

NATIONAL TRAINING  
ON  
ADVANCES IN NUTRIENT USE EFFICIENCY IN LIVESTOCK PRODUCTION SYSTEM  
(January 28- February 10, 2012)

<p><b>PATRON</b></p> <p>Prof. D. Swaroop Director, CIRG</p> <p><b>COURSE DIRECTOR</b></p> <p>Dr. U.B. Chaudhary Pr. Scientist and Head, NFR&amp;PT</p>			<p><b>SPONSORER</b></p> <p>NAIP, NEW DELHI</p> <p><b>CO- COURSE DIRECTORS</b></p> <p>Dr. T. K. Dutta</p> <p>Dr. Ravindra Kumar</p> <p>Dr. P. Tripathi</p>
	<p><b>CENTRAL INSTITUTE FOR RESEARCH ON GOATS</b></p> <p>Makhdoom, Farah-281122, Mathura (UP)</p>		

## BACKGROUND

In developing countries like India, livestock rearing and crop production is integrated. The product and by product of these production systems are utilized by each other. Feed alone accounts for 50-70% of total cost of production. The production capacity and efficiency of animal system can be enhanced by improved animal health, fertility, longevity and nutrition. Feeding strategies such as the use of total mixed rations (TMR), rumen bypass nutrients in ruminant livestock systems, and the use of phytase in monogastric animals have great potential for enhancing feed nutrient use efficiency. A number of other dietary approaches are available for enhancing nutrient use efficiency in animal food chains. In this background, Central Institute for Research on Goats is organizing fourteen days national training. The programme will highlight the various nutritional technologies that will help in enhancing the nutrient use efficiency in livestock production system. The training schedule will be covered through lectures and demonstrations. The knowledge and experience gained through this training will help the participants in formulating and conducting future research in the field of animal nutrition.

## OBJECTIVE

To provide latest knowledge to the participants related to advances in nutrient use efficiency in livestock production system

## COURSE CONTENT

- Importance of nutrients for livestock production
- Nutrient requirements for different livestock under different physiological stages
- Nutrient use efficiencies in different categories of livestock
- Use of probiotics and prebiotics for higher productivity in animals
- By-pass nutrients technology for higher ruminant productivity
- Micronutrients for animal production
- Methane mitigation strategies for higher nutrient use efficiency for towards production
- Anti nutritional factors affecting nutrient utilization and animal production
- Complete feed pelleting and block technology for higher animal productivity
- Feed and fodder conservation for commercial livestock farming
- Improved pasture and agro-forestry management for small and large ruminants production
- Nutritional intervention for improved productivity in livestock
- Biotechnological approaches for enhanced animal production

- GM feed for livestock production and safety aspects
- Feed and nutrient utilization for higher meat and milk production
- Nutrient parasite interaction under livestock feeding

#### RESOURCE PERSON(S)

- Dr. Michael Blummel, Global project leader, International Livestock Research Institute, ICRISAT, Patancheru, AP
- Dr. C.S. Prasad, Vice chancellor, MAFSU, Maharashtra

#### ELIGIBILITY AND QUALIFICATION OF THE PARTICIPANTS:

- o Masters degree in Animal Nutrition/Animal Sciences/Livestock Production Sciences/Animal Physiology and allied subjects
- o Rank of Assistant Professor (minimum)/Scientist from SAUs/ICAR Institutes

#### VENUE:

The training programme will be organized at central Institute for Research on Goats (CIRG), Makhdoom. The CIRG is located 22 km away from Mathura and 35 Km from Agra on National Highway No.2 (Delhi-Agra Highway)It is very well connected by bus service from Agra and Mathura up to Farah town. Agra and Mathura are also well connected to different parts of the country by number of trains.

#### DURATION

14 days (January 28- February 10, 2012)

#### NOMINATIONS

The application for participation may be sent in the format given in the brochure through proper channel. It must be duly forwarded by the Director/ Competent Authority of the Institute/ university.

NUMBER OF PARTICIPANTS : 16

Last date for receipt of nominations: 22 January, 2012

ADDRESS FOR CORRESPONDENCE:

Dr. U.B. Chaudhary

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**APPLICATION FORM FOR PARTICIPATION IN TRAINING COURSE**

1. Full Name : .....  
(in block letters)
2. Designation : .....
3. Present employer and address :  
.....  
.....
4. Correspondence Address .....  
(in block letters) .....  
(Give E-mail id, .....  
Phone/ mobile, .....  
Fax number) .....
5. Date of Birth : .....
6. Sex: Male/Female : .....
7. Teaching/ Research/ Professional experience (mention post held during last 5 years and number of publications) : .....
8. Mention if you have participated in any Training Course during the previous years under ICAR/ Other Organizations : .....
9. Academic Record :

Sr. No.	Degree	Subjects	Year of passing	Class	University/ Institution	Other Information
1.	<b>Bachelor</b>					
2.	<b>Master's</b>					
3.	<b>Doctoral</b>					
4.	<b>Other Diploma, Degree, if any</b>					

Date.....

Signature of the applicant

Place.....

**10. Recommendations of forwarding Institute:**

The application of Dr./Mr./Ms.....is hereby recommended for attending the national training on “ADVANCES IN NUTRIENT USE EFFICIENCY IN LIVESTOCK PRODUCTION SYSTEM” being organized by CIRG, Makhdoom from Jan 28-Feb10, 2012. It is certified that the information furnished by him/her has been verified and found correct .

Signature .....  
Designation .....  
Address .....  
Date .....