



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S
RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



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**DEPARTMENT OF MECHANICAL ENGINEERING
INTERNATIONAL ALUMNI LECTURE SERIES**

29 June 2020 to 03 July 2020



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INSTITUTION'S
INNOVATION
COUNCIL
University of the South

DEPARTMENT OF MECHANICAL ENGINEERING ORGANIZES

INTERNATIONAL ALUMNI LECTURE SERIES

Batch
(2004-2008)



Mr. Ashwin Narayan,
Control Room Engineer,
Alzour O&M Kuwait (Engine),
Alzour, Kuwait.

Title :
An Overview Of Combined Cycle
Power Plant And Multiple Effect
Desalination

29 June 2020
03.00 pm to 04.00 pm

Batch
(2012-2016)



Mr. Narahasetti Prabhu Rayudu,
Project Manager Assistant,
Enso Group Ltd,
Clevedon, Bristol, United Kingdom.

Title :
Maintenance Development and
Predictions

30 June 2020
03.00 pm to 04.00 pm

Batch
(2012-2016)



Mr. Jai Ganesh R,
Manager Projects,
Star Trace Pvt. Ltd,
Maadi, Cairo Governorate, Egypt.

Title :
Role of Engineers In Mining
Sector

01 July 2020
03.00 pm to 04.00 pm

Batch
(2012-2016)



Ms. Haripriya Ganesh,
Software Engineer,
Insystech, Pender Drive, Fairfax,
VA, USA.

Title :
Higher Studies in Abroad

02 July 2020
03.00 pm to 04.00 pm

Batch
(2002-2006)



Mr. Lokesh Babu GR,
Country Head – Australia,
Optimum Solutions,
Singapore.

Title :
What's next? Higher Studies,
Entrepreneurship, Life abroad &
Innovation and more.

03 July 2020
03.00 pm to 04.00 pm

Speakers

**29 June 2020 to
03 July 2020
03.00 pm to 04.00 pm**

Convener:
Mr. S. Sathiyaraj, AP/Mech,
Department Alumni Coordinator, AVIT.

Co-ordinators:
Mr. G. Antony Casmir
Jayaseelan, AP/Mech, AVIT.
Mr. A. Imthiyas, AP/Mech, AVIT.

For any queries Contact @
9003085497
mechevents@avit.ac.in



Online
Registration

<https://forms.gle/AdKpyAc5a775dBRX7>



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Webinar Brochure



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INTERNATIONAL ALUMNI LECTURE SERIES

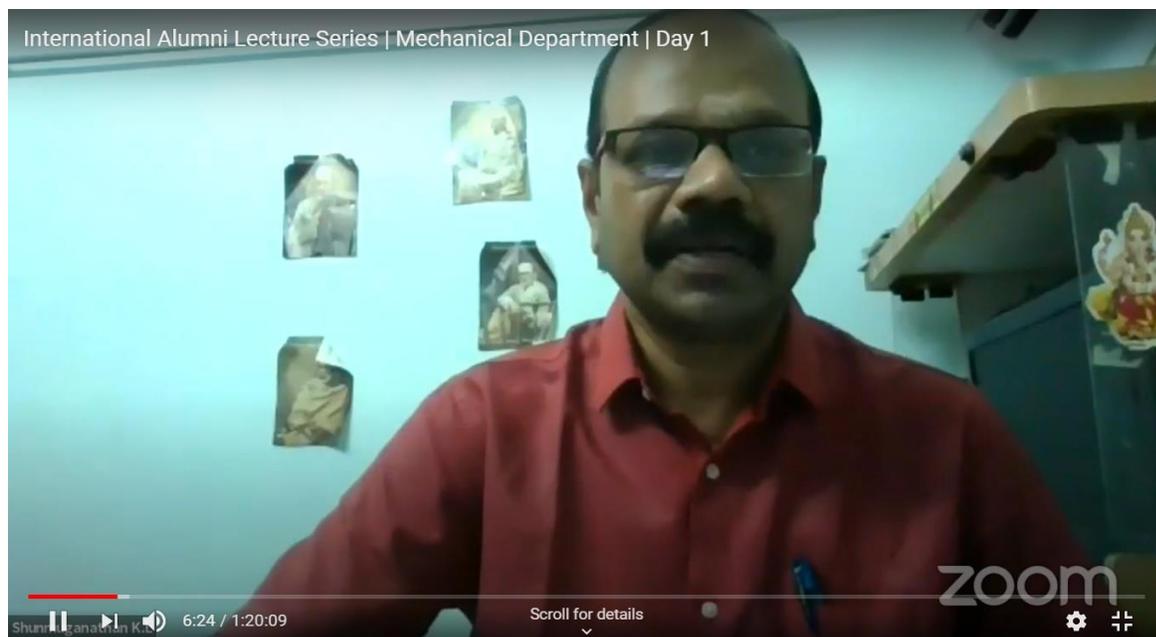
Day 1 : 29.06.2020, Time : 03:00 PM to 04:00 PM

