Integration of ICT in Teaching-Learning Process

SUBJECT-SPECIFIC TOOLS SOCIAL SCIENCES BHUVAN

Dr. Nidhi Singh CIET-NCERT New Delhi

Introduction

What?

Why?

Whom?

How?

WHAT?

- Purpose
- Theme/Topic to be covered
- Conceptualisation

WHY?

- Need/purpose
- Advantage over traditional way of teaching-learning

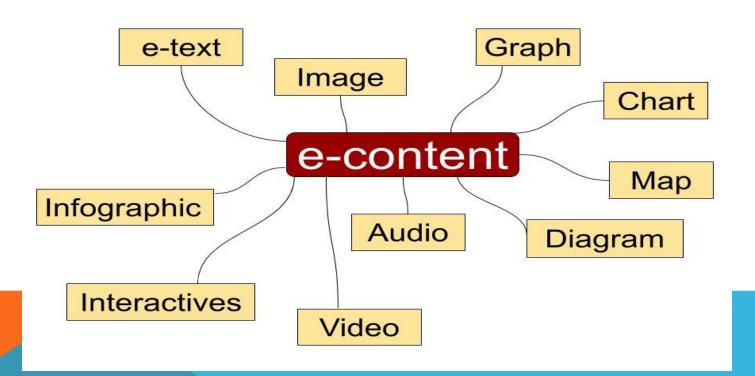
WHOM?

- Target group
- Target area/subject

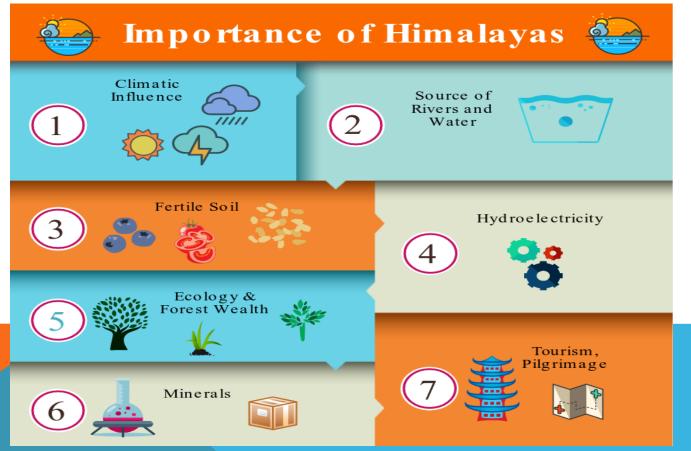
HOW?

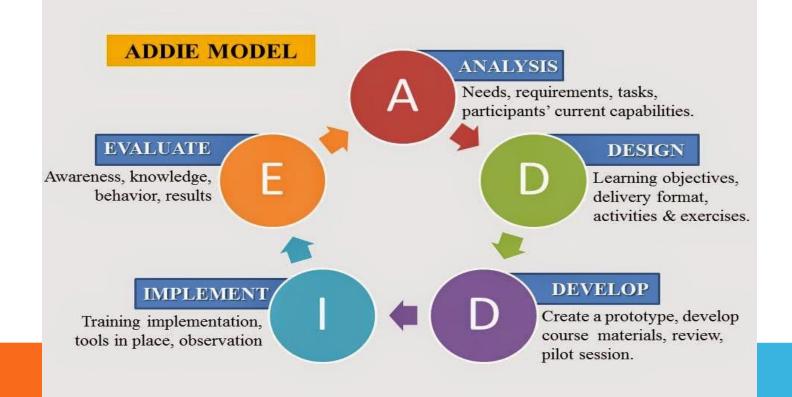
- Type of resources/e-content
- Tools used

