



भारतीय पैकेजिंग संस्थान
Indian Institute of Packaging

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

Diploma in Packaging

(Through Correspondence Mode)

27th Batch



2022 - 2023

PROSPECTUS

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 17025:1999.

We shall endeavour meticulous implementation and compliance with the Quality Manual and build an attitude essential for a prevention oriented work culture.

Diploma in Packaging (Through Correspondence Mode)

Training & Education

Research & Development

Testing & Evaluation

Consultancy & Projects

From the Director's Desk



Dr. Tanweer Alam
Director (I/c)

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 in Mumbai. The Institute set up its first branch office at Chennai in 1971, followed by branches at Kolkata, Delhi, Hyderabad, Ahmedabad in 1976, 1986, 2006 and 2017 respectively. In addition, three more centres are to be made operational at Bangalore, Guwahati and Vishakhapatnam

The main objective of the Institute is to promote the export market by way of innovative package design and development as well as to 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 & development related to packaging. Besides this, the Institute is involved in training and education in the field of packaging.

The Indian packaging industry has not only grown in size and volume, but also in its level of operation. In addition, globalisation has also forced the Indian packaging industry to become more competitive in the global markets and also to win major contracts abroad. Today, the Indian packaging industry is growing at an annual rate of 15% as against 5-6% growth of the global packaging industry. This has also created a great demand for packaging professionals by the Indian packaging industry. In fact, packaging training and education have become the 'Need of the Hour' in our country so as to upgrade the overall standards of packaging at the National level.

To value these facts, the Indian Institute of Packaging started the distance education programme in 1996. It is a challenging task to acquire additional knowledge for the person who are employed or engaged in business activities. The Distance Education Programme offers the best opportunity to such people to update their knowledge position, experience and accept higher responsibility on completing the course.

Today, in Packaging (DPC) course is established as one of the most popular programmes and is well accepted by the packaging industry in India and abroad. Till date, over 4000 students have graduated under this programme. On similar lines, the Institute started the three months Intensive Training Course (ITC) in 1966 for the benefits of entrepreneurs to undergo and to upgrade their knowledge in the field of packaging.

I am confident that the working professionals who would be opting for this course to upgrade their knowledge in packaging. My best wishes to all the new aspirants who would be joining the illustrious IIP family.

Dr. Tanweer Alam
Director (I/c)

Genesis of Packaging Education

Packaging is multi-faceted activity. It protects preserves and sells the product at optimum cost. Protection, preservation and marketing involve understanding of environmental concerns, related laws, its economics and management besides knowledge of Packaging Technology. The Course covers study of basic packaging materials like Paper, Paperboard, Glass and Metal containers, Plastic, Films, Laminated, Cushioning Materials, Ancillary Materials and other conventional and modern forms of packaging used in Food, Pharma, Engineering and other Industries. It also covers packaging techniques and processes, quality control and evaluation test and other management topics like standardization, packaging cost and economics etc. The Correspondence Course is designed to develop packaging persons who can find opportunities in marketing, purchase, design and development, quality assurance and package processing of any industrial unit – be it a package manufacturer or a package user.

The diploma in packaging course through correspondence commenced in 1996 and the curriculum is regularly reviewed with addition of new topics. We have laboratories and class rooms with modern facilities for their training and use. Experienced and dedicated faculty trains the students for their in the field of packaging. On similar lines, the Institute started the Post Graduate Diploma in Packaging (PGDP) course is established as one of the most popular programmes and is well accepted by the packaging industry in India and abroad. Till date, over 3000 students have graduated under this programme with 100% campus placements in the past five years. We have been also conducting three months certificate course since 1968, this course is accredited by Asian Packaging Federation of which IIP is the founder member and endorsed by World Packaging Organisation.