Session I-An Overview of Combined Cycle Power Plant And Multiple Effect Desalination

Speaker : Mr.Ashwin Narayan, Control Room Engineer, Alzour O&M Kuwait, Alzour, Kuwait.

Batch : 2004 - 2008

The Department of Mechanical Engineering, Aarupadai Veedu Institute of Technology has organized an International Alumni Lecture Series from 29 June 2020 to 03 July 2020. The first day of the an International Alumni Lecture Series programme commenced with an Inaugural session by Prof. L. Prabhu, Head, Department of Mechanical Engineering, delivered a Welcome address & Overview of International Alumni Lecture series. Dr. K. L. Shunmuganathan, Principal, AVIT delivered an inaugural address and Mr. S. Sathiyaraj, Asst. Prof-II / Mech & Department Alumni Coordinator introduced the speaker to the participants. Mr.Ashwin Narayan Shared his knowledge on combined cycle, Basics of Brayton and Rankine cycle, Rankine cycle PV and TS diagram, Thermodynamics applied in combined cycle power plant, Steam Turbine, Heat Recovery Steam Generators, Multiple Effect Desalination, Multiple Effect Distillers and what after B.E.Mechanical?. There are more than 130 participants from AVIT and other colleges in ZOOM and YouTube live. At the end of the session question were raised by the participants in chat box, all the question were clarified by the Speaker. The feedback was collected at the end of the session and E-certificates were provided to all participants. The session was concluded with a vote of Thanks by Mr.S.Sathiyaraj,Asst.Prof-II,Mechanical Engineering,AVIT.



What are we going to discuss ?

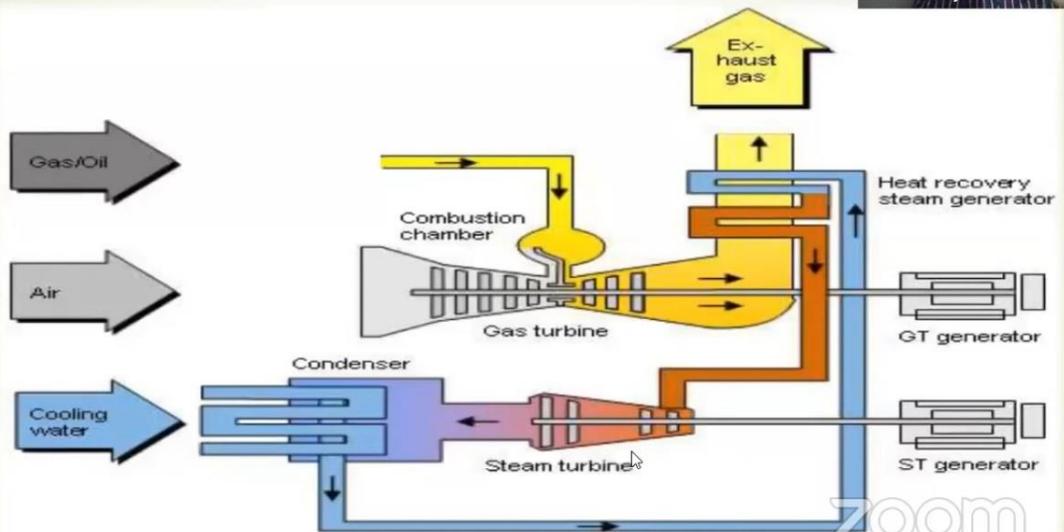
Ashwin Naray...

- What is a combined cycle ?
- Basics of Brayton and Rankine Cycle
- How we can use a power plant to make desalinated water from sea ?
- What are the scope and avenues after your BE Mechanical Engineering ?

zoom

A SIMPLE ILLUSTRATION

Ashwin Naray...





