



RAMCO INSTITUTE OF TECHNOLOGY

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NAAC Accredited and An ISO 9001:2015 Certified Institution

NBA Accredited UG Programs: CSE, EEE, ECE, MECH



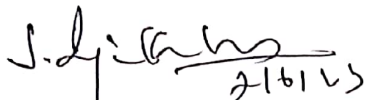
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07.06.2023

Appreciation Letter

We thank and appreciate **Prof. Helene Leong, Singapore Polytechnic's Education Consultant, Singapore & Co-Director of CDIO Council** for her exemplary efforts in the topic delivered "How do we re-design an existing curriculum with the CDIO framework?" on 06.06.2023, IST 02:30 PM [Singapore Time 05:00 PM, British Time: 10.00 AM] during the **Extramural Lecture Series (ELS)** organized by the Department of Mechanical Engineering, Ramco Institute of Technology (RIT), Tamil Nadu, India in association with RIT-IQAC (Internal Quality Assurance Cell) & RIT – ISTE (Indian Society for Technical Education) Faculty Chapter.

The feedbacks provided were above the Excellency. We would be glad if you contribute more in future and make us grow. We also wish you to grow more and get success in all your future endeavors.


Vice Principal




Principal

PRINCIPAL
Ramco Institute of Tech
Rajapalayam - 626 117.

North Venganallur, Ayyanarkovil Road, Rajapalayam - 626 117.
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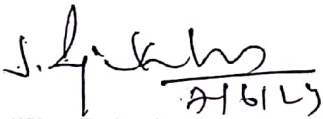


07.06.2023

Appreciation Letter

We thank and appreciate **Prof. Katerina Yang, Course Chair, Diploma in Chemical Engineering, School of Chemical and Life Sciences, Singapore Polytechnic, Singapore** for her exemplary efforts in the topic delivered "**How do we re-design an existing curriculum with the CDIO framework?**" on 06.06.2023, IST 02:30 PM [Singapore Time 05:00 PM, British Time: 10.00 AM] during the **Extramural Lecture Series (ELS)** organized by the Department of Mechanical Engineering, Ramco Institute of Technology (RIT), Tamil Nadu, India in association with RIT-IQAC (Internal Quality Assurance Cell) & RIT – ISTE (Indian Society for Technical Education) Faculty Chapter.

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Academic Year 2022 – 2023 (Even Semester)

Department of Mechanical Engineering, RIT IQAC & RIT – ISTE Faculty Chapter
Extra Mural Lecture Series – INT 11

Sl. No.	Contents	Details
01.	Title of the programme	“How Do We Re-Design An Existing Curriculum with the CDIO Framework”
02.	Programme Theme	Curriculum Design / CDIO framework
03.	Programme Type	Online lecture about re-design an existing curriculum with the CDIO framework.
04.	Details of resource person	1.Prof. Helene Leong Co-Director, Conceive Design Implement Operate (CDIO) Council, Singapore Polytechnic Education Consultant 2. Prof. Katerina Yang Course Chair, School of Chemical and Life Sciences Singapore Polytechnic, Singapore
05.	Mode & Venue / Platform	Google Meet / http://meet.google.com/sfc-jeff-xf
06.	Date & Duration	06.06.2023 (Tuesday) IST: 02.30 P.M / SGT:05.00 P.M / BST:10.00 A.M
07.	No. of Student Participants	58
08.	No. of Faculty Participants	67
09.	No. of External Participants	Nil
10.	Expenditure amount (if any)	NA
11.	Social Media URL	Nil
12.	Video URL (if any)	Nil

13. Objective of the Programme:

Discussion about

Form No. CO10
08.12.2020

Rev.No. 00

Effective Date: *Page 1 of 6*

- i) CDIO and its implementation
- ii) Benefits of CDIO
- iii) "How Do We Re-Design An Existing Curriculum with the CDIO Framework"

14. Detail description of the activity:

Dr.L.Ganesan, Principal – RIT welcomed both the resource persons.

Prof. Helene Leong was the Director of Singapore Polytechnic's Department of Educational Development from 2013 to 2023. As the Director of EDU, she and her team led the conceptualization and implementation of educational initiatives like CDIO, flipped learning, learning express, and the adoption of learning analytics in the polytechnic. She is currently designated as Singapore Polytechnic's Education Consultant.

