

Quality Criteria For Educational Institutions



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Quality Criteria

Essential Components

1. Leadership

- Institution
- Head, Institution

2. Customer (Internal, External)

- Student
- Parents/School/Society
- Faculty
- Staff
- Professionals (CEP)
- Employer
- Vendor

3. Product



Quality Criteria

Leadership

1. Vision
2. Goals/Objectives
3. Means
 - Systems & Processes
4. Benchmarking
 - National/ International
5. Societal Impact (Extension, Rural, ...)
6. Resources Management
7. Ecology

Quality Criteria

Customer Focus

- **Teachers**
 - **Teaching**
Quantity → Quality
- **Content**
- **Evaluation**
- **Results**
- **Management**
- **Class Size & Strength**
- **Buildings**
- **Schedules**
- ...



***Delight
Customer***



Rewards

Quality Criteria

Learning Process





Quality Criteria

Role of Education

- ❖ **A dialogue**
- ❖ **A process of inquiry**
- ❖ **No longer (only) information provider**
- ❖ **A broad base in fundamentals**
- ❖ **Skill base derived from real life situations**
- ❖ **Critical inquiry and ability to self-learn**



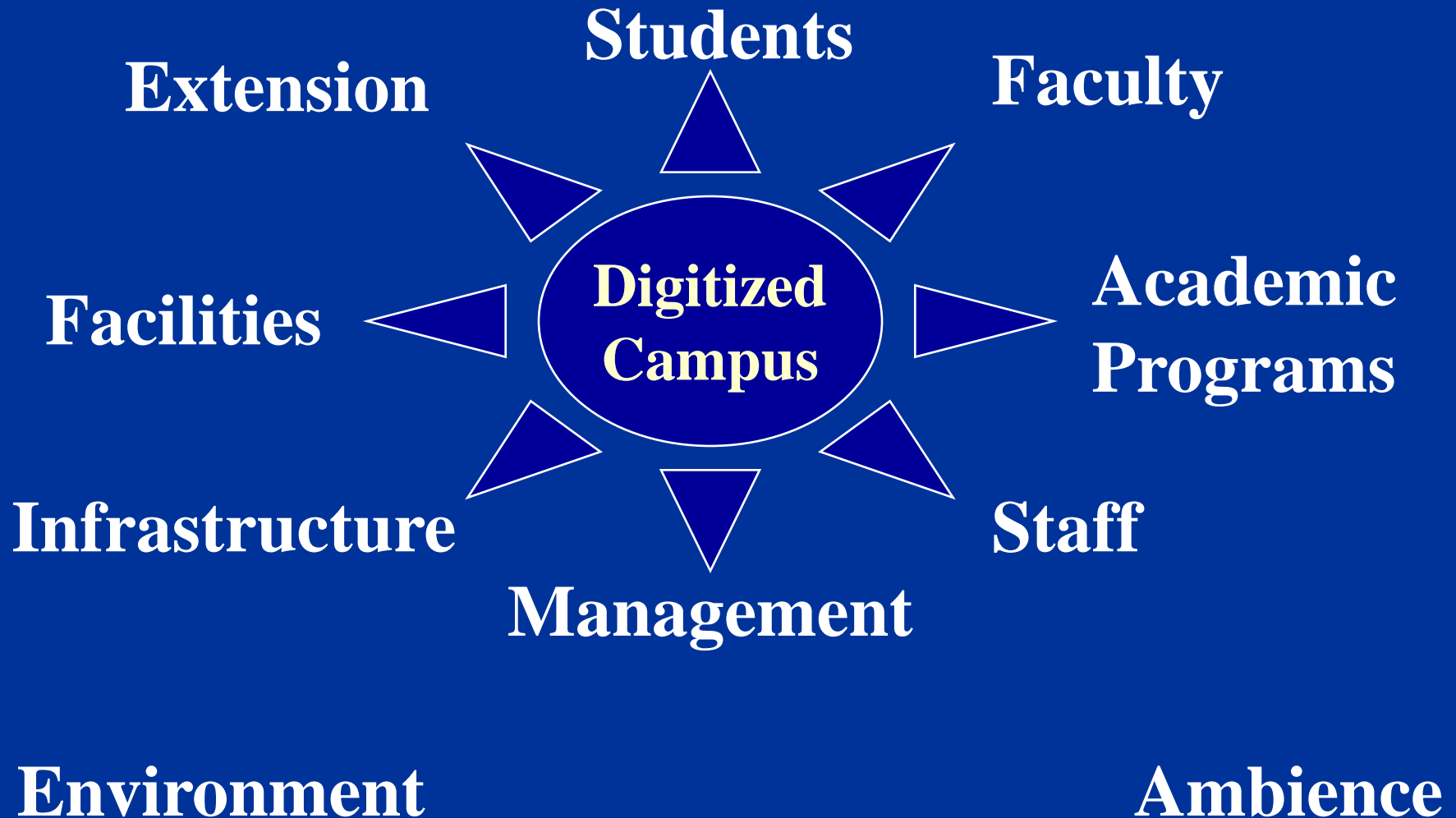
Quality Criteria

Features of Today's Education

- ❖ **Interdisciplinary**
- ❖ **Basic Sciences, Arts, Humanities, Social Sciences, Management, Ecology/ Sustainable Development**
- ❖ **A Symbiotic relationship**
- ❖ **Project based flexible learning path**
- ❖ **Internships**

