy commenced from 1965. A well-knit U.G., P.G. and Ph.D. programmes with updated syllabi has been operating in the department. The research work has been programmed to cater the needs of the area. The department serves as nodal agency for various extension activities and resource management. The department shares more than 25% of course load of the under graduate teaching. Considering the competence and advance facilities available in the department, ICAR sanctioned Centre of Advanced Studies in Agronomy in 1994 which was upgraded to the Centre of Advanced Faculty Training in 2010. Under the Centre of Advanced Faculty Training, department imparts training to the scientific personnel's working in less privileged/affiliated institutions towards strengthening human resource in the country. Department has conducted 35 trainings under CAS/CAFT till date. The department has also the mandate to develop cost effective technology for efficient and optimal use of resources. It also shares responsibility of transfer of technologies to the farmers and other end users in the state.

## **ABOUT THE COURSE**

Though our food production has increased from 50 to 251.6 million tons form 1950-51 to 2015 -16 and estimated to 272 million tons in 2016-17. It is claimed that we are now self sufficient in food production. But farmers' income has declined substantially and nearly 27% population is living below poverty line. Situation will be exacerbated due to sharp decrease in per capita availability of agriculture land and water in future. Decline in soil health in the post-Green evolution period due to the imbalanced use of fertilizers with scanty or no use of secondary and micronutrients, low addition of organic manures and soil degradation have raised questions on sustainability of future food and nutritional security. Due to the reduced factor productivity, stagnant crop yield and uneconomical farm income our farmers and youths are not willing to continue agriculture. Furthermore, dependency on rain, post adoption of technology and increasing frequency of climatic hazards has led to uncertainty in agricultural production system. So there is a migration of farmers and village's youth to cities for better economic gain.

According to Dr M.S Swaminathan, there are the two major factors that influence the farmers i.e. market and monsoon. Market fluctuates due to uncertainty of monsoon thereby putting farming sector in crisis. Climate change issues are also involved leading to extreme events which are difficult to predict. The distress is multidimensional involving social, economic, technological, gender and ecological aspects and therefore technology and policy changes need to be incorporated and agriculture progress can take place by synergy between policy and technology. There is unanimity among scientific community that the net income of farmers can be increased by improving productivity, water and agri-input policies, integrated farming System, better market price realization and special policy measures. As agronomist we can contribute towards improving productivity of the farmers and developing integrated farming system under different agro ecologies.

Crop yields of our country are surely increasing over the years but still it is very low compared to developed countries. There is wide gap in the productivity among different states, for example, rice productivity in Punjab is 3 times higher than Chhattisgarh. There is urgent need for developing a strategy for assessing the present trends of crop productivity *viz-a-viz* the potential yield of major crop systems, so that specific action plans can be taken up for bridging the yield gaps, which in turn will contribute to enhanced productivity of farming systems. There are various technological ways to increase productivity like adoption of high yielding varieties through conventional and molecular breeding, precision nutrient delivery system, site specific nutrient management, integrated pest management etc. In rain fed regions of India, (which constitutes more than 50% of the country's arable land) farmers are even more distressed. Besides watershed management, constructing check dams and farm ponds should be taken up in a mission mode for providing life saving irrigation for the crops. Soil and water conservation measures, adoption of high yielding drought tolerant varieties together with above measures to ensure life saving irrigation can surely increase farm productivity and profitability. Time has also come to promoting efficient equipments and tools and small engine driven tractors to address small farm requirements adequately. Farming system approach involving

synergistic combination of crops, horticulture, dairy, fisheries, poultry, etc. is a viable option to provide regular income and at site employment to small land holder, decreasing cultivation cost through multiple use of resources and providing much needed resilience for predicted climate change scenario. Resources should be utilized in efficient manner and recycled too. Income per unit land area can be increased appreciably specially for small and marginal farmers. High value crops like off season vegetables, fruits, floriculture and medicinal and aromatic crops using improved varieties, organic manure and drip irrigation, can provide fairly high annual income, to the Farmers. These crops together with dairy husbandry can fetch higher farmer's income than conventional practices. Centre of advanced faculty training in agronomy at Pantnagar has worked on all above aspects and has expertise available to train the scientific staff from various states. A model Integrated farming system too is fully functional in the department.

Therefore, it is realized to reorient our thoughts and research priorities for judicious use of inputs in agriculture so that farming enterprise may attract the farmers and village youth, towards, farming. Hence, under present scenario, the training topic, **“Crop Management Strategies for Augmenting Farmers’ Income”** is well judged as well as required for providing knowledge on new advances and innovation to all stake holders including teaching/research/extension staff.

## ***NOMINATIONS***

The participants should apply online using CBP portal at [www.iasri.res.in/cbp](http://www.iasri.res.in/cbp) or under the link capacity building programme at [www.icar.org.in](http://www.icar.org.in) latest by **16.08.2017**. User has to create account on the CBP site and then using the login id enter into system to apply online for the training programme. After filling the online application, take a printout of the application and get it approved by the competent authority of the organization. Upload the scanned copy of application through CBP portal and send the hardcopy of approved application to undersigned. The selected candidates will be informed by post, fax and/or e-mail.

## ***TRAVEL, BOARDING AND LODGING***

Participants will be paid to and fro fare by shortest route restricted to AC-II train or bus on submission of tickets. Free boarding and lodging will be provided to participants during the training programme as per ICAR guidelines.

## ***PARTICIPANTS***

Teachers and researchers working in this area in SAUs, ICAR and other institutes are eligible. The number of participants will be limited to twenty (20).

## ***ELIGIBILITY AND ADMISSION***

Candidates holding the position of Assistant Professor, Associate Professor or equivalent rank and possess a Post Graduate/Doctoral Degree in Science/Agricultural Sciences/Agronomy preferably below the age of 50 years are eligible.

The application form (enclosed) duly filled and countersigned by the sponsoring authority should reach to the Director, CAFT (Agronomy) by **16.08.2017**, positively. The selected candidates will be informed by post, fax and/or e-mail.

## ***COURSE DIRECTOR***

**Dr. D.S. Pandey**

Director, Centre of Advanced Faculty Training

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## ***COURSE COORDINATOR***

**Dr. K.S. Shekhar, Professor**

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## ***COURSE CO-COORDINATORS***

**1. Dr. Gurvinder Singh, Junior Research Officer**

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**For details and application, please visit  
[www.gbpuat.ac.in](http://www.gbpuat.ac.in)**