



## **04. ICT and Governance Methods of teaching in institutions of higher learning: Teacher- centered vs. Learner-centered methods; Off-line vs. Online methods (Swayam, Swayamprabha, MOOCs etc.)**

### **1. Introduction**

In the modern era of education, especially at the higher learning level, the convergence of Information and Communication Technology (ICT) and effective governance has revolutionized teaching methodologies. In the context of AYUSH (Ayurveda, Yoga, Naturopathy, Unani, Siddha, and Homoeopathy) and other health sciences, leveraging ICT not only aids in the administration and management of educational institutions but also diversifies how educators deliver content. From traditional, teacher-centered approaches to interactive, learner-centered pedagogies, and from offline classroom setups to online digital platforms (SWAYAM, Swayamprabha, MOOCs, etc.), teachers today have a wide array of tools to ensure quality learning experiences.

This chapter examines the role of ICT in governance, explores various teaching methods in higher education—teacher-centered vs. learner-centered—and compares offline modes with emerging online platforms. Additionally, it outlines best practices to integrate these approaches effectively within AYUSH and other health-related programs.

### **2. ICT and Governance in Higher Education**

#### **2.1 Understanding ICT and Governance**

- **ICT (Information and Communication Technology):** Encompasses digital tools and platforms that enable efficient creation, storage, retrieval, and dissemination of information.
- **Governance:** In the academic context, it relates to systems and processes through which institutions manage resources, regulations, and decision-making.

By incorporating ICT into governance, educational institutions can streamline admissions, student records, faculty evaluations, and overall administrative tasks. This promotes transparency, accountability, and data-driven decision-making.

#### **Examples of ICT in Governance**

1. **Online Admissions and Enrollment:** Automated portals reduce paperwork and errors.
2. **Student Information Systems:** Allow real-time tracking of attendance, grades, and academic performance.
3. **Learning Management Systems (LMS):** Tools like Moodle, Google Classroom, or Canvas aid in course delivery, assessment, and content management.
4. **Digital Repositories:** Systems like the National Academic Depository store and verify certificates and degrees, reducing fraud.

#### **2.2 Significance in the AYUSH Context**

- **Digitization of Classical Texts:** Ancient Ayurvedic and other traditional manuscripts can be preserved, accessed, and studied without physical barriers.
- **Telemedicine and E-consultations:** Remote areas benefit from ICT-driven healthcare solutions, expanding practical exposure for AYUSH students.
- **Research Collaboration:** Cloud-based platforms facilitate multi-institution research projects, enabling knowledge exchange and better clinical outcomes.

### **3. Methods of Teaching: Teacher-Centered vs. Learner-Centered**

#### **3.1 Teacher-Centered Methods**

**Definition:** A traditional approach where the teacher is the primary authority. Learning is often delivered in a one-way format—lectures, note-taking, and exams.

- **Characteristics:**

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- Content-heavy lectures
- Structured lesson plans
- Limited student interaction and feedback loops

• **Advantages:**

- Covers extensive theoretical material efficiently
- Straightforward to organize and implement
- Familiar format for most teachers and students

• **Disadvantages:**

- May not address diverse learning styles
- Students often remain passive, with fewer opportunities for critical thinking
- Practical or clinical skills development can be overlooked if used exclusively

### 3.2 Learner-Centered Methods

**Definition:** Focus shifts to the learner. Teachers act as facilitators, encouraging students to engage, question, and explore topics more deeply.

• **Characteristics:**

- Interactive discussions, problem-solving tasks, collaborative projects
- Encourages self-directed learning and critical analysis
- Students actively participate in the knowledge-building process

• **Advantages:**

- Fosters higher-order thinking skills—analysis, synthesis, evaluation
- Adaptable to multiple learning styles (visual, auditory, kinesthetic)
- Suited to practical-oriented fields like AYUSH, enhancing clinical competencies

• **Disadvantages:**

- Demands more preparation and planning from educators
- Works best with small groups or well-managed large classes
- Assessment can be more complex and time-consuming

## 4. Offline vs. Online Methods

### 4.1 Offline (Traditional) Methods

- **In-Person Lectures:** Enable real-time interaction and immediate feedback.
- **Hands-On Practicals/Clinicals:** Essential for AYUSH disciplines where observation and practice are vital—e.g., preparing herbal formulas or conducting Yoga therapy sessions.
- **Workshops, Seminars, and Group Discussions:** Facilitate experiential learning, peer collaboration, and networking.