Quality Criteria

Institution Constituents





Quality Criteria

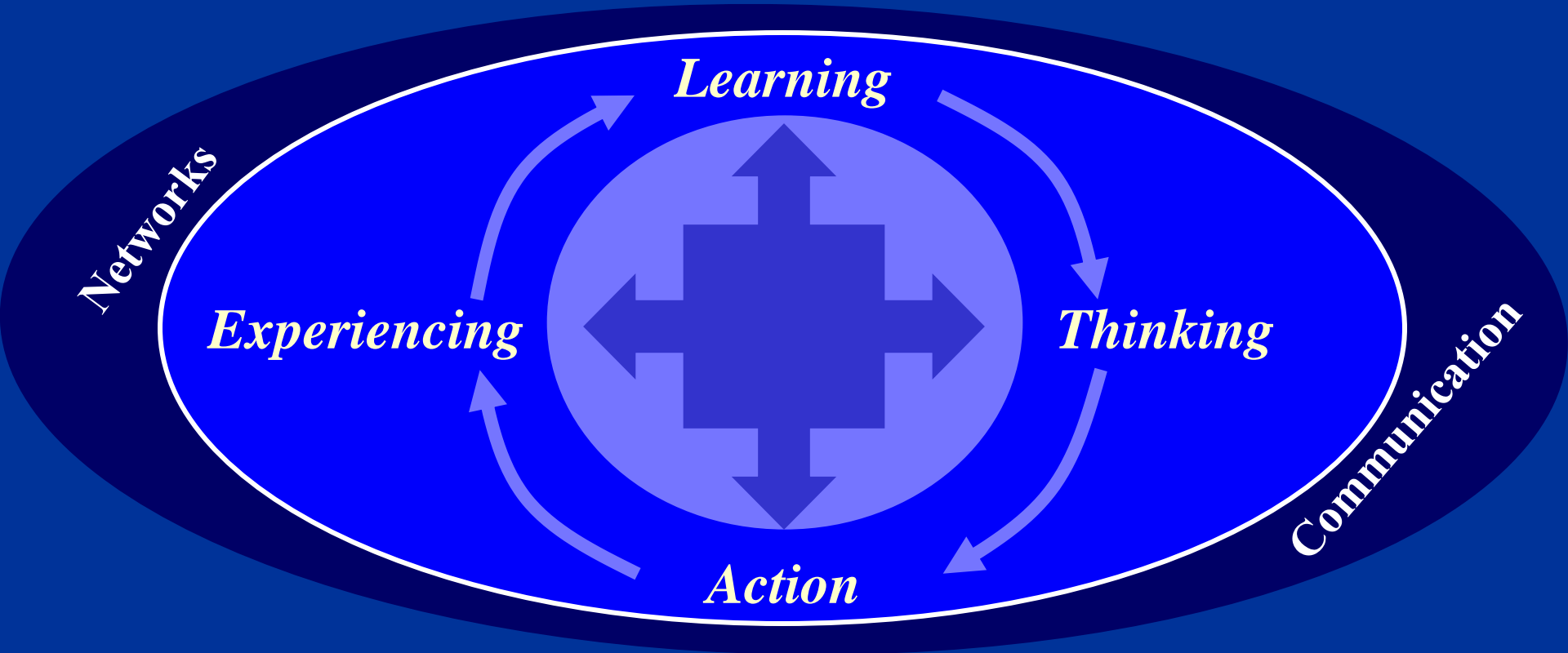
Faculty

- **High Quality**
- **Facilitator**
- **Inventor, Innovator**
- **Motivator**
- **Understanding**
- **Accessible**
- **Available**
- **Open Minded**

Accept Criticism - Student Evaluations,

Quality Criteria

Institutional Environment



Create Learning & Research Environment
that can meet the needs of a knowledge society
(Unleash creative energies to pursue infinite possibilities)



Quality Criteria

The Product

- ❖ Spirit of intellectual adventure
- ❖ Conceptual base and skill set
constantly updated
- ❖ “Generalist-Specialist”
- ❖ Empowered to contribute to a
rapidly changing world



Quality Criteria

Generalist-Specialist

Job Market: Changing Technology Scene, Interdisciplinary,
Collaborative, Global

- *Conceive & Grasp Problems*
- *Real Life Situations (Open-Ended)*
- *Develop Creative, Workable Solutions*
- *Solutions to Increasingly Complex Technical & Business Problems*