We are in the 26th year of Distance Education Programme, which is of 1½ years duration. This course is also accredited by Asian Packaging Federation and is open to participants from any country. We have been receiving overwhelming response for this course. For overseas students of this course, we conduct the examination in their city. Over the years, we have witnessed a significant growth in the number of students enrolling in this course. They come from various professional and educational backgrounds.

The success story of these programmes is due to the efforts by the eminent faculty, who support the educational activities; from renowned educational institutions, the industry and many corporate bodies, through industrial visits and training of our students.

Packaging is one of the most dynamic fields and is sensitive to technical and commercial trends. Packaging trends need to be quickly identified, studied and exploited to survive in competition. Globalisation has brought consumers and producers closer than ever before. The role of packaging in modern methods of distribution through super markets and malls has, therefore, assumed great importance. Thus, the demand of this subject makes our job challenging; however, we always like challenges and endeavour to succeed.

Dr. Babu Rao Guduri
HOD: T & E Division

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 and allied industries and the Ministry of Commerce, Government of India, with the specific objective of improving the packaging standards in the country. 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. This is achieved through the Institute's multifarious activities which are today, in line with those of premier packaging institutes the world over. The institute aims to make India a focal point for contemporary developments in Art, Science Technology and Engineering, with respect to the field of Packaging.

The Institute began in a very humble way, with an office at Mumbai. It has now expanded, with its Head Quarters at Mumbai and centres located at Delhi, Kolkata, Hyderabad, Chennai and Ahmedabad.



The major activities of the Institute are:

- Training & Education
- Research & Development
- Testing, UN-Certification & Consultancy

The other promotional efforts include exhibition and awards, information services and publications, library and database services

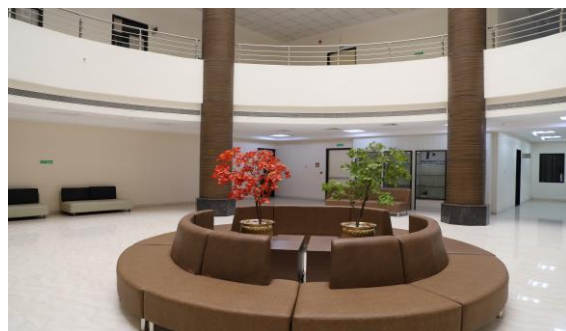
The Institute has linkages with International organizations and is a founder member of the Asian Packaging Federation (APF); member of the Institute of Packaging Professionals (IOPP), USA; the Institute of Packaging (IOP), UK; Technical Association of Pulp and Paper Industry (TAPPI), USA and the World Packaging Organization (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 Organization (UNIDO), International Trade Centre (ITC), the Commonwealth Fund for Technical Cooperation (CFTC) and the European Union (EU).

The Institute has successfully completed International residential training programmes for APF and WPO for various countries.

At present, the Institute has members in varied categories such as Patron Members, Overseas Members, Life Members and large number of Ordinary Members who regularly use the expertise and the services available in the laboratories.



Diploma in Packaging (Through Correspondence Mode)

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Exhibition and Design

This division organises exhibitions on a regular basis.

INDPACK, the Annual National Exhibition organised at various cities around the country, offers the Packaging industry an opportunity to display development in the machinery and material sector.

INDIAPACK International, a collaborative effort with exhibition organisers from overseas, organised once in 2/3 years.

The institutes also organise industry participation in international exhibitions.

The Permanent Exhibition Centre in Mumbai, Delhi, Kolkata, Chennai and Hyderabad offer display outlets for the products of the industry. Industrial designs are developed as per client's requirements.



Awards

The Institute, while maintaining its unique position as an internationally reputed organisation responds to the needs of the country and at the same time acts as a window for India's capabilities in Packaging Science and Technology.



India Star Awards

IIP has instituted the 'INDIASTAR' Awards, the National award for Excellence in Packaging in the year 1972 to promote and encourage excellence in packaging design, innovation and sustainability, once every two years. Over a period of time, this award programme is firmly entrenched and is most popular as the premier event for India's packaging fraternity.

