



भारतीय पैकेजिंग संस्थान
Indian Institute of Packaging

An autonomous body under the Ministry of Commerce & Industry, Govt. of India
Chennai Centre

Supported by



CERTIFIED PACKAGING ENGINEER

2nd Batch (2022 - 2023)



PROSPECTUS & SYLLABUS

Vision

To make Indian Institute of Packaging a World Class Centre of Excellence with Sustained Commitment from the Stake Holders. To develop Close International Relationship with Worldwide Packaging Fraternity. To make India a Focal Point for Contemporary Developments in Art, Science, Technology and Engineering in the Field of Packaging.

Quality Policy

The Quality Policy of Indian Institute of Packaging is to provide assured tests and measurements at all times conforming to the specifications laid down in National, International or customer specified standards. We believe in and strive for the involvement of every member of the Institute in evolving and implementing an effective and efficient Quality Assurance Programme as laid down in ISO/IEC 17025:2017. We shall endeavor meticulous implementation and compliance with the Quality Manual and build an attitude essential for a prevention oriented work culture.

Indian Institute of Packaging (IIP) is an autonomous body in the field of packaging and working under the administrative control of the Ministry of Commerce and Industry, Government of India. The Institute was established on 14th May, 1966 with its headquarter and principal laboratories at Mumbai. The Institute has set up its first branch office at Chennai in 1971, followed by Kolkata, Delhi, Hyderabad, Ahmedabad and Visakhapatnam in 1976, 1986, 2006, 2017 and 2021 respectively. In addition, two more Centres are to be made operational at Bengaluru and Guwahati.



The main objective of the Institute is to promote the export packaging market by way of innovative design and development as well as upgrade the overall standards of packaging in the country. The Institute is involved in various activities like Testing and Evaluation of Packaging Materials and Packages, Consultancy Services and Research and Development related to packaging in addition to providing Training and Education in the field of packaging.

The Indian packaging industry has grown leaps and bounds not only in size and volume, but in quality as well. Further, globalization has encouraged the industry to be more competitive in the world markets. Today, the industry is growing at an annual rate of 15% as against 5-6% in the world. This has also created a great demand for packaging professionals in our country. Consequently, training and education have become the need of the hour to improve the overall standards.

To this effect, Indian Institute of Packaging started the Three months full time Certificate Course in Packaging – Intensive Training Course (ITC) in the year 1968 which was specially designed to give in depth knowledge on various aspects and trends in packaging. This Certificate Programme in Packaging Technology is Nationally and Internationally recognised qualification imparting a broad understanding of the principles, materials, processes, systems and other elements of packaging production and use.

In 1985, the Institute started a two-years full-time Post-Graduate Diploma in Packaging (PGDP) in Mumbai which is considered a benchmark by the industry. This course is open for all Graduates in Science, Technology, Engineering and allied fields. The admission is through an all India entrance examination conducted in June every year in all metro cities. Due to an increase in demand of Packaging Professionals, the Institute initiated this course in Delhi, Kolkata and Hyderabad as well. Today, this course is considered as one of the most popular programmes the world over.

On similar lines, the Institute started an eighteen months Diploma in Packaging through Correspondence (DPC) course designed exclusively for working personnel. Further to augment demand, IIP has increased the intake of candidates from academic year 2017-19 with commensurate improvement in infrastructure.

In the last academic year, the Institute has started M.Sc. programme at Delhi in collaboration with Guru Gobind Singh Indraprastha University, Delhi & M.S. in Hyderabad in collaboration with Jawaharlal Nehru Technological University Hyderabad (JNTUH).

Besides the educational programmes, the Institute regularly conducts several short term Programmes, National Seminars and Conferences in Packaging. These are typically of one day to one week duration. These programmes are designed for working Executives as well as for Professionals needing to update their knowledge in Packaging. The Institute also conducts collaborative, onsite programmes for training and testing titled "In-Laboratory Hands-On Training for Testing and Evaluation of Packages".

Now I am happy that Indian Institute of Packaging, Chennai has announced the admission of Second batch of One Year online educational programme titled "**Certified Packaging Engineer**" (CPE) Course both for working and fresh Engineering Graduates after successful commencement of 1st Batch in last academic year (2021-2022). Since Packaging is an essential aspect for all sectors, the proposed Course will give added qualification to the Engineers where they can get better opportunities in their career.