Helene has been involved in CDIO since 2004. She led the implementation of CDIO in SP and has contributed papers and conducted workshops at the CDIO conferences since 2005. She is currently the co-chair of the CDIO council (2018-2023) and was the past co-chair of the Asian region (2011-2022). She has given talks and shared CDIO with numerous deans and faculty from the Asia region. These include universities and polytechnics in Singapore, Malaysia, Thailand, Vietnam, Indonesia, India, Mongolia, Philippines, and Japan.

Prof. Katerina Yang is the Course Chair for the Diploma in Chemical Engineering, School of Chemical and Life Sciences, Singapore Polytechnic. She leads the curriculum review for the diploma programme, which will adopt the spiral curriculum model. She has more than 15 years of training experience, with more than 10 years of experience in the adoption and implementation of the CDIO Framework for curriculum design and development as well as programme evaluation.

Prof. Helene Leong discussed the followings: 1) Background to CDIO – why was it initiated? 2) Why do universities want to adopt CDIO? 3) CDIO syllabus and standards 4) Example of application of framework in Singapore Polytechnic.

Activity: Small group discussion

In what ways are you improving engineering education in your own programs?

What are the major barriers to reform in your programs?

Do you think these barriers are common around the world or unique to your program?

Dr.L.Ganesan, Principal RIT reflected the answers for the question.

Prof. Katerina Yang discussed the followings:

How to teach? Use CDIO standards

- i) Curriculum (Standard 1 to 5)

- ii) Workspace/Labs (Standard 6)
- iii) Teaching and Learning Methods (Standard 7 and 8)
- iv) Enhancement of Faculty Competence (Standard 9 and 10)
- v) Assessment Methods (Standard 11 and 12)
- vi) Spiral curriculum for Diploma in Chemical Engineering

Ended the session with reflection and sharing

1. How would you explain the goals and vision of the CDIO approach to engineering education to a colleague who is not here today?
2. To what extent can the content and structure of the CDIO syllabus be adapted to your program?
3. What are the best ways of engaging your program's stakeholders in determining appropriate objectives and outcomes?

The faculty members and student members were actively interacted with the resource person.

Dr.S.Rajakarunakaran, Vice Principal – RIT delivered the vote of thanks to the resource person, management of RIT, student and faculty members of participants.

15. Banner / flyer of the programme:



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 Rajapalayam, Virudhunagar District, Tamil Nadu, India
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 Department of Mechanical Engineering, RIT - IQAC & RIT ISTE Chapter
 EXTRAMURAL LECTURE SERIES(ELS) - INT011

"HOW DO WE RE-DESIGN AN EXISTING CURRICULUM WITH THE CDIO FRAMEWORK"



Helene Leong
 Co-Director
 Conceive Design Implement Operate (CDIO) Council
 Singapore Polytechnic Education Consultant



Katerina Yang
 Course Chair
 School of Chemical and Life Sciences
 Singapore Polytechnic

VENUE : GOOGLE MEET
<http://meet.google.com/vbn-dizu-zkh>

Date : JUNE 06, 2023, (TUESDAY)
IST: 02.30 P.M / SGT:05.00 P.M / BST:10.00 A.M

COORDINATORS V.SIVAKUMAR J.JEROLD JOHN BRITTO	CONVENER P.SURESH KUMAR	PATRON PROF. S.RAJAKARUNAKARAN VICE PRINCIPAL	CHIEF PATRON Dr.L.GANESAN PRINCIPAL / RIT
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16. Programme Photographs:

Form No. CO10
08.12.2020

Rev.No. 00

Effective Date:

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sfc-jeff-xf (2023-06-06 14:25 GMT+5:30)

HOW DO WE RE-DESIGN AN EXISTING CURRICULUM WITH THE CDIO FRAMEWORK?

Helene Leong
SP's Education Consultant (Singapore Polytechnic) &
Co-Director, CDIO Council, CDIO Workforce Initiative

Katerina Yang
Course Chair, Diploma in Chemical Engineering
Singapore Polytechnic

SP Singapore Polytechnic

6:52 / 1:37:00

Prof. Helene Leong, Co-Director, Conceive Design Implement Operate (CDIO) Council, Singapore Polytechnic Education Consultant delivered the CDIO content in ELS – INT 11

sfc-jeff-xf (2023-06-06 14:25 GMT+5:30)

REFLECTION AND SHARING

1. How would you explain the goals and vision of the CDIO approach to engineering education to a colleague who is not here today?
2. To what extent can the content and structure of the CDIO Syllabus be adapted to your program?
3. What are the best ways of engaging your program's stakeholders in determining appropriate objectives and outcomes?