This biennial INDIASTAR Award is the recognition of excellence in packaging development for functional design and appeal. The INDIASTAR Contest is also open to students under the Student Category.

Winning INDIASTAR entries may then compete for the ASIASTAR and the WORLDSTAR Awards.

Information and Publication

This division provides information related to the packaging industry, in addition to publishing various monographs and textbooks, seminar papers and directories, periodically.

'Packaging India', the official Journal of the Institute published six times a year, is an invaluable source of information for the packaging industry. It is mailed free of cost to members of the Institute, packaging and related institutions all over the world. Individual subscriptions are available on request.

The Institute's publications are available at the Head Office and the Regional Centres.



Library and Internet Services

IIP is privileged to have one of the best reference's libraries in the world, with books, International periodicals, bound volumes of journals; besides a large number of reports, National & International standards, database on products and materials along with reprographic facility also being available. Library facilities are extended to the members of the Institute, all students and faculty.

The IIP library has a rich collection of nearly 7000 textbooks besides several packaging related National and International standards from different countries and organisations on materials, methods and systems, testing and quality control etc., besides having a number of seminars, technical reports and dissertations. The information input is also augmented through over 50 technical journals obtained from various sources in the world, on a regular basis.



Industry Consulting Services

The Institute undertakes self-sponsored and industry participated applied projects covering different aspects of standards, substitutions of packaging materials, improvements in the designs of packages for a range of products including agricultural produce, marine products, processed food, pharmaceuticals, chemicals, consumer durables, light and heavy engineering productised. Export packs for fresh fruits and vegetables are developed which include bulk and consumer packs. Consumer and bulk export packs with specification details are developed for pre-cut frozen fruits and vegetables.

- Consultancy services include. :
- Package design and development
- Cost-effective packaging for domestic and overseas distribution
- On-the-spot advisory visits
- Techno-economic feasibility studies
- Market research and survey reports
- Projects profile with guidelines for machinery selection, computing investments and working capital as well as establishing economic feasibility.

Some of our esteemed clientele include MNC's, entrepreneurs, government departments, packaging material users and converters.



Global Initiatives

To meet the growing demands from industrial units, in both, the organised and unorganised sector for qualified technical manpower, the Institute introduced various education programmes such as the PGDP, DPC & ITC.

Short Training Programmes, Seminars and Conferences of 1-day to 1-week duration are organised by the Head Office and the Regional Centres throughout the year in various parts of the country, specially designed for working executives as well as professionals needing to update their knowledge in the form of executive development programmes.

Residential Training Programmes – The Institute conducts Residential Training Programmes at its Campus in Mumbai. These programmes are designed to meet the specific requirements of the organisation / industry.

Testing and Evaluation Services – NABL Accredited Laboratories.

Over the last 50 years, the Indian Institute of Packaging has been able to establish well-equipped laboratories for testing of various packaging material and packages at its principle laboratory at Mumbai and also its branch offices at Chennai, Kolkata, Delhi, Hyderabad & Ahmedabad with continuous efforts towards upgradation. Financial assistance of the Ministry of Commerce and Industry, Government of India is awarded. Today, the Institute is proud to announce that the laboratory has got the facility for testing over 300 parameters covering different areas like mechanical, chemical and physico-chemical properties of packaging material and packages.

Laboratories at the Head Office and regional centres extend testing facilities to the industry for domestic distribution and export, as per National and International Standards like the Bureau of Indian Standards (BIS), International Standards Organisation (ISO), British Standards (BS), American Society for Testing Materials (ASTM) and others. IIP also issues UN Certification for export packages for hazardous goods and equipment calibration standardisation certificates.