I am confident that both the working & fresh Engineers who would be opting for this course as their career option will have a brilliant and bright future.

My best wishes to all the new aspirants who would be joining the illustrious IIP family.



Dr. Tanweer Alam
Director (I/c)
Indian Institute of Packaging

Indian Institute of Packaging (IIP), Chennai Centre commenced the First Batch of CPE Course in the last academic year 2021-2022, which was well accepted by both Working and Fresh Engineering Graduates. Considering the demand of Packaging Professionals, IIP-Chennai open its admission for the Second Batch of CPE Course (academic year: 2022-2023).



As we have numerous Engineers in our country, yet there is demand for packaging professionals in the user and convertor industries. To enhance their intelligence towards Packaging, this course is designed for Engineers from numerous background. Since this was the need of the hour, we found Engineers both fresher and employed as the ideal target to qualify.

Structuring the course carefully, we have ensured the right amount of time and efforts are given to these professionally qualified personnel as it received a great support from both Industrial & Institutional faculties for this ongoing 1st Batch.

We are truly excited to commence the 2nd Batch of this CERTIFIED PACKAGING ENGINEER (CPE) course, at the prospect of providing this Course both for Indian and International students which we feel will go a long way in the Government's skill development initiative. I express my sincere thanks to Director-IIP and Regional Chairman of IIP-Chennai; Asian Packaging Federation (APF); World Packaging Organisation (WPO); Faculty both from Internal/ External from Indian Institute of Packaging and overseas faculties and Industries for their continuous support to the CPE Course being conducted by IIP-Chennai Centre.

It is my team's endeavour to deliver quality education and make this a grand success.



R Ponkumar
Deputy Director & Regional Head
Indian Institute of Packaging, Chennai

About Indian Institute of Packaging

The Indian Institute of Packaging (IIP) is a national apex body which was set up in 1966 by the packaging & allied industries and the Ministry of Commerce, Government of India. The Institute is an Autonomous body working under the administrative control of the Ministry of Commerce. The Institute endeavors to improve the standard of packaging needed for the promotion of exports and create infrastructural facilities for overall packaging improvement in India through Research and Development, Problem solving Consultancy, Testing and Evaluation, Training and Education, Industrial Coordination, Information Dissemination and other promotional efforts. The Institute has set up state-of-the-art infrastructure for conducting Testing, Consultancy, Training and Education activities at its Head Office at Mumbai and other Regional Centres at Chennai, Kolkata, Delhi, Hyderabad and Ahmedabad.

The Institute has linkages with International organisations and is a founder member of the Asian Packaging Federation (APF); member of the Institute of Packaging Professionals (IOPP), USA; the Institute Packaging (IOP), UK; Technical Association of Pulp and Paper Industry (TAPPI), USA and the World Packaging Organisation (WPO).

The Indian Institute of Packaging has helped many developing countries in the promotion of packaging through projects carried out for prominent International bodies like the United Nations Industrial Development Organisation (UNIDO), International Trade Centre (ITC), the Commonwealth Fund for Technical Cooperation (CFTC) and the European Union (EU).

About IIP Chennai

The first Regional Centre of the Institute was set up at Chennai in the year 1971. Initially, the Institute was located at Adyar, Chennai in a rented premise and subsequently, the Institute acquired a land of one acre at Plot No. 169, Industrial Estate, Perungudi, Chennai and the building was constructed for IIP - Chennai in 1987. The Institute has a testing laboratory with few sophisticated testing equipment for the testing of packaging materials and packages. However, the primary activity of this Centre is to carry out the testing of bulk packages intended to be used for the carriage of dangerous goods for export either by Sea or Air, following the IMDG and ICAO regulation respectively. In addition, the Institute is also involved in Training & Consultancy Services by way of providing advisory study visits for making spot suggestions and guidelines to the broad cross section of industries located in the state of Tamil Nadu.

The Centre has upgraded the testing laboratory and is accredited to the National Accreditation Board for Testing and Calibration Laboratories (NABL) as per ISO/IEC:17025-2017. The Centre also has an exclusive laboratory for the testing of Flexible Intermediate Bulk Containers (FIBC), which is mostly used as a bulk packaging material for export of chemicals.

The Indian Institute of Packaging has been creating Packaging Professionals for more than 55 years in order to serve the industry in a professional way through its various training and educational programs on different packaging aspects. The One Year "CERTIFIED PACKAGING ENGINEER (CPE) Course in Packaging is specially designed to give insight knowledge on various aspects and trends of packaging. The Industries as well as the candidates have appreciated the Institute in commencing this course exclusively for Engineer.

