

SPONSORS

List of Sponsors for **Students Merit Award** for Post Graduate Diploma in Packaging (PGDP) and Distance Education Programme (DEP).

Platinum Medal



Gold Medal

Silver Medal

Bronze Medal

Mumbai



Parksons Packaging Limited



Associate Capsules Group



Electronic Devices

Delhi



Hindustan Adhesives Limited



Micro Mechanical Works



Triveni Polymers Limited

Kolkata



Manjushree Technologies Limited



Tata Tinplate Limited



Avery Dennison

Hyderabad



ITW Limited



EcoBliss Limited



Shivshakti Timber Works

DEP



DIC Limited



Hindustan Tin Works Limited



Perks Engineering

SUCCESS STORIES...

- 100% placement in leading MNCs, FMCG, converter industries, KPO, food and pharmaceutical companies, intensive corporate interaction.
- All round professional and personality development.
- Industry oriented teaching. Students placed even before the completion of the course.
- Hi-tech campus, reputed faculty, state-of-the-art laboratories and excellent hostel facility at Mumbai.
- A unique Resource Centre to facilitate excellent placements all over the world. The 25th Batch students have got on-campus placements with enviable packages of ₹ 3-8 lakhs. Leading companies, across the world from various disciplines of packaging come for campus placements at IIP.



EMINENT RECRUITERS

The success continues with a number of eminent recruiters as listed here.

Alembic Limited

Agro Tech Foods Limited

Atul Limited

Associated Capsules Limited

Avery Dennison (I) Pvt. Limited

Biostadt India Limited

Cadbury India Limited

Cadila Pharmaceuticals Limited

Cavinkare Pvt. Limited

Castrol India Limited

Coca-Cola India Inc.

Chep India Pvt. Limited

Cipla Limited

Dabur India Limited

Dolcera ITES (P) Limited

Dr. Reddy's Laboratories Limited

Eltete India TPC Pvt. Limited

Flint Group India Pvt. Limited

Godrej & Boyce Mfg. Co. Limited

Gujarat Glass Limited

Harita – NTI

Hawkins Cookers Limited

Heinz India Limited

Himalaya Drug Co. Limited

Hindustan Unilever Limited

Hindustan Petroleum Corporation Limited

Integrated Plastics Packaging Inc.

IPCA Limited

ITC Limited

ITW India Limited

Johnson & Johnson Limited

Kraft Foods Pvt. Limited

Kris Flexipacks Limited

Larsen & Toubro Limited

L'Oreal India Pvt. Limited

Lupin Limited

Manjushree Extrusions Limited

Monginis Foods Pvt. Limited

Matrix Laboratories Limited

Marico Limited

Nestle India Limited

Nichrome India Limited

Procter & Gamble India Limited

Parksons Packaging Limited

Pearl Polymers Limited

Perfetti Van Melle (I) Pvt. Limited

Pidilite Industries Limited

Piramal Healthcare Limited

Polygel Technologies (I) Pvt. Limited

Strides Specialities Pvt. Limited

Shree Rama Multi-Tech Limited

Strapping Solutions (P) Limited

The Paper Products Limited

Torrent Pharmaceuticals Limited

Tipco Industries Limited

United Phosphorus Limited

Vadilal Ice Creams Limited

Wellpack Enterprises

Wipro Consumer Care & Lighting

Zydus Cadila Limited

THE INSTITUTES' FACULTY

Prof. N. C. Saha

Director and Principal Executive Officer
Indian Institute of Packaging

Mumbai

Dr. (Mrs.) Jyoti G. Baliga, Professor & Head,
T&E Division

Dr. Sanjay Chattopadhyaya, Professor & Head,
Laboratory Division

Ms. Sucheta B., Joint Director & In-charge,
Laboratory Division

Mr. P. S. Chalke, Deputy Director & In-charge,
C&P Division

Mrs. S. Bandekar, Deputy Director

Mr. B. Lalwani, Deputy Director

Mr. T. M. Mallik, Deputy Director

Mr. Y. D. Jain, Assistant Director

Mr. A. S. Ravi, Assistant Director

Mr. P. Meshram, Assistant Director

Mr. I. H. Shaikh, Assistant Director

Mr. Pon Kumar, Assistant Director

Mr. Subash Dalvi, Section Officer (B&A)