Types of e-content



Type of e-content





Bhuvan

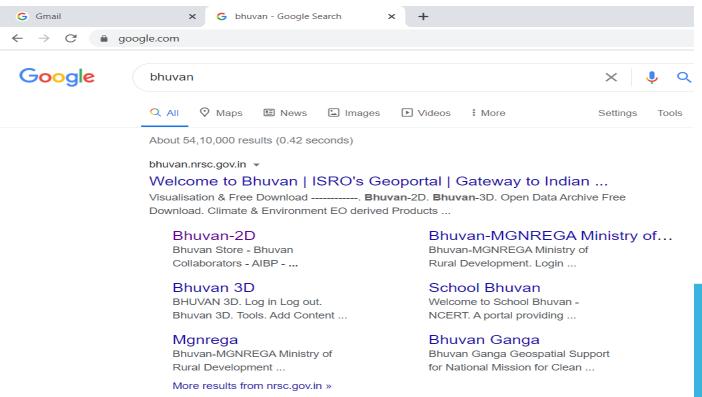


- Indigenously developed
- One stop for various Social Sc. subjects (& Sciences)
- Covers large no. of topics
- Easy to use
- Free to use
- No copyright issue
- Customizable

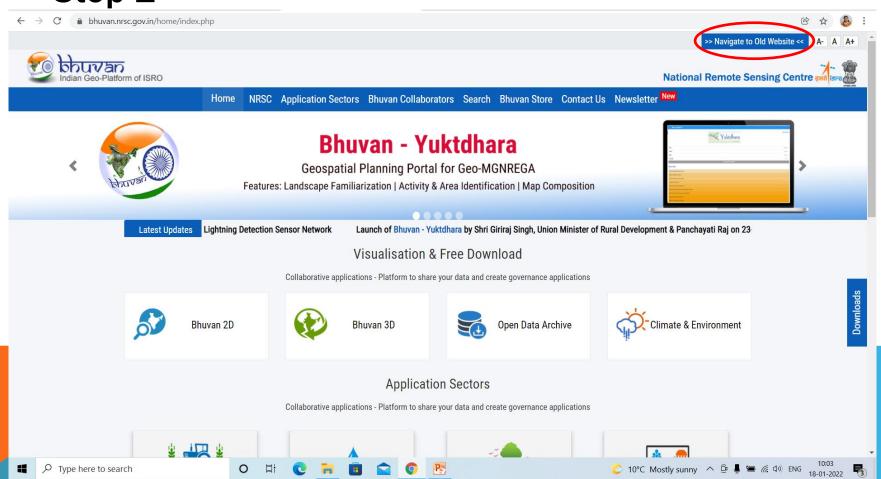
(https://bhuvan.nrsc.gov.in/bhuvan_links.php)

