

# I.T.S Dental College, Hospital and Research Centre

47, Knowledge Park-III, Greater Noida

## Two Institutional Best Practices

1. Academic Restructuring
2. State of Art Simulation Lab for pre-clinical exercises of undergraduates

### ACADEMIC RESTRUCTURING

#### 1. Title of the Practice

Academic Restructuring

#### 2. Objectives of the Practice

- a) To be in sync with contemporary standards/ methodology of teaching
- b) To enhance cognitive mode of learning and discourage rote system
- c) Increase teacher- student ratio
- d) Imbibe education technology into teaching



#### 3. The Context

The challenging issues:

- a. To change the mindset of both teachers and student from old school of chalk and board to applied sciences and technology based learning.
- b. Provide extra lecture halls and infrastructure.
- c. Train teachers for e-learning and content.

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## 4. The Practice

- a) The basic tenet of Academic restructuring was to adopt modern means of teaching methodology with an amalgamation of classical teaching.
- b) Imbibe e-technology based methods for technology savvy generations.

### Constraints/ Limitations faced

- a) Train the trainers for e- learning.
- b) Providing class rooms well equipped with basic internet facility to smart boards.

## 5. Evidence of Success

On monitoring the metamorphic academic module, following observations were seen:

- a) Internal results reflected better scores across all subjects and all batches as compared to previous methods.
- b) The below average students showed higher results.
- c) The echelons of the student batches won laurels and stood in the top rolls of university ranks.

## 6. Problems Encountered and Resources Required

More resources and infrastructure was required for academic restructuring. Extra lecture halls were provided and all the lecture halls were equipped with internet facility and smart boards. Teachers were trained for teaching e- content. It was initially a task to change the mindset of teachers and students to adopt and adapt to this new methodology of teaching and learning. However, as everyone experienced the positive change and witnessed the results, academic restructuring has been well accepted in the institution.

## **STATE OF ART SIMULATION LAB FOR PRE-CLINICAL EXERCISES OF UNDERGRADUATES**

### 1. Title of the Practice

State of art simulation lab for pre-clinical exercises of undergraduates



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## 2. Objectives of the Practice

- a) To be in sync with contemporary standards/ methodology of teaching
- b) To enhance acquisition of requisite psychomotor skills before real-life clinical applications.
- c) providing more optimal practice conditions to smooth the transition from the traditional model-based simulation laboratory to the clinic

## 3. The Context

The challenging issues:

- a. Initial set up costs.
- b. Maintenance cost of expensive equipments.



c.

## 4. The Practice

- a) The teachers can give centralized demonstration on their table and the students can see the demonstration on their desk through TFT screens with live videostreaming
- b) The typodonts provide more optimal practice conditions to students with simulation of teeth and saliva, thus improving fine motor skills of students.
- c) Centralised air conditioning

### Constraints/ Limitations faced

- a) Providing well equipped simulation lab with expensive infrastructure facilities.
- b) Maintenance of expensive equipments.

## 5. Evidence of Success

- a) Students have become more focused in their work.
- b) There is more precision in the practical work of students.
- c) Students get better grades in their practical working.
- d) Better hand-eye coordination in pre-clinical work.

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## **6. Problems Encountered and Resources Required**

More resources and infrastructure was required for Simulation lab set up. A separate area of simulation lab with centralized air conditioning, centralized demonstration tables with video cameras, live video streaming with individual TFT screens on each individual student desk, best typodonts with salivary simulation was set up. Not only the initial set up, also the maintenance cost of these equipments is very high. Though, the infrastructure of simulation lab is expensive, but the results seen in better psychomotor skills, precision working and practical understanding of students are quiet encouraging.