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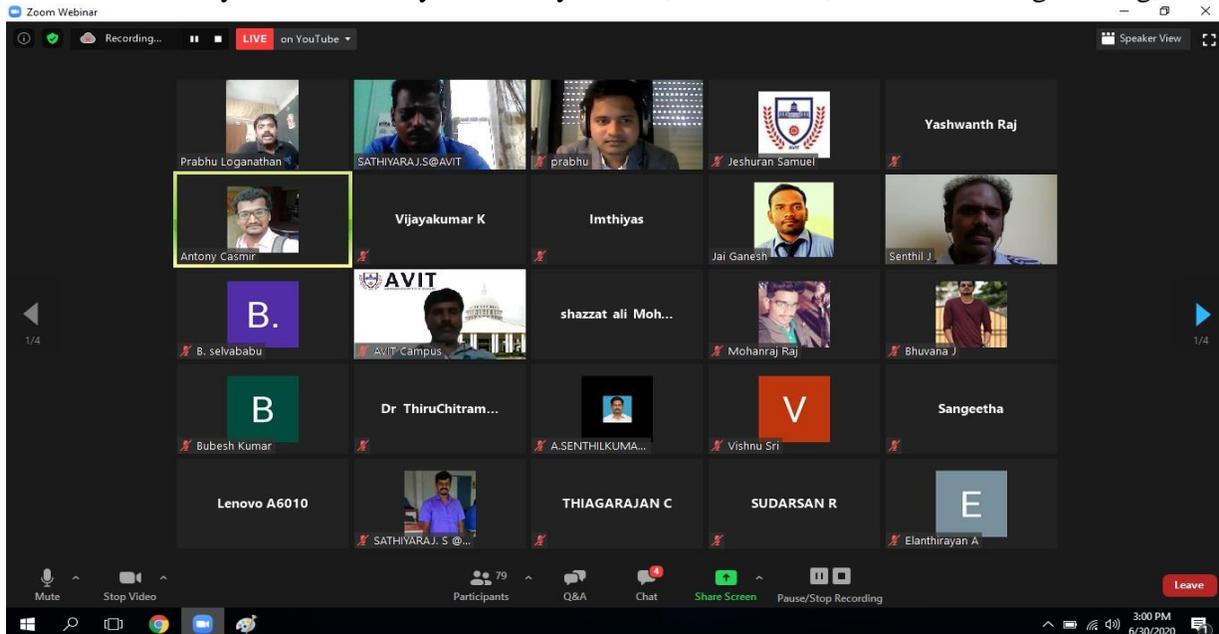
DEPARTMENT OF MECHANICAL ENGINEERING INTERNATIONAL ALUMNI LECTURE SERIES

Day 2 : 30.06.2020, Time : 03:00 PM to 04:00 PM

Session II - Maintenance Development and Predictions

Speaker : Mr. Naraharisetti Prabhu Rayudu, Project Manager Assistant ,Enso Group Ltd,
Clevedon, Bristol, UK
Batch : 2012 – 2016

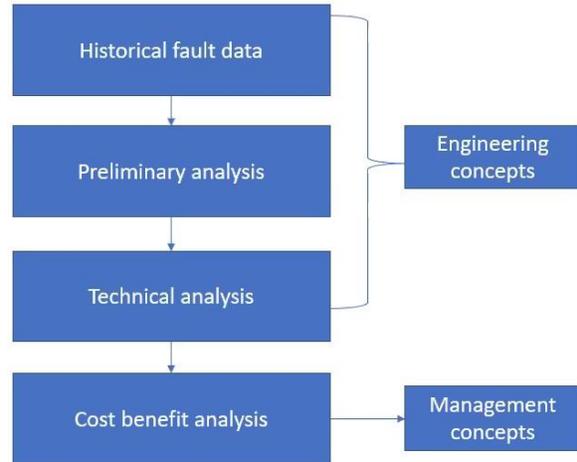
The Second day of the International Alumni Lecture Series session was started and Welcome Address was delivered by Prof. L. Prabhu, Head, Department of Mechanical Engineering. A Presidential address given by Prof. P. Rajasekaran, Vice Principal - Administration, AVIT and Introduction of the Chief Guest was given by Mr. G. Antony Camir Jayaseelan, Asst. Prof-II, AVIT. The Speaker delivered more informative lecture with many illustrations. The duo speakers elaborated the Light weight Transmission Design through Multi objective optimizations and digital twins, Vibration Analysis of identification of detachments ,Suspension analysis, Brake pad maintenance scheduling, Cost of benefit analysis, Twin builder virtual model, Master in Italy and best portals to find the job. There are more than 150 participants from AVIT and other colleges in ZOOM and YouTube live. At the end of the session question were raised by the participants in chat box, all the question were clarified by the Speaker. The feedback was collected at the end of the session and E-certificates were provided to all participants. The session was concluded with a vote of Thanks by Mr. G. Antony Camir Jayaseelan,Asst.Prof-II, Mechanical Engineering,AVIT.





