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### **World Education Leadership Symposium Online Conferences 2021 (WELSmain)**

#### **Initiator and Organizer / Initiator und Leiter:**

Prof. Dr. Stephan Gerhard Huber

#### **Host WELSmain 2021 (since 2009) / Veranstalter WELSmain 2021 (seit 2009):**

Institute for the Management and Economics of Education (IBB) /  
University of Teacher Education Zug (PH Zug)

Institut für Bildungsmanagement und Bildungsökonomie (IBB) /  
Pädagogische Hochschule Zug (PH Zug)

#### **Cooperation Partners / Kooperationspartner:**

Association of school leaders and teachers, ministries and authorities as well as further universities and partners / Schulleitungs- und Lehrerverbände, Ministerien und Behörden sowie weitere Hochschulen und Partner

# Innovations in Learning , Teaching and School System in India

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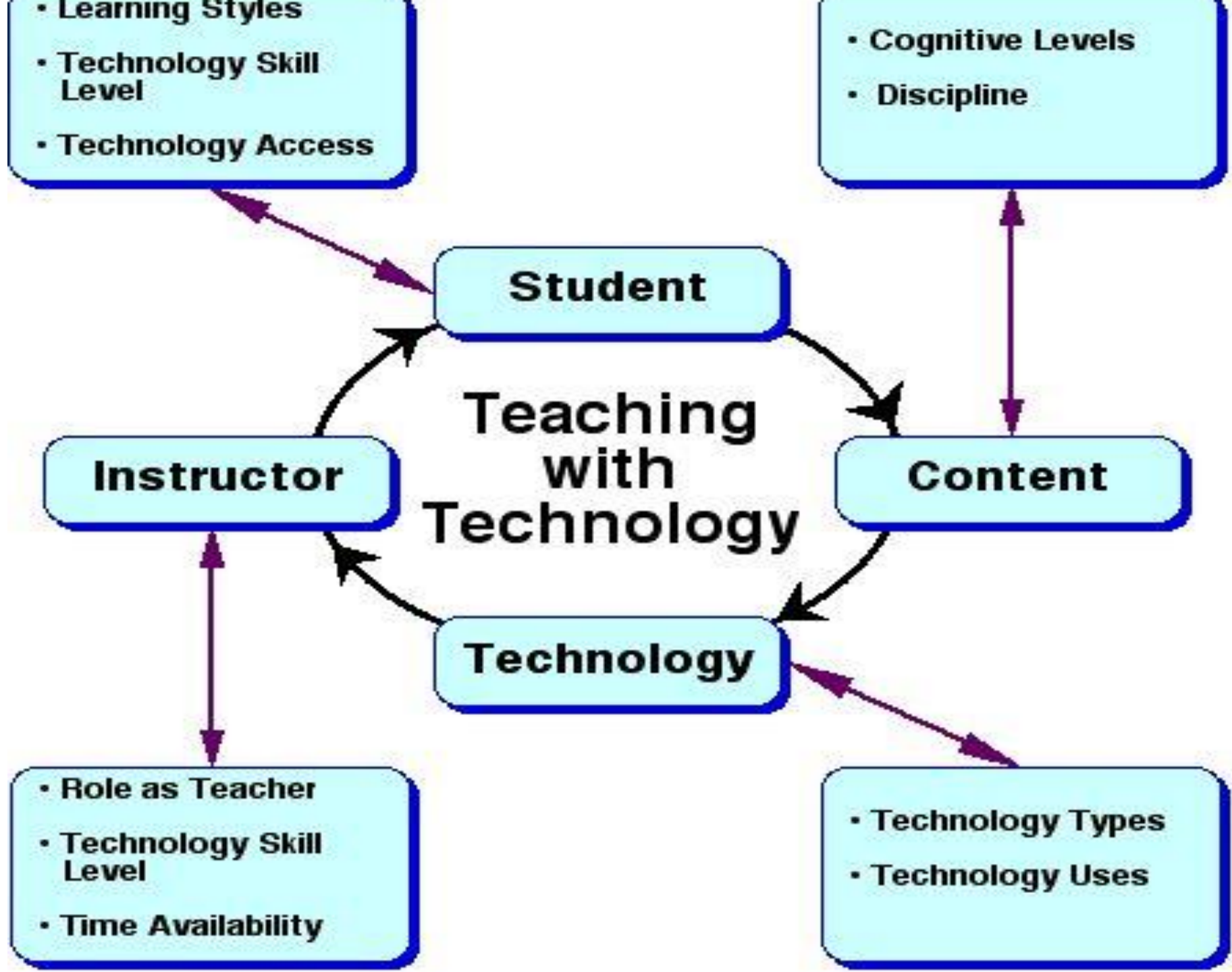
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# The paper is based on a research study on Innovations in learning, teaching and school system in India