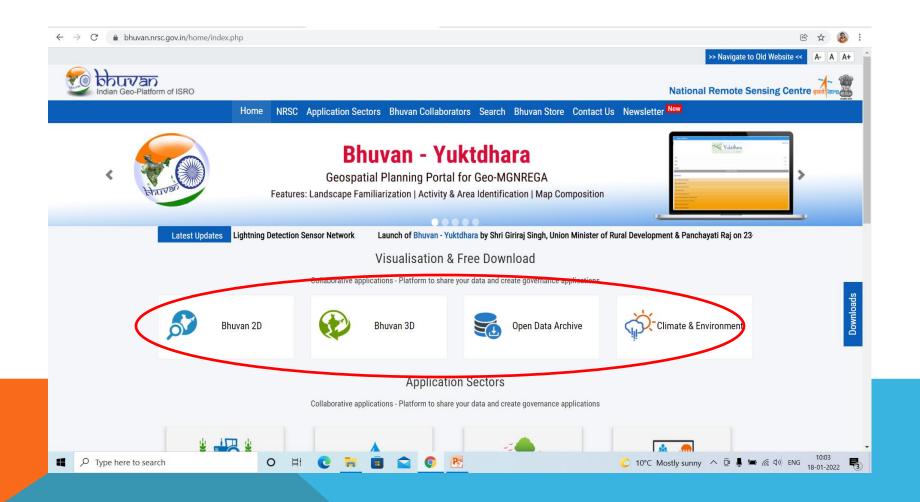
Bhuvan

Step-1

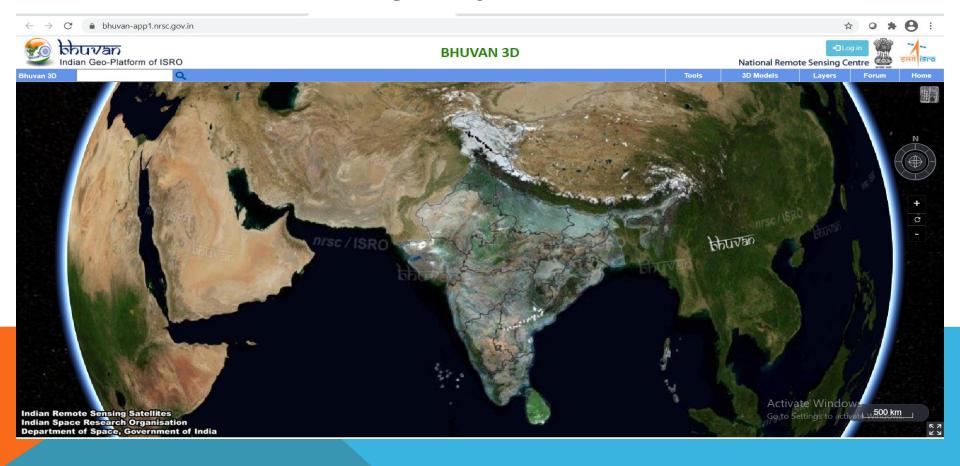


Step 2

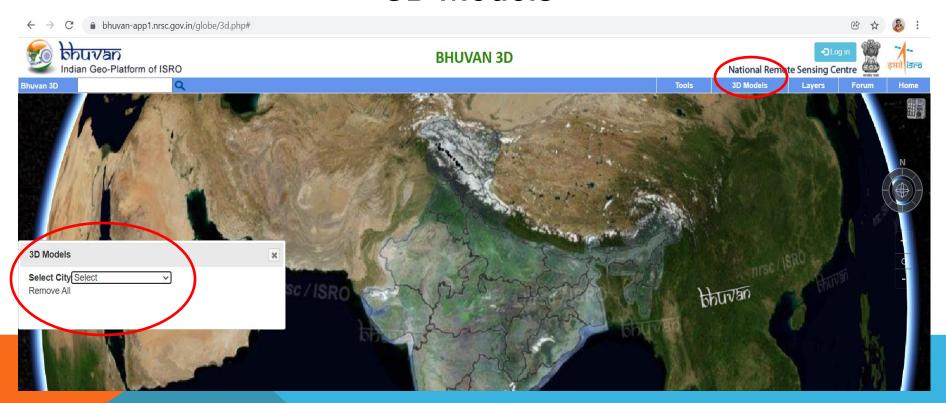


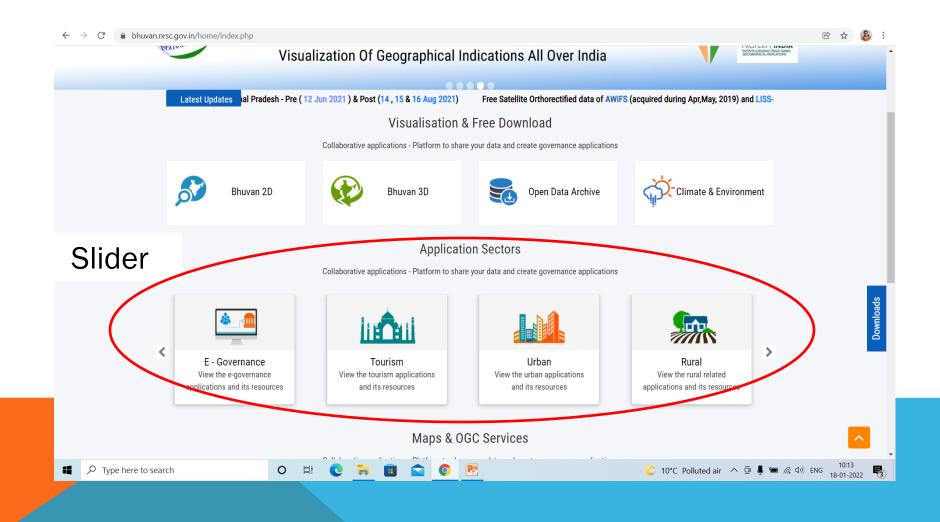


3D View