Mrs. Sushma G. Muddebhalkar, Technical Assistant

Mrs. H. R. Vaishali, Technical Assistant

Ms. Poonam Kanojia, Technical Assistant

Mr. Saroj. K. Meher, Technical Assistant

Mr. Rishu Gautam, Technical Assistant

Ms. Foram D. S., Technical Assistant

Mr. Harish Kumar R. K., Technical Assistant

Mr. K. Irmia, Technical Assistant

Ms. Sneha Gupta, Technical Assistant

Delhi

Mr. S. K. Sarkar, Joint Director & Regional Head

Mr. Madhav Chakraborty, Deputy Director

Mrs. Manjir Chakraborty, Deputy Director

Mr. T. K. Bandyopadhyay, Technical Assistant

Mr. R. G. Butani, Technical Assistant

Chennai

Dr. Tanweer Alam, Joint Director & Regional Head

Mr. Subodh K. Juikar, Deputy Director

Mr. R. Kolppan, Assistant Director

Mr. Arpit Badani, Technical Assistant

Ms. Shweta Tambe, Technical Assistant

Kolkata

Mr. Bidhan Das, Deputy Director & Regional Head

Mr. R. T. Shukla, Assistant Director

Mr. Anil Mouli, Technical Assistant

Mr. Alok Basak, Technical Assistant

Mr. Ramesh, Technical Assistant

Hyderabad

Mr. B. K. Karna, Deputy Director & Regional Head

Mr. Harinarayan Patel, Assistant Director

Mr. N. Nataraj, Technical Assistant

Ms. Sonali Singh, Technical Assistant

The Guest Faculty

The guest faculty are invited from reputed institutes. Some of them are as highlighted below.

Mumbai

Indian Institute of Technology (IIT)
University of Mumbai
Institute of Chemical Technology (ICT)
The Indian Centre for Plastics in the Environment (ICPE)
Maharashtra Educational Trust (MET)
S P Jain Institute of Management

Hyderabad

Osmania University
Jawaharlal Nehru Technical University
Institute of MSME

Kolkata

Calcutta University
Jadavpur University
Bidhanchandra Krishi Vishwavidyalaya
Indian Institute of Management (IIM)

Delhi

Delhi University
Netaji Subhash Institute of Technology
Delhi Engineering College
Indian Institute of Technology (IIT)

COMMENTS – 25th BATCH STUDENTS...

Priyavathana S. K.

Gold Medalist, Mumbai Centre

Post Graduate Diploma in Packaging Course (PGDP) opened the doors for me to work in the Production Department, a first for the PGDP student at ITC, Chennai.

As a graduate in Printing Technology, it would have taken me a minimum of 5 years to reach this status; as the entry level may have been much lower, may be in Q.C. Besides, the entry level pay package, may have been less than half of what I am drawing as a PGDP student. From day one, I have been put on the job, thanks to the thorough training, industrial visits, interaction with experts from industries and the project work handled by me during the course.



P. Mathivanan

Bronze Medalist, Mumbai Centre

After B.Tech., it is well known that, barely 20% get placement through campus. However, at IIP, more than 90% are placed through campus alone. The technical skills acquired through PGDP education programme, helps us to get good jobs in well known companies and survive in the job.

On account of the IIP course, career opportunities will be good in the future enabling a quick settlement in life. Companies with good brand names and image, visit the institute for campus placements. IIP students have a good reputation and respect in the job market.

Shikha Aggarwal

Gold Medalist, Delhi Centre

On completion of B.Sc. (Food Technology), I looked out for a course, which will be an extension to my basic qualification. Hence, I selected the PGDP of IIP.

The PGDP course syllabus is awesome. It teaches everything that is to be known in packaging. The educational content provided is explicit. We are prepared for the industry, as the course addresses the needs of every company and is thus universal.

I proudly recommend this course to all my juniors.

Alok Katiyar

Silver Medalist, Delhi Centre

The PGDP course has direct relevance to my current role as a technical trainee in the application group for packaging line trials at Nestle. In my current job profile, 60 – 70% of the content is Packaging Science and Technology, 100% of which is met by the PGDP course training. The remaining 30% is utilising skills as a qualified B.E. mechanical graduate.

IIP has enhanced my scope. At the beginning, I was raw and now am well-moulded to be well recognized by the industry. In future, I hope to design newer machines and newer shapes for packaging containers.

