

***Impact of Broadband Services on
Social development : Indian
Implementation perspective***

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The progress of the society...

- Agriculture
- Industrial revolution
- Telecommunication
- Computers / Information Super Highway
- Convergence

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India vision 2020

“Simultaneous efforts are needed to strengthen the rural infrastructure relating to education, health care, transport, telecom.....”

“One promising alternative approach is to link clusters of villages together by high speed circular highways, thereby bringing 100,000 or more people into a circular community that can be crossed within minutes, and promoting a balanced and distributed development of urban services along the periphery”


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Vision 2020

- + “ Rapid flow of information is a catalyst for social development”.*
- + Vision 2020 conceives of India evolving into an information society and knowledge economy.*
- + Information and communication technology (ICT) is perceived as a major tool for this purpose.*
- + Telecommunications is the springboard for ICT.*


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Educational Challenges

- Each country continues to struggle with issues of Primary Education, Secondary Education, Higher Education, Vocational Education etc
- Primary concern being children out of school, illiterate youths and adults.
- Inequities in educational opportunities, quality of educational services and level of achievement persist by gender, rural/ urban locality, ethnic background and socio-economic status
- Means and scope of education continue to be narrow and confined to historical models of delivery, and the **use of other channels continue to be ad hoc and marginal.**
- *The increase in quantitative and qualitative demand for education is not matched by an increase in resources.*

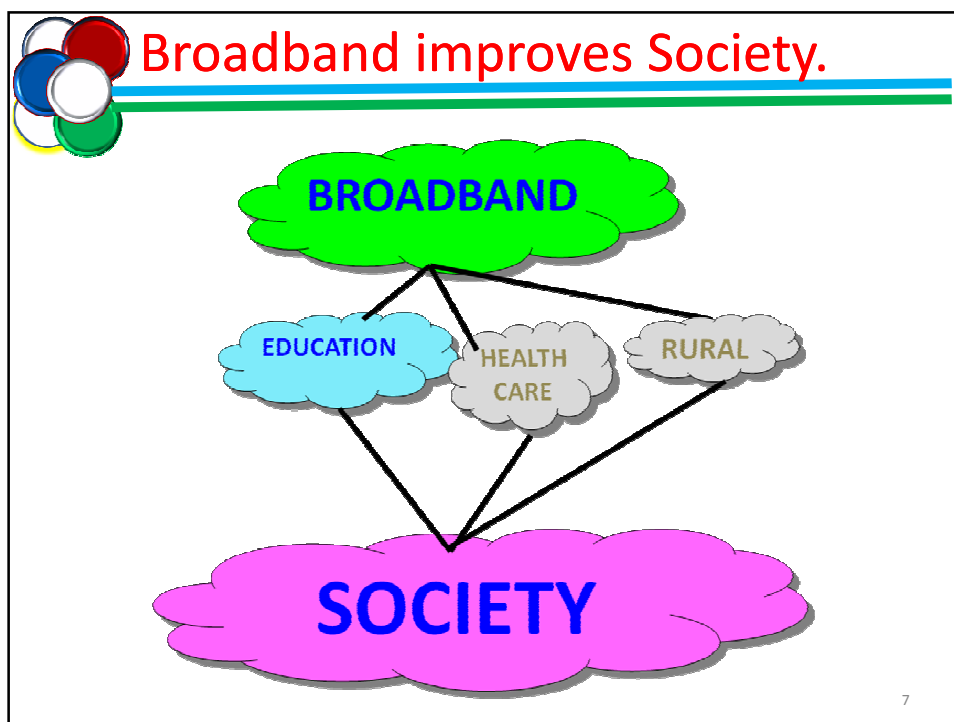
5



Present education infrastructure in rural areas

- Limited Number of Schools in the surrounding villages
- One teacher school
- Lack of access to facilities and effective education tools
- Access to information
- Interaction with rest of the world
- Education through Mother tongue


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Broadband


What is Broadband ?