- **The main objective:** to identify the use of innovations in learning, teaching and school system in Indian schools.
- **Why this Research?** Introduce and explore the innovations in learning, teaching and school system for all round development and growth beyond the classroom .
- **Sample :** 04 central schools (2 from Rajasthan State and 2 from Gujarat State of India) 04 principals, 20 teachers (5 from each school) were randomly selected and collecting their views regarding application of technologies in teaching learning and school system and their effective implementation.
- **Methodology:** For collecting information conducted descriptive study, 5 point rating scale, questionnaire and observation Schedule were used as tool.
- **Justification:** The study is justified to ensure the promotion of education systems' innovation through the use of new technologies in educational practices and school system.

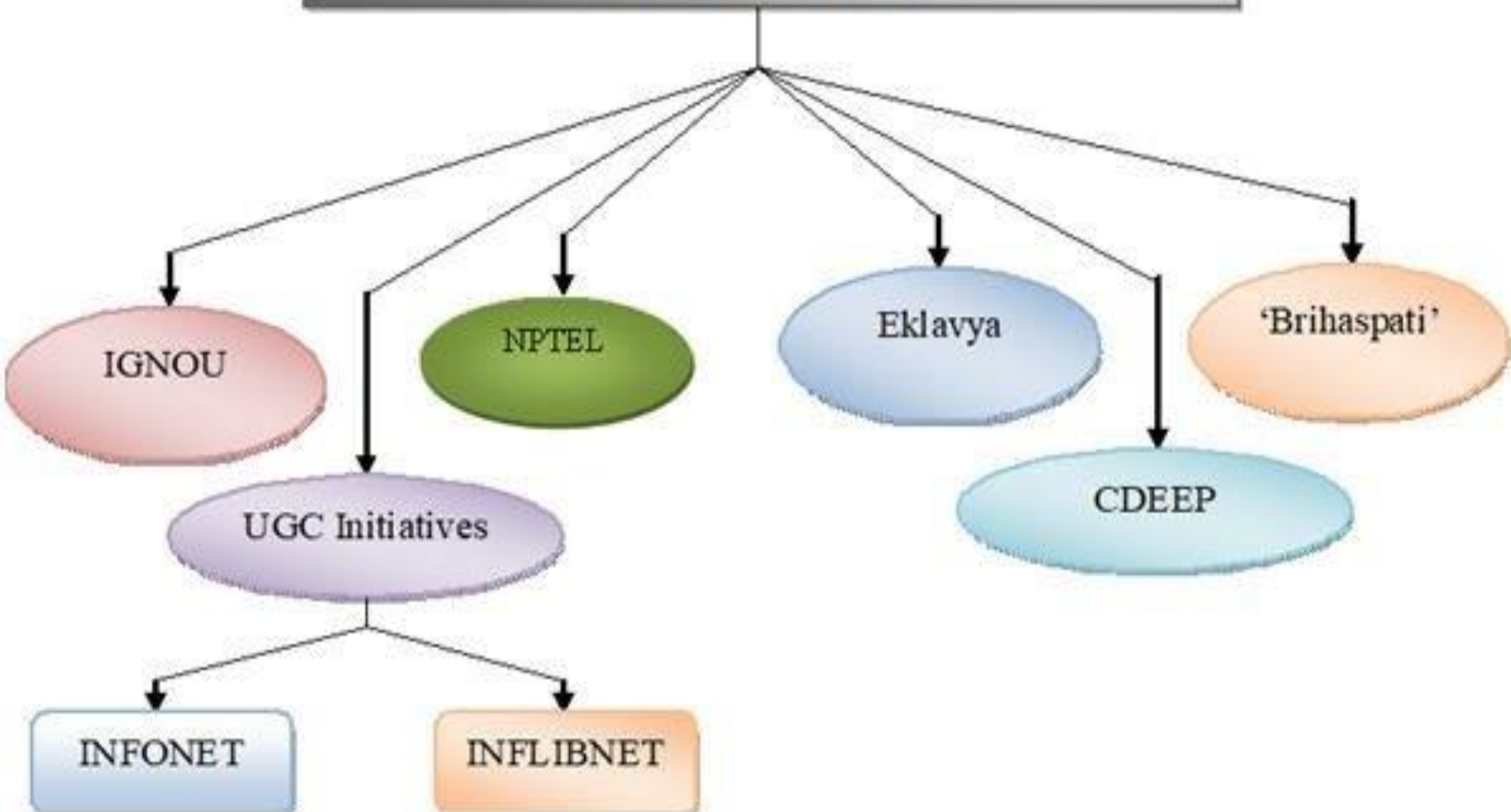


# Findings

## Teaching – Learning through Computer

- \* According to 100 per cent heads and teachers computer becomes a tool that helps teachers in teaching and helps their students learning.
- \* Teachers are resourced with multimedia (CDs or internet) content to explain topics better and make the teaching-learning process joyful, interesting, easy to understand. The computer motivates and caters for different learning abilities.
- \* According to 100 per cent heads and teachers internet provides far more up-to-date information than text books. Computer is a powerful mode of class-room instruction; teacher-directed student assignments and teacher's self learning.

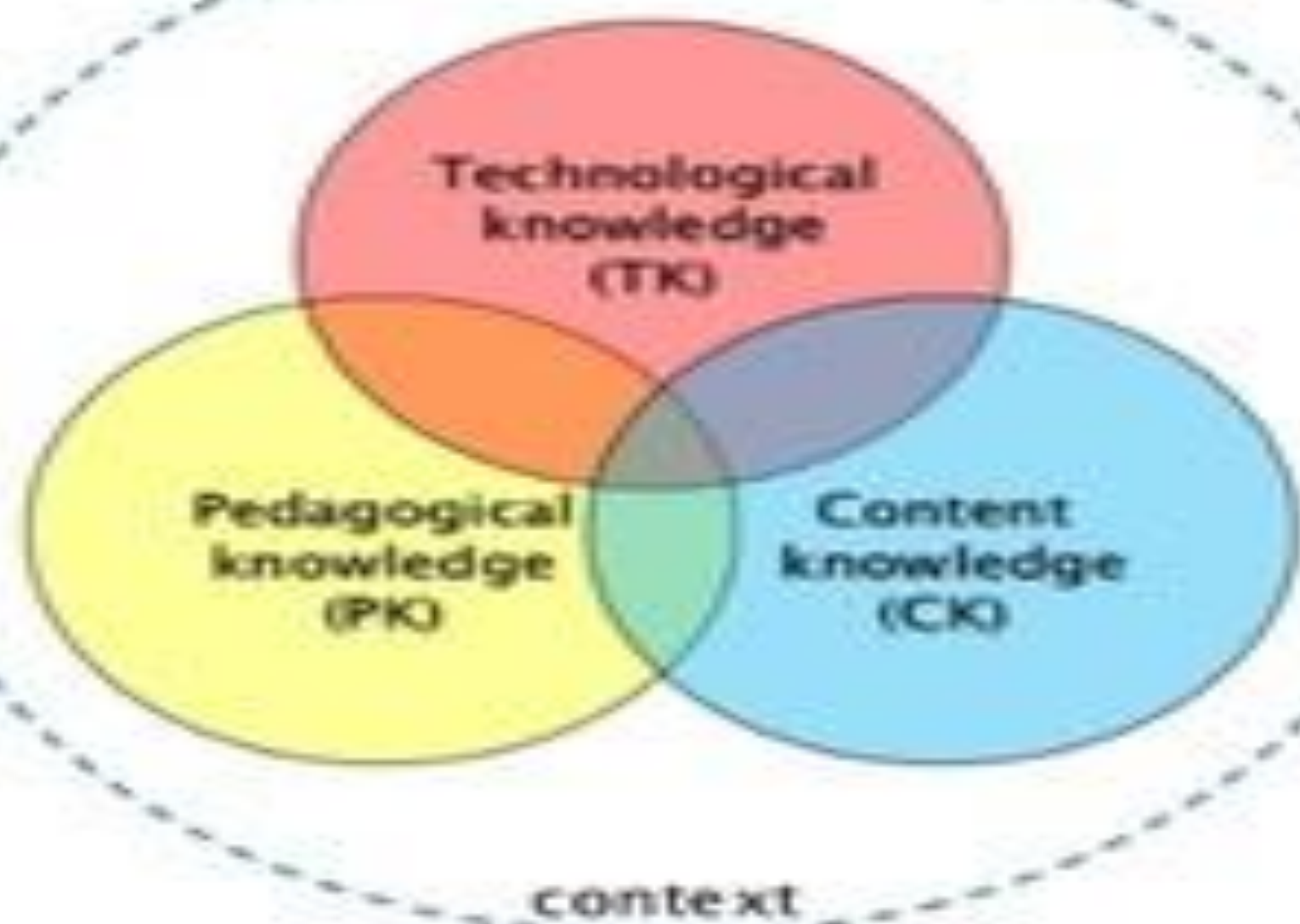
# Initiatives of ICT Mediated Teaching and Learning