Gouda Sagar Laxminarayana

Silver Medalist, Mumbai Centre

As a B.Sc. graduate, I may never have got the opportunity, as I currently have, as a new employee at ITC, Chennai. I am currently handling projects in development of packages, which includes from conceptual stage right upto trial production run, after which I handover the developed packaging to production for commercialisation.

The kind of confidence derived by my employer is because of the well developed curriculum and the training I received at IIP, Mumbai. It would have taken me years to reach this stage, had I not done the Post Graduate Diploma in Packaging (PGDP) Course.

I am grateful to my teachers and all the faculty members during the 2 years full time PGDP Course, to have given me the opportunity to develop myself as a packaging professional.

Sonal Sharma

Bronze Medalist, Delhi Centre

I am a Food Technology Graduate. After graduation, I looked out for a course that would enhance my knowledge on preservation of food products that would help me understand the techniques of a good presentation as well as good shelf-life. I also considered Masters in Food Technology or an MBA in Agri-Business. I understood that 60% of packaging sector is governed by the food sector. Considering these facts as well as my ambitions to have multi-dimensional growth, I chose the PGDP course of IIP.

The biggest positive point about this course is that it has opened many more avenues for my professional growth.

PROSPECTUS

Consultancy & Projects

Research & Development

Testing & Evaluation

Training & Education

PROSPECTUS

About the Institute

The Indian Institute of Packaging (IIP), an autonomous body, is a National Institute set up in



the year 1966 under the administrative control of the Ministry of Commerce, Government of India, with the active support of the Indian industries. Its headquarters and principal laboratories are located on a sprawling campus in Mumbai and its four regional centres are located at Chennai, Delhi, Kolkata and Hyderabad. Activities of IIP, today, are in line with those of premier packaging institutes the world over. These are Training & Education, Consultancy & Projects, R&D, Package Testing & Quality Evaluation among others.

IIP works in close association with International organisations. IIP is a founder member of Asian Packaging Federation (APF) and World Packaging Organisation (WPO).

Course Objective

In recent times, with the globalisation of markets and trade, the role of packaging has assumed greater importance in marketing and distribution of agricultural produce, value added products, industrial products and mass produced consumer goods. As a result, there is now a demand for technically qualified cadre of people who can undertake design, development, production, quality control as well as make effective use of modern packaging technology.

There are over 7,000 organised industrial units and nearly 4,50,000 small industries in India who use or produce packaging materials and require qualified technical personnel.

The Indian Institute of Packaging has, therefore, to bridge the gap, developed a full time Post Graduate Programme of two year duration, which has become popular in industries since 1987.

Curriculum

The curriculum is so designed that the successful candidates would be well-equipped in all major facets of packaging activities and will be easily employable in a package manufacturing, packaging machinery manufacturing or user industries like food, pharmaceuticals, cosmetics and others. With experience, they can also aspire to be self-employed professionals / entrepreneurs in their field.

In order to provide sound technical knowledge and at the same time, acquaint them with industrial practices, the theory sessions have been kept at 60 per cent of the curriculum and the balance 40 per cent is allotted for practical sessions. The theory section includes classroom sessions and library reference work. The practical side includes laboratory exercise, industrial visits, project work and industrial training.

Title

The two-year programme leads to a **Post Graduate Diploma in Packaging**.

Eligibility

A candidate seeking admission for the Post Graduate Programme should have passed the full time (not by correspondence or part time) Graduate degree examination in Science (12 + 3 years degree – entire 5 years in science only) with Physics / Chemistry / Mathematics or Microbiology as the main subject or one of them as second subject in the three year degree or Agriculture / Food Science / Polymer Science or Engineering / Technology degree of a AICTE recognised University with minimum second class. Those with equivalent overseas qualification would also be eligible for admission. The candidate needs

to have consistently high academic performance and sound general knowledge.

Candidates appearing in the final year of the qualifying examinations can also apply, however, they must submit their results / provisional results (as given by University) latest on the day of the personal interview and selection, as without their degree result, student are not eligible to appearing for personal interview and will be eliminated from the admission process.

Admission Procedure

A candidate for PGDP would be selected on the basis of academic merit and performance in the entrance examination comprising of a written test and an interview. The written test will comprise of multiple-choice questions. The syllabus for the written test is at the graduate level and the subjects include

Physics, Chemistry, Mathematics and Engineering. The candidate has the option to choose questions, provided the number of questions does not exceed a fixed limit. The test is conducted in Mumbai, Kolkata, Delhi, Chennai and Hyderabad. The personal interviews will be conducted at Mumbai, Delhi, Kolkata and Hyderabad.

