

## HOW TO APPLY

Application for participation in the model training course should be made in the prescribed format given below and forwarded by the competent authority of the sponsoring institute/Department and send to the Course Director. Application not forwarded by the competent authority shall not be considered. Advance copy of application may be sent. However, final selection will be made only after receipt of the original copy through proper channel. There is no course fee for joining the course. The last date for receiving applications / nominations is 16<sup>th</sup> November, 2015. The selected candidates will be intimated on or before 20<sup>th</sup> November, 2015 either by Fax / Speed post / E-mail / SMS, who in turn have to confirm their participation latest by 25<sup>th</sup> November, 2015.

A scanned copy of the duly filled in nomination / application form can also be sent in advance through e-mail to kadhirc@gmail.com or ann-vcri@tanuvas.org.in.

### ADDRESS FOR SENDING THE APPLICATION / NOMINATION FORMS

**Dr. C.KATHIRVELAN, Ph.D.,**  
Course Director – Model Training Course and  
Assistant Professor,  
Department of Animal Nutrition,  
Veterinary College and Research Institute,  
Namakkal – 637 002, Tamil Nadu.  
Phone : (04286) 266491 Ext 503  
Mobile : 09176217887.  
FAX : 04286 - 266484  
E. Mail : kadhirc@gmail.com /ann-vcri@tanuvas.org.in

### IMPORTANT DATES

Last date for receipt of application : 16.11.2015  
Intimation to selected candidates : 20.11.2015  
Confirmation from selected candidates : 25.11.2015



## APPLICATION FORM

Ministry of Agriculture, Directorate of Extension  
Government of India, New Delhi

### Sponsored Model Training Course

“Current Concepts and Recent Developments in  
Dairy Cattle Feeding and Fodder Production”

From 14.12.2015 to 21.12.2015 (8 days)

- Title of Course :
- Full name (in block letters) :
- Designation :
- Gender :
- Present employer and address :
- Complete Address for correspondence  
(Give email, Tel / fax / mobile No.) :
- Professional Qualification :

Date :

Place :

Signature of the applicant

### Recommendation of the forwarding Institute

The application of Dr/Mr/Ms \_\_\_\_\_ is hereby recommended for attending the course entitled “Current Concepts and Recent Developments in Dairy Cattle Feeding and Fodder Production” being organized by the Department of Animal Nutrition, Veterinary College and Research Institute, Namakkal from December 14-21, 2015 for a period of 8 days. It is further certified that the information furnished by him/her has been verified and found correct.

Signature of recommending authority with designation and seal:



Ministry of Agriculture, Directorate of Extension  
Government of India, New Delhi

### Sponsored Model Training Course

“Current Concepts and Recent Developments in  
Dairy Cattle Feeding and Fodder Production”

From 14.12.2015 to 21.12.2015 (8 days)



### Course Director

**Dr. C. Kathirvelan**

### Course Coordinators

**Dr. M.R. Purushothaman**

**Dr. P. Vasanthakumar**

*Organised by*

DEPARTMENT OF ANIMAL NUTRITION,  
VETERINARY COLLEGE AND RESEARCH INSTITUTE,  
NAMAKKAL - 637 002, TAMILNADU.

Ministry of Agriculture, Directorate of Extension  
Government of India, New Delhi

## Sponsored Model Training Course

“Current Concepts and Recent Developments in  
Dairy Cattle Feeding and Fodder Production”

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### INTRODUCTION

Our country is blessed with a huge resource of livestock wealth. India has the largest livestock population and ranks number one in milk production in the world. Since the cost of production mainly depends on the cost of feeding animals, any attempt to minimize the feed cost will pave way to maximize the profit. In this direction, judicious use of animal feed resources becomes inevitable under the current scenario of climate resilient livestock production system. Understanding the current concepts and updating the knowledge on latest developments in the field of Dairy Cattle Nutrition and Fodder Production highly essential for sustainable & economical livestock production. Many new feed resources have been explored and modern technologies for preservation / conservation of feeds and fodders have been developed recently. Hence, this training programme is aimed to enrich the knowledge and impart practical training to the participants in the area of Dairy Cattle Feeding and Fodder Production Technologies to augment milk production.

### ABOUT THE INSTITUTE

Veterinary College and Research Institute, Namakkal a constituent unit of India's first veterinary varsity, the Tamil Nadu Veterinary and Animal Sciences University that under take teaching, research and extension towards livestock development. Apart from teaching, this institute also involves in research activities to meet the growing demands of the farming community. This institute serves as a notable link in bridging the gap between the research and clientele system through organizing various extension activities. The problems in the feeding and management of Dairy farms are redressed by providing guidance through Department of Animal Nutrition, Animal Feed Analytical and Quality Assurance Laboratory and KVK.