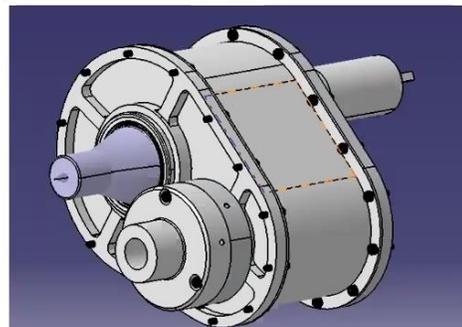
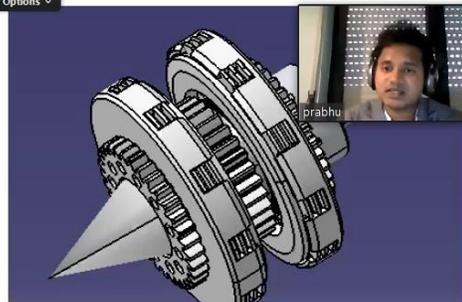
Previous experiences related to lecture concept

- Analysis of entire fleet maintenance.
- Prediction of faults in the Engine, Suspensions, Brakes.
- Optimization of the transport routes for saving fuel.
- Maintenance plan development.
- Cost benefit analysis.



Present work

- Substituting the steel gear with light weight composition gears.
- Material load carrying capacity estimation.
- Material specific damage mechanisms study.





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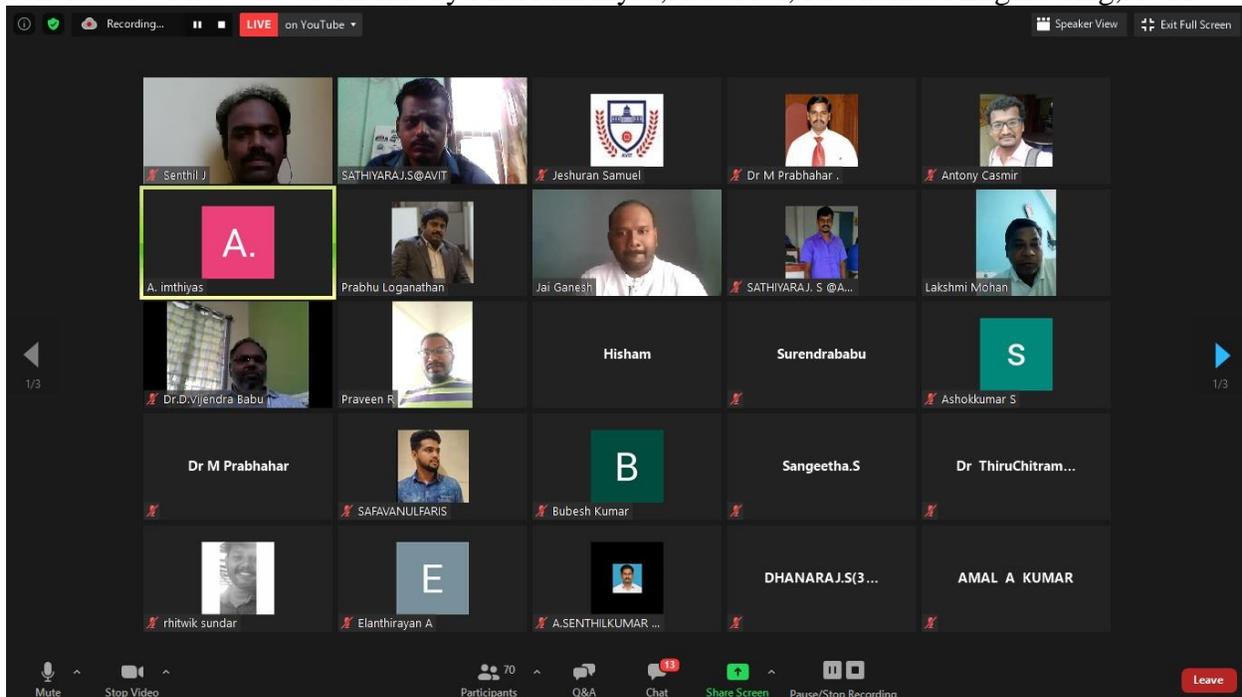
Day 3 : 01.07.2020, Time : 03:00 PM to 04:00 PM