Laboratory

- The division comprises of the following laboratories:
- Consumer Package Laboratory
- Material Testing Laboratory
- Optical and Barrier Properties Laboratory
- Chemical Laboratory
- Transport Laboratory

Activities

- Activities carried out include:
- General chemical and material testing
- Testing for transport worthiness of packages
- Testing of packages for the carriage of dangerous goods for export – IMDG and ICAO.
- In-laboratory training programme
- Training programme on testing and quality control
- Testing based consultancy projects
- Microbiology Laboratory



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There is more to packaging than meets the eye. Packaging is recognized as major industry in all the developing countries. This is not surprising as all the products manufactured or processed are packed in some way or the other. With trade barriers vanishing in many countries, export has increased, demanding more and more from packaging. Packaging is becoming a highly competitive field. It embraces various disciplines of science and technology. With the increasing importance for packaging and its growth, there would be growing opportunities for packaging professionals in their career.

It is a challenging task to acquire additional knowledge for the persons who are employed or engaged in business activities. The Distance Education Programme offers the best opportunity to such people to update their knowledge position, experience and accept higher responsibilities, on completing the course

Packaging is multi-faceted activity. It protects preserves and sells the product at optimum cost. Protection, preservation and marketing involve understanding of environmental concerns, related laws, its economics and management besides knowledge of Packaging Technology. The Course covers study of basic packaging materials like Paper, Paperboard, Glass and Metal containers, Plastic, Films, Laminated, Cushioning Materials, Ancillary Materials and other conventional and modern forms of packaging used in Food, Pharma, Engineering and other Industries. It also covers packaging techniques and processes, quality control and evaluation test and other management topics like standardization, packaging cost and economics etc.

The Correspondence Course is designed to develop packaging persons who can find opportunities in marketing, purchase, design and development, quality assurance and package processing of any industrial unit – be it a package manufacturer or a package user

Methodology:

Candidates registered for the Course would be given course material for reading in advance.

Examination:

Examination will be conducted at the end of 18 months. A student also has to submit an essay on a prescribed topic before the examination. The examination would be conducted at Indian Institute of Packaging Mumbai and regional centres. The candidates are expected to attend the examination at his/her own cost. (For overseas candidate examination can be arranged at their place/country with prior intimation.) The examination will consist of four papers of 100 marks each and dissertation in the form of essay of 100 marks. Papers I to IV will be set to cover topics from Packaging Technology Education Volumes 1 to 4 respectively given to the registered candidates. A candidate can appear for examination on payment of re-examination fee within 3 years, for maximum three times after registration. The minimum marks for passing the Diploma examination would be 40 percent in each head of passing and 50 percent in aggregate.

Course Duration:

The course is of one and half year duration.

Diploma in Packaging (Through Correspondence Mode)

Training & Education

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Eligibility Criteria:

Qualification: Graduate in Science, Engineering, Technology, Commerce and Arts from UGC recognized University / Diploma from recognized technical board in Engineering / Technology are eligible for the course. Candidates should have minimum one-year Industrial Experience in the operational areas like Production, Purchase, Marketing, Quality Control etc.

Age: No age limit.

Course Fees

1.	Application Fees	Rs. 250/-
2.	Total Fees	Rs. 70,000/-
Indian Participants		
A.	1 st Instalment	Rs. 60,000/-
B.	2 nd Instalment	Rs. 10,000/-
C.	Late Fees Per Week	Rs. 500/-
Overseas Participants		
3	Overseas Participants	\$ 1500

Note: Fees + 18% GST as applicable for Indian Participants

Fee Payment :- Fee for the subsequent semesters should be paid as follows:

1st Instalment : 31st December 2021

2nd Instalment : 30th June 2022

Overseas Participants : 31st December 2021

Note:

- Appropriate late fee will be charged.
- All fees are to be paid by DD in favour of Indian Institute of packaging/Online payment
- Once admission is confirmed, fees will not be refunded under any circumstances

Course Fees: Rs.70,000 + GST (18%) as applicable for Indian participant and for overseas participants us \$ 1500/- (including form fee & service tax.). If Indian participants are working in overseas during the course period, institute will consider as overseas participants and fees, terms & conditions are applicable as overseas participant.