Objective of the course

- To provide information on various materials, processes, governing laws and regulations involved in packaging of products through Online Classes, Classroom Teaching, Laboratory and Industrial Visits along with Case Studies.
- To create packaging professional from design conception to manufacturing, who learns to speak the language of packaging and utilize it as a key differentiator for his relevant industry/business.
- By way of attending this One Year Packaging Course, the candidates will get a platform to identify new innovations as well as new opportunities in the field of packaging.

Benefits of the Course

- To gain the knowledge, tools and skills to be an influential Professional in the field of Packaging
- Able to interact with top Packaging Professionals through different sessions on key topics of Packaging
- Have a glimpse of various manufacturing units deals in Packaging through Industrial visits.

What you will get

- i. A Certificate of accomplishment to differentiate your resume and advance your career.
- ii. A sustainable perspective on package design and development.
- iii. A platform to identify new innovations as well as new opportunities in the field of packaging.

Eligibility

As the CPE course is designed for the candidates who has the basic Engineering knowledge, all the Engineering Graduates from the UGC recognized Universities are eligible for enrollment.

The course will be suitable for all Engineering Graduates who aspire to become a packaging professional including but not limited to the following streams,

- » Mechanical Engineering
- » Printing Technology
- » Packaging Technology
- » Polymer Engineering / Technology
- » Food Technology
- » Bio Technology
- » Chemical Technology
- » Production Engineering / Technology
- » Paper Engineering / Technology
- » Plastics Technology
- » Industrial Engineering

Duration of the Course

The Course is spread over 12 months with online sessions, contact classes and industry visits as per details appended. Visits to various industrial establishments and production centers have also been planned to provide an opportunity to the candidates in order to get familiarized with the processes of conversion, manufacturing and the selection of packaging materials as per current trends of industry.

Facilities

The Institute is well equipped with state-of-art package testing Laboratory, fitted with multimedia projector Air-conditioned Classrooms.



Classroom facility at IIP Chennai



Conference Hall - IIP Chennai



FIBC Testing laboratory



Bursting Strength Tester



Top lift Tester



Hydraulic Pressure Tester



Box Compression Tester



Universal Testing Machine

Academic Calendar:

One Year (Three Semesters)

1st Semester: July 2022 – October 2022

2nd Semester: November 2022 - February 2023

3rd Semester: March 2023 – June 2023

The online classes will be conducted in the Evening and / or Weekends to make it convenient for both working and Job seekers in the field of packaging.

Semesters	Schedule	Course Content
Semester - I	July 2022- October 2022	Online Classes
Semester - II	November 2022 - February 2023	Online Classes
Semester - III	March 2023 – June 2023	Skill Development (Industrial Training)

Fee Structure:

S.No.	Details	Amount (Rs.)	GST 18% (Rs.)	Total (Rs.)	Due Date
1	Registration Fee	250/-	45/-	295/-	During Registration
2	Fee for I - Semester (Including one time admission fee of Rs.10,000)	30,000/-	5,400/-	35,400/-	Before Commencement of the Course (31 st May 2022)
3	Fee for II - Semester	20,000/-	3,600/-	23,600/-	Before 15 th November 2022
4	Fee for III - Semester	20,000/-	3,600/-	23,600/-	Before 15 th March 2023
		Total fees		82,895/-	
Fee for overseas candidates - US \$1500/--(Including Form Fee and Service Tax)					

Note:

The fees for the Semester II & III has to be paid prior to the commencement of the Semesters. Appropriate late fee of Rs. 100/- per week will be charged. Candidates will be allowed to attend in the next Semester on payment of fees. All fees are to be paid as per details provided in this Prospectus.