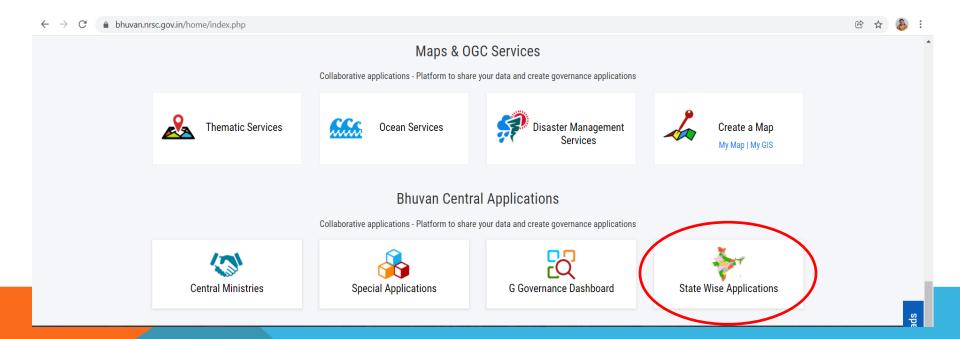


3D Models

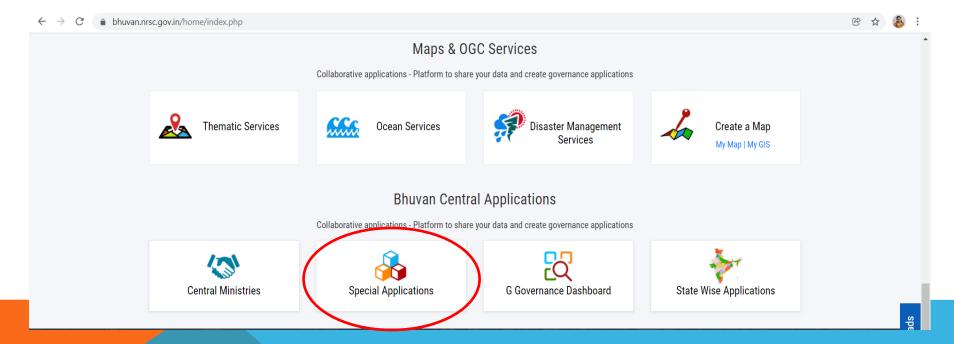




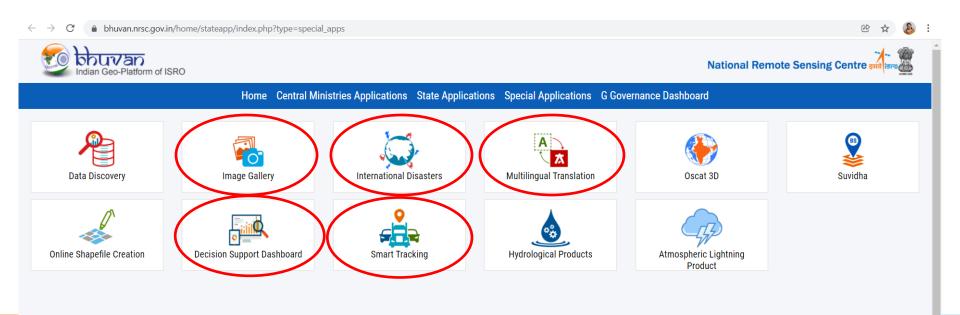
State portal



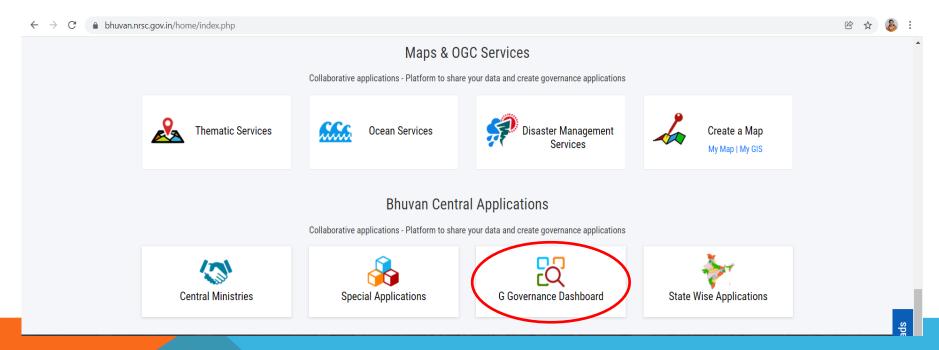
Applications



Applications contd....