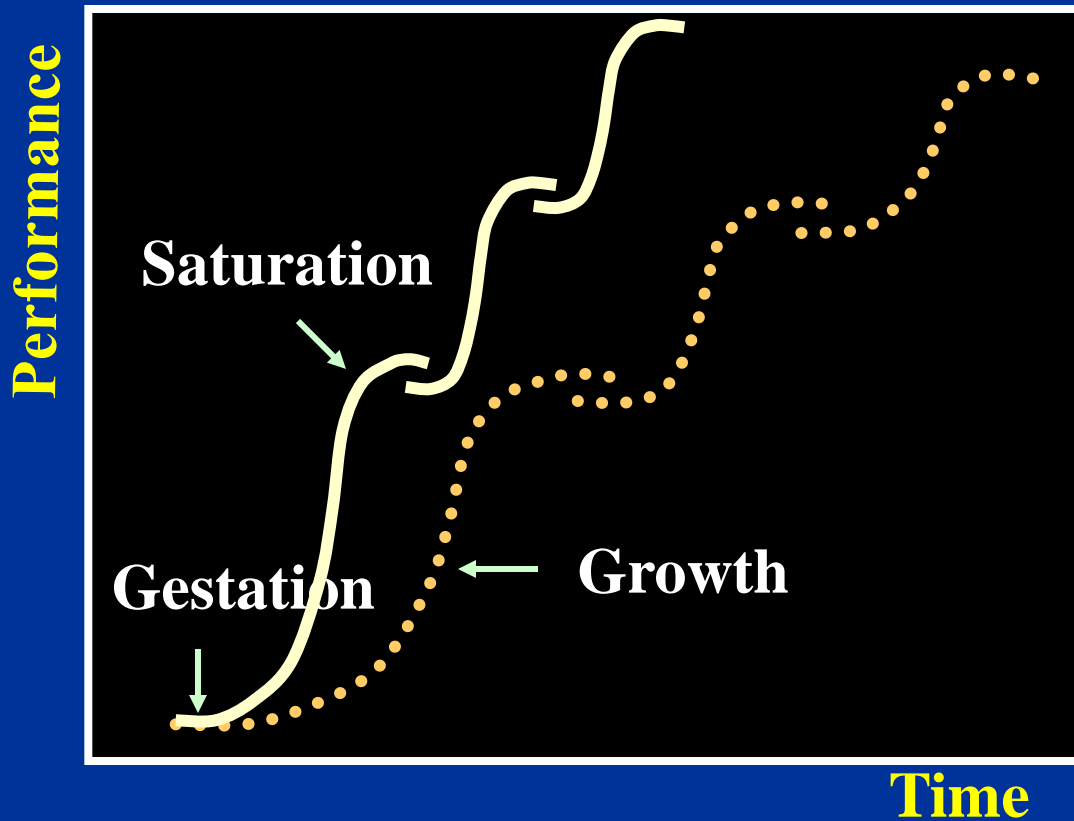
Manage Change, Teamwork

**Integrate Technical Concepts with Management, Safety,
Environment, Business & Public Policy**

Quality Criteria

Generalist-Specialist

Self-Renewal
Self-Learning



Short Learning Stage

Rapid growth Stage

*Quick Transition to
next S-Shaped Curve
before decline*

➡ *Life-Long Learning*

“The S- Shaped Curve”

Quality Criteria

Generalist-Specialist

**Cultivation of Basic & Advanced Knowledge,
Problem Solving, Specialized R&D, & Practical Skills**