# Integration of Information Technology in Learning-Teaching and School System

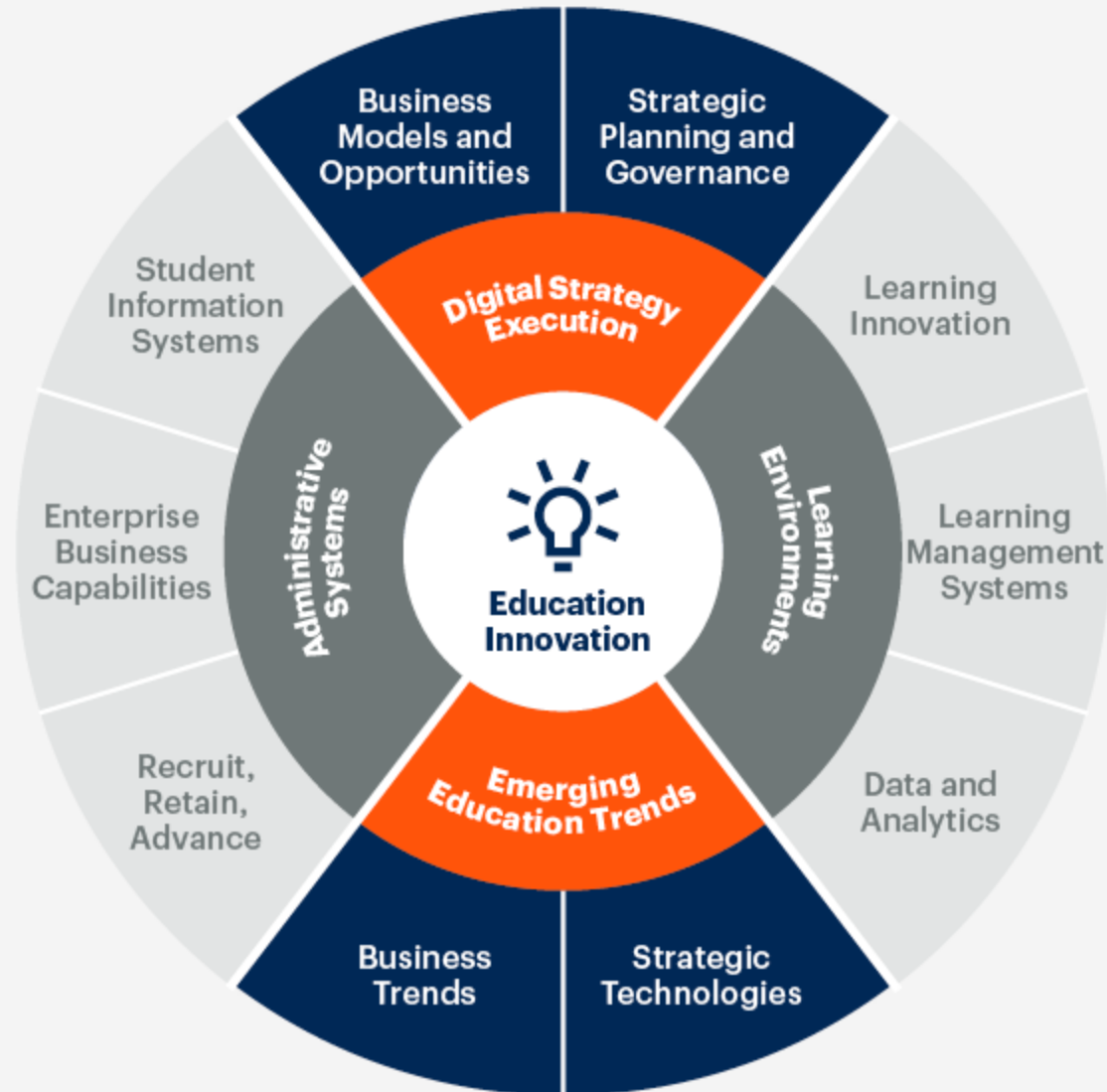
- **Indian National Curriculum Framework for School Education Guide Syllabus for Information Technology in Schools, 2001.**
- **Study Shows : Only 50 per cent teachers routinely use computers for instructional purposes**
- **75 per cent teachers are used for low-level tasks such as presentations, drill, and word processing.**
- **65 per cent teachers computers are not sufficiently integrated across the curriculum.**
- **Observations shows: computers are not properly used by the 55 per cent school teachers other than computer teachers.**

