

# Re-Engineering Technical Education in West Bengal

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# Laws of Technical Education

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## ❖ Some Laws of Four Year Transform

- Course volume is inversely proportional to quality of Institution.
- One higher order term of teacher's notes is deleted every three years.
- The quality of reading reported from a lab instrument is inversely proportional to the probability of its working correctly.
- Spirit of Enquiry is inversely proportional to the year of study while Jargon base increases exponentially with year of study.
- All joy of learning comes from extra-curricular activities.

## ❖ Some Laws of Ecosystem

- Law of Evaporation and Precipitation
- 'Vision' becomes blurred in terms of the square of the distance of the location from Kolkata
- If infrastructure does not decay exponentially it does so instantaneously.
- Education has helped family planning

## ❖ Exceptions prove the rule

# Re-Engineering Technical Education

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## ❖ Relaying the Foundations

- ❖ Four pillars of innovation, research, employment, entrepreneurship
- ❖ Outcome based learning: creation of knowledge while learning
- ❖ Leave the middle ground: Stick to Fundamentals and Experiential Learning
- ❖ Interdisciplinary Programmes: Engineering + Medicine / Law

## ❖ Raising the Firm Infrastructure

- ❖ Statewide Platforms for 'Dry' and 'Wet' Innovation Laboratories
- ❖ Knowledge Network to connect students to share, learn and create content
- ❖ Develop Nodal Research Hubs / Parks
- ❖ Grow and Spread through Affirmative Action

## ❖ Retrofitting the Regenerative Cycle

- ❖ Develop the teachers through faculty development cum research programme
- ❖ Create a feedback system for continuous programme evaluation
- ❖ Build the self-nurturing talent triangle of UG:PG:Research:Faculty

## ❖ Funding the Initiative

# There is a Way: Is there a Will?

*Its an Engineering Challenge: The Devil  
is in the Implementation*

*The 2% inspiration has to be followed up by  
99% perspiration*

*Yes Sir, that extra 1% is necessary from  
everyone. It is also sufficient if everyone  
pitches in*

**Thank you for listening**

*Please feel free to ask questions*