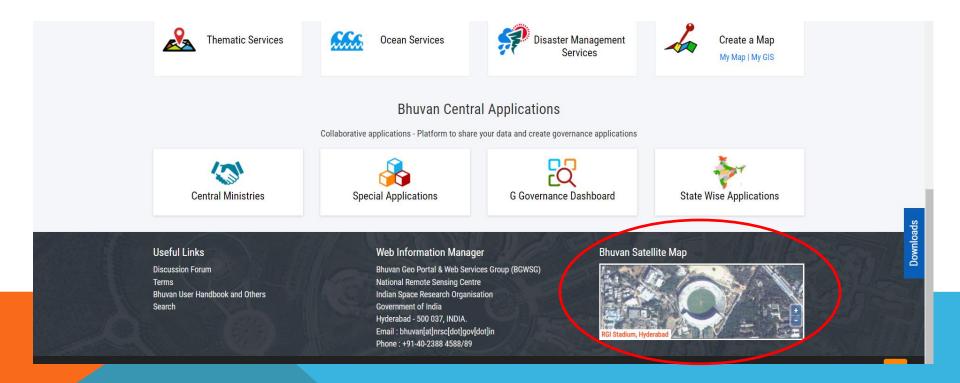


Applications

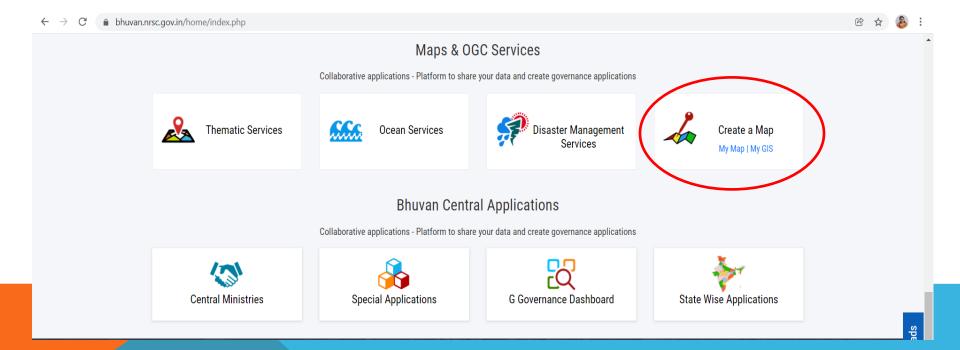


Schemes/Programmes

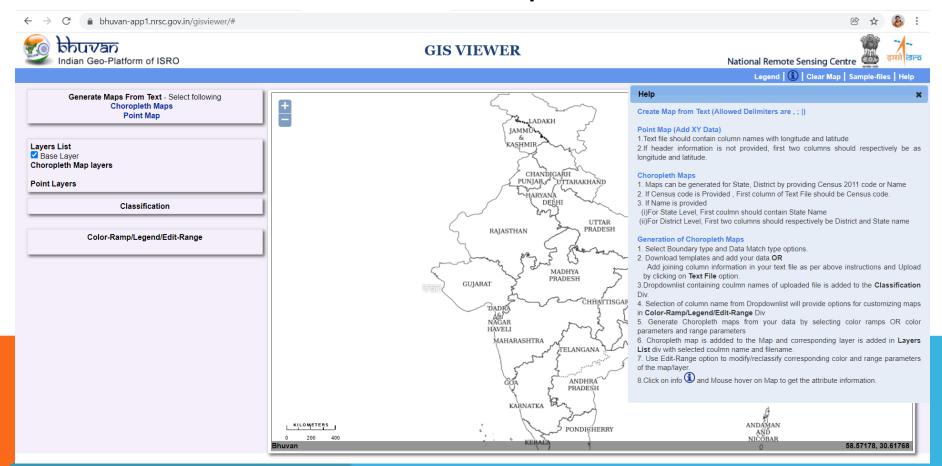
Satellite map



Create map



Create map



SCHOOL BHUVAN

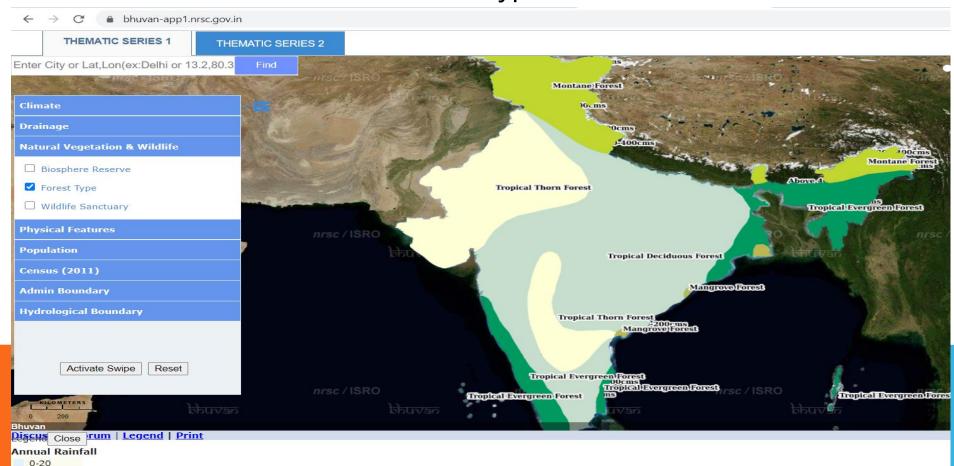


Annual Rainfall



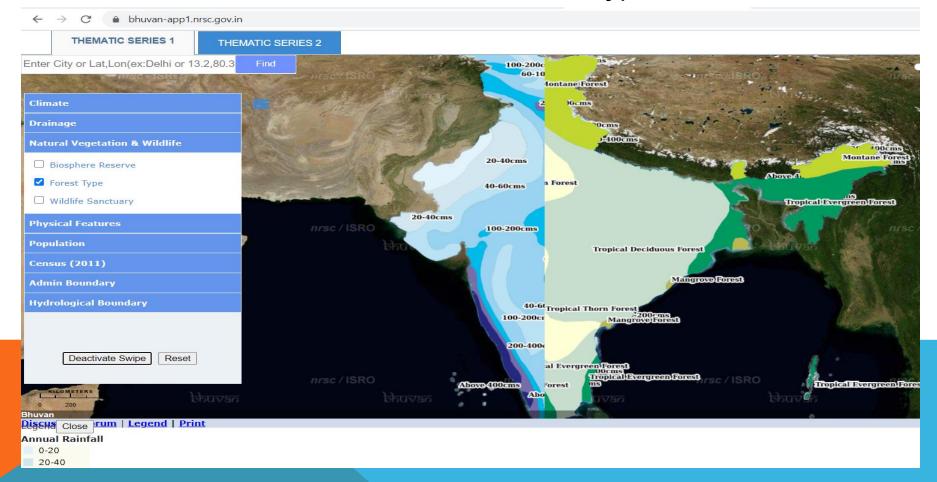
20-40

Forest Type



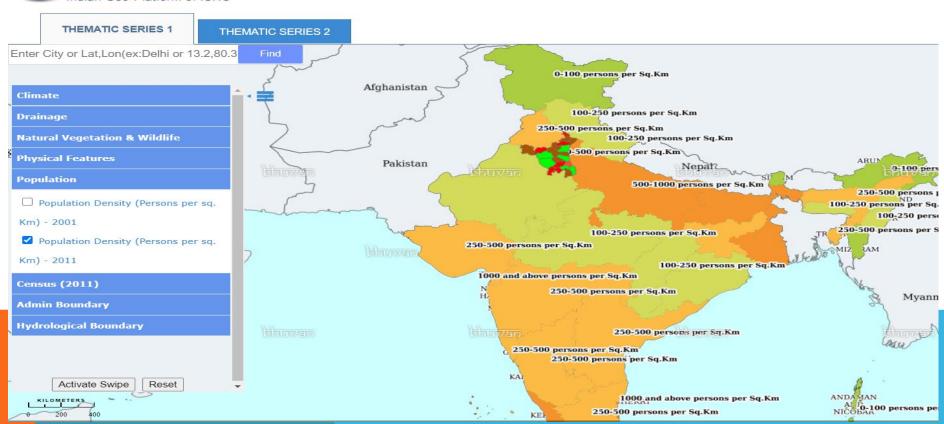
20-40

Annual Rainfall & Forest type





School Bhuvan



OTHER SOCIAL SCIENCE TOOLS

- windy.com
- Marble KDE
- stellarium.org
- Google earth
- Other generic tools

Suggested references

NCERT Official YouTube Channel (Playlist → Webinar ICT tools)

- Bhuvan (English):
 https://www.youtube.com/watch?v=WOUhdHvstHo&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=540
- Bhuvan (Hindi): https://www.youtube.com/watch?v=ydgdp_vgLIY&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=150
