



भारतीय पैकेजिंग संस्थान
INDIAN INSTITUTE
OF PACKAGING

POST GRADUATE DIPLOMA IN PACKAGING

Prospectus
29th Batch PGDP
2013 - 2015

Consultancy & Projects

Research & Development

Testing & Evaluation

Training & Education



Autonomous Body under Ministry of Commerce, Government of India

REMINISCENCES



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.



Prof. N. C. Saha

Director
Indian Institute of
Packaging

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 and Hyderabad in 1976, 1986 and 2006, respectively.

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 two years full time Post Graduate Diploma in Packaging in the year 1985 in Mumbai which is one of its kind in the country. Subsequently, the Institute extended this facility by way of commencing a similar course in Delhi in the year 2000. Due to constant growth in demand of packaging professionals, IIP initiated this course in Kolkata with an intake of 15 students in 2010 and in Hyderabad with an intake of 16 students in 2011.

Today, the Post Graduate Diploma in Packaging (PGDP) course is established as one of the most popular programme and is well accepted by the packaging industry in India and abroad. Till date, over 1200 students have graduated under this programme with 100% campus placements in the past five years. On similar lines, the Institute started the Distance Education Programme in 1996 for the benefit of working people to upgrade their knowledge in the field of packaging.

In order to cater to the demand of the packaging industry, IIP has increased the intake of students from the academic year of 2012-2014.

I am confident that the youngsters 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.



Prof. N. C. Saha

GENESIS OF PACKAGING EDUCATION

It was in 1985, that we decided to take a step forward in the direction of Packaging Education. We are second in the world, besides USA, to start two years Post Graduate Diploma in Packaging. With the inputs of expert educationists under the chairmanship of Dr. D. V. Rege, then Director of University Department of Chemical Technology, Mumbai (now ICT) with Dr. V. Gupchup, then Principal of Victoria Jubilee Technical Institute, Mumbai (now Veermata Jijabai Technological Institute), Dr. Ravi Talwar; Mr. A. S. Athale; Dr. K. N. Kaul, Technical Director of M/s. Roche Products; Dr. R. Jayaraman, Vice-President of M/s. Britannia Industries Ltd. and others, the curriculum of two years full time Post Graduate Diploma in Packaging was developed.

Our 25th Batch of the Post Graduate Diploma in Packaging received their diplomas at the landmark 'Silver Jubilee Convocation' during the last academic year.



Since packaging is an inter-disciplinary subject, the first semester includes exposure to subjects like Mathematics, Physics, Chemistry, Mechanical and Electrical Engineering.

Packaging technology is then introduced with detail and elaborate coverage on various packaging media, which includes paper and paperboard, glass, metals, plastics and composites. Similarly, laboratory practical training and visit to packaging converters and user industries are made part of the curriculum

to expose students to the practical aspects of the subject.

In an organisation, since a packaging professional plays a vital role, management subjects such as Production Planning and Control, Total Quality Management, Industrial Engineering, Materials Management, Marketing and Financial Management are also covered.

The post graduate diploma course commenced in 1985 and the curriculum is regularly reviewed with addition of new subjects. Some of the subjects recently included are Eco-Regulation, Computer Aided Design & Mould Design and Communication Skills, which now form a part of the syllabus.

We have a separate computer laboratory for Post Graduate Diploma students equipped with necessary software for their training and use. Experienced and dedicated faculty trains the students in CAD.

We have been conducting a three months certificate course since 1968. The course is accredited by Asian Packaging Federation of which IIP is the founder member. The course is open to overseas participants as well.

Both these courses being full time, a need was felt to introduce a Distance Education Course especially for working people who cannot attend the full time programme. In 1996, we started the Distance Education Course for many aspirants who are working in the industry and could not attend our full time courses to improve their professional qualification.

We are in the 17th 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.

We started with student in-take of 20 for the 2-year Post Graduate Diploma in Packaging and today, our in-take is raised to 280. Appreciation of this course by the industry is seen in the responses we receive for the campus interviews, in which almost all of the students are placed within a few days. The value of our course is recognised through repeat visits of many corporate bodies and MNCs for campus placement.