An 'always-on' data connection that has the capability of the minimum download speed of 256 kilo bits per second (kbps) to an individual subscriber from the Point Of Presence (POP) of the service provider



Focus in rural areas


- ❖ **Broadband coverage for all secondary and higher secondary schools**
- ❖ **Broadband coverage of all public health care centers**
- ❖ **Broadband coverage for all Village**
- ❖ **Tele-Education**
- ❖ **About 150,000 Higher Secondary schools in the country**
- ❖ **About 70% in rural areas**
- ❖ **Broadband planned for all these schools on priority**
- ❖ **Will be used for interactive distance learning**
- ❖ **Infrastructure by service providers & USOF**
- ❖ **Cost of CPEs and rentals to be borne by schools**



How broadband can assist education

- ❖ **Reduces time, distance and cost**
- ❖ **Can have Nationwide/ statewide/ District-wide network covering and integrating all schools.**
- ❖ **Knowledgebase Development**
- ❖ **Provides connectivity to any network seamlessly**
- ❖ **It is flexible**

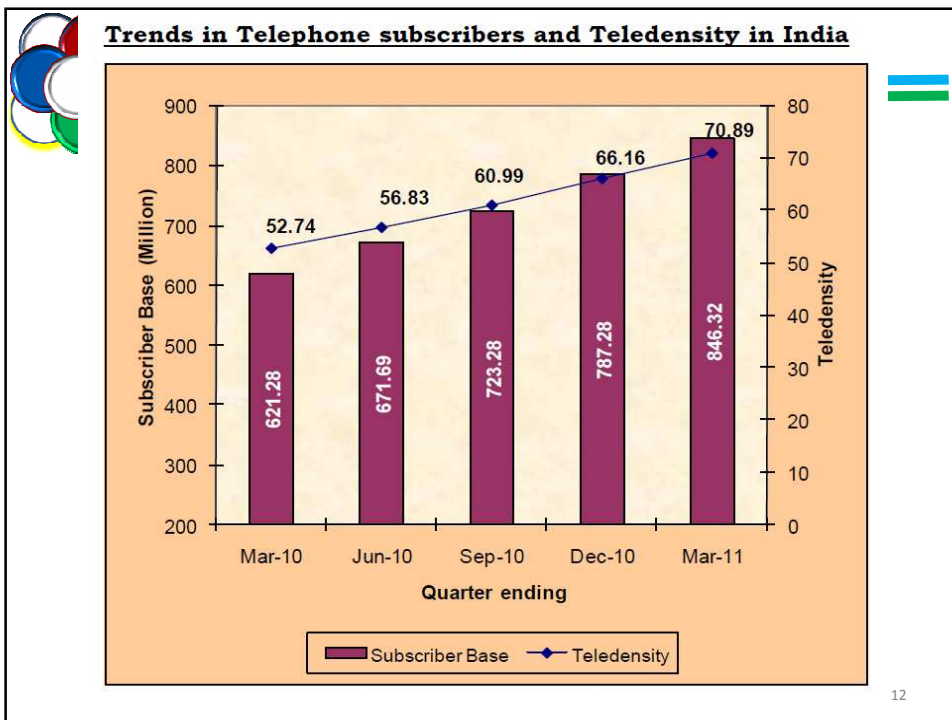
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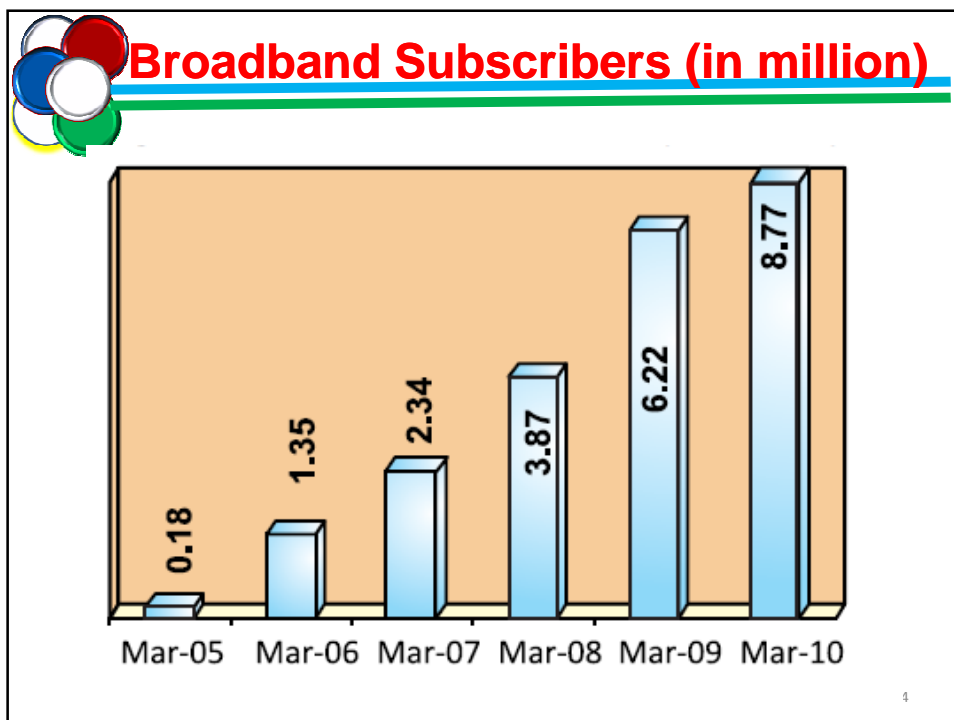
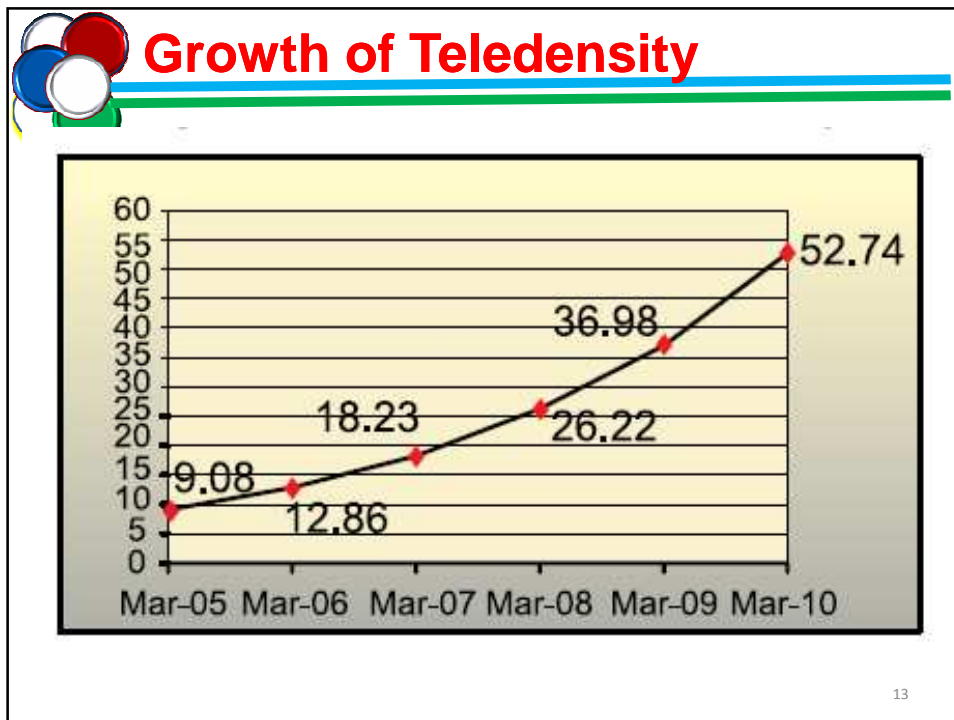


