



# राष्ट्रीय कृषि अनुसंधान प्रबंध अकादमी

राजेन्द्रनगर, हैदराबाद - 500 030, भारत

NATIONAL ACADEMY OF AGRICULTURAL RESEARCH MANAGEMENT

Rajendranagar, Hyderabad-500 030, INDIA

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डॉ. एस. एल. गोस्वामी, निदेशक

Dr S.L. GOSWAMI, Director

D.O. No. 1-46/2012/

December 4, 2012

Sub: Training Programme on "Survey Design and Data Analysis using SAS in Social Sciences" - January 28- February 6, 2013 , under NAIP - Inviting nominations - Reg

Dear Sir,

The National Academy of Agricultural Research Management (NAARM) was established by the Indian Council of Agricultural Research (ICAR), Ministry of Agriculture, Government of India, at Hyderabad, in 1976, for capacity building of National Agricultural Research System (NARS) scientists to address issues related to agricultural research and education management.

The Academy is proposed to organize a training programmes on "**Survey Design and Data Analysis using SAS in Social Sciences**" during the period January 28- February 6, 2013" under Strengthening Statistical Computing for NARS (SSCNARS) project of NAIP (National Agricultural Innovation Project). The present training program is designed to impart skills related to sample survey designing and data analysis to Social Scientists in NARS using SAS. SAS software, which has been purchased and made available to all Institutes under NARS. The details on the course content, schedule, and nomination forms are enclosed herewith. The nomination form can also be downloaded from NAARM website ([www.naarm.ernet.in](http://www.naarm.ernet.in)).

The TA to the participants would be reimbursed as per their entitlement by train, but restricted to the maximum of AC II tier fares, following NAIP guidelines. Free boarding and lodging arrangements for the participants will be made by NAARM.

I request you to kindly nominate faculty/scientists of your institute for this programme. The last date for receiving nomination is on or before January 2, 2013. I hope that with the exposure of the analytical procedures using SAS software, the trained scientists would be able to do their analysis and interpret their results more effectively and enable them to publish their work in reputed journals thereby increasing the scientific output of the institute.

Yours sincerely,

  
(S.L. GOSWAMI)

Encl :

1. Training programmes Brochure
2. Nomination form

## TA/DA, Board and Lodging

The traveling cost, boarding cost, etc. of the selected participants will be met out of the NAIP – SSCNARS Project grant from the Indian Council of Agricultural Research, New Delhi. All participants will be reimbursed to and fro travel fare for the journey to Hyderabad by rail or bus or other means of transport used, on production of certificate for travel by the shortest route. The payment will be made as per their entitlement of class of travel, but restricted to the maximum of AC II tier train fare. Participants are required to produce a Photostat copy of the rail/bus ticket (only by public transport) for reimbursing the travel expenditure. DA will be paid as per ICAR rules. Local participants will be provided lunch and inter session tea. Participants are requested not to bring any family members along with them. Participants should book their tickets after getting confirmation from the academy.

## How to apply

The nomination form enclosed here may be used for applying for the training programme. The same can also be downloaded from NAARM website. Applicants should fill the details and get it duly forwarded from their Head of organization.

The applications should be sent to “Officer In-charge, Training Cell, National Academy of Agricultural Research Management (NAARM), Rajendranagar, Hyderabad 500030”.

## Last Date for Receipt of Applications:

January 2, 2013.

## Further information can be obtained from:

A Dhandapani/N Sivaramane/PD Sreekanth

Course Directors  
NAARM, Rajendranagar,  
Hyderabad – 500 030.  
Fax: 040-24581452/24015912  
Tel: 040-24581339/309/353

## E-mail:

dhandapani@naarm.ernet.in/  
dhandapani.appavoo@gmail.com/  
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sreekanth@naarm.ernet.in/

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## National Agricultural Innovation Project



## Strengthening Statistical Computing for NARS (SSCNARS)

## Training Programme on Survey Design and Data Analysis in Social Sciences

January 28- February 6, 2013

## Course Directors

A Dhandapani  
N Sivaramane  
P D Sreekanth



National Academy of Agricultural  
Research Management  
Rajendranagar, Hyderabad  
(www.naarm.ernet.in)



## Background and Objectives

Understanding the social phenomena of different stakeholders of Agricultural Research in India on various issues is important for scientists working in Indian National Agricultural Research System (NARS). Many such studies are highly complex and diverse in nature involving collection, processing and analysis of huge data base. Further, with advancements in statistical procedures applied to social sciences and exponential rise in computing abilities, there is a felt need among researchers for understanding and employing appropriate advanced analytical tools to elicit meaningful information. The present training program is designed to impart skills related to sample survey designing and data analysis to Social Scientists in NARS.