Re-examination Fee for re-examination, after 1st attempt fee of Rs. 1000/- per paper will be payable for every examination.

Course Material: Course material in the form of packaging technology educational volumes set 1 to 4 along with model questions would be sent to the candidates on registration.

Library: The institute has a well-equipped library with over7,500 Indian as well as foreign books, in addition to reference books, journals, standards etc. The students would be given identity cards by I.I.P these cards must be produces at the time of library reference work.

Certificate: The distance education programme is accredited by Asian packaging federation. The successful student would be given a certificate titled. “Diploma in Packaging”.

Registration / Admission: Application form along with prospectus and syllabus can be obtained from any centres of Indian institute of packaging by paying Rs. 250/- only by odd in favour of Indian institute of packaging. The application forms should be sent directly to the “Indian institute of packaging, Mumbai” along with the fee by demand drat in favour of India institute of packaging, payable at Mumbai. Fee can be paid in 2 instalments i.e. Rs.60,000 + GST (18%) payable along with

Diploma in Packaging (Through Correspondence Mode)

Training & Education

Research & Development

Testing & Evaluation

Consultancy & Projects

application form and Rs.10,000 + GST (18%) within 6 months of admission. Fee once paid will not be refunded.

The application form can also be downloaded from website. form fee of Rs.250/- is to be added in 1st instalment of fee.

Important dates:

Commencement of course: 1st Jan. 2022

Project submission : 31st December 2022

Orientation programme : January, 2023

Final examinations : June, 2023

Students Merit Award:

On the occasion of the 'Silver Jubilee' convocation of the Post Graduate Diploma in Packaging programme (PGDP), it was planned to create a 'Students Merit Award Fund' for the educational activities and the interest amount so generated will be spent every year for making MEDALS for different categories. Thus, all contributions are for perpetuity.

The main objective in awarding Gold, Silver and Bronze medals to meritorious students is to motivate the students of Distance Education Programme (DEP).

The medals will be awarded to the students in the following manner:

- Gold Medal – Overall Top Scorer
- Silver Medal – Overall Second Scorer
- Bronze Medal – Overall Third Scorer

All medals have been sponsored by leading packaging companies and the contribution will be a onetime contribution towards the Students Merit Award Fund. The medal would have the IIP Logo on one side and the logo of the sponsoring company will be embossed on the other side.

1) DPC–101: Introduction to Principle of Packaging & Material

Packaging – A Total Concept, Packaging & Productivity, Package Components. Export packaging, Transit Hazards – Road, Rail, Sea & Air – Test Procedures for Evaluation of Transport – worthiness (I) Physical (ii) Environmental, Protection Against Handling, Transport and Storage Hazards.

2) DPC - 102: Rigid Packaging Material & Adhesive

Packaging in Glass Containers, Glass Containers Properties, Testing Methods. Manufacture of Black Plate, Tin Plate Characteristics and Properties, Tinplate Containers, Two Piece Metal Cans, Internal Food Can Lacquers, G.I. Drums – Oil Drums – Closures Manufacture and Usages.

3) DPC – 103: Packaging Machinery & Printing

Printing, Printing Techniques, Gravure, Flexography, Inkjet Printing for coding, Marking Applications, Surface Design and Sales Appeal, Graphic and Surface design, Printing Inks, Bar Coding, Reinforcements on Distribution Packages, Corrosion Prevention in Packaging.

4) DPC - 104: Product Packaging

Packaging of Processed Food Products, dehydrated. Ready to use Foods, Packaging of Meat, Fish & Poultry, Packaging of Fresh Foods, Packaging of Dairy Products, Packaging of Biscuits, Bread & Confectionery, Packaging of fruit Juices, Aseptic Packaging – Sterilization of Packaging Materials, Using Aseptic System, Aseptic Packaging,

5) DPC – 105: Project Work (Essay on a selected topic) details will be given separately.

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Indian Institute of Packaging

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

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