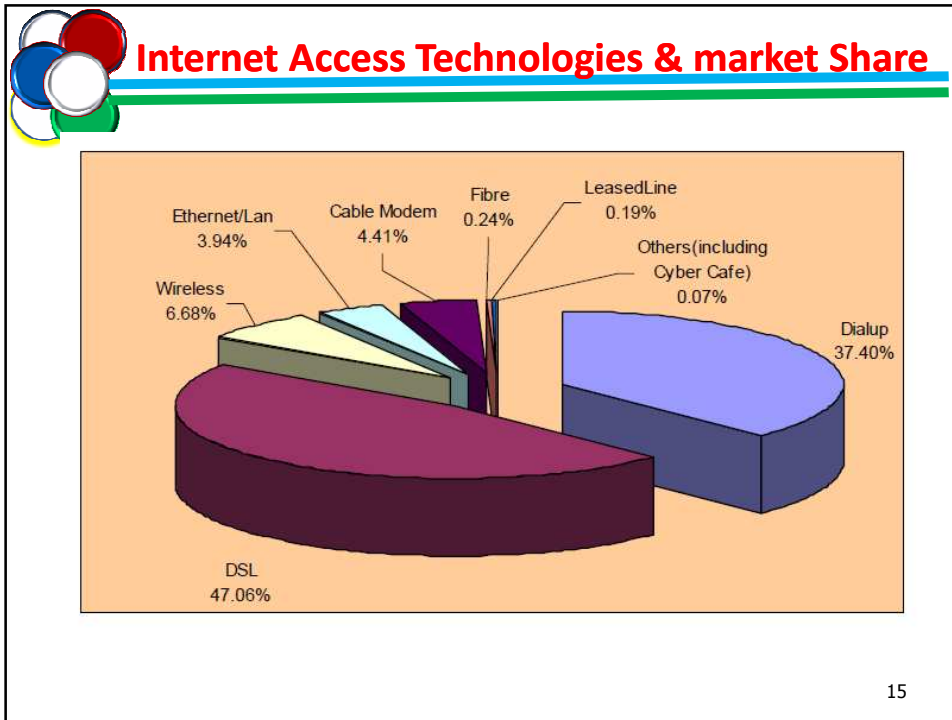
Applications of Broadband

- ❖ IP TV
- ❖ Video conferencing
- ❖ WWW
- ❖ Distance Learning
- ❖ Virtual class rooms
- ❖ Fast Internet access
- ❖ Multi-Play or Triple Play
- ❖ *Sky is the limit*