cdio

SP Singapore Polytechnic

1:33:09 / 1:37:00

Prof. Katerina Yang, Course Chair, School of Chemical and Life Sciences Singapore Polytechnic, Singapore presented her views about re-design the curriculum in ELS – INT 11

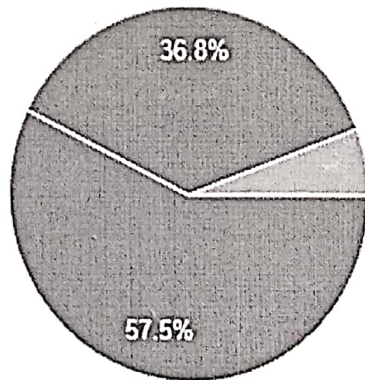
Feedback about the programme:

The webinar provided me with valuable information regarding theme.

Form No. CO10
08.12.2020

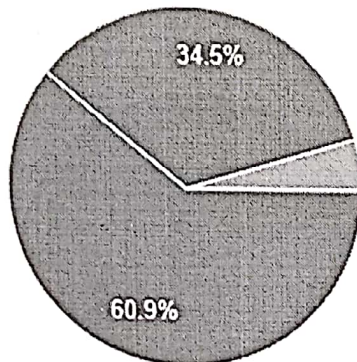
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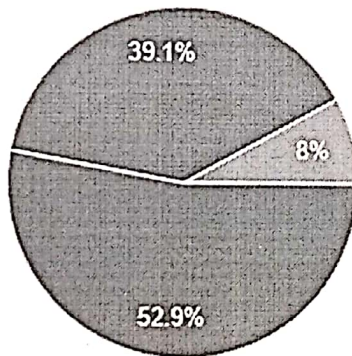
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The content delivered by resource persons was useful.



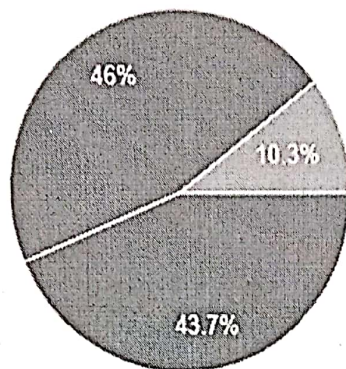
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

The technological support was strong enough to execute webinar smoothly.



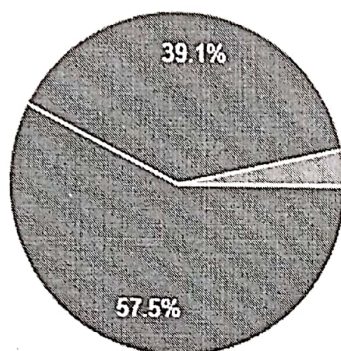
- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree

To what extent you have improved your knowledge / skills after attending the programme?



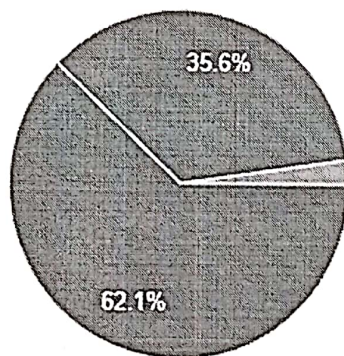
- 85 - 95%
- 75 - 85%
- 50 - 75%
- 25 - 50%

How do you rate the timely communication in all aspects of the programme?



- Very Good
- Good
- Satisfactory
- Poor

Overall Feedback for the online lecture



- Very Good
- Good
- Satisfactory
- Poor

Prepared by *[Signature]*
21/06/23

[Signature]
Approved by
27/6/23



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RIT - IQAC & Department of Mechanical Engineering

EXTRAMURAL LECTURE SERIES(ELS) - INT011

“HOW DO WE RE-DESIGN AN EXISTING CURRICULUM WITH THE CDIO FRAMEWORK”



Helene Leong

Singapore Polytechnic Education Consultant
Co-Director, CDIO Council

Date :JUNE 06, 2023

(TUESDAY)

IST: 02.30 P.M

SGT:05.00 P.M

BST:10.00 A.M



VENUE : GOOGLE MEET

<http://meet.google.com/vbn-dizu-zkh>



Katerina Yang

Course Chair
School of Chemical and Life Sciences
Singapore Polytechnic

COORDINATORS

V.SIVAKUMAR

THEODORE JOHN BRITTO

CONVENER

P.SURESHKUMAR

PATRON

PROF. S.RAJAKARUNAKARAN

VICE PRINCIPAL

CHIEF PATRON

Dr.L.GANESAN

PRINCIPAL / CEO



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