(Conceptualization, Analysis, Synthesis, Design)

Intake

**High Intellectual Potential
Diligent, Promising**



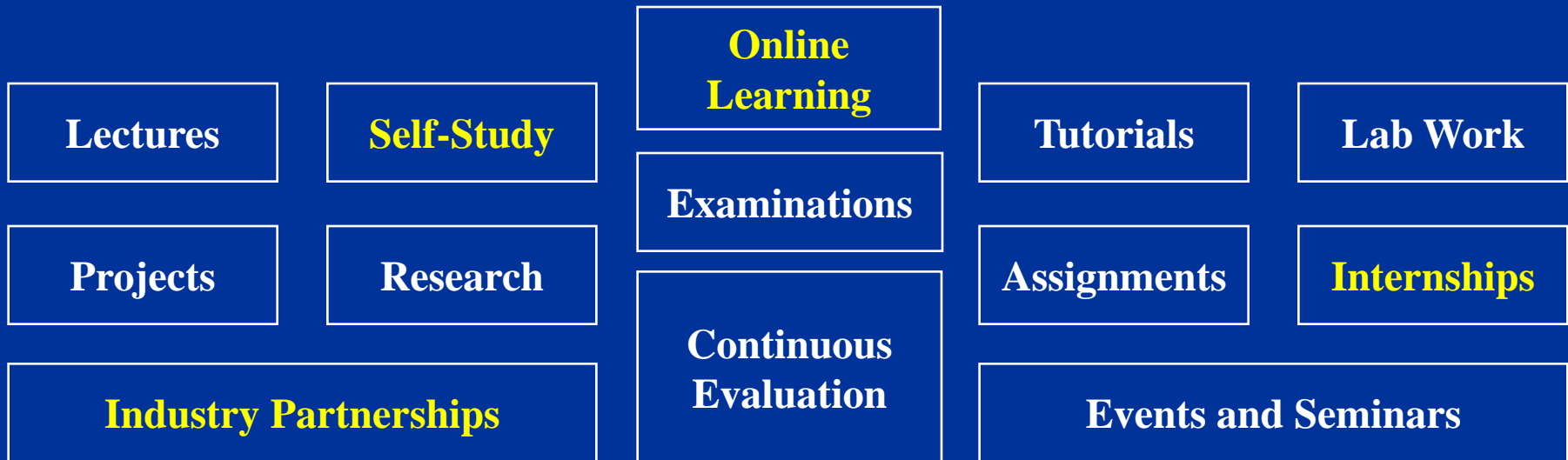
Academic Institution



**Self-Learners, Creators, Innovators, Managers & Leaders
at National & Global Levels**

Quality Criteria

Education Methodology



- **Problem Solving – Closed & Open Ended**
- **Critical Thinking**
- **Creativity**



Quality Criteria

Educational Programs: *vis-à-vis Students*

Courses Offered, Sequencing, & Linkages, etc.