Session III-Role of Engineers In Mining Sector

**Speaker : Mr.Jai Ganesh R, Manager Projects,Star Trace Pvt. Ltd,
Maadi,CairoGovernorate,Egypt**

Batch : 2012 - 2016

The Third day of the International Alumni Lecture Series session was started and Welcome Address was delivered by Dr.M.Prabhakar,Professor, Department of Mechanical Engineering. A Presidential address given by Dr. D. Vijendra Babu, Vice Principal - Part Time Studies, AVIT and Special Address given by Mr.Lakshmi Mohan,Head,Centre for industry Relations,AVIT. Introduction of the Chief Guest was given by Mr.A.Imthiyas, Asst. Prof. / Mech, AVIT. The Speaker explained about the Basics of mining, Machines used in mining, Working of cone crusher, Recent developments to convert waste to wealth, Product found in copper ORE, Role of an Engineer and Scope in mining industry. There are more than 150 participants from AVIT and other colleges in ZOOM and YouTube live. At the end of the session questions were raised by the participants in chat box, all the questions were clarified by the Speaker. The feedback was collected at the end of the session and E-certificates were provided to all participants. The session was concluded with a vote of Thanks by Mr.A.Imthiyas,Asst.Prof, Mechanical Engineering,AVIT



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MINING

- The Process of Extracting minerals, metals etc. from the **Ore** under the ground.
- **ORE:** Ore is any natural rock or sediment that contains one or more minerals, typically metals.



A COPPER ORE (KHETRI COPPER COMPLEX, RAJASTHAN, INDIA)
CHALCOPYRITE.

Unmute Start Video Participants 106 Q&A Chat 22 Share Screen Pause/Stop Recording Leave

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ROLE OF AN ENGINEER.

- DESIGN AND INSTALLATION OF EQUIPMENTS.
- CIVIL ENGINEERS IN UNDERGROUND MINING
- ELECTRICAL ENGINEERS FOR POWER TRANSMISSION.
- MAINTENANCE OF MACHINES.
- OPERATION & MAINTENANCE OF ALL EQUIPMENTS USED IN PROCESSING SUCH AS PUMPS, BALL MILLS, THICKENERS, SEPARATORS, CRUSHERS AND MANY MORE.
- HANDLING WORKSHOP.
- LABOUR MANAGEMENT.
- ENSURE HEALTH AND SAFETY.

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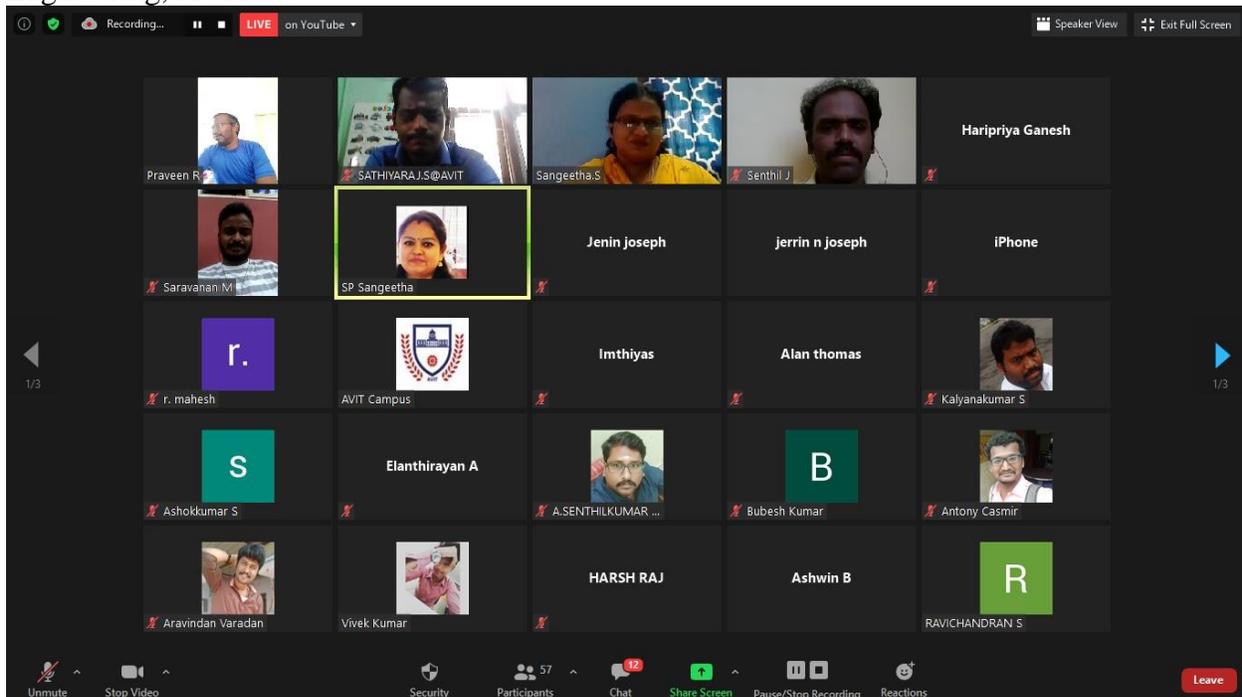
Day 4 : 02.07.2020, Time : 03:00 PM to 04:00 PM

