

## Registration Form

### National Workshop on BHUVAN - Geoportal for Precision Farming

JANUARY 8 & 9, 2019

Name :  
(In BLOCK LETTERS)

Gender: Age:

Designation/Course:

Institute/Organization:

Address for communication:

Mobile:

E-mail:

Accommodation required: Yes / No

Details of Registration Fee:

Amount: DD No.:

Date:

Name of the Bank and Place:

Date: Signature:

## ORGANIZING COMMITTEE

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Prof. V. Murugesan  
Vice-Chancellor, Annamalai University

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Registrar (i/c), Annamalai University

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Dean, Faculty of Agriculture  
Annamalai University

**Convener**  
Dr. Arumugam Shakila  
Professor & Head, Department of Horticulture  
Faculty of Agriculture, Annamalai University

**Director**  
Dr. K. Sekar  
Professor, Department of Horticulture  
Faculty of Agriculture, Annamalai University

**Organizing Secretaries**  
Dr. S. Venkatesan  
Dr. R. Sudhagar  
Assistant Professor(s)  
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Faculty of Agriculture, Annamalai University

### Address for correspondence

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**ANNAMALAI UNIVERSITY**

(Accredited with 'A' Grade by NAAC)

**Faculty of Agriculture**  
**Department of Horticulture**

**DST- PURSE**  
Sponsored

**National Workshop on**  
**BHUVAN - GEOPORTAL FOR**  
**PRECISION FARMING**

**JANUARY 8 & 9, 2019**

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**Dr. K. Sekar**  
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## About the University

In the early 1920s Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi college, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. In 1928, Rajah Sir S. R. M. Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929).

One of the most significant developments is the enactment of the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013), which has come into force from September 25, 2013. Annamalai University is accredited with 'A' Grade by NAAC in 2014. "The NIRF-2018" by the Ministry of Human Resource Development (MHRD) has ranked the University in the band 101 - 150 in the overall category as well as the University Category. In the Pharmacy Category the ranking is 20<sup>th</sup> in India. In the Medical Category the ranking is 24<sup>th</sup>. "The Times Higher Education World University Ranking - 2019" has ranked Annamalai University in 1000+ for Overall category. "The CWTS Leiden Ranking 2018", on scientific impact of universities and on universities' involvement in scientific collaboration & scientific performance, has ranked the University at 20<sup>th</sup> based on the number of publications and 4<sup>th</sup> based on the proportion of publications that, compared with other publications in the same field and in the same year, belong to the top 10% most frequently cited. "The MDRA - India Today Ranking" (2018) has ranked Annamalai University 13<sup>th</sup> among the best Government Universities in India. Among the top 197 ranked institutions for Higher Education in India the "SCImago Institutional Ranking (2018)" has ranked Annamalai University as 7<sup>th</sup> in Tamil Nadu and 32<sup>nd</sup> in India.

Annamalai University is one of the largest unitary, teaching, and residential Universities in Southern Asia comprising of 10 Faculties and 49 departments of study. This University has played a pivotal role in providing access to higher education to thousands of youth cutting across the social spectrum, especially from economically and socially disadvantaged classes. In this respect, this University's service to the nation is tremendous.

## About the Faculty

The Faculty of Agriculture was started in the year 1958. Presently there are nine departments and one division. The grants obtained by the Faculty from UGC, DST, DBT, ICAR, NMPB, Ministry of Coal, Environment & Forests and Water Resources etc. and budgetary provision from the University have added to an excellent infrastructural setup that facilitate cutting edge research in Agriculture and Horticulture. Teaching, Research and Extension activities,

the three vital components, add significant value to the Faculty of Agriculture.

## About the Department

The Division of Horticulture came into existence as early as 1958 with an objective of offering horticultural subjects to B.Sc. (Ag.) graduates. Under the leadership of renowned Horticulturist of International repute, Dr. S. Krishnamoorthy, a pioneering post graduate course in Horticulture was introduced for the first time in South India in 1958-59. With further expansion, the erstwhile Division of Horticulture functioning from 1958-59 onwards was upgraded as a Department in 1991 with the revival of a full fledged post graduate programme - M.Sc. (Ag.) in Horticulture and later on it was renamed as M.Sc.(Hort.) in 2011. However, in tune with the guidelines of ICAR new regulations, specialized degrees viz., Fruit Science, Vegetable Science, Floriculture and Landscape Gardening and Plantation, Spices, Medicinal and Aromatic Crops were introduced from the year 2012 onwards. Many research projects funded by various agencies like NMPB, UGC, TNSCST and private companies have been carried out in the Department of Horticulture.

## Preamble

Precision farming becomes more and more an accepted way of crop production and helps to achieve a sustainable environmental friendly agriculture. Furthermore, growing interest in automated data acquisition and information processing is going to form another milestone towards improved farm management and an overall traceability in agricultural production. The benefit and effectiveness of using precision farming techniques is highly dependent on the capabilities of users.

Precision farming requires local capacities to understand the spatial and temporal variation in the crop ecology and to integrate the same in machine readable form for visualization, validation and decision making. New Geospatial technologies & tools, such as, GPS, GIS, remote sensing, social networking, mobile phones, crowd sourcing, etc. helps in decision making and monitoring of agricultural wealth and ecological health. This is also used in forecasting of market, price, insect attack, disease spread. Crowd sourcing is used to tag assets, collect temporal data and e-governance. Further, it is possible to have precise assessment of crop damage due to disease, natural disasters such as drought & flood etc.

Many web based services developed by National and International organizations are available in public domain. In India, National Remote Sensing Centre has developed a geoportal "BHUVAN" for the benefit of various stake holders.

Bhuvan, (lit: Earth), is a software application which allows users to explore a 2D/3D representation of the surface of the Earth. The browser is specifically tailored to view India, offering the highest resolution in this region and providing content in four local languages. Apart from visualization, Bhuvan provides timely disaster support services (domestic and international), free satellite data and rich thematic datasets.

This workshop is organized to increase the awareness on Bhuvan and build local capacities in utilization of web services. The training comprises of an overview of all the functionalities of Bhuvan like Visualization, Data download, Map services, Crowd sourcing, API and Applications carried out for Ministries & State Government departments and Disaster Support Services etc., including Hands-on exposure on Bhuvan portal, like Navigation, Collection and addition of data, Addition of layers, WMS, Using of thematic maps, Adding shapes, Measuring, Virtual field tour etc.

## Eligibility

Teaching Staff and Research Scholars of Agriculture/ Horticulture/ Agricultural Engineering/ Forestry from Colleges/ Universities with basic knowledge on computer may apply.

## Registration

All participants are requested to send the registration form to the Director. **Selected candidates alone to send the registration fee** through a demand draft in favour of "The Registrar, Annamalai University" payable at Annamalai Nagar or Chidambaram. Registration/ Selection of participants will be on first come first served basis for effective delivery of contents.

## Registration fee

Scientists/ Academia - Rs. 750/-  
PG Students / Research Scholars - Rs. 350/-

## Calendar of Events

Last date for registration - 30-11-2018  
Date of communication of selection letter - 06-12-2018

## Accommodation

Boarding and lodging facilities for outstation participants shall be arranged on request in the University campus at their expense.

This brochure can also be downloaded from  
[www.annamalaiuniversity.ac.in](http://www.annamalaiuniversity.ac.in)