



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Academic Year 2021 – 2022 (Odd Semester)

Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Industry 4.0: Digital Transformation in Manufacturing Industry
02.	Programme Theme	Research opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Prof. Yusri Yusof Principal Researcher Advanced Manufacturing and Materials Centre (AMMC) Universiti Tun Hussein Onn Malaysia Malaysia
05.	Mode & Venue / Platform	Google Meet & YouTube
06.	Date & Duration	24.01.2022 & 1 hour 30 minutes
07.	No. of Student Participants	26
08.	No. of Faculty Participants	13
09.	No. of External Participants	28
10.	Expenditure amount (if any)	NIL
11.	Social Media URL	https://youtu.be/VuSg_Zq6iMU
12.	Video URL (if any)	https://youtu.be/VuSg_Zq6iMU

13. Objective of the Programme:

- To impart knowledge on cutting edge technologies (Industry 4.0: Digital Transformation in Manufacturing Industry) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

14. Detail description of the activity:

Extramural Lecture Series on the topic "**Industry 4.0: Digital Transformation in Manufacturing Industry**" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 24.01.2022. The main objective of these ELS is to impart knowledge about cutting edge technologies related to industry 4.0. The Resource Person was Prof. Yusri Yusof, Principal Researcher, Advanced Manufacturing and Materials Centre (AMMC), Universiti Tun Hussein Onn Malaysia, Malaysia.

Prof. Yusri Yusof gave a brief introduction about his university Universiti Tun Hussein Onn Malaysia, Malaysia and the department facilities he is associated with. He started his presentation with the difference between a traditional product and a modern digitalized product followed by how the digitalization helped in improving the quality of the product. He then explained how the modern business (service sectors) dominates the market without owning major tangible assets. The various phases of industrial revolution were briefed by the resource person, followed by the digital transformation and its benefits. The life cycle of digital business transformation along with the framework model was narrated by the professor.

Towards the second half of the session, Professor shared the experience they faced in industry 4.0 digitalization. He shared the experience with a case study of developing a CNC machine using retrofit concept. He finally completed the session by sharing the outcome of the designed and developed CNC machine.

The vote of thanks was delivered by Dr.S.Godwin Barnabas, ASP/Mechanical, RIT. The total no. of participants presented in the webinar was 67. The entire sessions were interactive where faculties raised their doubts and a precise explanation was given by the resource person. The overall feedback of the program was good. Finally, the participants were distributed with the e-certificates after filling the feedback form.

15. Banner / flyer of the programme:



RAMCO INSTITUTE OF TECHNOLOGY
North vengannallur Village, Rajapalayam - 626 117
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ISO 9001:2015 Certified Institution
Department of Mechanical Engineering