Designed, Implemented to Meet Following Requirements of Students

- **Educational, Professional, & Personality Development**
- **Active Learning**
- **Proper Assessments**
- **Catering to Individual Differences in**
Student Learning Rates & Styles
- **Complete Transparency in Evaluations, Grading, & Grades**

Quality Criteria

Improved Education System

Teacher Centric  **Student Centric**

Teaching  **Learning**  **Active Learning**

Job Centered  **Knowledge Oriented**

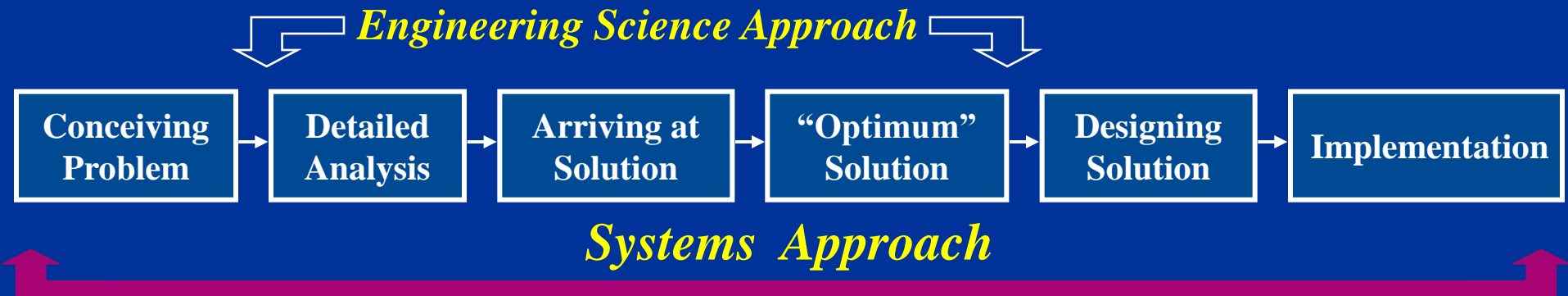
Teaching Methods – Innovative & Motivating

- Adapt to different learning rates
- Personalized attention
- Interactivity
- Modern & Dynamic Curriculum
- Assessing & Evaluating Teaching & Course Effectiveness

 (Student Evaluation, Feedback, Improvement) 

Quality Criteria

Education Process



⇒ **Generalist–Specialist** (*Scientist–Engineer–Technologist–Manager*)

⇒ **Better Conditioned Product**



Quality Criteria

Linkages: *Invention + Innovation????*

UNIVERSITY

Teaching & Research

Individuals

- **People**
- **Knowledge**
- **Facilities**
- **Environment**
- **Space**

INDUSTRY

Products For Society

Teams

- **Expertise**
- **Live Situations**
- **Facilities**

Quality Criteria

Linkages: *Interdependence*

UNIVERSITY

*I*NTERACTION
*I*NVOLVEMENT
*C*OMMITMENT

INDUSTRY

INTERDEPENDENCE

Cost Rising

- Scientific Research
- Education

Continuous Needs

- Better Equipments
- Better Resources

- Technology Oriented
- Need Innovators of Tomorrow
- Basic Research from Universities
- Develop Appropriate Teaching Programs