Syllabus

Teaching & Examination Scheme: Semester - I

S. No.	Subject	No. of Credit Hours #	No. of Papers	Exam Duration	Marks
1	Packaging Technology – 1	20	1	2 hrs	50
2	Packaging Technology – 2	20	1	2 hrs	50
3	Packaging Technology – 3	20	1	2 hrs	50
4	Packaging Technology – 4	20	1	2 hrs	50
5	Practical's - I	20	1	2 hrs	50
	Total	100	5		250
# 1 Credit Hour – 90 Minutes					

Packaging Technology – 1

- Status of Packaging Industry, India and International and Export Packaging
- Principles, Functions, Concept and Modern Role Of Packaging
- Concept of Packaging Design and Sustainable Package Design
- Concept and Advanced Processing of Glass Packaging
- Concept and Advancement in Metal Packaging

Packaging Technology – 2

- Concept and Advanced Processing of Paper and Paperboard Packaging
- Concept and Automation in Corrugated Fibre Board Boxes Packaging
- Wooden based Packaging, Pallet and Palletization
- Ancillary and other Packaging Material
- Data Analysis of Packaging Industry

Packaging Technology – 3

- Introduction to Plastic Processing and Packaging
- Concept and Advanced Processing of Plastics and Polymer Packaging
- Advances in Flexible Packaging Material
- Mould Design and its Application in Packaging
- Advances in Tooling & Design of Moulds for Packaging

Packaging Technology – 4

- Basic Concept of Printing on Packaging
- Advances in Printing on Packaging with special reference to the Digital Printing
- Various Types of Packaging Machinery
- Packaging Standards, Laws and Regulation
- Role of BIS, FSSAI, MoFI and NABL, IATA, ILAC, IMDG, ASTM, IMDG with reference to the Packaging Industry

Teaching & Examination Scheme: Semester - II

S. No.	Subject	No.of Credit Hours #	No. of Papers	Exam Duration	Marks
1	Packaging Technology –5	20	1	2 hrs	50
2	Packaging Technology –6	20	1	2 hrs	50
3	Packaging Technology –7	20	1	2 hrs	50
4	Management Studies	20	1	2 hrs	50
5	Practical's -II	20	1	2 hrs	50
	Total	100	5		250
# 1 Credit Hour – 90 Minutes					

Packaging Technology – 5

- Basic Concept and Advancement in Food Packaging
- Basic Concept and Advancement in Automobile Packaging
- Basic Concept and Advancement in Pharmaceutical Packaging
- Basic Concept and Advancement in Cosmetics
- Basic Concept and Advancement in Industrial Packaging

Packaging Technology – 6

- Regulation related to Hazardous Packaging
- Sustainable Packaging
- Active and Interactive / Intelligent Packaging
- MAP, CAP Concept of Packaging
- Biodegradable and Biocompatible Packaging

Packaging Technology – 7

- Application of Computers in Packaging Design & CAD Application
- Automation and End Line Solution in Packaging industry
- Interaction Between Machinery & Automation, Packaging 4.0
- Role of Master Batch in Plastic Processing and Packaging
- Application of Robotics in Packaging
- No Touch and Antiviral/Antimicrobial Packaging
- Nano Packaging System

Management Studies

- Production Management with reference to the Packaging
- Marketing Management with reference to the Packaging Industry
- Materials Management with reference to the Logistics

Semester - III

S.No.	Subject	No. of Credit Hours #	No. of Papers	Examination Duration	Marks
1.	Industrial Training & Report	-	1	-	100*
2.	Dissertation, Presentation & Viva - Voce	-	1	-	100**
	Total	-	2		200

\$ It may vary depending upon the company where the candidate will do the Industrial Training.

* Marks will be assigned based on the regularity in Attendance, Conduct and Progress

** Based on the typed report submitted on the Industrial Training, Dissertation, Presentation & Viva - Voce.

	Credit Hours
Semester - I	100
Semester - II	100
Semester - III	-

Examination

Examinations will be conducted at the end of each Semester. A candidate to obtain Certified Packaging Engineer (CPE) is required to pass Two Semester examinations and successfully complete the Project Work. Candidates with minimum 75% attendance in each subject will be allowed to appear for the Semester Examinations. (A prior notification will be given to the candidate about the exam schedule.)

Passing Criteria

For eligibility of Certified Packaging Engineer (CPE), a candidate must obtain at least 40 % marks in each paper. In addition, the candidate must obtain at least 50 % in the aggregate.

Provision for ATKT (Allowed To Keep Terms)

A candidate will be given an ATKT provided his / her overall performance is good and he / she is not failing in more than two subjects.

Examination

Re – Examination will be conducted within two months of results announcement for the candidate who failed in the subjects and who obtained less than 50% aggregate.

Grade

- A - 70% and above First Class with distinction
- B - 60% and above but less than 70% First Class
- C- 50% and above but less than 60% Second Class

Certification

After successful completion of the course, the candidates will be awarded "**Certified Packaging Engineer**" certification by Indian Institute of Packaging, Chennai, Accredited by Asian Packaging Federation (APF) and the World Packaging Organisation (WPO).