Application needs to be submitted on or before 31/05/2013 along with attested copies of mark sheets and other credentials. Application form, Prospectus and Syllabus can be obtained by paying ₹ 500 in cash or by Demand Draft in favour of 'Indian Institute of Packaging' payable at Mumbai, Kolkata, Delhi, Chennai or Hyderabad. The forms can also be downloaded from the website. However, such forms should be accompanied with ₹ 500 Demand Draft in favour of 'Indian Institute of Packaging' payable at Mumbai, Kolkata, Delhi, Chennai or Hyderabad.

Tuition Fee and Other Fee

Fee Structure

A.	One time fee (payable at the time of admission)	₹ 40,000*
B.	Fees per semester (Tuition Fee + Exam Fee)	₹ 60,000* ₹ (59000 + 1000)
C.	Refundable Deposit (payable at the time of admission)	₹ 3,000
D.	Hostel fees (optional) only in Mumbai	
	1) Payable at the time of admission [Registration fee (₹ 1000) + Deposit (Refundable ₹ 1000)]	₹ 2,000
	2) Fee per semester	₹ 20,000
E.	Fees for application form/ syllabus/prospectus/ set of previous year's question papers	₹ 500

* Fees + ST as applicable

Total fees payable at the time of admission = A+B+C+D (optional)

Fee Payment

Fees for the subsequent semester should be paid before the last day of the previous semester.

Late fee @ ₹ 100 per week.

All fees are to be paid by DD (in favour of 'Indian

Institute of Packaging') at the time of admission and before the commencement of each semester. Fees once paid will not be refunded under any circumstances.

Cancellation of admission

Only deposit paid, if any, shall be refunded.

Hostel

The programme is non-residential. However, separate hostel accommodation for boys and girls on a twin sharing basis (with mess facility) is available in Mumbai and is provided on first-come-first-served basis.



Time Lines

Semester I	:	2 nd week of August to end December, 2013
Semester I Examination	:	December, 2013
Semester break	:	1 st January to 31 st January, 2014
Semester II	:	February to June, 2014
Semester II Examination	:	June, 2014
Semester II Break	:	1 st July to 31 st July, 2014
Semester III	:	1 st August to 31 st December, 2014
Semester III Examination	:	December, 2014
Semester III break	:	January, 2015
Semester IV	:	1 st February to 30 th June, 2015
Semester IV Presentation and Viva	:	1 st week of July, 2015
Campus Placement	:	July, 2015

Seats

The seats for every academic year are as follows:

Mumbai - 80	Delhi - 80
Kolkata - 60	Hyderabad - 60

Seat reservation is as per the Government norms as below.

OBC	-	27.0%
SC	-	15.0%
ST	-	7.5%

Semester Examination

A candidate for the PGDP is required to pass three semester examinations and successfully complete the last semester devoted to industrial training and project work.

Passing Criteria

For eligibility of Post Graduate Diploma, a candidate must obtain at least 40 per cent marks in each paper and practicals. In addition, the candidate must obtain at least 50 per cent in the aggregate.

Provision for ATKT

In the event that the eligibility for Diploma is not fulfilled, a student will be given an ATKT provided his / her overall performance is excellent and he / she is not failing in more than two subjects.

Re-examination

A re-examination will be conducted within 8 weeks of declaration of results so as to enable students to

clear the subjects they have failed before their next semester examination.

Grade

70% and above	First Class with Distinction
60% and above but less than 70%	First Class
50% and above but less than 60%	Second Class

Students Merit Award

Awards are given on merit and merit-cum-need basis. The award of scholarships is decided based on the merit in each semester examination and good conduct.



Subject toppers in packaging technology are awarded special certificate.

Platinum, Gold, Silver and Bronze medals would be awarded to meritorious students so as to motivate the students of Post Graduate Courses 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.

Code of Conduct

Following is the Code of Conduct which all the students 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 student(s) from the course.

- All the students will be punctual in their attendance in the classroom and will be seated before the session starts as per the time-table.