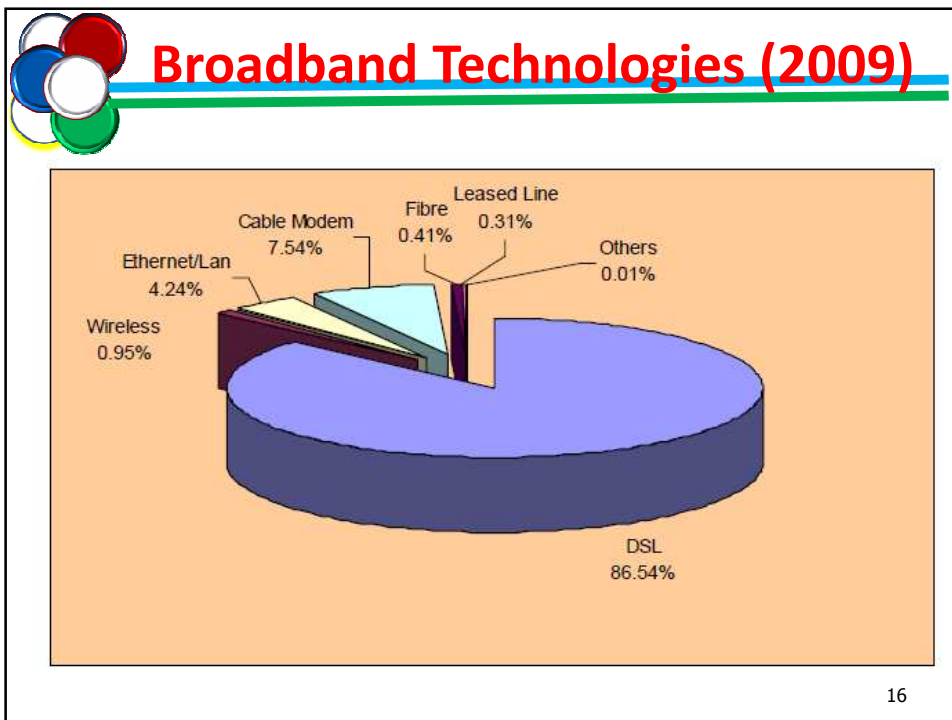
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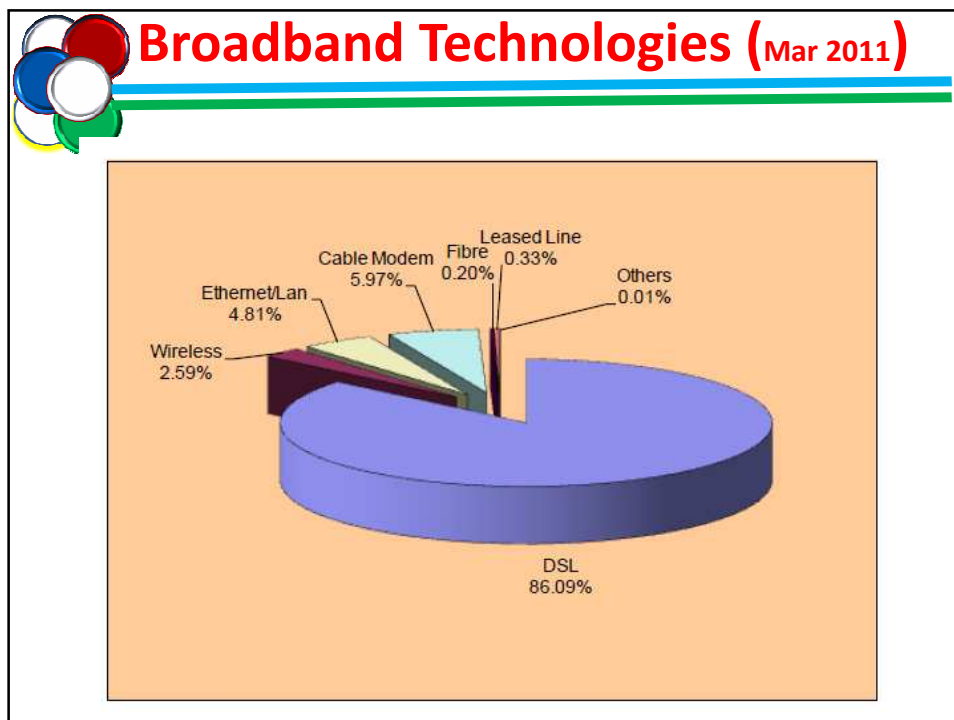




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Broadband Penetration

- Across various states...
- Developed States show a sign of more broadband connections.
- North Eastern States show a sign of less broadband connections.


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Case Study

- National Mission for Education
- Various applications of Broadband
- Lyceum of M/s. Pacsoft solutions
<http://www.my-lyceum.net/MyLyceum/Home.aspx>
- e-gov projects of various state governments
- SWANs State Wide Area Networks of various States.

