

agMOOCs  
Introduction

T.N. Balasubramanian

Dear all. All I am Professor T.N. Balasubramanian retired from Tamil Nadu Agricultural University after serving for 38 years and six months. I was the Founder Head of the Department of Agricultural Meteorology at this University. Basically I am an agronomist and got trained in the field of Agriculture Meteorology both at the national and international level. I offered this course as an Instructor.  
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**Dr. R. Nagarajan**

And my co-faculty is Dr. R. Nagarajan.  
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## Course Details

Duration of the course: 08 weeks

Registration can be done on free of cost at::

<http://agmoocs.in>

Further contact to: [info@agmoocs.in](mailto:info@agmoocs.in)



powered by  
**mooKIT**

Then coming to the Course Details; the duration of the course is around eight weeks, and the registration can be done in the website which is given in this slide. And also email address is given to get further information. This course is sponsored by NPTEL and powered by Mookit.

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## Why this course is offered ?

- Agriculture in the world is always challenging to the farmers, since the majority of the crop cultivation is being done under open condition rather than under protected condition.
- This always carries crop production risks that ranges from 0 to 100 per cent and especially the risk is greater with floods and drought codes than normal weather code under climate variability scenario of monsoon dominant country
- Further it is anticipated that under climate change scenario, the risk would continue with greater magnitude.
- Among the many agronomical strategies suggested to reduce crop production risks , taking farming decisions based on anticipated weather/ weather forecast would offer greater opportunity to reduce crop production risks and hence this course is offered now timely.

Why this course is offered? There must be some reason. Number one is, agriculture in the world is always challenging to the farmers since the majority of their crop production or crop cultivation is being done under open field condition rather than protected condition. This always carries crop production risk from zero to 100 percent especially the risk is very greater with floods and droughts than normal weather situation. And this is very common

under climate variability scenario. Further this type of crop production risk is very very common in the monsoon dominant countries. Further it is anticipated that under climate change scenario the risk would be still higher. So we have to develop some strategy to reduce the crop production risk and based on the research conducted many agronomical strategies were suggested or have been suggested to reduce crop production risk and among them taking firm decisions based on anticipated weather forecasts would offer greater opportunity to reduce crop production risk under open condition hence this course is offered to you. Further you will be empowered with the knowledge from the field of agriculture metrology so that you can also contribute to the farming community.

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**Weather Forecast in Agriculture and Agro-advisory**

## **Who should attend the course ?**

- Students of SAU
- Faculty of SAU
- Agriculture Scientists
- NGOs working in Agriculture
- Farming Community(Farmers)
- Agricultural Produce Marketing Officials
- Agricultural Input Dealers
- Extension workers from SDA and Policy makers at the Government level

Then who should attend the course or who should be empowered. The students from State Agriculture University, the Faculty of State Agriculture University, Agriculture Scientists working ICAR Institutes, NGOs with Agriculture Scientists working for agriculture development in rural areas, farmers or farming community, then Agricultural Produce Marketing Officials, Agricultural Input Dealers, extension workers from State Department of Agriculture and policymakers from the government.

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## Weather Forecast in Agriculture and Agro-advisory

# Course Content

- Basic information on atmosphere, definition on weather and climate
- Crop-weather interaction for selected crops, weather sensitiveness of crops, their stages and farm operations
- Crop production risk types and different weather codes
- Definition on weather forecast and its types and their suitability to the preparation of agro advisories
- Development of agro advisories for different types of weather forecast
- Advisory supporting tools like traditional knowledge on weather forecast and thumb rules
- Mass communication mode for weather forecast and agro advisories to clients
- Case studies on the adoption of weather based agro-advisories in India and economical analysis through partial budgeting.

Now what would be the Course Content? So in this course the basic information on atmosphere and the climate and variability will be discussed, followed by discussion on crop-weather interaction for selected crops. And we like to provide is the important types of weather forecasts and their suitability for the preparation of a agro advisories. The development of a agro advisories based on our weather forecast is a skill, so practical exercise also given in this approach.

Then advisory supporting tools like indigenous traditional knowledge and thumb rules will be also discussed in this course. And how to communicate to the farmers through mass media that will be also discussed, along with that case studies and the economical tools will be employed to identify the benefits that accrue from the agro advisory will be also accommodated in this course.

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Weather Forecast in Agriculture and Agro-advisory  
**Certificate**

- agMOOCs are offered under the umbrella of NPTEL. Participation certificate and Competency certificate will be given to qualifying students based on their involvement and performance

**Be Weather wise-Other wise-Not wise**

Then based on your performance it is likely to give two certificates, the agMOOC offer participation certificate. This is under the umbrella of NPTEL, participation certificate and competency certificate based on the performance at the end of the course. So here the total involvement to the participants would be “be Weather wise-Other wise-Not wise. Thank you very much.