- Students will behave properly in the classroom and within the campus of the Institute and will maintain the decorum.
- Decent dress code to be followed by the students.
- Following conduct / acts will be considered as violation of the code of conduct and is required to be followed by all the students:
 - Entering the classroom after the session / lecture has started / commenced.
 - Leaving the classroom, before the lecture / session is completed without the permission of the faculty.
 - Speaking loudly and among each other, during the progress of the lecture / session.
 - Any kind of teasing, abusing, using bad words, unparliamentary language with any of the students, staff of IIP, faculty, visitors or any other person 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 the institute, faculty or any guest, within the campus.
- Misplacing, stealing of any items or property, belonging to any of the students, staff, faculty or the Institute.
- Misbehaviour in any manner with any of the students, staff, faculty or visitor in the Institute.
- Bringing in the campus, any undesirable person, product, pet, without prior authorisation.
- Talking with other students, copying, exchanging material, papers during the examination.
- Littering with wrappers, paper etc. in the classroom, campus etc.
- Mishandling / misusing learning aids / books / instruments of the Institute.
- Ragging in any manner with any student in the campus.
- Eating in classroom, making noise in the corridor etc.
- Using mobile phones / its accessories in the classroom / laboratory.
- Copying presentations, lecture notes from laptops without prior permission of the respective faculty.
- Roaming in the office premises, campus without any reason.
- Destroying plants / greenery in the campus.
- Internet surfing in the classroom other than the time slot allotted, specifically for the purpose.
- Any act not mentioned above, but undesirable in the academic field.

Library Facility

The Institute has a well-equipped library with over 7,500 Indian as well as foreign books, in addition to reference books, journals, standards etc.

Dissertation / Library Reference Work

The student is expected to submit a typed report at the end of each semester as dissertation on library

reference work, for evaluation. The subject for dissertation would be prescribed by the Institute.

Industrial Visits

Number of industrial visits are organised for the students during Semester I, II and III 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.

Additional Topics

To improve the skill of the students, new topics and additional lectures will be introduced.

Practical Examination

The methodology of practical examinations is detailed by the faculty. Normally, students will be required to plan work, perform experiments, report results and give interpretation of the same.

During practical examinations, emphasis is laid on the methods of working and accuracy of results, rather than on information that is asked during the theory examinations.

The practical examinations are held in Packaging Technology and other related subjects only.

Industrial Training and Project Work

During the 4th semester, candidates are assigned to industries for 5 months. Each candidate is required to submit a typed report (2 copies) as 'Project Work' providing methodology, findings etc. in detail as a 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 necessary assessment / certificate as may be obtained by the Institute from the concerned unit. 300 marks are assigned for industrial training and project work and 300 marks for overall performance of the candidate in all four semesters.

Marks are based on regularity in attendance (minimum 75%), conduct and progress as reported by the industrial supervisor, quality of report and viva-voce examination, besides behaviour etc.

SYLLABUS

Post Graduate Diploma in Packaging: Teaching and Examination Scheme - Semester I

Sr. No.	Subject	No. of Lectures	No. of Papers	Examination Duration	Marks
1	Mathematics I	18	1	2 hrs.	50
2	Chemistry and Physics	18	1	2 hrs.	50
3	Electrical Technology	18	1	2 hrs.	50
4	Applied Mechanics I	36	1	3 hrs.	100
5	Mechanical Technology	18	1	2 hrs.	50
6	Engineering Mechanisms	18	1	2 hrs.	50
7	Packaging Technology I (Introduction to Packaging)	18	1	2 hrs.	50
8	Packaging Technology II (Cellulose Technology)	18	1	2 hrs.	50
9	Packaging Technology III (Fibreboard and Glass Technology)	18	1	2 hrs.	50
10	Project Work / Library Reference	72	-	-	25*
11	Engineering Drawing	18 [§]	1	-	50**
12	Industrial / Field Visit	90	-	-	25 [#]
13	Practicals (Packaging Technology)	54	1	3 hrs.	50 ^{##}

* Marks assigned on the basis of seminar, report, submission, presentation and viva-voce.

§ For practical / exercises, additional 18 hrs.

** Marks assigned on the basis of submitted work (drawing sheets

with exercises) submitted by the students.

Marks assigned on the basis of attendance, conduct and report submitted by the students.

Marks assigned on the basis of tests and viva-voce.

Theory Syllabus - Semester I

Mathematics I

Matrices, Differential Calculus, Differential Theorems, Integral Calculus and Differential Equations, Algebra, Polynomials, Business Mathematics

Chemistry and Physics

Chemical Bonds, Thermodynamics, Electro Chemistry, Gas Laws, Viscosity, Velocity and Acceleration, Force, Laws of Motion, Energy.

