



**Department Of Printing Technology**  
**Guru Jambheshwar University Of Science & Technology, Hisar – 125001**  
Scheme of B. Tech. – Packaging Technology, w.e.f. Session 2020-2024

**B. Tech. (Packaging Technology) III- Semester**

Sr. No.	Category	Course Code		Course Nomenclature	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Basic Science Courses	BSC-PKG201-T	--	Applied Sciences for Packaging	3	0	0	3.0	--	3.0
2.	Engineering Science Courses	ESC-PKG201-T	--	Engineering Science for Printing	3	0	0	3.0	--	3.0
3.	Professional Core Courses	PCC-PKG201-T	PCC- PKG201-P	Elements of Packaging	3	0	3	3.0	1.5	4.5
4.	Professional Core Courses	PCC- PKG203-T	PCC- PKG203-P	Package Printing Processes	3	0	3	3.0	1.5	4.5
5.	Professional Core Courses	PCC- PKG205-T	PCC- PKG205-P	Graphics Design Essentials in Packaging	3	0	3	3.0	1.5	4.5
6.	Mandatory Courses	MC103-T	--	Indian Constitution	3	0	0	0.0	--	0.0
					18	0	9			
<b>Total Credits</b>									<b>19.5</b>	

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**B. Tech. (Packaging Technology) IV- Semester**

Sr. No.	Category	Course Code		Course Nomenclature	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Basic Science Courses	BSC-PKG202-T	-----	Applied Sciences for Packaging Materials	3	0	0	3.0	--	3.0
2.	Professional Core Courses	PCC- PKG202-T	PCC- PKG202-P	Pre-Press Technology in Packaging	3	0	3	3.0	1.5	4.5
3	Professional Core Courses	PCC- PKG204-T	PCC- PKG204-P	Computer Based Package Design	3	0	3	3.0	1.5	4.5
4	Professional Core Courses	PCC- PKG206-T	PCC- PKG206-P	Paper Substrate in Packaging	3	0	3	3.0	1.5	4.5
5	Professional Core Courses	PCC- PKG208-T	---	Polymers in Packaging	3	0	0	3.0	--	3.0
6.	Mandatory Courses	MC104-T	--	Essence of Indian Traditional Knowledge	3	0	0	0.0	--	0.0
					18	0	9			
<b>Total Credits</b>									<b>19.5</b>	

L-Lecture, T-Tutorial, P-Practical

Note: Each student will have to undergo 4 to 6 weeks duration Industrial/Research Laboratory Training (Summer Training-I) during summer vacations at the end of 4<sup>th</sup> Semester which will be evaluated in 5<sup>th</sup> Semester.

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**B. Tech. (Packaging Technology) V- Semester**

Sr. No.	Category	Course Code		Course Nomenclature	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Open Elective Courses	OEC-I	--	Open Elective Course-I	3	0	0	3.0	--	3.0
2.	Humanities, Social Sciences and Management Courses	HSMC302-T	--	Fundamental of Management for Engineers	2	0	0	2.0	--	2.0
3.	Professional Core Courses	PCC- PKG301-T	PCC- PKG301-P	Colour Management in Packaging	3	0	3	3.0	1.5	4.5
4.	Professional Core Courses	PCC- PKG303-T	PCC- PKG303-P	Rigid Packaging Machines	3	0	3	3.0	1.5	4.5
5.	Professional Core Courses	PCC- PKG305-T	--	Pharmaceutical and Cosmetics Packaging	3	0	0	3.0	--	3.0
6.	Project Work	--	PROJ- PKG301-P	Industrial Training Presentation-I	0	0	2	--	1.0	1.0
					14	0	8			
<b>Total Credits</b>									<b>18.0</b>	

Note: Assessment of Summer Training-I will be based on presentation/seminar, viva-voce, report and certificate for the practical training taken at the end of 4<sup>th</sup> semester.