## The specific objectives of the programme

1. To familiarize the participants with different types of research design and sample survey techniques used in social sciences
2. To acquire skills in SAS basics, creating tables, reports and graphs using SAS
3. To understand various statistical analysis useful for social scientists including statistical tests, correlation and Regression, etc. and

4. High-end, modern statistical tools used in Economics, Extension and related fields such as Generalized Linear Model, Hierarchical Models, Structural Equation Models etc.

The hands on practice would involve use of the SAS Programmes: Viz, SAS Foundation 9.3 and SAS Enterprise Guide 4.3.

## Core Content

- Research Design in Social Sciences
- Types of Measurements; Questionnaire /Interview schedule Preparation
- Overview of SAS and SAS EG.
- Sample surveys - selection of samples
- Tabulation, reports and Graphs; Extracting data from secondary sources (NSSO etc.)
- Basic Statistics, Tests of significance
- Correlation & Regression
- Logistic Regression
- Generalized Linear Model
- Hierarchical Models
- Univariate Time Series Models and Forecasting
- Co integration Analysis
- Cluster Analysis
- Exploratory and Confirmatory Factor Analysis

- Multi-Dimensional scaling & Path analysis
- Advanced Econometrics - Partial Least squares, Survey Regression, Structural Equation Models

## Eligibility

All Scientists/faculty from ICAR/SAUs/Zonal Project Directorates who are involved in social science related projects. Basic knowledge of computers is essential. Some knowledge of Statistical analysis is desirable.

## Pedagogy

- Class room teachings
- Hands-on-Trainings
- Exercises

## Duration

January 28 - February 6, 2013 (both days inclusive). Participants are expected to arrive latest by evening of January 27, 2013, and can leave after 1630 hrs on February 6, 2013

## Course fee

*There is no course fee*



## Nomination Form

<b>Name of the Programme</b>	:	<b>Survey Design and Data Analysis in Social Sciences</b>																	
<b>Dates (dd/mm/year):</b>		2	8	-	0	1	-	1	3	to	0	6	-	0	2	-	1	3	
<b>NAIP Consortia/ Project:</b> (if applicable)																			
<b>A. General Information</b>																			
1. Candidate's Name (in full)	:																		
2. Date of Birth (dd/mm/yy)	:							3. Gender (tick mark)	Male	Female									
4. Address for correspondence																			
Name:	:																		
Designation:	:																		
Institution Name	:																		
Address	:																		
Country	:							PIN / ZIP CODE											
Telephone # (Country Code-Area/STD Code-Phone #):		Office																	
Telephone # (Country Code-Area/STD Code-Phone #):		Home																	
Telephone #:		Mobile																	
Fax (Country Code-STD Code-Phone Number):																			
E-mail ID:																			
Alternate E-mail ID:																			
5. Educational Qualifications																			
(i) Highest degree obtained:																			
(ii) Discipline:																			
6. Professional Experience (years):						7. Experience in the programme area (years):													
<b>B. Programme Specific Information</b>																			
1. Source of information about the programme (Please check the appropriate answer using ✓ mark):																			
a) Personal contact			b) Own organization						c) Other organization										
d) Programme brochure / NAARM Website or Faculty								f) Others (specify)											
2. Relevance of the programme (Please check the appropriate answer using ✓ mark):																			
a) To present job						b) To my subject						c) To my organization							
d) To career advancement						e) Any other (please specify)													

3. Training undergone in the area of this training or related areas (List only 3 previous programmes attended anywhere including at NAARM)		
Programme title	Date(s)	Training organization
4. Proficiency in Computers and Informatics:		
Low	Medium	High
5. Programmes attended at NAARM in last three years:		
6. What are your expectations from this programme? (Please list at least three expectations in order of importance)		
a)		
b)		
c)		

**Candidate's signature with date:**

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**The candidate is being sponsored by the Institute / Organization for attending the programme.**

**Signature of the Head of the Sponsoring Institute / Organization with seal and date**

<b>C. FOR OFFICE USE ONLY</b>									
1. Nomination ID						2. Programme ID			
3. Nomination Status	Accepted					Not Accepted			
4. Receipt Number									Date
<b>Signature of the Course Director</b>									