Vibrant & Dynamic Relationship



Quality Criteria

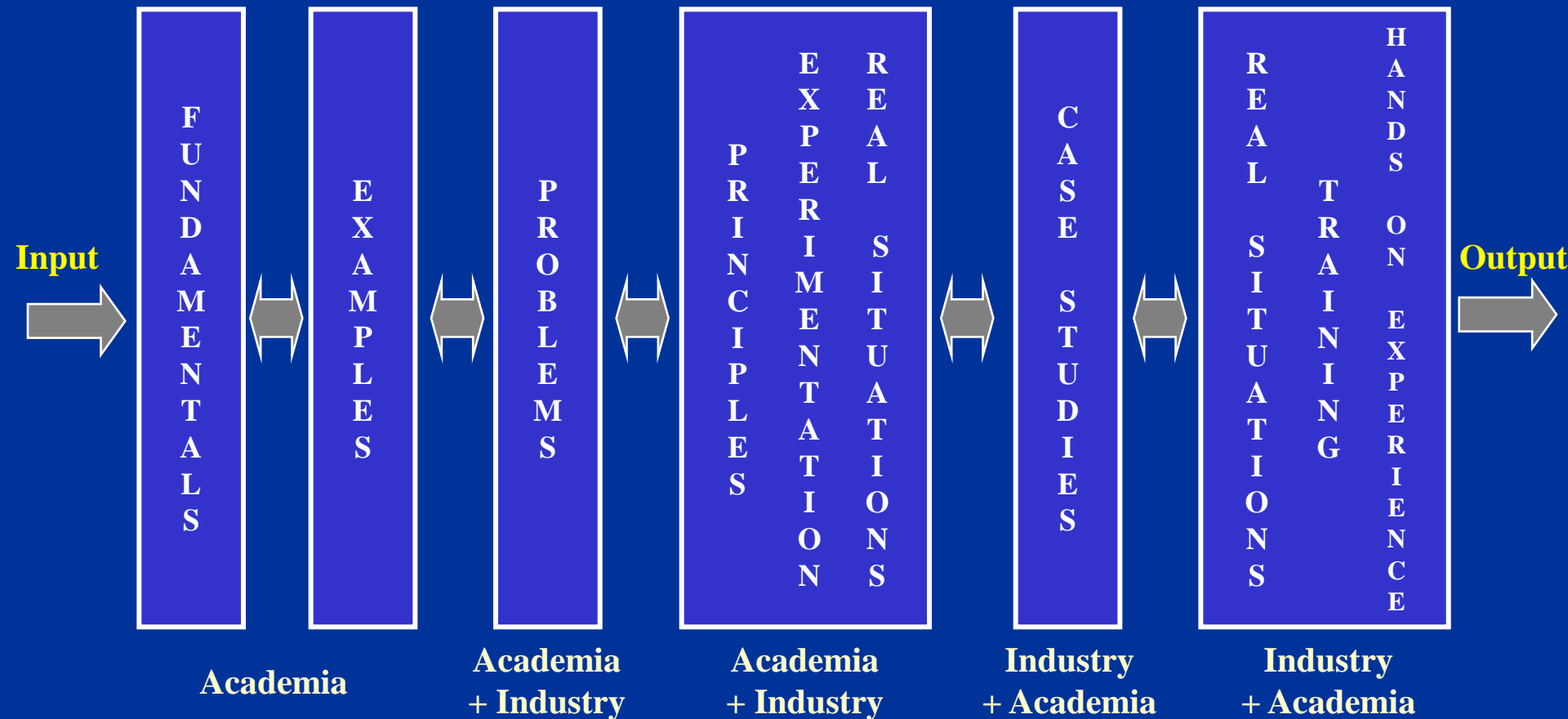
Academic Programs: *Theory + Practice*

Medical Education Model

- *Industry as “Live” Workshop*
- *Bring Industry to Classrooms (video)*

Quality Criteria

Academic Programs: *Theory + Practice*



⇒ *Fundamentals are GLOBAL*

⇒ *Applications are LOCAL*



Quality Criteria

Academic Management

Student – *Most Important Customer*

Faculty – *Facilitate & Inspire*

– *Technology Transfer, Moving Technologies to Market*

Management – *Dynamic Governance*

– *Build Alliances with the Best*

– *Facilitate Innovation & Industry Interface*

Administrative Staff – *Continuous Training & Up-gradation*

Boundaryless Academic Environment



Quality Criteria

Administrative Reforms

- **Continuous Improvement**
- **Flexibility**
- **Empowerment**
- **Training**
- **Innovation**

Quality Education

Improves

Quality of Life