Session IV- Higher Studies Abroad

Speaker : Ms.Haripriya Ganesh, Software Engineer, Insystech, Pender Drive, Fairfax, VA, USA.

Batch : 2012 - 2016

The Fourth day of the International Alumni Lecture Series Session was started and Welcome Address was delivered by Dr.S.Sangeetha, Associate Professor, Department of Mechanical Engineering. A Presidential address given by Dr. S. P. Sangeetha, Vice Principal - Academics, AVIT .Introduction of the Chief Guest was given by Mr.R.Praveen, Asst. Prof-II. / Mech, AVIT. The Speaker share knowledge about the Benefits of higher studies in abroad,How to choose program and identify the college, selection criteria of the college, Sources to collecting information , Application process sample, and parallel track activities. There are more than 150 participants from AVIT and other colleges in ZOOM and YouTube live. At the end of the session question were raised by the participants in chat box, all the question were clarified by the Speaker. The feedback was collected at the end of the session and E-certificates were provided to all participants. The session was concluded with a vote of Thanks by Mr.R.Praveen,Asst.Prof-II, Mechanical Engineering, AVIT



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You are viewing Haripriya Ganesh's screen

Why Abroad?

Haripriya Ganesh

- Learn about yourself and your passion
- Enhance your value
- Enhance the value of your degree
- Multi-Specialization
- Learn a new Language
- Learn about a new Culture
- Over all, Learn about broader prospective of your selected field around the world

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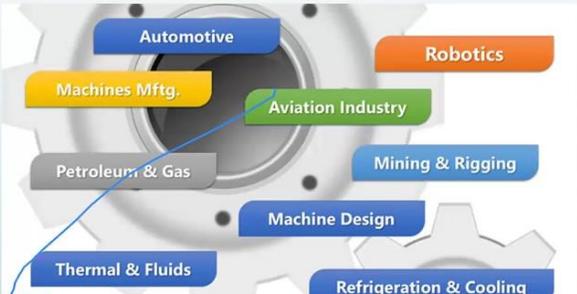
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Where to Start

Haripriya Ganesh

- Analyze your passion and field/specialization you wanted to pursue
- Choose the Program/Degree
- Identify list of Colleges that holds the program/degree



The diagram shows a central gear with several colored boxes representing different engineering fields: Automotive (blue), Robotics (orange), Machines Mftg. (yellow), Aviation Industry (green), Petroleum & Gas (grey), Mining & Rigging (blue), Machine Design (blue), Thermal & Fluids (blue), and Refrigeration & Cooling (blue). A blue line points from the text 'Identify list of Colleges that holds the program/degree' to the 'Aviation Industry' box.

Unmute Start Video Security Participants 93 Chat 24 Share Screen Pause/Stop Recording Reactions Leave