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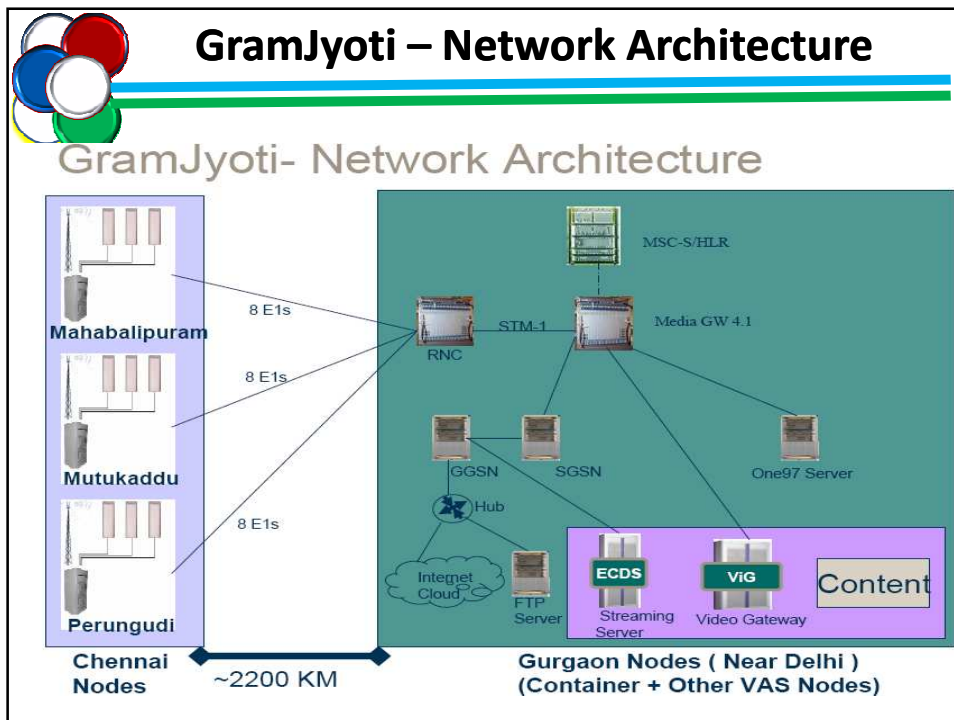
National Mission for Education

- Project initiated by Ministry of HRD
- To be executed by Ministry of HRD, Department of Education and Department of Telecommunications, Ministry of Communications & IT.
- To connect the National Knowledge Network to all the colleges and Universities in phases.
- To cover all Educational Institutions.

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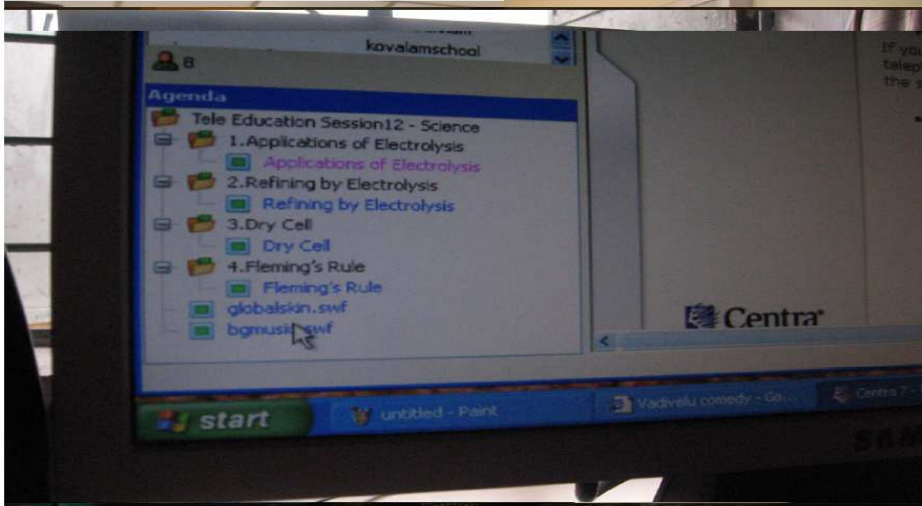
STATUS AS ON 15/09/2011

UNIVERSITY CONNECTIVITY			
Total	Connected	Configured	Connected + Configured
400	365	06	371
COLLEGE CONNECTIVITY			
Total	Connected	VPN connections	
28,000	12,626	86,894	
INTERNET BANDWIDTH			
Total Gateway Bandwidth Allotted		Peak Utilization	
10Gbps		7.2Gbps (72%)	
NKN CONNECTIVITY			
Total Locations		Connected	
4+1(Hyderabad)		1 (Hyderabad)	



e - Learning

APPLICATIONS – e-LEARNING




The image shows a computer monitor displaying a tele-education session agenda. The agenda is titled "Tele Education Session12 - Science" and lists the following topics:

- 1. Applications of Electrolysis
- 2. Refining by Electrolysis
- 3. Dry Cell
- 4. Fleming's Rule