All our students are respectfully placed with exciting job offers. Recently, overseas organisations have flown down and recruited our students.

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. (Mrs.) Jyoti G. Baliga
Professor / Additional Director
Head - Training and Education

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.



Reception

The Institute endeavours 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 and Chennai.

The major activities of the Institute are:

- Training and Education
- Consultancy and Projects
- Testing in NABL Accredited Laboratories

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

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 of 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



Convocation Gathering



Visitors Room



Lounge Area



Convocation

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 Co-operation (CFTC) and the European Union (EU).

The Institute has successfully completed International residential training programmes for APF and WPO in the years 2005, 2006 and 2010.



Director's Office

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.

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.



Permanent Exhibition

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

The Institute also organises industry participation in International exhibitions.



Convocation



Convocation

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.

INDIASTAR 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.

PACMACHINE Awards

The PACMACHINE Award symbolises achievement in the field of packaging and converting machinery, material handling and testing equipment.

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.



Canteen



More than Just Education



Administrative Block

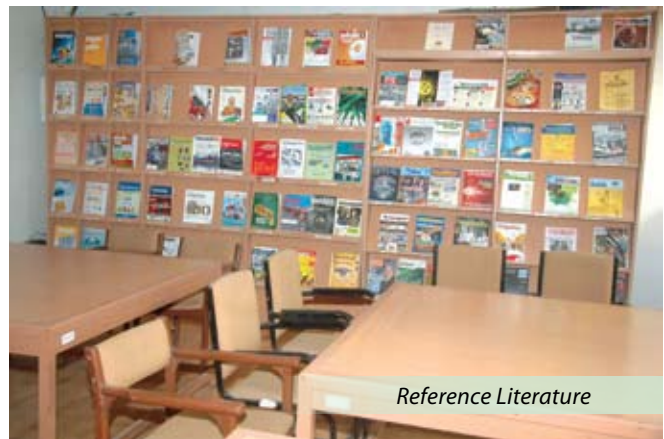
'Packaging India', the official Journal of the Institute published six times a year, is an invaluable source of information for the packaging industry. It is mailed free of cost to members of the Institute, packaging and related institutions all over the world. Individual subscriptions are available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



Reference Literature



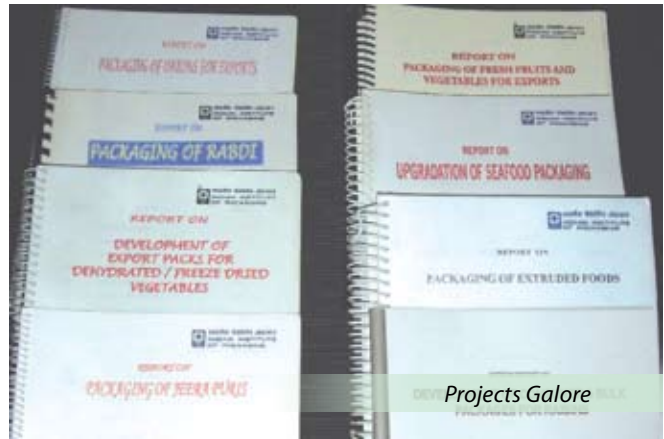
Classroom



Equipped Laboratory

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 products etc. 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 economical 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 2-year programme leading to a Post Graduate Diploma in Packaging (PGDP) in 1985. The



WPO / TIP Sponsored Programme



Concluding Session

course is designed to equip candidates with all the facets of packaging activity.

Other courses being offered by the Institute include the Graduate Diploma in Packaging through correspondence - a Distance Education Programme (DEP) 1996, recognised by the World Packaging Organisation (WPO) and accredited by Asian Packaging Federation (APF). The 18-month course, designed primarily for working professionals is open to industry personnel and to students in India, the Asia Pacific Region and other countries.

A 3-month Certificate Course in Packaging introduced in 1968 is conducted at the Head Office and at the Regional Centres, entries of which are on a first-cum-first-served basis. The course is also open to overseas participants deputed by their Governments under various schemes.

IIP is probably, the first Packaging Institute in the world to hold a training programme for women entrepreneurs. The 1-month Entrepreneurship Development Programme is organised once a year.

