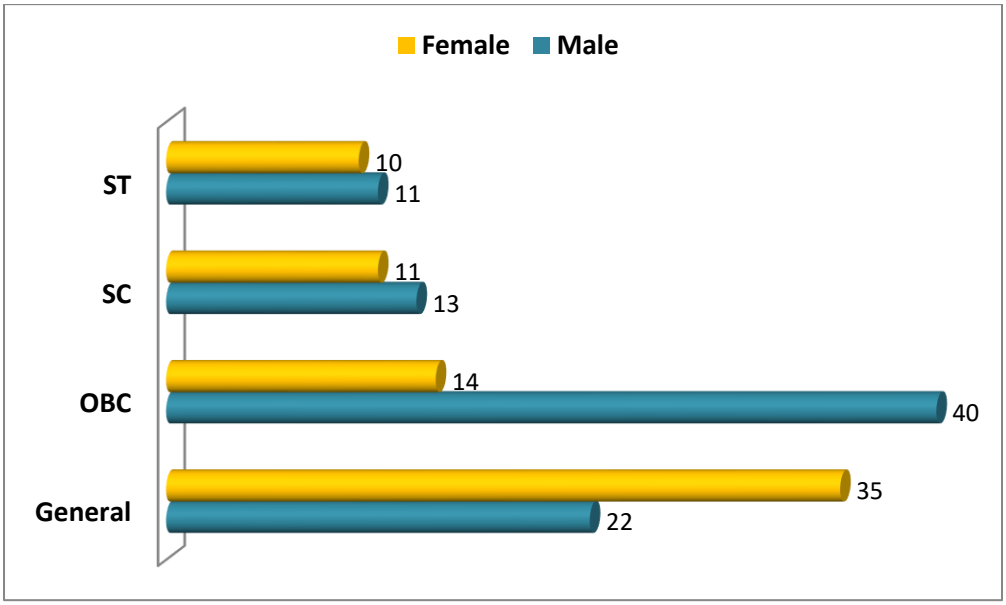
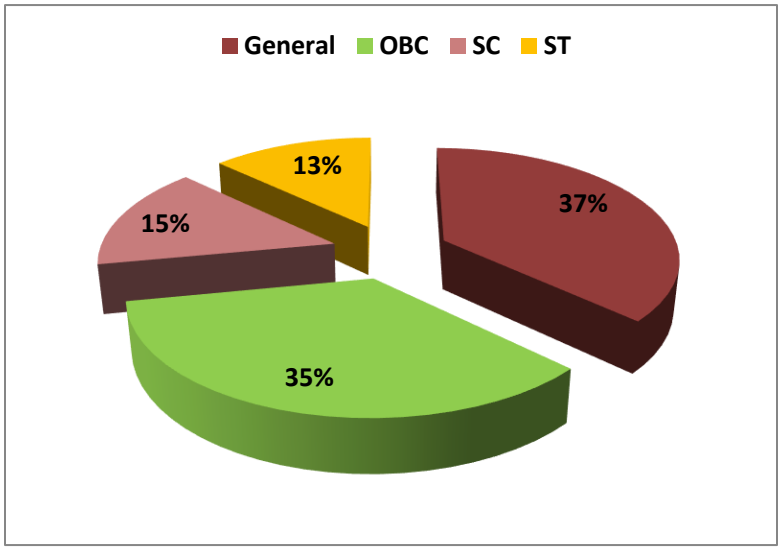
Awareness program on RS & GIS	
Target Students Group	B.Sc. (Agri./Agri. Engg.)
Date of Workshop	January 28, 2021
Time	11.00a.m. – 12.00 p.m.
Location	CAE, JNKVV, JABALPUR
1. Objective	
Awareness program on RS & GIS for UG Students.	
2. Participants	
Technical staff- Dr. R.N. Shrivastava, Dr. R.K. Nema, Dean, Dr. Dr. M.K. Awasthi, Dr. S.K. Sharma, Dr. Sourabh Nema, Dr. Minakshi Meshram, Anjali Patel, Rachit Nema, Krishna Singh, Sumit Kakade, Om Prakash Prajapati.	
3. Content of Events	
Welcome	A warm welcome to by Dr. Sourabh Nema, illustrated about aim of Program, Dr. R.N. Shrivastava coordinated the programme.
Programme Summary- Application of Remote Sensing and GIS in Agriculture	presentation of Remote sensing process, Details about EMR Spectrum, Satellites, Sensors and space programs, About GPS, Brief about GIS and its functionalities, Image interpretations, Applied RS and GIS application in field of Agriculture, Opportunities in the field of RS and GIS.
Guidance from PI	Dean Faculty, college of Agricultural Engineering Dr. R.K. Nema has also addressed students and gave insight of agriculture Education and opportunity also assure student to provide all help from institute side if needed.
Discussion with participants	Summed – up by Dr. R.N. Shrivastava, and appreciated to the students who tried to understand about remote sensing and GIS. Listening to any prominent personality in Awareness programme helps the student to gain information. Overall it was totally enjoyed and learned a lot in a comfortable environment. Certificates were distributed to the participants for successfully completing the programme.
Output of programme	One hundred fifty six participants registered for the awareness programme on Remote Sensing & GIS and out of these eighty one students have attended on training on the subject. Out of the 156 students, total male participants were 82 and female participants were 70 and percentage of participants in different categories were UR- 37%, SC- 15%, ST- 13% and OBC- 35%. As per feedback received from participants, 84% respondent found RS & GIS session excellent