Below the agenda, there are two files listed: "globalskin.swf" and "bgmusic.swf". The monitor also displays a Windows taskbar with the "start" button and several open applications, including "untitled - Paint" and "Vadivelu comedy - Ga...". The "Centra" logo is visible in the bottom right corner of the screen.

e - Medicine

APPLICATIONS – e-Medicine



The image shows a healthcare professional in a light blue uniform standing and interacting with a patient seated at a computer workstation. The professional appears to be demonstrating or assisting with the use of the computer system. The patient is wearing a striped shirt and is looking at the computer screen. The workstation includes a monitor, keyboard, and mouse. In the background, there is a bookshelf with various books and a window.



e- Governance

APPLICATIONS – e-Governance

Home - Mozilla Firefox

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ACSOFT

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P

PERSONALITIES

[ARISTOTLE \(384 - 322 BC\)](#)
Aristotle, a Greek philosopher, was one of the gr...
[MOTHER TERESA \(1910-1997\)](#)
Mother Teresa (born Agnes Gonxha Bojaxhiu), was a...
[ROY, RAJA RAM MOHAN \(1772-1833\)](#)
Raja Ram Mohan Roy, Indian religious

D

IRECTORY

Search for school, colleges and universities in India and select countries. Get all the relevant information regarding admission, facilities, hostel fees and contacts
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R

ESOURCES

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Goa is the smallest state in the Indian Union in ...
[KARNATAKA](#)
Karnataka derives its name from Karnanadu, which ...
[Dar es Salaam](#)
Dar es Salaam, meaning "Haven Of Peace," lives up...

N

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Department of Education -- Elementary... MyPage

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DIRECTORY SHOPPING CENTER

Web Jockey

Sign Out

Home ANDHAN RAHUL BUDDHAN

PERFORMANCE FEES PAYMENT DETAILS ATTENDANCE FEES RECOVERABLE

MY PAGE PERSONALISE THIS PAGE

NOTICE BOARD

19 Apr 2010
Amelio Newsletters-1
Amelio Newsletters...
19 Apr 2010
Amelio Newsletters-2
Amelio Newsletters...
19 Apr 2010
Amelio Newsletters-3
Amelio Newsletters...
19 Apr 2010
Amelio Newsletters-4
Amelio Newsletters...
more>>>

EVENTS

There is no current and future information.
more>>>

e-mail

ALERTS

Mar 19 2010 9:08AM
CLASS 4 SCIENCE QUESTION
School
Mar 19 2010 3:38PM
CLASS IV SOCIAL STUDIES Q
School
more>>>

NEW LETTER

IV Class-March News Letter
III Class-March News Letter
Nursery-March News Letter
Class-UKG-March News Letter
Class-LKG-March News Letter
Class1- Feb News Letter
Class2- Feb News Letter
Class1- March News Letter
Class2- March News Letter


POLICY

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Using e-gov Portals

- Introduce Basic Learning concepts
- Provide Local Contents and languages
- How to write scripts and numbers, What does they mean and their value, etc
- Provide video information as a filler when they are actually performing some other activities near the kiosk.
- Singapore model ...


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Recommendations

- Motivate rural initiatives
- Knowledge bank & Utilization
- Motivate NGOs / SHGs to take this initiative
- Provide Subsidy or facilities for the social cause
- There are lot of Institutions/ Corporates who are willing to contribute to the society – it needs to be encashed.


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Develop ICT based Rural applications

- ✚ Develop Community based Rural applications in Education, Health, Economic development for local needs
 - ✚ Will lead to sustainable ICT programs
 - ✚ Will also act as incentives for getting connected individually
 - ✚ Use of Speech / Icon based interfaces to make ICT applications user-friendly
- ✚ Content rather than connectivity has to be the focus, *successful ventures*
 - ✚ Like 'Bhoomi' in Karnataka "GYAN" Network should come up across the country


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**Synergized Efforts by Govt. Deptts. on priority &
Special Focus to North & East India**

- ✚ Populous States like UP, Bihar, WB, NE which have very low tele-density
- ✚ Community based & locally relevant content to be developed for these states
- ✚ Priority needs to be accorded by Rural based NGOs, in these States.

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Thank you very much

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