The Namakkal zone has a tropical semi-arid type of climate with below normal rainfall. The weather is hot (30 – 35 C) with occasional rainfall during the month of November. More than 1000 entrepreneurs such as feed manufacturers, chicks and medicine marketing organizations, hatcheries, dairy and poultry farmers are engaged in this region.

### COURSE OBJECTIVE

The importance of animal feed in the production of livestock product has been well established. The quantity and quality of feed affect livestock productivity and economics of production. The present course is aimed to address the issues and current concepts and recent developments in dairy cattle feeding and fodder production.;

To improve the professional competence and upgrade the knowledge and develop technical skills of field functionaries of State Animal Husbandry Department in the area of Dairy cattle feeding and green fodder production; to facilitate interactions with researchers and teachers in dairy cattle feeding and fodder production and to provide opportunities for sharing and exchange of views in light of recent global advancements in the field dairy cattle feeding.

### COURSE CONTENT

#### Lectures

- ❖ Current concepts in dairy cattle feeding – Introduction
- ❖ Selection of raw materials for dairy feed manufacturing.
- ❖ Protected Nutrient Technology for Dairy Animals
- ❖ Nutritional Management of Transition period of cows
- ❖ Dairy feed safety and quality control
- ❖ Recent concepts in Nano minerals for dairy cows
- ❖ Novel Nutritional Technologies for Enhancing Dairy Animal Productivity
- ❖ Newer and Futuristic Feed resources – For dairy animals
- ❖ Green and tree fodders for dairy animals
- ❖ Precision Feeding for dairy animals
- ❖ Impact of Climate Change on the Productive Performance of Dairy Cattle and Strategies for its Mitigation
- ❖ Nutritional Interventions to Improve Productivity & Milk Composition in Dairy Animals
- ❖ Breeding strategies to augment milk production in dairy cows
- ❖ Nutritional approaches for enhancing the reproduction in dairy animals
- ❖ Supplementation of limiting nutrients in TANUVAS GRAND and TANUVAS SMART- A view
- ❖ Nutritional management of metabolic disorders in dairy cows
- ❖ Recent techniques in green fodder production and preservation
- ❖ Preparation of bank project report for commercial dairy farm
- ❖ Cost reduction strategies through fodder production for feeding of dairy animals.
- ❖ Role of Agro forestry in dairy cattle feeding
- ❖ Unconventional feed resources and its value addition.

#### Practicals

- ❖ Dairy Feed formulation techniques using computers/ least cost rations for dairy –Hands on training.
- ❖ Visit to automated dairy pellet feed processing unit
- ❖ Preparation of bypass proteins and protected fat – Hands on training
- ❖ Advanced multi -Mycotoxin analysis using HPTLC method- Hands on training

- ❖ Visit to organised dairy farm and interaction with progressive dairy farmers
- ❖ Fodder Seed Production – Visit to farmers field and local KVK.
- ❖ Recent concepts in fodder conservation – Bag silage making- Demonstration
- ❖ Azolla Cultivation - Demonstration
- ❖ Feed Quality Assurance and Recent Developments- Hands on training
- ❖ Detection of adulterants and contaminants, Spot / quick tests – Hands on training
- ❖ Clinical exposure on Dairy animal metabolic disorders- Visit to Teaching Veterinary Clinical Complex

### DURATION

From 14.12.2015 to 21.12.2015 (8 days)

### VENUE

Department of Animal Nutrition,  
Veterinary College and Research Institute,  
(Tamil Nadu Veterinary and Animal Sciences University)  
Namakkal – 637002, Tamil Nadu.

### ELIGIBILITY

Officials of Agriculture, Animal Husbandry & Veterinary and Allied Departments are eligible to apply. Officials from State Development Departments are also eligible to apply.

### BOARDING AND LODGING

Free boarding and lodging will be provided for the selected candidates and expenses will be met from Directorate of Extension, Ministry of Agriculture funds as per norms and operational guidelines for the model training course.

### TRAVEL

Participants will be paid to and fro fare for journey by train as per their entitlement classes of travel restricted to the maximum of AC-III tier or by bus as the case may be. The participants/trainees will be required to produce money receipt/original ticket/necessary certificates in support of their claim.

Namakkal is the industrial town of Tamil Nadu situated on the NH-7, 55 Km from Salem on the way to Madurai / Trichy. This place is very well connected with rail up to Salem (through Chennai / through Bangalore) from all over the country. The nearest airports are located at Trichy (85 km), Coimbatore (160 km), Bangalore (250 km) and Chennai (340 km).