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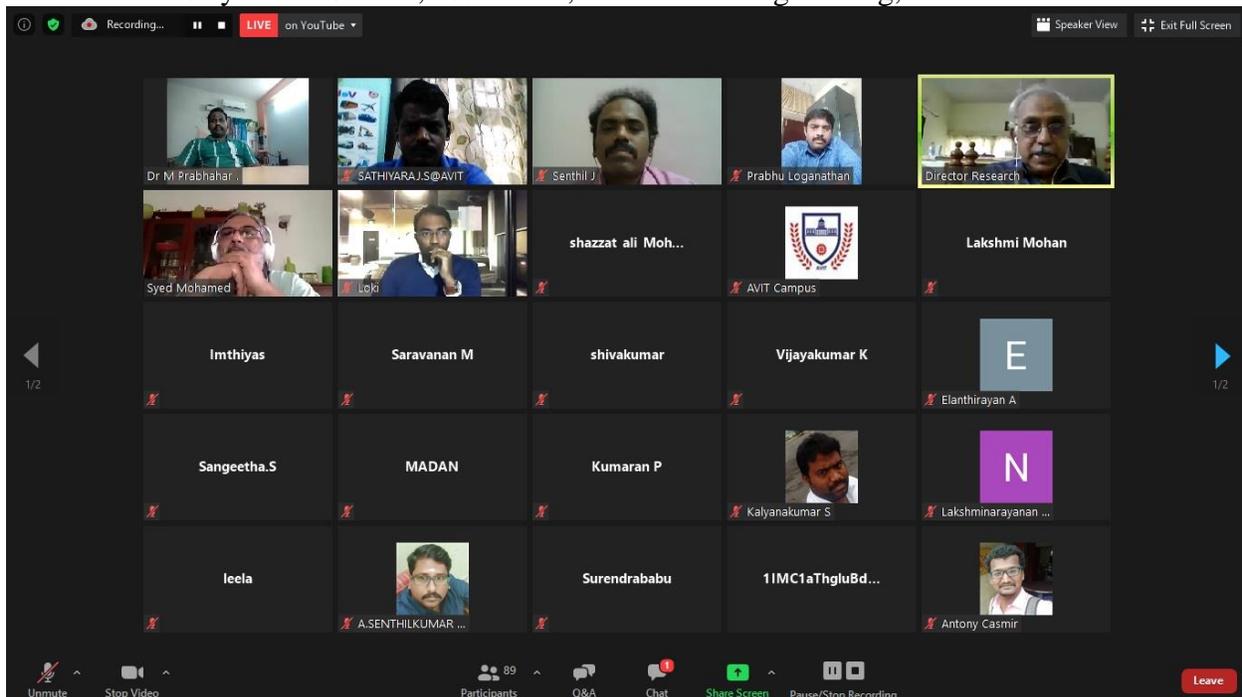
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Day 5 : 03.07.2020, Time : 03:00 PM to 04:00 PM

Session V-What's next? Higher Studies, Entrepreneurship, Life abroad & Innovation and more.

**Speaker : Mr.LokeshBabu GR, Country Head – Australia, Optimum Solutions, Singapore.
Batch : 2002-2006**

The Fifth day of the International Alumni Lecture Series session was started by Prof.J.Senthil and Welcome Address was delivered by Prof. L. Prabhu, Head& VP (Admin) Department of Mechanical Engineering. A Presidential presented by Dr.S.A.V. Satyamurthy, Director Research, VMRF DU and Special Address given by Mr. Syed Mohammed, Director, International Affairs,VMRF DU. .Introduction of the Chief Guest was given by Dr.M.Prabahar Assoc. Prof/Mech,AVIT. The Speaker explained about the Venn diagram career choice analysis, Youth unemployment rate in India, Higher studies in India or abroad, Business vs Entrepreneur, Design Thinking,. There are more than 150 participants from AVIT and other colleges in ZOOM and YouTube live. At the end of the session question were raised by the participants in chat box, all the question were clarified by the Speaker. The quiz competition was conducted to participants and Winners awarded with a cash prizes of 1st place RS3001, 2nd place Rs2001 and 3rd Place RS1001 Sponsored by Mr.Lokesh Babu GR (Alumni) The feedback was collected at the end of the session and E-certificates were provided to all participants. The session was concluded with a vote of Thanks by Prof.J.Senthil,Assoc.Prof, Mechanical Engineering,AVIT



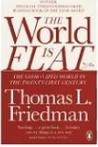
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Work--Job

Is it relevant?

The estimated youth unemployment rate in India was at 10.51%.