Code of Conduct

Following is the Code of Conduct which all the candidates enrolled for any of the courses organised by IIP need to follow:

- ◆ Any violation of the code will attract disciplinary action. The disciplinary action will be entirely decided by the management of the Institute, and which may amount to removal of the candidate from the course.
- ◆ All the candidates will be punctual in their attendance.
- ◆ Candidates will behave properly in the training sessions.
- ◆ Decent dress code to be followed by the candidates

Following conduct/ acts will be considered as violation of the code of conduct and is required to be followed by all the candidates:

- ◆ Attending the class after the session / lecture has started / commenced.
- ◆ Leaving the class before the lecture / session is completed without the permission of the faculty.
- ◆ Any kind of teasing, abusing, using bad words, un-parliamentary language with any of the Candidates, Staff of IIP, Faculty, Visitors or any of the personnel within the campus of the Institute.
- ◆ Consumption of alcoholic drinks, smoking, consuming any undesirable products within the campus.

- ◆ Humiliating, insulting in any manner with the Staff of Institute, Faculty or any Guest, during the Course.
- ◆ Misplacing, stealing of any items or property, belonging to any of The Candidates, Staff, Faculty or the Institute
- ◆ Misbehaviour in any manner with any of the Candidates, Staff, Faculty or Visitor during the Course.
- ◆ Talking with other candidates, copying, exchanging material or paper during the examination.
- ◆ Mishandling/ misusing learning aids/ books/ instruments of the Institute.
- ◆ Ragging in any manner with any candidates during the Course.
- ◆ Using mobile phone / its accessories in the classroom / laboratory during the Course.
- ◆ Copying presentations, lecture notes from laptops without prior permission of the respective Faculty.
- ◆ Internet surfing in the classroom other than slot allotted, specifically for the purpose.
- ◆ Any act not mentioned above, but undesirable in the academic field.

Cancellation of Admission:

- ◇ For cancellations before commencement of the Course - 10% of the fees paid will be forfeited and balance will be refunded.
- ◇ There will be no refund of fees after the commencement of the Course.

Library Facility

The Institute has a well-equipped library with Indian as well as overseas books, in addition to Reference Books, Journal, Standards etc.

Dissertation / Library Reference Work

The candidate is expected to submit a typed report at the end of Semester as dissertation on Library reference work, for evaluation. The subject dissertation would be prescribed by the Institute.

Industrial Visits

Industrial visits are organised for the candidates during the contact classes of Semester I and II with a view to expose them to actual industrial processes and give an opportunity to acquire practical experience on packaging and non-packaging related subjects.

Industrial Training

During the 3rd Semester, candidates are assigned to Industrial Training for 4 Months. Each candidate is required to submit a typed report (2 copies) as 'Project Work' providing methodology, findings etc. in detail as part of industrial training.

Performance during industrial exposure, provided in the industrial unit, is evaluated based on the report to be submitted by each candidate and the necessary assessment / certificate as may be obtained by the Institute from the concerned unit. 100 marks are assigned for the industrial training and project work.

Marks are based on regularity in attendance (minimum 75%), conduct and progress as reported by the examination, besides behaviour etc.

Steps for Registration and the date of submission of the Registration and Application Form :

Step 1:

Copy paste or click on the below link for making the Payment of Rs. 295 (Rs. 250 + 18% GST) towards Registration Fee through online gateway. (The Payment also can be done directly to account as mentioned below.

<https://www.onlinesbi.com/sbicollect/icollecthome.htm?corpID=82347>

Bank details	
Name of the bank	SBI
Name of the branch with code	Perungudi - 9318
Name of the account holder	Indian institute of packaging
Account no	10531983106
IFSC code	SBIN0009318

Step 2:

Copy paste or click on the below link for filling the Registration Form (After successful payment, please specify the UTR ref of the payment). The last date for submission of the Online Registration Form is 20th May, 2022. After verification of the Registration Form the candidates will be provided with the Application Form.

<https://forms.gle/x3TKXftBSDGouzr86>

Step 3:

After verification of the Candidature, IIP – Chennai will intimate the Candidates to submit the Hard copy of the filled Application Form. The filled Application Form has to be submitted latest by 31st May, 2022 along with 2 Nos. of Passport Size Photographs and attested copies of the Mark Sheets, Certificates, etc. by Courier.