Statistical distribution of participants

Awareness program on Application of RS & GIS									
Number of Participants					**% of participants in diff. category**				
Category	UR	OBC	SC	ST	Total	UR	OBC	SC	ST
Male	22	40	13	11	86	26	46	15	13
Female	35	14	11	10	70	50	20	16	14
Total	**57**	**54**	**24**	**21**	**156**	**37**	**35**	**15**	**13**

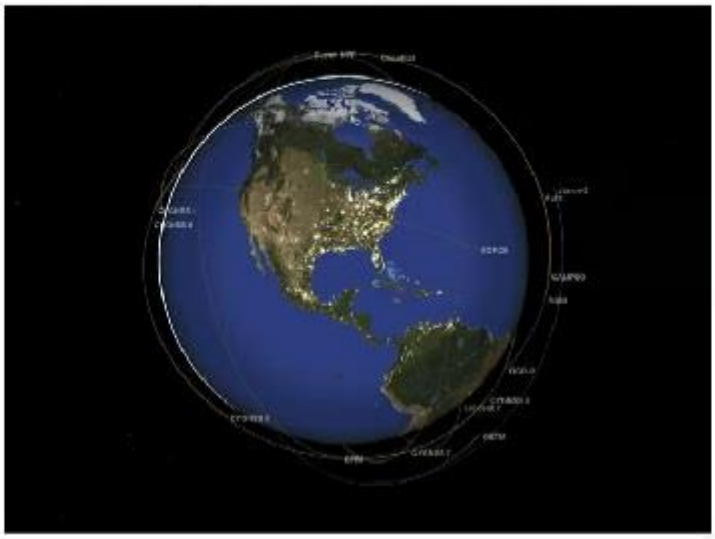
Training Attendance- 81

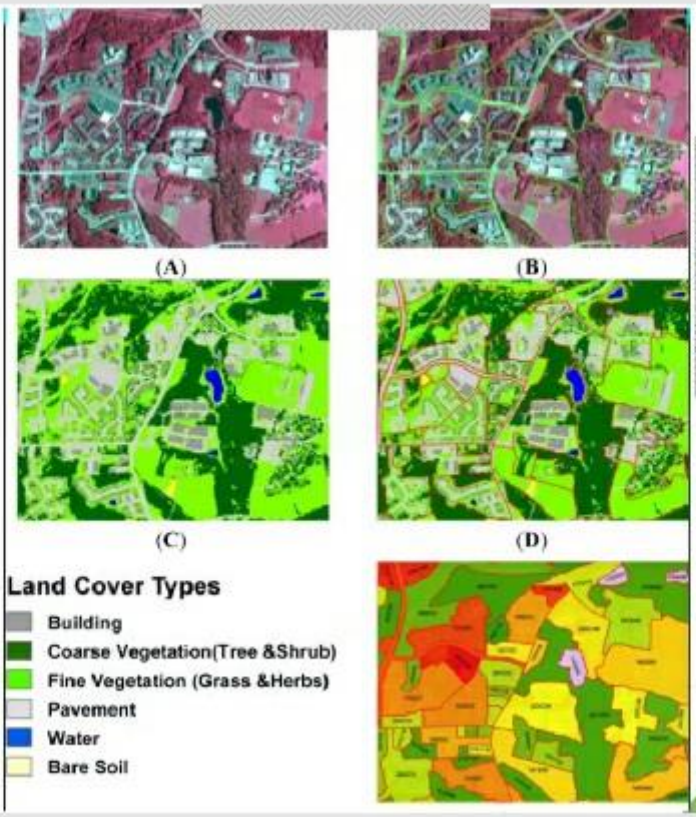




What is a Satellite?