- Marble (English):
 https://www.youtube.com/watch?v=1iFTkLRIhRQ&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=536&t=714s
- Marble (Hindi): https://www.youtube.com/watch?v=VDEzx1Z__rc&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=316
- Google Earth (English): https://www.youtube.com/watch?v=ioAEesB6XZ8&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=534
- Google Earth (Hindi): <u>https://www.youtube.com/watch?v=yEyziMQEf_w&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=218</u>
- QGIS (English): https://www.youtube.com/watch?v=pr9Jm_Cbtiw&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=538
- QGIS (Hindi): https://www.youtube.com/watch?v=UA4BWUMfLQc&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=257
- NAVIC: https://www.youtube.com/watch?v=ZHWuoJTCKHE&list=PLUgLcpnv1YiflIGMIrcqddoB0vRwGgJ0i&index=101

Suggested readings

- NCF 2005 Position papers- Teaching of Social Sciences (https://ncert.nic.in/pdf/focus-group/social_sciencel.pdf)
- NCF 2005 Position papers- Educational Technology (https://ncert.nic.in/pdf/focus-group/educational_technology.pdf)
- Strategies to regulate content development and interactivity in the classroom, Isabel Gómez Alemany and Teresa Mauri Majós, European Journal of Psychology of Education, Vol. 15, No. 2 (JUNE 2000), pp. 157-171 (15 pages), Published By: Springer
- Information and Communication Technology (ICT): Its Origin in India and Pedagogical Integration in the Study of Geography, Nidhi Singh (https://imanagerpublications.com/index.php/article/15975) DOI: https://doi.org/10.26634/jet.16.1.15975

Thank you