#### Pros

- Direct human interaction builds rapport and trust
- Easier to demonstrate practical and clinical techniques
- More spontaneous question-and-answer sessions

#### Cons

- Geographical and scheduling constraints limit reach
- Resource-intensive (classrooms, labs, infrastructure)
- Less flexible for non-traditional or working students

### 4.2 Online Methods

- **Live Virtual Classes:** Tools like Zoom or Google Meet replicate classroom discussions virtually.
- **Asynchronous Learning:** Recorded lectures allow students to learn at their own pace.
- **Discussion Forums:** Platforms like LMS discussion boards facilitate peer interaction and academic debates.
- **E-Assessments:** Automated quizzes provide quick feedback, enabling continuous learning.

## Pros

- High flexibility and accessibility across geographical barriers
- Cost-effective for institutions and learners alike
- Rich multimedia resources (videos, simulations, e-books)

## Cons

- Requires stable internet and digital devices
- Some students may feel disconnected without in-person support
- Practical, hands-on components can be challenging to teach entirely online

## 5. Harnessing ICT Platforms: SWAYAM, Swayamprabha, and MOOCs

### 5.1 SWAYAM

- **Meaning:** "Study Webs of Active Learning for Young Aspiring Minds," an initiative by the Indian Government.
- **Features:**
  - Offers Massive Open Online Courses (MOOCs) across disciplines, including health and AYUSH-related topics.
  - Recognized certifications upon course completion.
  - Bridging educational gaps by providing high-quality content.

### 5.2 Swayamprabha

- **What it is:** A group of Direct-to-Home (DTH) channels broadcasting educational content 24x7.
- **Benefit:**
  - Reaches learners in remote areas with limited or no internet access.
  - Curated content from reputed national institutions.

### 5.3 MOOCs (Massive Open Online Courses)

- **Global Platforms:** Coursera, edX, FutureLearn, etc.
- **Applicability to AYUSH:**
  - Specialized courses on traditional medicine, integrative healthcare, and research methods.
  - Potential for international collaboration, giving AYUSH students a global perspective.

## 6. Integrating ICT and Diverse Methods in AYUSH Education

### 1. Blended Learning Approach

- Combine offline practical classes (e.g., lab demonstrations, clinical rounds) with online theoretical modules and virtual discussions.
- "Flipped classroom" models let students access digital content beforehand, reserving in-person sessions for active problem-solving and hands-on training.

### 2. Case-Based and Problem-Based Learning

- Present clinical scenarios relevant to Ayurveda, Unani, Homeopathy, etc.
- Students research and propose solutions, bridging theory and practice.

### 3. Community Engagement

- Field visits or online service-learning projects with local healthcare centers.
- Encourages real-world application of AYUSH principles and fosters social responsibility.

### 4. Assessment and Feedback Mechanisms

- Use formative assessments (quizzes, reflections) for real-time feedback.
- Summative evaluations (final exams, comprehensive projects) to measure overall competency.

### 5. Teacher Training and Professional Development

- Regular upskilling in digital tools and pedagogical strategies.
- Peer-sharing best practices for holistic growth.



## 7. Conclusion

In higher education—particularly in AYUSH disciplines—ICT-driven governance can significantly streamline operations and enrich the teaching-learning experience. An effective blend of teacher-centered and learner-centered methods ensures both foundational knowledge and advanced critical thinking skills. Furthermore, the strategic use of offline and online approaches, supported by platforms such as SWAYAM, Swayamprabha, and other global MOOCs, extends educational reach to diverse learners, including those in remote regions.

Educators who harness these methods holistically stand to cultivate more competent, research-oriented, and ethically grounded professionals. As ICT continues to evolve, ongoing adaptation and teacher training will remain pivotal to delivering high-quality AYUSH and health education that meets both national aspirations and global standards.