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**B. Tech. (Packaging Technology) VI- Semester**

Sr. No.	Category	Course Code		Course Nomenclature	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Open Elective Courses	OEC-II	--	Open Elective Course -II	3	0	0	3.0	--	3.0
2.	Program Elective Courses	PEC-I	--	Program Elective Course -I	3	0	0	3.0	--	3.0
3.	Humanities, Social Sciences and Management Courses	HSMC301-T	--	Economics for Engineers	2	0	0	2.0	--	2.0
4.	Professional Core Courses	PCC- PKG302-T	PCC- PKG302-P	Print Finishing Techniques	3	0	3	3.0	1.5	4.5
5.	Professional Core Courses	PCC- PKG304-T	PCC- PKG304-P	Ink Technology in Packaging	3	0	3	3.0	1.5	4.5
6.	Professional Core Courses	PCC- PKG306-T	--	FMCG Packaging	3	0	0	3.0	--	3.0
					17	0	6			
<b>Total Credits</b>										<b>20.0</b>

**Note: Each student will have to undergo 6 to 8 weeks duration Industrial/Research Laboratory Training (Summer Training-II) during summer vacations at the end of 6<sup>th</sup> Semester which will be evaluated in 7<sup>th</sup> Semester.**

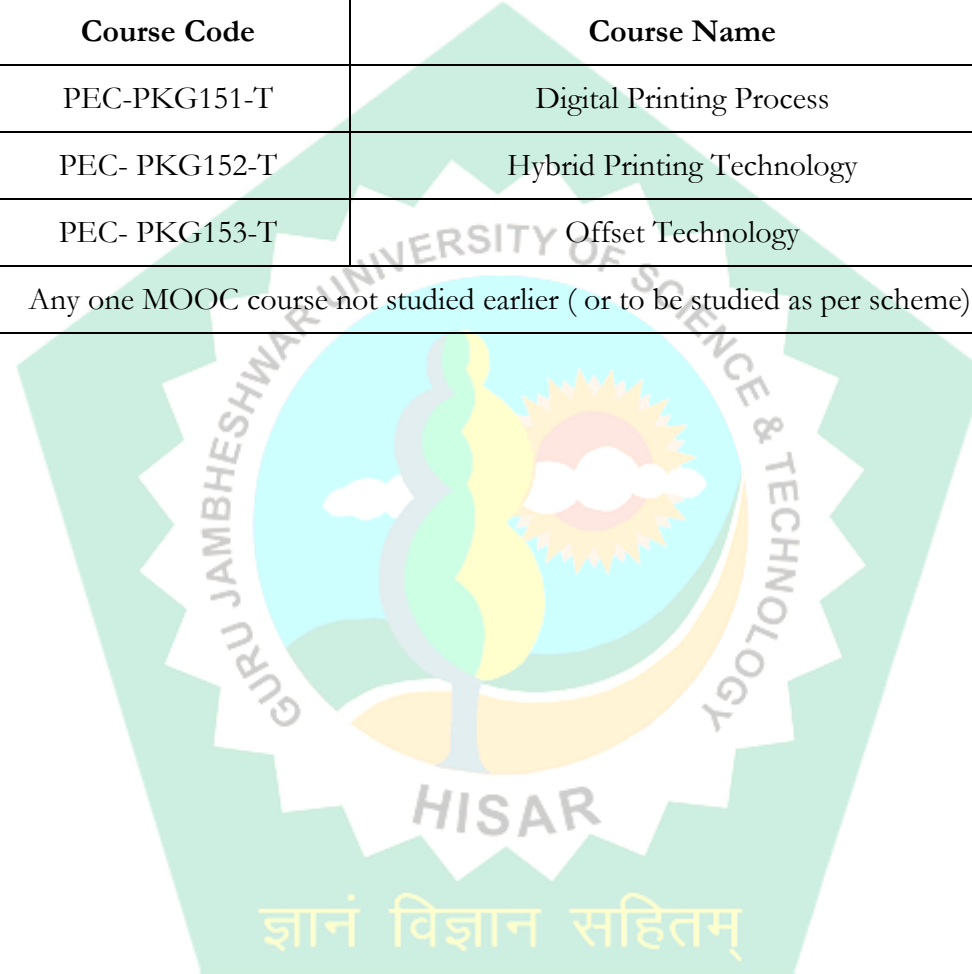
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<b>Program Elective Course-I (PE -I : Theory)</b>	
<b>Course Code</b>	<b>Course Name</b>
PEC-PKG151-T	Digital Printing Process
PEC- PKG152-T	Hybrid Printing Technology
PEC- PKG153-T	Offset Technology
Any one MOOC course not studied earlier ( or to be studied as per scheme)	



