

Enhancing Faculty Teaching competency through Peer Interactions

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Veltech Dr.RR & Dr.SR University

(Estd. u/s 3 of UGC Act, 1956)

www.veltechuniv.edu.in



OBJECTIVES

*It's a **process**, not a program.....*

- ▶ To interact and explore innovative learning methods.
- ▶ To facilitate quality teaching and to augment student learning experience.
- ▶ To move beyond traditional classroom approaches.



BRAINWAVE

- ▶ Inspired by the presentation on “The Pedagogical developers initiative - Development, Implementation and lessons learned from a systematic approach to Faculty development” by Anders Berglund, Hans Havtun, Anna Jerbant in 12th International CDIO Conference Turku, Finland 2016.
- ▶ A forum for teachers to arrive solutions for the problems faced in the classrooms.
- ▶ **CDIO Standards**
 - Enhancement of Faculty CDIO Skills
 - Enhancement of Faculty Teaching Skills



TDI Forum

Dr.V.SURESH

- Thermodynamics

Mr.SHAIENDRA
KUMAR MISHRA

- Digital Signal Processing

DR.N.M.MASOODHU
BANU

- Communication Engineering



- Data Structures

Ms.K.RAJATHI

- Data Communications
and Computer Networks

VINOTH KUMAR. R

- Engineering Mathematics-I

Dr.VISWANATH. J

- Mechatronics

VEENISHMUTHU. V

Mr.SUBRAMANIAN.S

- Airplane performance &
Design

Dr. TUHIN PRADHAN

- Engineering Chemistry

Ms.PREVATHI

- Technical English



- Automobile Engineering

Mr.ARUNKUMAR. K

- Environmental engineering

DR.K.R.ASWIN
SIDHAARTH

- Material Science and
Metallurgy

Mr.ARUN PRASAD.M

Teaching Methods

Thermodynamics

• Experimental Learning

Digital Signal Processing

• Problem Based Learning

Communication Engineering

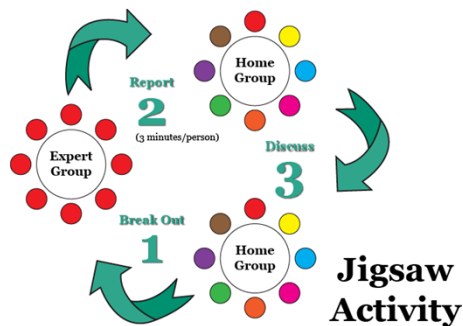
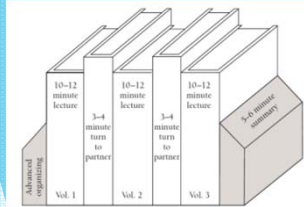
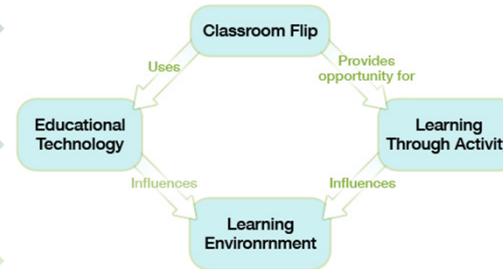
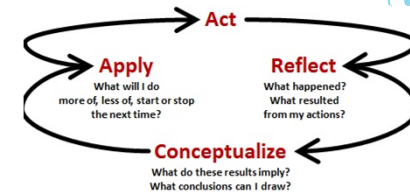
• Pogil Method

Data Structures

• Flipped Class room method

Data Communications & Computer Networks

• Bookends on a class Session



• Peers Involve and solve

Engineering Mathematics-I

• Segmented Learning Session

Airplane performance & Design

• Experiential Learning

Engineering Chemistry - I

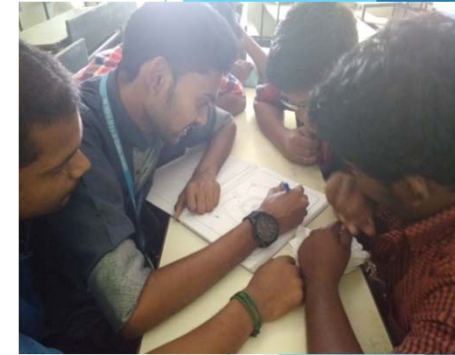
• Jig saw

Technical English

• Project Based Learning

Automobile Engineering

Classroom Implementation



BINGO... I've got Static Longitudinal Stability
Revision-Chapter 2 Static Longitudinal Stability
Time: 10:45-12:30 AM Date: 07-02-17