Electrical Technology

Circuits, Generators, Motors, Transformers, Measuring Instruments, Distribution.

Applied Mechanics I

Scalars and Vectors, Centre of Gravity,

Friction, Moment of Inertia, Stress-Strain Theory, Load Distribution, Bending Deflections, Torsion Analysis, Columns, Joints.

Mechanical Technology

Workshop Processes and their Appraisal, Hand Tools, Measuring Instruments.

Engineering Mechanisms

Kinematics, Mechanical Drives, Gear Trains, Clutches and Brakes, Bearings, Cams, Dynamometer.

Packaging Technology I

Introduction, Components, Permeability, Mechanisms of Spoilage, Corrosion and Prevention of Corrosion, Package Evaluation, Ecological Aspects, Bar-coding Applications in Packaging.

Packaging Technology II - Cellulose Technology

Cellulosic Materials, Processes in Cellulose Industries, Paper and Board Manufacture, Testing of Cellulose and Paper Materials, Speciality Papers, Folding Cartons, Multiwall Paper Sacks, Composite Containers.

Packaging Technology III - Fibreboard and Glass Technology

Fibreboard Cartons, Drums, Glass Containers: Manufacture, Properties, Applications and Testing.

Engineering Drawing

Drawing exercises to be completed on drawing sheets for submission.

Practicals

Experiments based on Paper / Fibreboard and Glass Containers: Properties and Applications.

Post Graduate Diploma in Packaging: Teaching and Examination Scheme - Semester II

Sr. No.	Subject	No. of Lectures	No. of Papers	Examination Duration	Marks
1	Economics	18	1	2 hrs.	50
2	Mathematics II	18	1	2 hrs.	50
3	Applied Mechanics II	36	1	3 hrs.	100
4	Industrial Electronics	18	1	2 hrs.	50
5	Fluid Mechanics and Machinery	18	1	2 hrs.	50
6	Packaging Technology IV (Plastics Technology)	27	1	2 1/2 hrs.	75
7	Packaging Technology V (Lamination / Coating etc.)	18	1	2 hrs.	50
8	Packaging Technology VI (Metal Containers)	18	1	2 hrs.	50
9	Package Printing Technology	18	1	2 hrs.	50
10	Machine Drawing	18 [§]	1	-	50 ^{**}
11	Industrial / Field Visits	90	-	-	25 [#]
12	Project Work / Library Reference	72	-	-	25 ^{##}
13	Practical (Packaging Technology)	54	1	3 hrs.	50 [^]

[§] For practical exercises, additional 18 hrs.

^{**} Marks assigned on the basis of submitted work.

[#] Marks assigned on the basis of attendance, conduct and submission of reports.

^{##} Marks assigned on the basis of seminar, report submission, presentation and viva-voce.

[^] Marks assigned on the basis of tests, journal and viva-voce.

Theory Syllabus - Semester II

Economics

Study of Demand and Supply, Market Structure, Nature of Production, Distribution, National Income and Money.

Mathematics II

Introduction to Statistics, Application of Statistics in Packaging, Normal Distribution, Dimensional Analysis, Measures of Central Tendency, Measures of Dispersion Coefficient of Variations, Skewness, Simple Correlations and Regressions, Multiple Regression, Multiple and Partial Correlation and Variability, Design of Experiments for Packaging Applications, Statistical Quality Control.

Applied Mechanics II

Simple Stress-Strain Theory, Theory of Torsion, Columns and Struts.

Industrial Electronics

Electronic Devices : Tubes, Transistors, ICs, Rectifiers, Amplifiers, Oscillators, Analogue and Digital Measurements and Controls, Application of Computer in Packaging.

Fluid Mechanics and Machinery

Hydraulic and Pneumatic Machines, Rotary Pumps, Centrifugal Pumps, Constant and Variable Delivery Pumps.

Packaging Technology IV - Plastics Technology

Polymer Chemistry, Classification of Polymers, Properties, Processing of Plastics, Special Plastics and their Applications.

Packaging Technology V - Lamination / Coating etc.

Seals, Coatings, Laminates, Adhesives, Reinforcements.

Packaging Technology VI - Metal Containers

Tins, Cans, Formed Containers, Steel

Drums, Aluminium Foil / Collapsible Tube / Containers.