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**B. Tech. (Packaging Technology) VII- Semester**

Sr. No.	Category	Course Code		Course Nomenclature	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Open Elective Courses	OEC-III	--	Open Elective Course -III	3	0	0	3.0	--	3.0
2.	Program Elective Courses	PEC-II	PEC-II Lab	Program Elective Course -II	3	0	2	3.0	1.0	4.0
3.	Program Elective Courses	PEC-III	--	Program Elective Course -III	3	0	0	3.0	--	3.0
4.	Professional Core Courses	PCC-PKG401-T	PCC-PKG401-P	Packaging Converting Process	3	0	3	3.0	1.5	4.5
5.	Professional Core Courses	PCC-PKG403-T	--	Print Cost Estimation	3	0	0	3.0	--	3.0
6.	Project Work	--	PROJ-PKG401-P	Minor Project	0	0	6	--	3.0	3.0
7.	Project Work	--	PROJ-PKG403-P	Seminar	0	0	2	--	1.0	1.0
8.	Project Work	--	PROJ-PKG405-P	Industrial Training Presentation-II	0	0	2	--	1.0	1.0
9.	Mandatory Courses	--	MC-PKG401-P	General Proficiency	0	0	2	--	0.0	0.0
					15	0	17			
<b>Total Credits</b>									<b>22.5</b>	

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Program Elective Course - II (Theory)		Program Elective Course - II (Practical)	
Course Code	Course Name	Course Code	Course Name
PEC-PKG251-T	Polymer Processing Technology	PEC-PKG251-P	Polymer Processing Technology Lab.
PEC- PKG252-T	Packaging Machinery Maintenance	PEC- PKG252-P	Packaging Machinery Maintenance Lab.
PEC- PKG253-T	Dry Offset Printing Process	PEC- PKG253-P	Dry Offset Printing Process Lab.
Any one MOOC course not studied earlier ( or to be studied as per scheme)			

Program Elective Course - III (Theory)	
Course Code	Course Name
PEC-PKG351-T	Supply Chain Management
PEC- PKG352-T	Green Printing
PEC- PKG353-T	Industrial Packaging
Any one MOOC course not studied earlier ( or to be studied as per scheme)	

**Note:**

1. Students will be allowed to use non-programmable scientific calculator only, **however sharing of calculator will not be permitted.**
2. Project load will be treated as 2 hours for Project Coordinator and 1 hour for each participating teacher.
3. Assessment of Seminar will be based on presentation, viva-voce and report.
4. Assessment of Summer Training-II will be based on presentation/seminar delivered, viva-voce, report and certificate for the practical training taken at the end of 6<sup>th</sup> Semester.

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**B. Tech. (Packaging Technology) VIII- Semester**

Sr. No.	Category	Course Code		Course Nomenclature	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Program Elective Courses	PEC-IV	PEC-IV Lab	Program Elective Course - IV	3	0	3	3.0	1.5	4.5
2.	Program Elective Courses	PEC-V	PEC-V Lab	Program Elective Course - V	3	0	3	3.0	1.5	4.5
3.	Professional Core Courses	PCC-PKG402-T	PCC-PKG402-P	Quality Control & Waste Management	3	0	3	3.0	1.5	4.5
4.	Professional Core Courses	PCC-PKG403-T	--	Latest Trends in Packaging	3	0	0	3.0	--	3.0
5.	Project Work, Seminar and Internship in Industry	--	PROJ-PKG402-P	Major Project	0	0	8	--	4.0	4.0
6.	Project Work, Seminar and Internship in Industry	--	PROJ-PKG404-P	Seminar	0	0	4	--	2.0	2.0
					12	0	21			
<b>Total Credits</b>									<b>22.5</b>	

