



Department Of Printing Technology
Guru Jambheshwar University Of Science & Technology, Hisar – 125001
 Scheme of B. Tech. – Packaging Technology, w.e.f. Session 2018-19

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			
Total Credits										19.5

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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			
Total Credits										19.5

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 4th Semester which will be evaluated in 5th 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			
Total Credits									18.0	

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 4th 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			
Total Credits										20.0

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 6th Semester which will be evaluated in 7th Semester.

Program Elective Course-I (PE -1 : Theory)	
Course Code	Course Name
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			
Total Credits										22.5

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Program Elective Course - II (Theory + Practical)			Program Elective Course - III (Theory)	
Course Code		Course Name	Course Code	Course Name
PEC-PKG251-T	PEC-PKG251-P	Polymer Processing Technology	PEC-PKG351-T	Supply Chain Management
PEC- PKG252-T	PEC- PKG252-P	Packaging Machinery Maintenance	PEC- PKG352-T	Green Printing
PEC- PKG253-T	PEC- PKG253-P	Dry Offset Printing Process	PEC- PKG353-T	Industrial Packaging
Any one MOOC course not studied earlier (or to be studied as per scheme)			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 6th 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			
Total Credits										22.5

Program Elective Course - IV (Theory + Practical)			Program Elective Course - V (Theory+ Practical)		
Course Code	Course Code	Course Name	Course Code	Course Code	Course Name
PEC-PKG451-T	PEC-PKG451-P	Technology of Gravure	PEC-PKG551-T	PEC-PKG551-P	Rigid Packaging Machines
PEC- PKG452-T	PEC- PKG452-P	Label Printing	PEC- PKG552-T	PEC- PKG552-P	Packaging of Industrial and Hazardous Goods
PEC- PKG453-T	PEC- PKG453-P	Technology of Flexography	PEC- PKG553-T	PEC- PKG553-P	Flexible Packaging Machines
Any one MOOC course not studied earlier (or to be studied as per scheme)			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 8th 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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