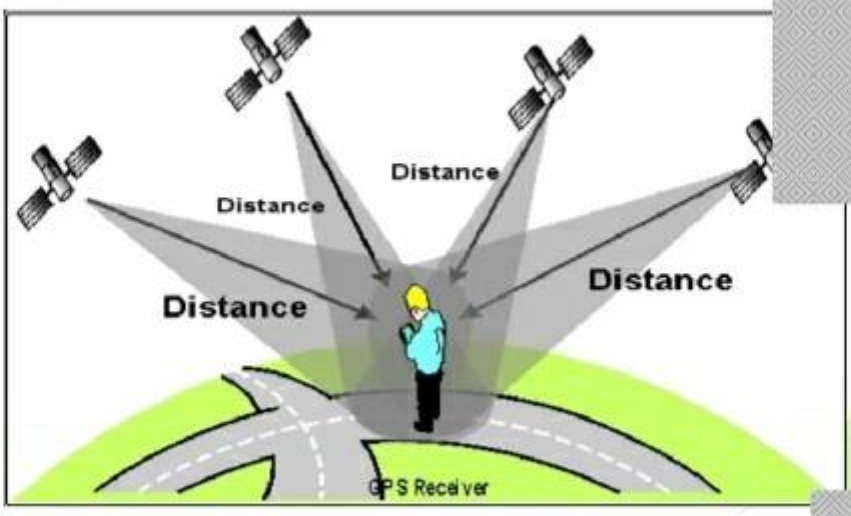
The satellite is an artificial object which has been deliberately put into space for different purposes like remote sensing, weather forecasting, image mapping, education, communication and research.





GPS : Global Positioning System

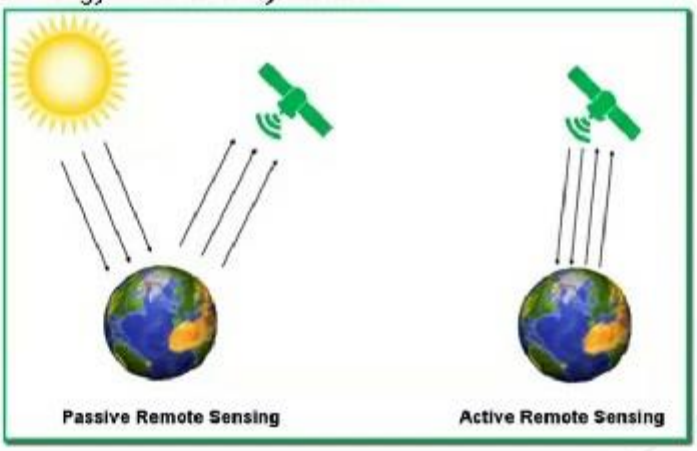
Functionality :



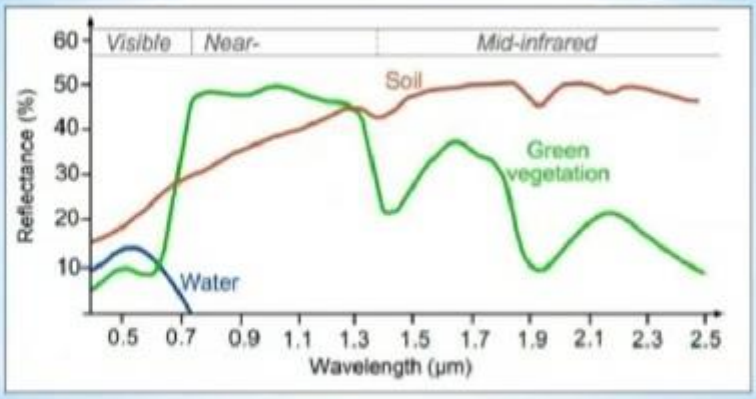
Remote sensing Sensors

1. Active : active sensors emit their own radiation, which interacts with the target to be investigated and returns to the measuring instrument. Ex. Radar

2. Passive : when the reflection of sunlight is detected by the sensor. P sensing sensors record incident radiation reflected or emitted from Natural Sun's energy recorded by sensor.



Spectral imaging can allow extraction of additional information the human eye fails to capture with its visible receptors for red, green and blue.



Typical spectral reflectance curves for vegetation, soil and water