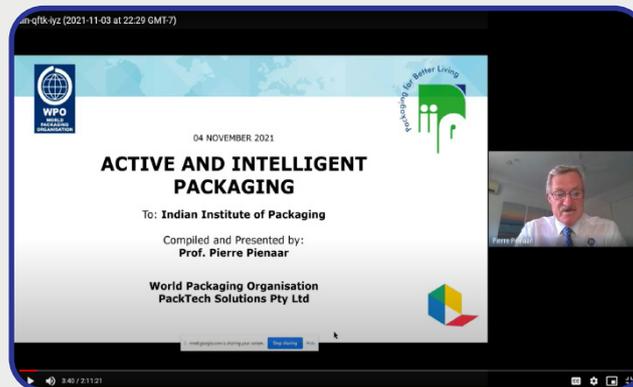


Press meet of the Launch of CPE Course

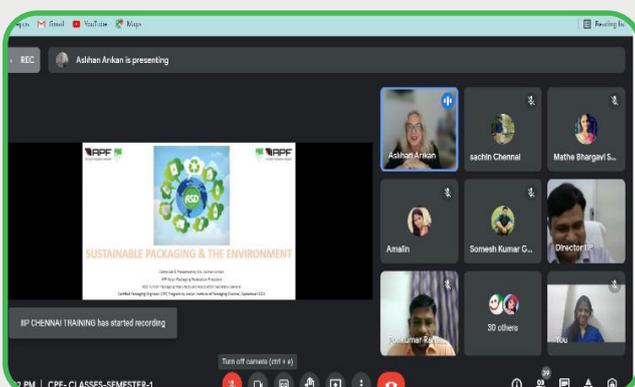


Inaugural Ceremony of CPE 1st Batch

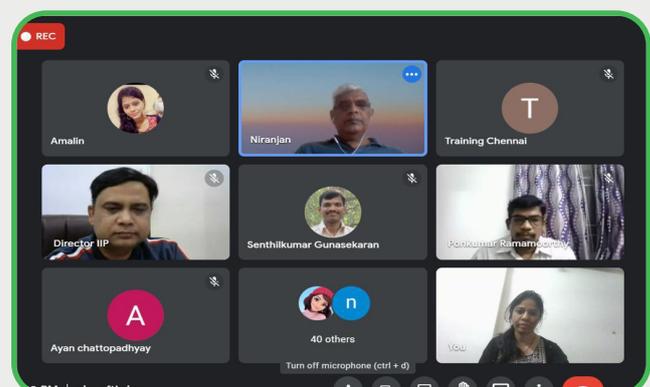
Guest Lectures by Overseas Faculty



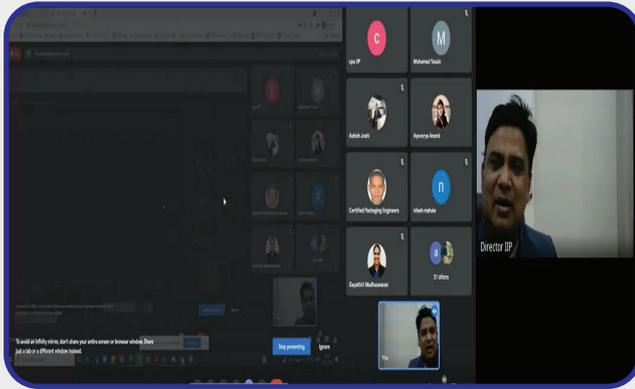
Lecture by Prof Pierre Pienaar - President of World Packaging Organisation (WPO).



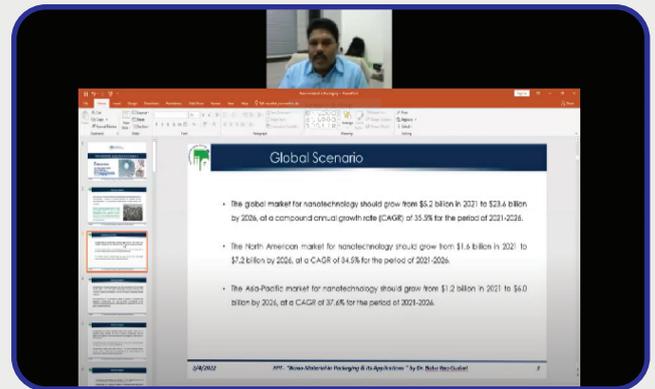
Lecture by Ms. Aslihan Arikan Immediate Past President of Asian Packaging Federation (APF).