01 Cross the border or not
The Global Indian.
The world is flat by Thomas L. Friedman.



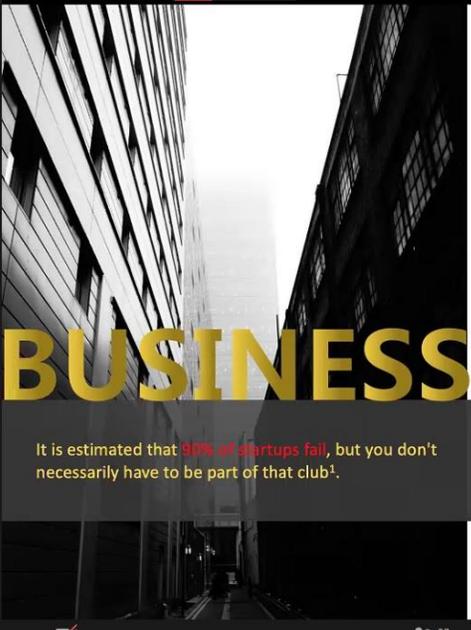
02 Life | People | Exposure
Learn to build a home away from home. 14 Countries.

03 Monetary benefits
Uplift the community

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Entrepreneur Vs.



01 Social Entrepreneurship
It is all about recognizing the social problems and achieving a social change by employing entrepreneurial principles, processes and operations. Ex.

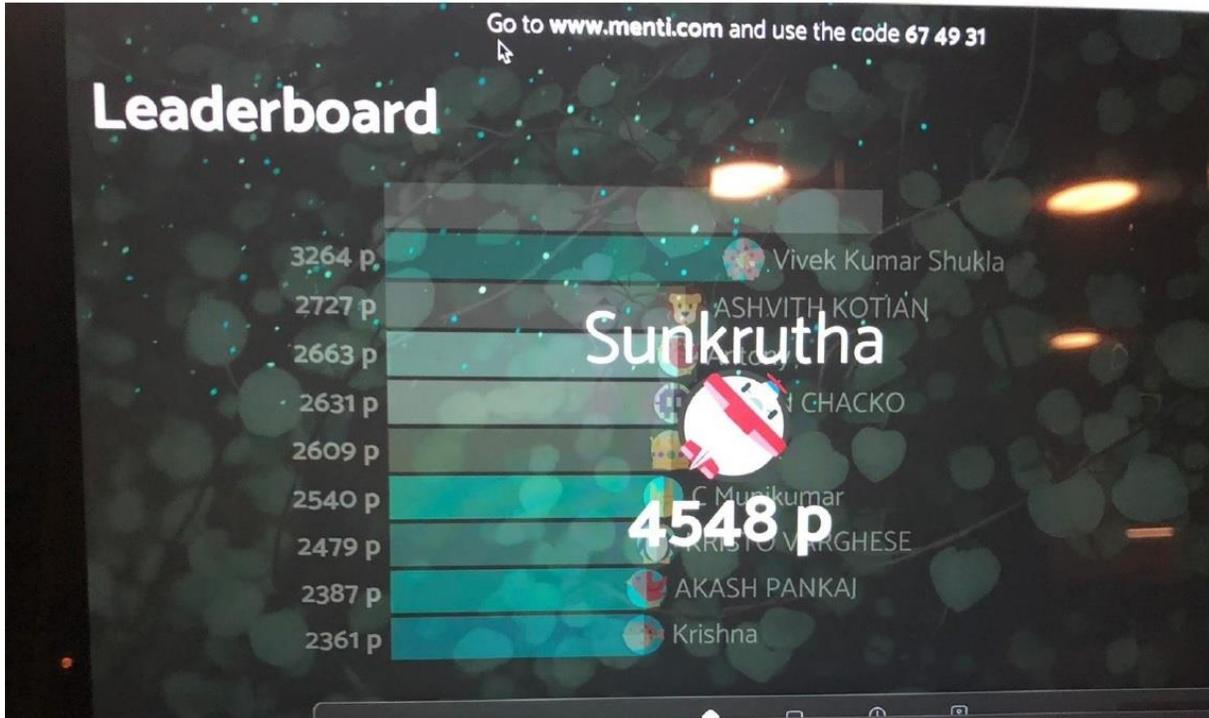
02 Intrapreneur
Corporate venturing or Corporate Entrepreneurship
80% chances of Success as per research².

03 Creativity & Innovation
Design thinking | 6 Thinking hats | More

It is estimated that 90% of startups fail, but you don't necessarily have to be part of that club¹.

1 - Times of India
2 - Jilangtao and. Haowei, 2012

Unmute Start Video Participants 93 Q&A Chat 3 Share Screen Pause/Stop Recording Leave



Convener

Mr.S.Sathiyaraj
Asst.Prof/Mech
AVIT

Co-ordinators

Mr. G. Antony Camir
Jayaseelan
Mr.A.Imthiyas
Asst.Prof/Mech
AVIT

HOD

Prof.L.Prabhu