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.



Indo-Sri Lankan Initiative

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.



Session in Progress



Indo-African Initiative

TESTING AND EVALUATION SERVICES - NABL ACCREDITED LABORATORIES

Over the last 46 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 and Hyderabad, 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.



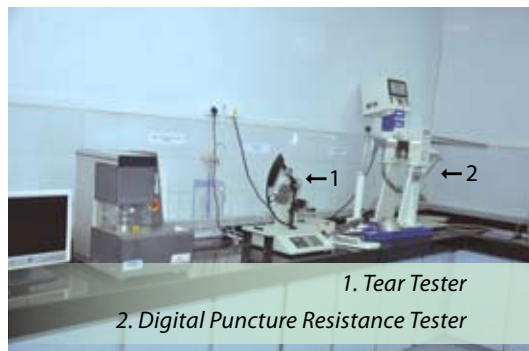
Universal Testing Machine for Geomembranes



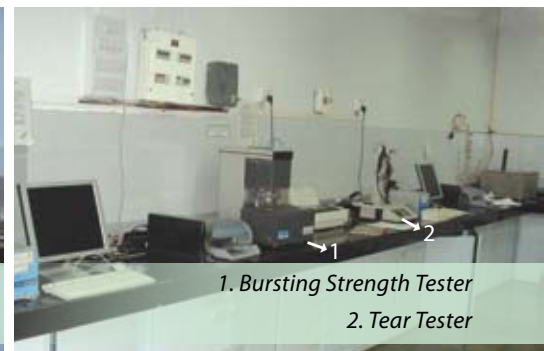
Universal Testing Machine



Folding Endurance



1. Tear Tester
2. Digital Puncture Resistance Tester



1. Bursting Strength Tester
2. Tear Tester



Opening Meeting - NABL Audit

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



POST GRADUATE DIPLOMA IN PACKAGING

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On 15th February, 2012, our 25th Batch of the Post Graduate Diploma in Packaging received their certificates.



Silver Jubilee Convocation

Since packaging is an inter-disciplinary subject, the first semester includes exposure to subjects like Mathematics, Physics, Chemistry, Mechanical and Electrical Engineering.

Packaging Technology is then introduced with detail and elaborate coverage on various packaging media, which includes Paper and Paperboard, Glass, Metals, Plastics and Composites. Similarly, laboratory practical training and visit to packaging converters and user industries are part of the curriculum to expose the students to the practical aspects of the subject.

Since a packaging professional plays a vital role in an organisation, management subjects are also included, such as:

- Production Planning and Control
- Total Quality Management
- Industrial Engineering
- Materials Management
- Marketing and Financial Management



An Updated Library



An Equipped Laboratory



Classroom Session

The Post Graduate Diploma course commenced in 1985 and the curriculum is regularly reviewed with addition of new subjects. Some of the subjects recently introduced are eco-regulation, computer aided design & mould design and communication skills, which now form a part of the syllabus.

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A Proud Batch

A large number of factory visits are undertaken in line with the curriculum. These provide the students with practical experience with respect to the packaging industries.

The fourth semester is dedicated to industrial training. Every student is placed in an industry for hands-on practical training. At the end of this semester, a 'Campus Placement' drive is conducted at the Institute in Mumbai, and is open for students of all regions of the Institute. IIP

takes pride to convey that it comes with a track record of 100% placement of students, to date.

The details of the subjects taught in each semester along with the teaching and examination scheme is as detailed in the Tables ahead.

The students are encouraged to showcase their cultural and extracurricular abilities through the yearly 'PACKFEST' programme. It comprises of a series of cultural and technical competitions related to packaging. This festival was introduced at the 24th Batch Convocation and was also conducted for the 25th Batch.



Classroom Session



Classroom Session

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 Platinum, Gold, Silver and Bronze medals to meritorious students is to motivate the students of Post Graduate Courses and as well as 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

The three toppers of the PGDP from each region will then compete for the topper amongst them all, for a Platinum Medal. A competitive examination on 'packaging' will be held at Mumbai every year before the

convocation.

All medals have been sponsored by leading packaging companies and the contribution will be a one time 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.