Lecture by Mr. Niranjan - Professor of Reading University, UK



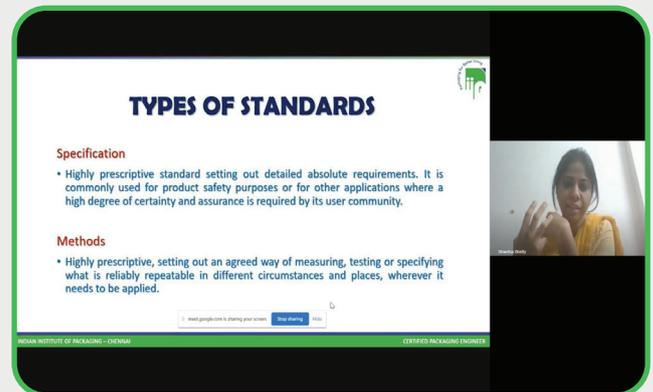
Lecture on Food Packaging by Dr. Tanweer Alam- Director (I/c) of Indian Institute of Packaging.



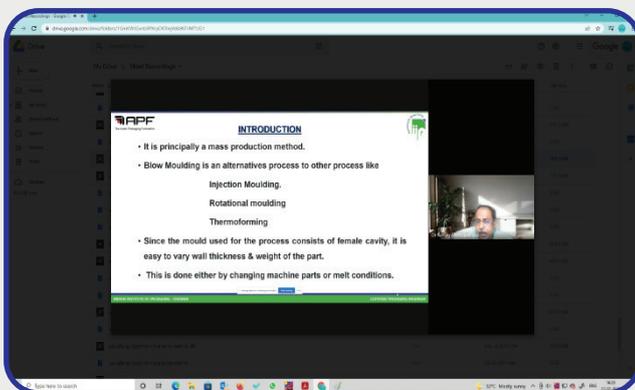
Lecture on Nano Packaging System by Dr. Babu Rao - Joint Director of Indian Institute of Packaging.



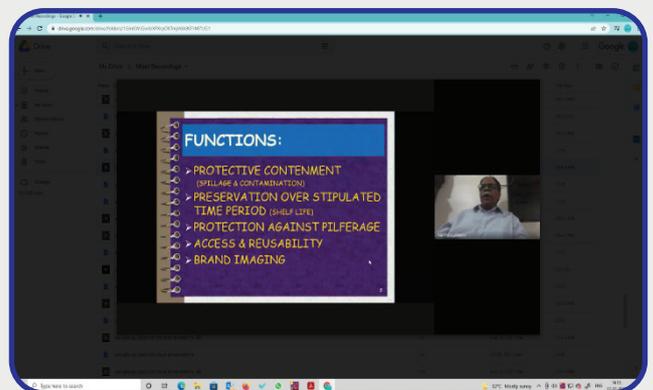
Lecture on Plastics in Packaging by Mr. Ponkumar - Deputy Director and Regional head of Indian Institute of Packaging, Chennai.



Lecture on Testing on Packaging materials by Ms. Shwetha Shetty - Assistant Director of Indian Institute of Packaging, Chennai.



Lecture on Plastic Processing Processes by Dr. Sanjay Kumar Chattopadhyay - Ex- Additional Director of IIP and guest faculty in various institutes.



Lecture on Ancillary Packaging by Mr. N B Lalwani - Ex- Deputy Director of Indian Institute of Packaging.

For Further Details regarding admissions, Please Contact:



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 Phone No.: 022-69192200
 Email : iip@iip-in.com
 Web : www.iip-in.com

Other Regional Centres

Delhi

Plot No. 21, Functional Industrial Estate,
 Pratapganj, Opp. Pratapganj Bus Depot,
 Delhi - 110 092.
 Tel : 011-22166703-05
 Email : iipdelhi@iip-in.com

Kolkata

Block CP-10, Sector-V, Salt Lake,
 Bindhan Nagar, Kolkata - 700 091
 Tel : 033-2367 0763 / 2367 6016
 Email : iipkolkata@iip-in.com

Hyderabad

Lux - 3, Industrial Centre,
 Sanath Nagar, Hyderabad - 500 018
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1st Floor, CFC Building, Apparel Park,
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