

# **Scheme and Syllabus for B.Tech in Printing and Packaging Technology to Choice Based Credit System (CBCS)**

**Department of Printing and Packaging  
Technology**



**School of Engineering & Technology  
CENTRAL UNIVERSITY OF HARYANA  
MAHENDERGARH-123031  
HARYANA**

**B. Tech. (Printing & Packaging Technology)**  
**2<sup>nd</sup> YEAR (3<sup>rd</sup> Semester)**

CODE	SUBJECT	L	T	P	CREDIT	THEORY	PRACTICAL	INTERNAL ASSESSMENT	TOTAL MARKS
BT PPT301	Introduction to Packaging and Printing	3	1	-	4	70	-	30	100
BT PPT302	Fundamentals of Management	2	-	-	2	70	-	30	100
BT PPT303	Package Design and Development	3	1	-	4	70	-	30	100
BT PPT304	Elements of Packaging	3	1	-	4	70	-	30	100
	GEC*	3	1	-	4	70	-	30	100
BT PPT305	Printing Process Lab	-	-	2	1.0	-	35	15	50
BT PPT306	Package Design & Development Lab	-	-	2	1.0	-	35	15	50
	GEC* Lab	-	-	2	1.0	-	35	15	50
Total					21	350	105	195	650

**List of GEC\* (General Elective Course) “For Students of other Departments”**

Code	Course Name
BT PPT 307	Packaging Legislations
BT PPT303	Package Design and Development
BT PPT306	Package Design & Development Lab
BT PPT 308	Printing and Packaging Materials Science
BT PPT 309	Printing and Packaging Materials Science Lab

**B. Tech. (Printing & Packaging Technology)**  
**2<sup>nd</sup> YEAR (4<sup>th</sup> Semester)**

CODE	SUBJECT	L	T	P	CREDIT	THEORY	PRACTICAL	INTERNAL ASSESSMENT	TOTAL MARKS
BT PPT401	Fundamentals of Gravure Technology	3	1	-	4	70	-	30	100
BT PPT402	Introduction to Graphic Imaging	3	-	-	3.0	70	-	30	100
BT PPT 403	Environmental Studies	3	-	-	-	70	-	30	100
	GEC**	3	1	-	4	70	-	30	100
	GEC***	3	1	-	4	70	-	30	100
BT PPT 404	Economics	3	-	-	3	70	-	30	100
BT PPT405	Gravure Technology Lab	-	-	2	1.0	-	35	15	50
BT PPT406	Graphic Imaging Lab	-	-	2	1.0	-	35	15	50
	GEC** Lab	-	-	2	1.0	-	35	15	50
	GEC*** Lab	-	-	2	1.0	-	35	15	50
Total					22	420	140	240	800

**List of GEC\*\* and GEC\*\*\* (General Elective Course) “For Students of other Departments”**

Code	Subject
BT PPT407	Brand Management
BT PPT401	Fundamentals of Gravure Technology
BT PPT405	Gravure Technology Lab
BT PPT 408	Computers in Printing and Packaging
BT PPT 409	Computers in Printing and Packaging Lab

**B. Tech. (Printing & Packaging Technology)**  
**3<sup>rd</sup> YEAR (5<sup>th</sup> Semester)**

CODE	SUBJECT	L	T	P	CREDIT	THEORY	PRACTICAL	INTERNAL ASSESSMENT	TOTAL MARKS
BT PPT501	Technology of Flexography	3	1	-	4	70	-	30	100
BT PPT502	Sheet Fed Offset Technology	3	1	-	4	70	-	30	100
BT PPT503	Cellulose Technology	3	1	-	4	70	-	30	100
	DCEC*	3	1	-	4	70	-	30	100
	DCEC**	3	1	-	4.0	70	-	30	100
	GEC****	3	1	-	4.0	70	-	30	100
BT PPT504	Flexography Technology Lab	-	-	2	1.0	-	35	15	50
BT PPT505	Sheet Fed Offset Lab	-	-	2	1.0	-	35	15	50
BT PPT506	Cellulose Technology Lab	-	-	2	1.0	-	35	15	50
	GEC**** Lab	-	-	2	1.0	-	35	15	50
Total					28	420	140	240	800

**List of DCEC\* and DCEC\*\* (Discipline Centric Elective Courses) and GEC\*\*\*\***

Code	Subject
BT PPT507	Wood, Glass and Metal Based Packaging
BT PPT508	Packaging Management
BT PPT 509	Paperboard and Corrugated Packaging
BTPPT 510	Lean Six Sigma
BT PPT503	Cellulose Technology
BT PPT506	Cellulose Technology Lab

**B. Tech. (Printing & Packaging Technology)**  
**3<sup>rd</sup> YEAR (6<sup>th</sup> Semester)**

CODE	SUBJECT	L	T	P	CREDIT	THEORY	PRACTICAL	INTERNAL ASSESSMENT	TOTAL MARKS
BT PPT601	Color Perception and Calibration	3	1	-	4	70	-	30	100
BT PPT602	Image Carrier for Printing Processes	3	1	-	4	70	-	30	100
BT PPT603	Packaging Machineries	3	-	-	3.0	70	-	30	100
BT PPT604	Packaging and Printing Inks	3	1	-	4	70	-	30	100
	DCEC***	3	1	-	4	70	-	30	100
BT PPT605	Image Carrier for Printing Processes Lab	-	-	2	1.0	-	35	15	50
BT PPT606	Package Testing Lab	-	-	2	1.0	-	35	15	50
BT PPT607	Color Perception and Calibration Lab	-	-	2	1.0	-	35	15	50
Total					22	350	105	225	750

**DCEC\*\*\* (Discipline Centric Elective Courses)**

Code	Subject
BT PPT608	Packaging Attributes – Shelf Life
BT PPT609	Plastic & Polymer Based Packaging
BT PPT610	Sustainability and Environment Printing & Packaging

**B. Tech. (Printing & Packaging Technology)**  
**4<sup>th</sup> YEAR (7<sup>th</sup> Semester)**

CODE	SUBJECT	L	T	P	CREDIT	THEORY	PRACTICAL	INTERNAL ASSESSMENT	TOTAL MARKS
BT PPT701	Quality Control & Distribution and Transportation	3	1	-	4	70	-	30	100
BT PPT702	Finishing and Decorating Technology	3	-	-	3.0	70	-	30	100
	DCEC****	3	1	-	4	70	-	30	100
	DCEC*****	3	1	-	4	70	-	30	100
BT PPT703	Quality Control Lab	-	-	2	1.0	-	35	15	50
BT PPT704	Finishing and Decorating Lab	-	-	2	1.0	-	35	15	50
BT PPT705	Industrial Training (4 weeks)	-	-	-	3.0	-	70	30	100
Total					20	280	140	180	600

**List of DCEC\*\*\*\* and DCEC\*\*\*\*\* (Discipline Centric Elective Courses)**

Code	Subject
BT PPT706	Food & Agro Based Packaging
BT PPT707	Digital & Advance Printing Processes
BT PPT708	Packaging of Healthcare and Pharmaceutical
BT PPT 709	Costing and Estimating

**B. Tech. (Printing & Packaging Technology)**  
**4<sup>th</sup> YEAR (8<sup>th</sup> Semester)**

<b>CODE</b>	<b>SUBJECT</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>CREDIT</b>	<b>THEORY</b>	<b>PRACTICAL</b>	<b>INTERNAL ASSESSMENT</b>	<b>TOTAL MARKS</b>
BT PPT801	<b>Project /Internship</b>	-	-	-	20	-	350	150	500