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Program Elective Course - IV (Theory)		Program Elective Course - IV (Practical)	
Course Code	Course Name	Course Code	Course Name
PEC-PKG451-T	Technology of Gravure	PEC-PKG451-P	Technology of Gravure Lab.
PEC- PKG452-T	Label Printing	PEC- PKG452-P	Label Printing Lab.
PEC- PKG453-T	Technology of Flexography	PEC- PKG453-P	Technology of Flexography Lab.
Any one MOOC course not studied earlier ( or to be studied as per scheme)			

Program Elective Course - V (Theory)		Program Elective Course - V (Practical)	
Course Code	Course Name	Course Code	Course Name
PEC-PKG551-T	Rigid Packaging Machinery	PEC-PKG551-P	Rigid Packaging Machinery Lab.
PEC- PKG552-T	Packaging of Industrial and Hazardous Goods	PEC- PKG552-P	Packaging of Industrial and Hazardous Goods Lab.
PEC- PKG553-T	Flexible Packaging Machines	PEC- PKG553-P	Flexible Packaging Machines Lab.
Any one MOOC course not studied earlier ( or to be studied as per scheme)			

**Note:**

1. The project will be evaluated at the end of the 8<sup>th</sup> Semester on the basis of its implementation (software/hardware), presentation delivered, viva-voce and report.
2. A viva of the students will be taken by external examiner at the end of the semester.

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**Or**

**B. Tech. (Packaging Technology): 8<sup>th</sup> Semester FULL SEMESTER INDUSTRIAL TRAINING**

Sr. No.	Category	Course Code		Course Title	Hours per week			Course Credits		
		Theory	Practical		L	T	P	Theory	Practical	Total
1.	Professional Core Courses	PCC-PKG402-T	PCC-PKG402-P	Quality Control & Waste Management	3	0	3	3	1.5	4.5
2.	Professional Core Courses	PCC-PTG404-T	----	Latest Trends in Packaging	3	0	0	3.0	0	3.0
3.	Industrial Training	--	PROJ-PKG-442-P	Full Semester Industrial Training	0	0	30	--	15.0	15.0
					06	0	33			
<b>Total Credits</b>										22.5

**Guidelines for 8th Semester Full Semester Industrial Training**

The student will be required to submit to the department, the offer letter for the full semester industrial training, at-least 15 days before the commencement of 8<sup>th</sup> Semester. The options shall be according to the following conditions: A student may opt for one semester industrial training in lieu of attending the courses of 8<sup>th</sup> Semester. The scheme and syllabus for full semester industrial training is mentioned above.

A student will be allowed to join the industrial training under following conditions: -

- i. If the student gets selected for the job through campus placements and the employer is willing to take the student for the training for a period of full semester.

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- ii. If the student gets offer of pursuing training from reputed Research organization/Govt. sponsored project/ Govt. research institution/ Multinational corporations (MNCs)/ Public sectors.
- iii. Student will have to manage their Professional Core Courses as per concerned faculty guidelines for conducting classes in offline/online mode.
- iv. For completion of lab work, the student will have to undergo for two week capsule course in respective lab of the department prior to final practical examination.
- v. For evaluation of the industrial training, the guidelines circulated by T&P Cell will prevail.

For pursuing this training, the student shall require prior approval from Dean of Faculty of Engineering & Technology through the Chairperson of the respective department. To ensure the fruitfulness of this training, a list of companies, beside the Govt. organizations/ Public sectors, will be provided. The student will be allowed to go for training only to the companies/organizations mentioned in the list. The list can be modified (addition/deletion) from time to time subject to approval from Dean, Faculty of Engineering and Technology.

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