

FRAMEWORK :

CONTENT : The Layout of the Course Structure

NOTES : Detailed explanation of every slide having a specific topic.

RESOURCES : Link to various articles, reports, you tube video etc for reference.

COURSE STRUCTURE :

- Primer : A quiz reflecting your existing knowledge, along with answers and explanations which will set the rapport for the course.
- Introduction :
 - ❑ Plastic as a Material and its relevance in the present context.
- History of Plastics :
 - ❑ Background
 - ❑ Review of the plastics industry including growth trends and drivers that has made it survive the global and local market for centuries.
- Types of Plastics and it Uses :
 - ❑ Manufacturing methods and technology,
 - ❑ Environmental impact by Data and graph analysis.
- Plastic as waste and on the contrary as gold in the economy :
 - ❑ Dependency for packaging
 - ❑ Product Design
 - ❑ Innovations
 - ❑ Future impact in multidimensions
 - ❑ Problems due to plastic waste.

PRACTICE EXERCISE ONE

- Plastic Waste Management :

- Regulations, directives and guidance documents issued by the government.
- Reduce, Reuse, Recycle and Recovery
- Global and Local perspectives on the Plastic recycling industry.
- Initiatives and measures proposed by the government for future, NGO's and pressure groups accelerating to more sustainable business and policy around plastics.
- Processes for recycling plastics - Separation technology, products widely made of recycled plastic.
- Various startups, businesses running from products made of recycling plastic : Utilization of the concept of Circular economy and resource efficiency,
- Design thinking on plastic waste : Plastic to road construction, plastic to toilet blocks etc

PRACTICE EXERCISE TWO

- Alarming Impact of plastics on Marine Life, Effect on Wildlife, Human Health and Environment :

- Researchers and industries addressing these challenging problems.

KNOWLEDGE TEST ONE

- Alternative to Plastic :

- Materials that can be adopted and manufactured as alternatives, availability and affordability in the market and in the local context.

- Summary and Conclusions :

KNOWLEDGE TEST TWO