Package Printing Technology

Process of Communication, Printing Processes and Methods, Layout & Paste-up, Composition for Printing, Theory of Full Colour Graphic Arts, Photography, Printing Image, Carriers, Printing Presses, Paper and other Printing Stocks, Printing Inks.

Machine Drawing

Submission of drawings based on exercises given.

Process Laboratory

Designing and making of Cartons and Fibreboard Boxes, Heat Sealing, Strapping etc.

Practicals

Plastics Technology - Experiments connected with Plastics.

Experiments on Seals, Coating, Laminates, Reinforcements.

Post Graduate Diploma in Packaging: Teaching and Examination Scheme - Semester III

Sr. No.	Subject	No. of Lectures	No. of Papers	Examination Duration	Marks
1	Production Management	36	1	3. hrs.	100
2	Financial Management	27	1	2 1/2 hrs.	75
3	Principles of Management and Entrepreneurship	18	1	2 hrs.	50
4	Marketing and Materials Management	27	1	2 1/2 hrs.	75
5	Packaging Technology VII (Cushioning, Wooden Containers etc.)	18	1	2 hrs.	50
6	Packaging Technology VIII (Food / Pharmaceuticals / Cosmetics and Chemicals)	36	1	3 hrs.	100
7	Packaging Technology IX (Machinery)	36	1	3 hrs.	100*
8	Packaging Technology X (Laws, Eco, Regulation etc.)	18	1	2 hrs.	50
9	Packaging Technology XI (Tooling, Design of Moulds)	27	1	2 1/2 hrs.	75
10	Communication Skills	6	-	-	-
11	Practicals (Packaging Technology)	54	1	3 hrs.	50
12	Introduction to Package Design using Computer	18**	1	2 hrs.	50

* Portion of the marks will be assigned for project / library reference work.

** For practical exercises, additional 18 hrs.

Theory Syllabus - Semester III

Production Management

Industrial Engineering, Operations Research, Quality Control, Production, Planning and Control.

Financial Management

Cost Accounting and Financial Management.

Principles of Management and Entrepreneurship

Definition, Objective, Function etc.

Marketing and Materials Management

Structure, Models, Market Research, Materials Management, Demand Forecasting, Physical Distribution.

Packaging Technology VII - Cushioning, Wooden Containers etc.

Cushioning : Mechanism, Fragility Assessment, Cushion Design, Testing.

Wooden Containers, Textile Bags, Containerisation, Palletisation and Cargo Marking.

Packaging Technology VIII - Food, Pharmaceuticals, Cosmetics and Chemicals

Introduction to Food Preservation / Packaging Technology, Method of Storage, Packaging of Food, Pharmaceuticals, Cosmetics, Chemicals and other products.

Packaging Technology IX - Machinery

Filling of Dry and Liquid Products, Filling of Carbonated Liquids and other Packaging Techniques, Cartoning, Labelling, Thermoforming.

Packaging Technology X - Laws & Regulations

Standards and Standardisation, Quality Standard Weights and Measures Act / Packaged Commodities Act, Eco Regulations, FPO, PFA, FDA Rules and Regulations etc.

Packaging Technology XI - Introduction to Design of Moulds and Tooling

Injection Moulds, Blow Moulds, Extrusion Dies, Product Design, Designing for Packaging Application.

Communication Skills

Techniques and practices.

Practicals

Experiments connected with Metal Containers. Experiments connected with Permeability, Shelf-life Studies of Food, Cosmetics and Pharmaceutical Products.

Auto CAD - Practice Session

Introduction to Package Design using Computer

Setting drawing requirement, Commands and systems variables, To co-ordinate a system, Creating objects, Editing methods, Layers and object properties, Creating 3D objects etc.

Postgraduate Diploma in Packaging: Teaching and Examination Scheme - Semester IV

Sr. No.	Subject	Duration	Marks
1	Industrial Training and Report	5 months	300*
2	Overall Performance		300**

* To submit typed report as Project work based on training and viva-voce.

** Marks will be assigned on the basis of regularity in attendance, conduct and progress.

CAMPUS PLACEMENTS

At the end of the Semester IV campus placement is arranged, wherein, students have the opportunity to face interviews arranged with a number of interested companies including from abroad. We have been very successful in placements as nearly all students get placed in the first round. The placements are centralised at Mumbai Headquarters and all students from the regional centres are also free to participate. Additionally, regional centres also conduct their own campus placements.



PGDP CENTRES AT A GLANCE

Mumbai



Kolkata



Delhi



Hyderabad





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