



Post-Graduate Diploma in Packaging Science & Technology (PGDPST)

Course Details

Duration	Two Years (4 Semesters)
Course Beginning	Last Week of July
Semesters	Semester 1 Aug.-Dec. Semester 2 Jan.-Jun. Semester 3 Jul.-Dec. Semester 4 Jan.-May/June.
Objective Tests	Six (50 Marks Each) 3rd Week Sept., Dec., Mar., Jun., Sept., Dec.
Written Tests	Three (Six Papers of 50 Marks Each) 1st Week of Jan., Jul. & Dec.
Dissertation	One (100 Marks) By each Student on Packaging Design/Development and Related Subjects
Group Projects	Project – I: Innovation & Creative Packaging Final Presentation & Report Submission: 3rd Semester, July Project – II: Packaging Design/Development and Related Subjects Final Presentation & Report Submission: 3rd Semester, October Industry Sponsored with Merit Award
Pass Criteria	40% in each Paper & Aggregate 50%
Attendance	Minimum 85% Compulsory
Conduct	Good Conduct Inside and Outside the College
Selection Criteria	Minimum Graduate in Science / Engg. / Tech-Pharma, Food, Plastics, Paper, etc., or Diploma in Engg. / Printing and on basis of Merit and Interview.
Intake	30
Fees	Rs. The fee includes Tuition fees, Reading Materials, Projects, Visits, Caution Deposit and Examination fees.

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PGDPST

Course Contents

Concepts in Packaging

Introduction, Role of Packaging, Status Review of Packaging Industry, etc.

Packaging Development (Factors & Criteria)

Product & Packaging, Material Characteristics, Packaging Evaluation.

Packaging Media (Science, Technology, Manufacture, Conversion, Properties & Applications)

Paper & Board, Fibre Board Boxes, Composite Containers, Drums, Cellulosics, Glass, Metal Containers and Components, Polymers and Plastics, Flexible Packaging Materials, Wooden Containers, Crates, IBCs, Flexible & Rigid, Textiles and Jute.

Ancillary Packaging Materials

Principles and Theory of Adhesion, Adhesive – Materials, Types/Varieties and Properties and Applications, Cushioning Theory, Materials, Types/Varieties and Properties and Applications, Cushion Systems and Design, Corrosion Preventives, Reinforcements, Printing Inks, Coatings and Lacquers, Colorants for Plastics, Labels, Caps, Closures, Wads, Master Batches, etc.

Quality Assessment & Performance Evaluation

Testing, Significance of Testing, Quality Control and Quality Assurance, SQC Techniques, Shelf-life Evaluation, Product Package Compatibility, Migration, Transport-worthiness Testing, Testing of Ancillary Materials, Machine Material Interaction, IMDG, UN / IATA Testing, etc.

Package Printing

Pre-Press, Printing Processes, Letterpress, Offset, Lithography, Flexography, Gravure, Screen, Pad, Foil Stamping, Digital Printing (Inkjet, Thermal), Computer-to-Plate. Colour Management, Colour Measurement, etc.

Package Graphics

Package Design, Role of Graphics, Package Aesthetics, Decoration Aspects, Layout and Feature Selection, etc.

Standardisation, Variety Reduction & Cost Optimisation

Standards – Objectives & Benefits, Standardisation, Variety Reduction, Packaging Costs & Economics, Value Analysis, ISO 9001: 2000, ISO 14000-2000, etc.

Product Packaging

Agricultural Products, Processed Foods, Marine Products, Pharmaceuticals, Cosmetics, Toiletries, Soaps & Detergents, Chemicals, Pesticides, Textiles, Handicrafts, Technology & Systems, CAP/ MAP, Vacuum Packaging, Gas Packaging, IQF, Cool and Cold Storage, Freeze Drying.

Packaging Distribution & Marketing

Distribution, Branding, Retailing, Break Bulks and Unit Load Devices, Palletisation, Containerisation Packaging – a tool for distribution, etc.

Packaging Laws & Regulations

Legal Metrology, Weights and Measures Laws and Rules, Jute Control Order, Loss Prevention, PFA, FDA, Pollution Control, HACCP, Safety & HSE, etc.

Package Coding & Marking

Marking & Coding, Bar Coding, Ship Marking, IMDG / IATA Coding, etc.

Package Storage and Handling

Storage Types, Damage Control, Warehousing and Handling Equipments & Techniques, etc.

Packaging & Environment

Eco Issues, Wastage Control, Wastage Disposal, Eco Friendly Packaging, etc.

Packaging Machinery

Principles and Theory of Packaging Machines, Types of Filling Machines, Wrapping Machines, VFFS, HFFS, Thermoform-fill-seal, Bottling Machines, Induction Sealing, Ink Jet Printing, Coding, Capping, Marking, Labelling, on line – end of line systems, shrink and stretch wrapping, cartoning and case packing, etc.

CAD in Packaging

CAD for Packaging, Structural Design, Role of Structure, Diemaking, Drawing, Moulds. Prototypes, Samples, etc.

Engineering & Workshop Technology

Engineering Drawing, Wood Working, Metal Working, Mechanics, etc.

Management Concepts in Packaging

Packaging in Organisation Structure, Packaging – Relevance to Supply Chain Management, Marketing, Export Marketing, e-Commerce, Industrial Policy and Packaging, etc.

Specialized Institutional Training

Specialised Training at the Government Institute of Printing Technology.

Specialised Training in Packaging Pre-production Technology, Pre-press, Colour Management, Colour Measurement and Structural Design through **Esko-Graphics**.

Laboratory Training and Prototype Development

In-Laboratory Training for conducting tests and making prototypes.

Group Projects

Execution and Presentation of Group Projects covering Packaging Design/Development, Innovation and Creativity and Related Subjects.

Seminars and Debates

Participation in Seminars and Debates on Topics of Packaging and Related Subjects.

Dissertation

Individual Dissertation in Packaging and Related Topics.

Industrial and Institutional Visits

Visits to Industries, Institutions and Exhibitions for a first-hand knowledge.

Industrial Training

5-6 months Industrial Training.





SIES SCHOOL OF PACKAGING PACKAGING TECHNOLOGY CENTRE

Revision: 0

SOP HRD 01

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E-mail: siescom@vsnl.net / siessopptc@vsnl.net

No.

Batch

APPLICATION FORM FOR ADMISSION

Strike out which is not applicable

POST-GRADUATE **PGDPST** **PART-TIME** **GTCP** **DISTANCE LEARNING** **GTCD**

Name _____
(Full Name including Surname in CAPITALS)

Date of Birth _____
(Enclose Birth Certificate)

Address _____
(For Correspondence)

Telephone: _____ E-mail: _____

Permanent Address _____

Telephone: _____ E-mail: _____

Qualifications: (Enclose attested copies of marksheet and two recent passport-size photographs.)

Exam. Passed	School/ College	Board/ University	Year	Marks/ Out of	Class/ Percentage

DECLARATION

I declare that the statements made by me as above, to the best of my knowledge and belief are true and correct. If found otherwise, the admission granted, will be cancelled and fee forfeited. If admitted I shall abide by the rules and regulations of the SIES School of Packaging and willing to sign the Discipline Agreement Form. I also understand that the fees once paid will not be refunded.

Date:

Place:

Signature of Candidate

Signature of Parent/Guardian

FOR OFFICE USE ONLY

Remarks of the Admission Panel Representative/s:

Roll No. allotted:

Date:

Place:

Signature of Admission Panel Representative/s