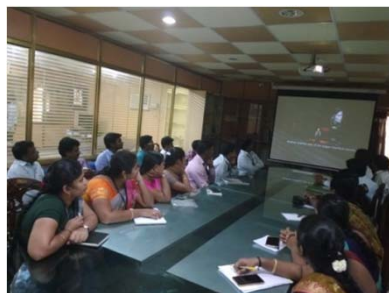
Concept Revision by playing BINGO

14	09	24	12	18	15
1	2	20	14	10	1
13	22	23	21	16	1
3	8	7	10	11	1
15	6	4	12	9	1

Name: K. Sathish
Vid: 5525

On a scale of 1-10 I enjoyed the class _____
On a scale of 1-10, I learned the concepts of Unit 2, _____

TDI Friday Meetings



25.06.2016

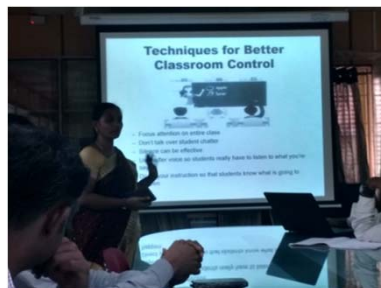
1

Brief
Introduction
about TDI

Presentation on
Course Outcome

2

1.7.2016



15.7.2016

3

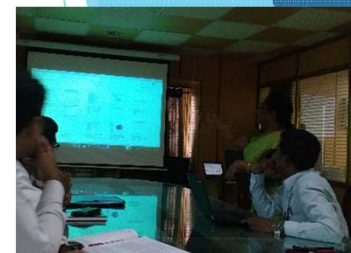
Presentation on
Teaching
Methodology



Discussed on
Teaching
learning Aids

4

22.7.2016



29.07.2017

&

05.08.2016

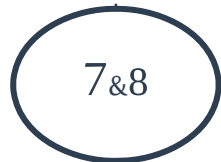
5&6

Discussed on
various assessment
methods

TDI Friday Meetings



12.08.2016
&
19.08.2016



Experimental
Learning
method with
Clickers

Pogil Method
& Peers
Involve and
solve method



26.8.2016
&
2.9.2016

09.09.2016
&
23.09.2016



Flipped Class room
method

Segmented
Learning
session &
Project based
Learning



30.09.2016
&
07.10.2016

13.10.2016



Jig Saw Method

Students @ TDI Meetings



STUDENTS @ Engineering Hive (Learning Spaces)



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TDI Day



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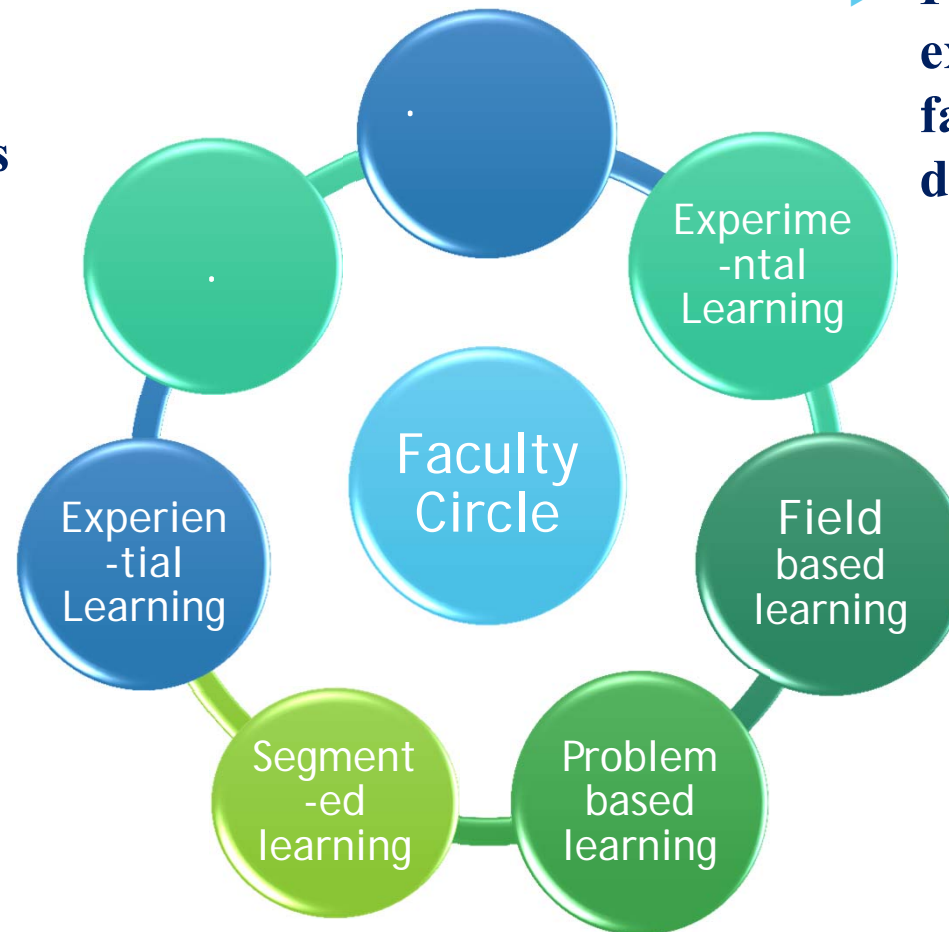


