

## How we helped drive capacity on Remote Sensing using an outreach program, Pan-India



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### Synopsis:

Remote sensing is a key requirement for any large developing country. It is essential for planning and monitoring of diverse agenda, including, roadways, waterways, agriculture, telecom, power, and many more, in an integrated manner. Indian Institute of Remote Sensing (IIRS), part of ISRO, is the leading institution in India for capacity building in remote sensing. IIRS wanted to deploy an outreach program in 2012 to certify youth in remote sensing and build a talent pool for deployment across India.

We built an eLearning platform on Moodle, a popular open-source Learning Management System Framework. Animations, both 2D and 3D, were created in the 100-hour long course along with lab work that was deployed on the learner's machine itself. Importantly, to increase its reach and acceptance, it was translated and offered also in Hindi. This



## The Situation:

IIRS wanted to develop large-scale and widespread talent across India in the area of Remote Sensing, to help the country manage its growth systematically. For easy off-take of the course, it was designed as an outreach program for youth to acquire a relevant certification.

Open-source Learning Management Systems (LMS) were in the nascent stage and quality internet penetration was still poor in 2012. Hence, the solution had to be light and at the same time impactful enough for remote students to engage with and learn. Additionally, the content had to be structured in a way that it would be easy for future translation to Indian languages.



## The Solution:

We were chosen to develop a web-based learning management system and e-learning for its outreach certificate programs. We developed a Web-Based Learning Management System using Open Source (Moodle) platform and e-learning content. This had to be translated into Hindi.

We also developed over 100 hours of e-learning content at level II interactivity in English & Hindi. 2D animations (Level-3), and 3D animations (Level-1, 2, 3) were used extensively to ensure that learning happened. Video demonstrations, practical sessions, and assessments were deployed to deliver actionable knowledge. Besides hosting the LMS, we also provided assistance in implementation and maintenance.



## The Impact:

e-learning courses of over 100 hours were developed and deployed. The Hindi version is reaching out to more people, who are comfortable learning in their native language. The courses are running successfully and IIRS has also bagged the **“National Award for Excellence in Training for the Year 2015”** with First Prize for Innovative Initiatives by the Department of Personnel and Training (DoPT), Government of India.

### Learning Content

[Gamification](#)

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[Story Based Learning](#)

[Branching Simulations](#)

### Learning Delivery

[Microlearning](#)

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[Localization](#)

[Immersive Learning](#)

### Learning Tech

[Learning Management System \(LMS\)](#)

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