EXTRAMURAL LECTURE SERIES(ELS) - INT005
**INDUSTRY 4.0 : DIGITAL TRANSFORMATION IN MANUFACTURING
INDUSTRY**

Academic & Research
Credentials





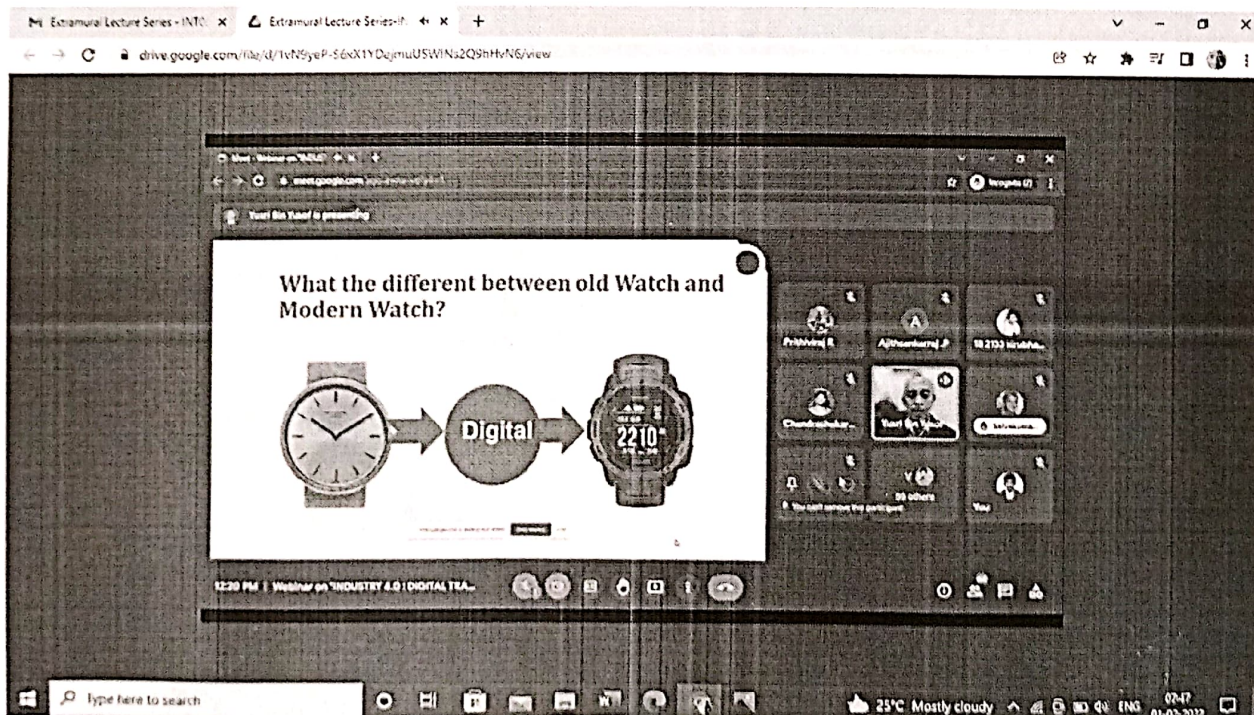
Date :January 24, 2022
(Monday)
IST: 12.00 P.M.
Malaysia Time: 2.30 P.M.

Prof Dr Yusri Yusof
Principal Researcher
Advanced Manufacturing and Materials Centre (AMMC)
Universiti Tun Hussein Onn Malaysia (UTHM),
MALAYSIA

Registration Link : <https://tinyurl.com/Industry-Digital-Manuf>

COORDINATOR Dr.V.SIVAKUMAR ASSOC. PROF/MECH	CONVENER Dr.P.SURESHKUMAR ASSOC. PROF/MECH	PATRON Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL & HEAD /MECH	CHIEF PATRON Dr.L.GANESAN PRINCIPAL
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16. Programme Photographs:



Entominal Lecture Series - 2020

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07:49

08-12-2020

BUSINESS MODELS

The world's largest taxi company owns **NO VEHICLES**

The world's most popular media company creates **NO CONTENT**

The world's most valuable retail company has **NO INVENTORY**

The world's largest accommodation provider owns **NO REAL ESTATE**

Entominal Lecture Series - 2020

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Innovation Solution Suggestion

Current Issues	Solution: Future of Innovation
Protective Intellectual Properties (IP) from manufacturer	Open system and open software, reduce CNC largest reliance
Limited converter module for the modification or retrofitting activities	Standardize hardware and software and Dedicated user-friendly software - simple but sufficient to use
Phase of failures related to automation CNC Machine	Rebuild the machine controller with new technology (JOCOC) saving 75-80%
No connectivity and digitalize for legacy systems	Upgrading & reskilling for digitalization and in-house training program

Prepared by:

Form No. CO10

Rev.No. 00

Approved by:

Effective Date: 08.12.2020

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Department of Mechanical Engineering

EXTRAMURAL LECTURE SERIES(ELS) - INTO05

INDUSTRY 4.0 : DIGITAL TRANSFORMATION IN MANUFACTURING INDUSTRY

Academic & Research
Credentials



Prof Dr Yusri Yusof

Principal Researcher
Advanced Manufacturing and Materials Centre (AMMC)
Universiti Tun Hussein Onn Malaysia (UTHM),
MALAYSIA

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