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Introducing Faculty Circle

- ▶ Each circle contains 5 members from different disciplines



- ▶ Faculty circle extends to 3 more faculty from each disciplines

Reflections



THE TIMES OF INDIA

THE TIMES OF INDIA, CHENNAI
SATURDAY, NOVEMBER 5, 2016

TIMES CITY

'Engineers, not engg grads, needed'

'Country Lags Behind In Edu Achievements'
TIMES NEWS NETWORK

Chennai: Stating that the country was only producing engineering graduates but not engineers, former Anna University vice-chancellor E Balagurusamy said teachers should create curiosity in classrooms and make students think as well as adapt to more innovative teaching methods.

Many teachers go about teaching without knowing the purpose of education. Literacy has been increasing in country but literacy doesn't mean education

E Balagurusamy
FORMER ANNA UNIVERSITY VC

adl. The Teaching Development Initiative (TDI) has been modelled to enhance teaching skills through peer learning for the present generation.

Many teachers, the former VC said, went about teaching without knowing the purpose of education. He claimed that Tamil Nadu and even the country as a whole lagged behind when it came to educational achievements compared to others.

"Literacy has been increasing in the country but literacy doesn't mean education. The purpose of education is to equip the youth with good

employability and entrepreneurial skills. Are we doing this," he questioned.

No country can progress if there is lack of creativity and innovation. This is where teachers can play a role. "If you want your students to think, you have to think first. Teachers should talk less and make students talk more. A good teacher doesn't have to depend on powerpoint presentations but can conduct a class without anything in the hand," he added.

"Teaching is a combination of will and skill. Just marks don't help make leaders. Qualities have to be de-

veloped in students," he said. TDI was introduced last semester on the campus with 15 faculty members interacting with peers to discuss different teaching methods and share their experiences.

Venishmathu V, a teacher of mechatronics, said that through simple experiments, his classes became more demonstrative in nature rather than just being theory based. His students, who developed an automatic soap bubble maker using mechanical engineering experiment, said that their sessions no longer felt like classes but fun practical exchanges.

The class was very useful and it was interactive. I really enjoyed your class mam. I never learnt English like this before. Thank you mam.

12/11/16 PS RAO
I enjoyed my visit to Veltech University after a gap of more than 12 years. It is really amazing to see the growth and development of the university in education and research. Faculty is highly motivated and committed and the students are equally motivated. It was excellent display of innovation in research as well as T/L processes. I must commend the management and faculty for their commitment and hard work in making the university what it is today. With best wishes
12/11/16

12/11/16 PS RAO
I am impressed by the innovative changes made in Pedagogy and research made in the campus since it became a university. The sharp focus that the faculty have developed on teaching outcome and learning to become utilitarian and relevant to the needs of Industry and Society deserves note and commendation. I wish the management and faculty the very best and hope that before long this university will figure in the lists of Forbes and the like.
12/11/16

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