# TPACK-model





# and Innovation

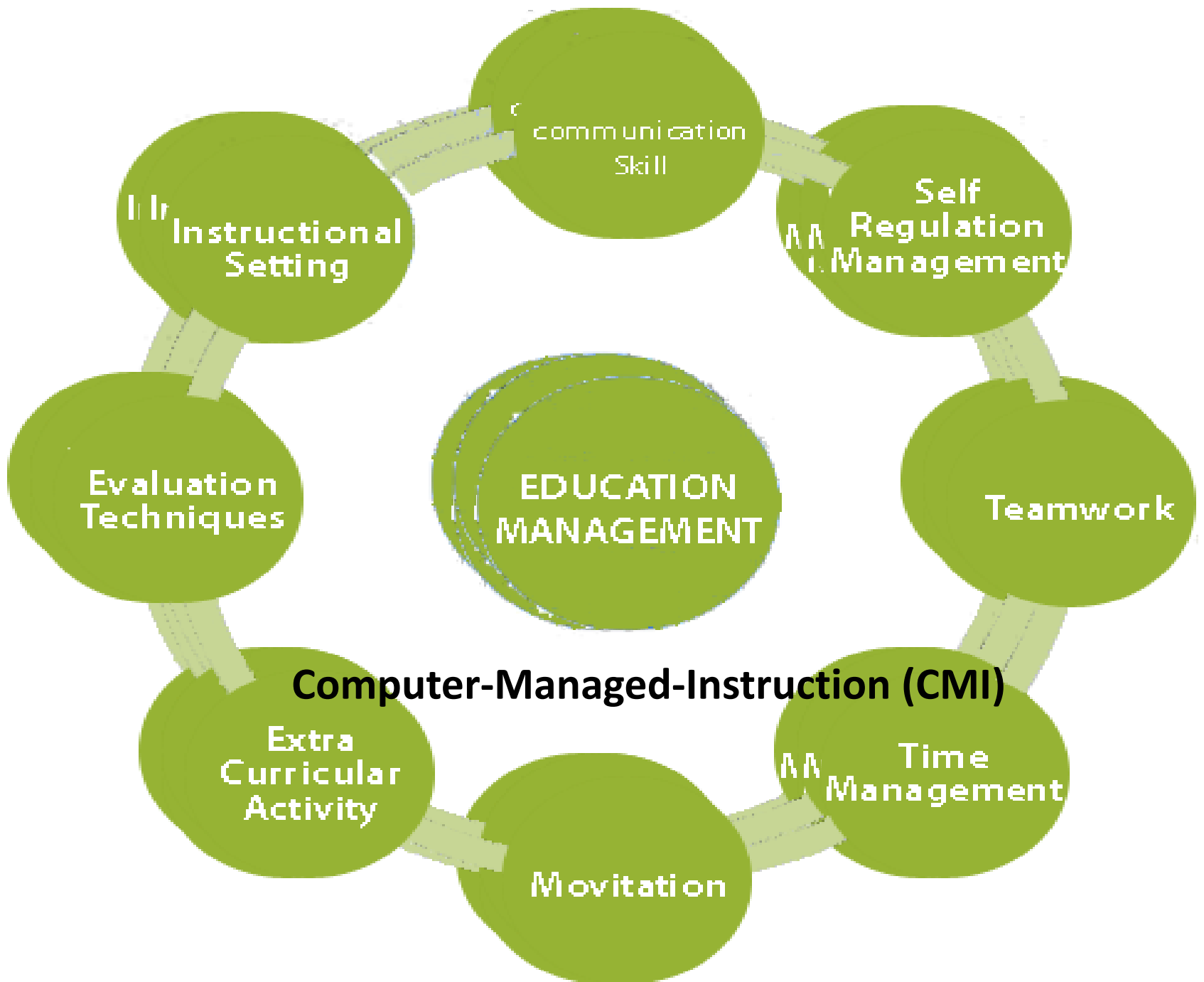


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# Innovation in Technology-Integrated Instruction

- 85% teachers and 100% heads used computer in their teaching.
- Gave instructions by computer aided learning
- Directed students assignments, searching information's.
- Computer application in word, spread sheets, presentation or publish software for subject knowledge and teaching.
- Searching internet for subject matter.



# Computer-Managed-Instruction (CMI)

- 100 per cent respondents Computer Managed Instruction material.
- Develop lesson/unit plans.
- School E-Circulars Announcements, activities, schedules, Homework are notified via internet.
- Teachers used computer to build question banks, test papers, Students are given tests on the computer, offline/online.
- Record Keeping Students attendance, assignment, grade records are generated and maintained on computers.

# Computer-Assisted-Instruction (CAI)

- The CAI uses instructional software that may broadly be classified in - tutorial, drill-and-practice, simulation, instructional gaming, and problem solving.
- Computer Assisted Instruction Present information ask questions, monitor responses, provide feedback, keep records.
- Drill-and Practice Present item to work on, provide feedback on correctness and notes on incorrect responses, summarize results.

# Results on the basis of Rating Scale

- The findings revealed that on average, teachers used computers approximately once or twice in a month in order to impart CAL, CMI, and CAI in schools.
- For the purpose of CAL, the majority of teachers reported use of computers either often (50 %) or sometimes ( 25% ) or rarely used computers for whole class instruction. (
- 50% teachers and heads always used computers for instructional material generation, lesson plan preparation, school e-circulars, communication, students work portfolio, students grades and performance assessment, record keeping, diagnosis and remediation.
- 45% teachers and heads had some times or rarely used computers for CMI. CAI 55 %.
- 50% Teachers had always use computer to access teacher-independent, self-instructional material like tutorials.
- 50% teachers reported often and rarely using computers for CAL, CMI and CAI .
- It was observed that various modes of CAI, in decreasing order of usage, included solving basic problems, playing educational games, simulation, drill-and-practice exercises, and tutorial.